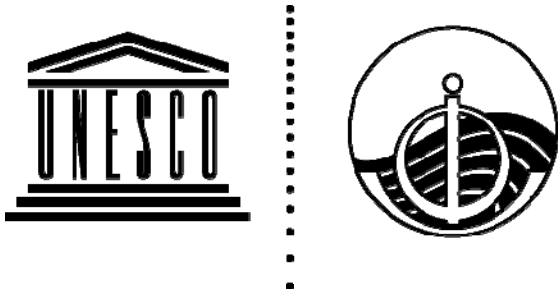


**EXERCISE INDIAN OCEAN WAVE 2011
An Indian Ocean-wide Tsunami
Warning and Communication Exercise**

UNESCO 2011



**EXERCISE INDIAN OCEAN WAVE 2011
An Indian Ocean-wide Tsunami
Warning and Communication Exercise**

**Prepared by the IOWave11 Task Team
For the Intergovernmental Coordination Group for the
Indian Ocean Tsunami Warning and Mitigation System**

UNESCO 2011

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

Indian Ocean Tsunami Warning and Mitigation System (IOTWS). Exercise Indian Ocean Wave 2011 (IOWave11) An Indian Ocean-wide Tsunami Warning and Communication Exercise. *IOC Technical Series No. 99. UNESCO 2011 (English)*

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1. BACKGROUND

The devastating impact of the 26 December 2004 Indonesia earthquake and Indian Ocean tsunami tragically demonstrated what can happen without an effective tsunami warning system. Tsunamis may not occur often, but when they do they can affect coasts, sometimes across an entire ocean. The tsunami caused damage and casualties across the entire Indian Ocean basin – even as far away as South Africa. Following this event, UNESCO's Intergovernmental Oceanographic Commission (IOC) was requested to establish an International Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS), to promote the exchange of seismic and sea level data for rapid tsunami detection and analysis, to provide warnings for such events, and to coordinate mitigation efforts among its Member States. An efficient and effective end to end warning system is needed that is ready to react 24 hours a day to any potential tsunami threat, alert those at risk along coasts, and motivate them take immediate and appropriate steps to save their lives.

The 8th Session of the Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS-VIII) was held at the Bureau of Meteorology, Melbourne, Australia, 3–6 May 2011. The session was attended by 59 delegates and observers from 12 Member States in the Indian Ocean region, 3 Observer States and 9 UN agencies, NGOs and other organizations. The ICG decided to hold an Indian Ocean Wave Exercise (IOWave11) on 12th October 2011 and established a Task Team to organise it, with membership comprising Australia, India, Indonesia, Malaysia and Oman. The timetable for the transition to the Regional Tsunami Advisory Service Provider (RTSP) service for the IOTWS was adopted, with the service scheduled to commence operations on 12 October 2011, following the IOWave11 exercise, with the Interim Advisory Service (IAS) provided by the Japan Meteorological Agency (JMA) and the Pacific Tsunami Warning Center (PTWC) continuing to operate a parallel (or “shadow”) service until the next session of the ICG.

Indian Ocean-wide tsunami exercises are effective tools for evaluating the readiness of the IOTWS and for identifying changes that can improve its effectiveness. There have been few major Indian Ocean tsunamis in the last few years and the IOTWS must be prepared.

1.1 IOWave09

Exercise IOWave09 took place on October 14, 2009. A total of 18 Member States: Australia, Bangladesh, India, Indonesia, Kenya, Madagascar, Malaysia, Maldives, Mauritius, Mozambique, Myanmar, Oman, Pakistan, Seychelles, Singapore, Sri Lanka, Tanzania and Timor Leste participated in the exercise. Some countries including Kenya, Indonesia and Sri Lanka executed it down to the community level.

The post-evaluation showed that most of the participating countries/agencies expressed a positive view on IOWave09 Exercise planning, conduct, format and style.

1.2 Exercise Dates

Exercise IOWAVE11 will take place on 12th October 2011.

Who should be involved?:	National Tsunami Warning Centres; National Disaster Management Organizations; Local communities, to the extent decided by each Member State.
Scenario:	North Sumatra earthquake of 26 th December 2004
Start time:	0100hrs UTC
Timescale:	Real-time

1.3 Further Information

Further information will be posted to the website www.ioc-tsunami.org/iowave11 as it becomes available.

2. CONCEPT OF EXERCISE IOWave11

2.1 Purpose

The purpose of the exercise IOWave11 is to evaluate and improve the effectiveness of the IOTWS, its operational Regional Tsunami Advisory Service Providers (RTSPs) and the Regional Integrated Multi-Hazard Early Warning System (RIMES), the Interim Advisory Service provided by the Japan Meteorological Agency (JMA) and the Pacific Tsunami Warning Center (PTWC), the National Tsunami Warning Centres (NTWCs), and National Disaster Management Organizations (NDMO), in responding to a potentially destructive tsunami. The exercise will provide an opportunity for Indian Ocean countries to test their operational lines of communications, review their tsunami warning and emergency response Standard Operating Procedures, and to promote emergency preparedness. Regular exercises are important for maintaining staff readiness for the real event. This is especially true for tsunamis, which are infrequent but require rapid response when they occur. The pre-exercise planning and post-exercise evaluation process is as important as the actual exercise, because it brings together all stakeholders to closely coordinate their actions. Every Indian Ocean country is encouraged to participate.

2.2 Objectives

The following are the over-arching objectives for IOWave11:

1. Validate the dissemination process of issuing Tsunami Bulletins to Indian Ocean countries.
 - a. RTSP and RIMES bulletins to other RTSPs and NTWCs
 - b. IAS providers (PTWC and JMA) bulletins to NTWCs and RTSPs
2. Validate the Standard Operating Procedures of countries receiving and confirming Tsunami Bulletins through their designated Tsunami Watch Focal Points (TWFPs).
3. Validate Standard Operating Procedures for disseminating warning messages to relevant agencies within a country.
4. Validate the national level organisational decision-making process for public warnings and evacuations.
5. Identify the methods that would be used to notify and instruct the public.
6. Assess the elapsed time for public notification and instruction.

Within the above framework, each country should develop its own specific objectives for the exercise.

2.3 Types of Exercise

Exercises stimulate the development, training, testing and evaluation of Disaster Plans and Standard Operating Procedures (SOP). Exercise participants may use their own past multi-hazard drills (e.g. flood, typhoon, earthquake, etc.) as a framework to conduct Exercise IOWave11.

Exercise IOWave11 should be conducted to a level of readiness that involves communication and decision making at Government level, without disrupting or alarming the general public. Individual countries may at their discretion elect to extend the exercise down to the level of public notification and community evacuation.

Exercises can be conducted at various scales of magnitude and sophistication. The following list provides an overview of the different types of exercises that can be conducted:

1. **An Orientation Exercise** lays the groundwork for a comprehensive exercise programme. It is a planned event, developed to bring together individuals and officials with a role or interest in multi-hazard response planning, problem solving, development of standard operational procedures (SOPs), and resource integration and coordination. An Orientation Exercise will have a specific goal and written objectives and result in an agreed upon Plan of Action.
2. **A Drill** is a planned activity that tests, develops, and/or maintains skills in a single or limited emergency response procedure. Drills generally involve operational response of single departments or agencies, organizations, or facilities, but may be a subset of full-scale exercises. Drills can involve internal notifications and/or field activities. Limited evacuation may or may not be conducted, such as within a school, pilot hotel, or village.
3. **A Tabletop Exercise** is a planned activity in which local officials, key staff, and organizations with disaster management responsibilities are presented with simulated emergency situations. It is usually informal, in a conference room environment, and is designed to elicit constructive discussion from the participants to assess plans, policies, and procedures. Individuals are encouraged to discuss decisions based on their organization's Standard Operating Procedures (SOPs) with emphasis on slow-paced problem solving, rather than rapid, real time decision-making. A Tabletop Exercise should have specific goals, objectives, and a scenario narrative. See Appendix IV for a more detailed description of Tabletop Exercises.
4. **A Functional Exercise** is a planned activity designed to test and evaluate individual functions, multiple activities within a function, or interdependent groups of functions among various agencies. It is based on a simulation of a realistic emergency situation. The Functional Exercise gives the decision-makers a fully simulated experience of being in a major disaster event. It should take place at the appropriate coordination locations (eg. Warning centres and emergency operations centres) and activate all the appropriate members designated by the plan. Organisations should test their SOPs using real time simulation tsunami bulletins. Public evacuations may or may not be included. A Functional Exercise should have specific goals, objectives, and a scenario narrative.
5. **A Full-scale Exercise** is the culmination of a progressive exercise programme that has grown with the capacity of the community to conduct exercises. A Full-Scale exercise is a planned activity in a "challenging" environment that encompasses a majority of the tsunami warning and emergency management functions, and involves multiple layers of government (national, provincial, local). This type of exercise involves the actual mobilization and deployment of the appropriate personnel and resources needed to demonstrate operational capabilities. DMOs (Disaster Management Office) and other local command centres are required to be activated. It tests all aspects of emergency response, and should demonstrate inter-agency cooperation. A Full-scale exercise is the largest, costliest and most complex exercise type. It may or may not include public evacuations.

For Exercise IOWave11, individual Member States should decide what type of exercise they are going to undertake on 12th October. It is recommended that a tabletop exercise should be conducted as a minimum. Many Member States will choose to conduct a functional exercise and some may decide to undertake a full-scale exercise. Each of these requires an increasing level of planning and preparation, particularly if any form of community evacuation is planned, and Member States are advised to conduct the exercise only to the level for which they are fully prepared.

3. SPECIFICS OF CONDUCTING EXERCISE IOWAVE11

3.1 Overview

There will be a single exercise scenario played out in real time. The scenario will replicate the major earthquake off the northwest coast of Sumatra on 26th December 2004 that generated a destructive tele-tsunami affecting countries from Australia to South Africa over the course of about 12 hours.

The RTSPs, RIMES and IAS providers will issue bulletins for this exercise to all IOTWS NTWCs. The timeline for issuance of bulletins on 12th October is given in Table 1. WMO GTS product identifiers for the bulletins are given in Table 2.

Participant countries may follow the exercise timeline precisely or elect to exercise on their own timeline in order to achieve their particular objectives. For example, a particular country's exercise controller may choose to inject the bulletins into the exercise at times of their own choosing, or alternatively put them in envelopes with the time they must be opened written on each, with each key participant agency having their own set of envelopes.

Coverage: All Member States are encouraged to participate. Estimated tsunami arrival times and wave heights to all IOTWS countries are included in the bulletins.

Messages: The RTSPs and RIMES will issue an initial notification message to start the exercise. Thereafter, NTWCs will receive notification messages from the RTSPs and RIMES according to the timeline shown below (Table 1) and will be directed to the RTSP and RIMES websites for to view the detailed bulletins. Examples of the notification messages for each RTSP and RIMES are given in Appendix 1.

RTSP and RIMES bulletins are also provided as Annex 1 to this manual for reference purposes and to facilitate the conduct of tabletop exercises on timelines other than real time. However, countries are encouraged to conduct the exercise in real time and to make use of the RTSP websites to access bulletins.

"Dummy" test messages will be sent by the IAS providers at the start of the exercise. Subsequent dummy test messages from the IAS will direct the participants to Appendices 2 and 3 of this manual where the bulletins are displayed in full. (NB. The IAS bulletins are provided in full because they will not be available on websites)

3.2 Exercise Specifics

The Scenario: The simulated tsunami will be generated by a magnitude 9.2 earthquake off the northwest coast of Sumatra at 3.30°N, 95.96°E that occurs on October 12, 2011 at 0100 UTC. An earthquake of this size would be likely to generate a tsunami with widespread destructive effects. Bulletins will be issued in real time for approximately 12 hours until the tsunami is simulated to have crossed the entire Indian Ocean.

Master Schedule and Timings

Table 1: Scenario Timeline

Tsunami from magnitude 9.2 earthquake with epicentre at 3.30°N, 95.96°E occurring on October 12, 2011 at 0100 UTC.

Time (UTC)	Provider	Bulletin #	Detail
0100			Earthquake occurs
0105	RTSP India	1	Type-I
0105	RTSP Indonesia	1	Type-I
0105	RIMES	1	Type-I
0105	RTSP Australia	1	Type-I
0110	RTSP India	2	Type-II
0110	RTSP Indonesia	2	Type-II
0112	RIMES	2	Type-II
0112	RTSP Australia	2	Type-II
0115	PTWC	1	See Appendix II for full bulletin
0120	JMA	1	See Appendix III for full bulletin
0141	RTSP India	3	Type-III
0143	RIMES	3	Type-III
0145	RTSP Australia	3	Type-1
0145	RTSP Indonesia	3	Type-III
0145	PTWC	2	See Appendix II for full bulletin
0150	RTSP Australia	4	Type-III
0150	JMA	2	See Appendix III for full bulletin
0200	RTSP India	4	Type-III
0243	RIMES	4	Type-III
0245	RTSP Indonesia	4	Type-III
0245	PTWC	3	See Appendix II for full bulletin
0300	RTSP India	5	Type-III
0300	RTSP Australia	5	Type-III

0300	JMA	3	Final
0343	RIMES	5	Type-III
0345	RTSP Indonesia	5	Type-III
0345	PTWC	4	See Appendix II for full bulletin
0400	RTSP India	6	Type-III
0400	RTSP Australia	6	Type-III
0443	RIMES	6	Type-III
0445	RTSP Indonesia	6	Type-III
0445	PTWC	5	See Appendix II for full bulletin
0500	RTSP India	7	Type-III
0500	RTSP Australia	7	Type-III
0543	RIMES	7	Type-III
0545	RTSP Indonesia	7	Type-III
0545	PTWC	6	See Appendix II for full bulletin
0600	RTSP India	8	Type-III
0600	RTSP Australia	8	Type-III
0643	RIMES	8	Type-III
0645	RTSP Indonesia	8	Type-III
0645	PTWC	7	See Appendix II for full bulletin
0700	RTSP India	9	Type-III
0700	RTSP Australia	9	Type-III
0743	RIMES	9	Type-III
0745	RTSP Indonesia	9	Type-III
0745	PTWC	8	See Appendix II for full bulletin
0800	RTSP India	10	Type-III
0800	RTSP Australia	10	Type-III
0845	PTWC	9	See Appendix II for full bulletin
0900	RTSP India	11	Type-III
0900	RTSP Australia	11	Type-III

0943	RIMES	10	Type-III
0945	RTSP Indonesia	10	Type-III
0945	PTWC	10	See Appendix II for full bulletin
1000	RTSP India	12	Type-III
1000	RTSP Australia	12	Type-III
1043	RIMES	11	Type-III
1045	PTWC	11	See Appendix II for full bulletin
1100	RTSP India	13	Type-III
1100	RTSP Australia	13	Type-III
1100	PTWC	12	Final
1145	RTSP Indonesia	11	Type-III
1200	RTSP India	14	Type-III
1200	RTSP Australia	14	Type-IV: Final
1200	RIMES	12	Type-IV: Final
1300	RTSP India	15	Type-IV: Final
1300	RTSP Indonesia	12	Type-IV: Final

Table 2: Product Types

Product types issued for Dummy bulletins

Centre	WMO GTS Identifier	Fax	Email	SMS
ITEWC	WEIO20 DEMS	Yes	Yes	Yes
InaTEWS	WEIO22 WIIX	Yes	Yes	Yes
JATWC	WEIO24 AMMC	Yes	Yes	Yes
JMA	WEIO40 RJTD	Yes	Yes	No
PTWC	WEIO21 PHEB	Yes	Yes	No
RIMES	WEIO29 VRMM	Yes	Yes	Yes

3.3 Test Procedure:

A Communications Test Log form for each NTWC to complete is included in the evaluation form for National Tsunami Warning Centres (Part 1). There is one page for each RTSP's messages and one for the RIMES messages. Following the reception of each notification message from an RTSP or RIMES, NTWCs should do the following:

- (a) Log the time of reception of the RTSP or RIMES notification message, and how it was received (GTS, email, fax, SMS).
- (b) Use a web browser to access the password-protected website for the RTSP or RIMES given in the notification message, and log the success or otherwise of this access.
- (c) Following the reception of notification messages, also report the NTWC warning status (as if the NTWC was actually issuing warnings for their country for this event) via the web-based "NTWC Warning Status" form. A link to this form is given on each RTSP website and the RIMES website. Please log the success or otherwise of the reporting process via the form.

Steps (a), (b) and (c) should be performed for **each RTSP** when its notification message arrives.

3.4 Website Passwords:

The user names and passwords for accessing each of the RTSP password-protected websites are provided in the manual copies to NTWCs and are not intended to be viewed by the general public.

3.5 Actions in case of a real event

All documentation and correspondence relating to this exercise is to be clearly identified as **Indian Ocean Wave 11 Exercise** and **For Exercise Purposes Only**. In the case of a real event occurring during the exercise, IAS and NTWCs/RTSPs will issue their normal message products for the event. Such messages will be given full priority and a decision will be made by each centre whether to continue or cease their participation in the exercise.

3.6 Resourcing

Although participating countries will have advance notice of the exercise and may elect to stand up a special dedicated shift to allow normal core business to continue uninterrupted, it is suggested that realistic resource levels be deployed in order to reflect some of the issues that are likely to be faced in a real event.

3.7 Media Arrangements

The UNESCO External Relations and Information department (ERI) will issue an international Media Advisory in late September or early October to alert the press of the 12 October "Indian Ocean Wave 2011 Exercise." About one week before the exercise, UNESCO will issue a second press release with more details on the exercise. Appendix IV contains a sample press release that can be customized by Member States.

ICG/IOTWS Member States should consider issuing one or two exercise press releases to their respective country's media in conjunction with UNESCO releases. Member States press releases will give adequate alert to their country's population and give their local media time to conduct interviews and documentaries with participating exercise organizations in advance of the exercise.

A second Member State press release, one week before the exercise, would provide a more detailed description of exercise activities to take place within that country.

4. POST EVALUATION

4.1 Evaluation and Debriefing

Participating countries are requested to provide feedback on the exercise by 31st October

2011. This feedback will greatly assist in the evaluation of the IOWave11 Exercise and assist in the development of subsequent exercises.

The goal of exercise evaluation is to validate strengths and to identify opportunities for improvement within the participating organisations. This is to be accomplished by collating supporting data; analysing the data to compare effectiveness against requirements; and determining what changes need to be made by participating organizations as well as the IOTWS as a collective to support effective tsunami warning and decision making.

Evaluation of this exercise will focus on the adequacy of plans, policies, procedures, assessment capabilities, communication, resources and inter-agency/inter-jurisdictional relationships that support effective tsunami warning and decision-making at all levels of government. Participants that choose to include additional objectives, for example by exercising public warning and/or response plans, can expand the evaluation accordingly. The evaluation of such additional objectives will be for the use of the particular participant only and is not required for the integrated IOTWS report.

The evaluation aims to inform and facilitate individual participant country evaluations as well as the integrated IOWave11 Report. Official Exercise Evaluation Forms addressing the respective focus areas and objectives are included in Appendix V. All participant countries are requested to complete the official Exercise Evaluation Forms and return only those forms back to the ICG/IOTWS Secretariat at iotws@unesco.org by **31st October 2011**.

A formal exercise debrief inclusive of all participants in the respective countries will facilitate a collective and official evaluation. The method applied to collect the data required for consideration in the debrief is to be decided upon by the individual participant countries. It is recommended that independent and objective exercise evaluators/observers be appointed at all exercise points to support the collection of such data. Evaluators/observers are to be guided by the exercise objectives and the information required in the Exercise Evaluation Forms.

In completing evaluation forms, participating organizations must have the ability to note areas for improvement and actions that they plan to take without concern that the information carries political or operational risks. Thus, all official Exercise Evaluation Forms are designated as "For Official Use Only" and will be restricted for use by the exercise Task Team for the sole purpose of compilation of the integrated IOWave11 Report. Some participant countries may however decide to share their individual evaluation outcomes with the public. While the IOWave11 Report will be submitted to the IOC, the decision to share the information contained in it with the public will be made by the ICG/IOTWS.

APPENDIX I. SAMPLE NOTIFICATION MESSAGES

RTSP India

WEIO20 DEMS 120105

TEST TEST TEST TEST TEST TEST TEST TEST TEST

TEST TSUNAMI BULLETIN NOTIFICATION MESSAGE NUMBER 1
REGIONAL TSUNAMI ADVISORY SERVICE PROVIDER RTSP INDIA (ITEWC)
issued at: 0105 UTC Wednesday 12 October 2011

TO: INDIAN OCEAN NATIONAL TSUNAMI WARNING CENTRES (NTWCs)
FROM: RTSP INDIA

NOTIFICATION:

*** THIS IS INDIAN OCEAN TSUNAMI DRILL IOWAVE11 ***

*** THIS IS NOT A REAL TSUNAMI EVENT ***

RTSP INDIA HAS JUST ISSUED TEST TSUNAMI BULLETIN NUMBER 1 FOR THE INDIAN OCEAN, BASED ON THE FOLLOWING TEST EARTHQUAKE EVENT:

MAGNITUDE: 8.2 M

DEPTH: 10 km

DATE: 12 Oct 2011

ORIGIN TIME: 01 00 UTC

LATITUDE: 3.3 N

LONGITUDE: 95.96 E

LOCATION: NORTHERN SUMATRA, INDONESIA

TO VIEW THE BULLETIN GO TO THE RTSP INDIA WEBSITE AT:

http://www.incois.gov.in/Incois/tsunami/COMM_login.jsp

NOTE: THIS IS A RESTRICTED-ACCESS WEBSITE CONTAINING TECHNICAL DATA FOR NATIONAL TSUNAMI WARNING CENTRES ONLY. IT IS NOT FOR GENERAL PUBLIC ACCESS.

GENERAL PUBLIC INFORMATION FOR THIS EVENT IS AVAILABLE FROM:

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 TEST NOTIFICATION MESSAGE

TEST TEST TEST TEST TEST TEST TEST TEST TEST

RTSP Indonesia

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TEST

-

TEST TSUNAMI BULLETIN NOTIFICATION MESSAGE NUMBER 1
REGIONAL TSUNAMI SERVICE PROVIDER - RTSP INDONESIA [InaTEWS-BMKG]

ISSUED AT 0105UTC 12 OCTOBER 2011

-

TO: INDIAN OCEAN NATIONAL TSUNAMI WARNING CENTRES [NTWCs]
FROM: RTSP INDONESIA

*** THIS IS INDIAN OCEAN TSUNAMI DRILL IOWAVE11***
*** THIS IS NOT A REAL TSUNAMI EVENT ***

NOTIFICATION:
RTSP INDONESIA HAS JUST ISSUED A TEST TSUNAMI BULLETIN FOR THE
INDIAN OCEAN, BASED ON THE FOLLOWING TEST EARTHQUAKE EVENT:

MAGNITUDE : 8.8
DEPTH : 10km
ORIGIN TIME: 0100 UTC 12 OCTOBER 2011
LATITUDE : 3.30N
LONGITUDE : 95.96E
LOCATION : NORTHERN SUMATRA, INDONESIA

TO VIEW THE BULLETIN GO TO THE RTSP INDONESIA WEBSITE AT:
<http://rtsp.bmkg.go.id>

NOTE: THIS IS A RESTRICTED-ACCESS WEBSITE CONTAINING TECHNICAL DATA
FOR NATIONAL TSUNAMI WARNING CENTRES ONLY. IT IS NOT FOR GENERAL
PUBLIC ACCESS.

GENERAL ENERAL PUBLIC INFORMATION FOR THIS EVENT IS AVAILABLE FROM:
Indonesia Tsunami Early Warning System (InaTEWS)
METEOROLOGICAL CLIMATOLOGICAL AND GEOPHYSICAL AGENCY (BMKG)
Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720
Tel.: +62 (21) 65867045
Fax: +62 (21) 6546316
P.O. Box 3540 Jakarta
Email: inartsp@bmkg.go.id
Website : http://inatews.bmkg.go.id

END OF NOTIFICATION MESSAGE

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST

RTSP Australia

WEIO24 AMMC 120110

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST

TEST TSUNAMI BULLETIN NOTIFICATION MESSAGE NUMBER 1
REGIONAL TSUNAMI SERVICE PROVIDER - RTSP AUSTRALIA [JATWC]

ISSUED AT 01100UTC 12 OCTOBER 2011

TO: INDIAN OCEAN NATIONAL TSUNAMI WARNING CENTRES [NTWCs]

FROM: RTSP AUSTRALIA

*** IOWAVE11 EXERCISE FOR THE INDIAN OCEAN TSUNAMI WARNING SYSTEM ***
*** THIS IS NOT A REAL TSUNAMI EVENT ***

NOTIFICATION:

RTSP AUSTRALIA HAS JUST ISSUED A TEST TSUNAMI BULLETIN FOR THE INDIAN OCEAN, BASED ON THE FOLLOWING TEST EARTHQUAKE EVENT:

MAGNITUDE: 9.2
DEPTH: 10km
ORIGIN TIME: 0100 UTC 12 OCTOBER 2011
LATITUDE: 3.30N
LONGITUDE: 95.96E
LOCATION: NORTHERN SUMATRA, INDONESIA

TO VIEW THE BULLETIN GO TO THE RTSP AUSTRALIA WEBSITE AT:

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

NOTE: THIS IS A RESTRICTED-ACCESS WEBSITE CONTAINING TECHNICAL DATA FOR NATIONAL TSUNAMI WARNING CENTRES ONLY. IT IS NOT FOR GENERAL PUBLIC ACCESS.

GENERAL PUBLIC INFORMATION FOR THIS EVENT IS AVAILABLE FROM:

JOINT AUSTRALIAN TSUNAMI WARNING CENTRE [JATWC]
BUREAU OF METEOROLOGY
MELBOURNE, AUSTRALIA
<http://www.bom.gov.au/tsunami>

END OF TEST NOTIFICATION MESSAGE

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST

RIMES

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
WEIO29 VRMM 120105

TSUNAMI BULLETIN NOTIFICATION MESSAGE NUMBER 1

RIMES

ISSUED AT: 0105 UTC Wednesday, October 12, 2011

TO: ALL INDIAN OCEAN NATIONAL TSUNAMI WARNING CENTRES (NTWCs)
FROM: RIMES

RIMES HAS JUST ISSUED TSUNAMI BULLETIN NUMBER 1 FOR THE INDIAN OCEAN, BASED ON THE FOLLOWING EARTHQUAKE EVENT:

MAGNITUDE: 9.2 Mw(MWP)
DEPTH: 10 Km
DATE: 12 OCT 2011
ORIGIN TIME 0100 UTC
LATITUDE: 3.3N
LONGITUDE: 95.96E
LOCATION: Northern Sumatra Indonesia

TO VIEW THE BULLETIN GO TO RIMES WEBSITE AT:

<http://www.rimes.int/earthquake/tsunami-bulletin>

NOTE: THIS IS A RESTRICTED-ACCESS WEBSITE CONTAINING TECHNICAL DATA FOR NATIONAL TSUNAMI WARNING CENTRES ONLY.
IT IS NOT FOR GENERAL PUBLIC ACCESS.

GENERAL PUBLIC INFORMATION FOR THIS EVENT IS AVAILABLE FROM:
REGIONAL INTEGRATED MULTHAZARD EARLY WARNING SYSTEM (RIMES)
OUTREACH BUILDING, AIT CAMPUS, PATHUMTHANI, THAILAND
PHONE: 662-516-5905 TO 07
FAX: 662-516-5908 TO 09
EMAIL: TSUNAMI@RIMES.INT
WEB: WWW.RIMES.INT

END OF NOTIFICATION MESSAGE

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST

PTWC

TEST...TSUNAMI EXERCISE MESSAGE NUMBER 001...TEST NWS PACIFIC
TSUNAMI WARNING CENTER EWA BEACH HI
0115 UTC 12 OCT 2011

...EXERCISE INDIAN OCEAN WAVE 11...

TO - PARTICIPANTS OF THE INDIAN OCEAN WAVE 11 TSUNAMI EXERCISE.
ALL OTHERS PLEASE IGNORE.

SUBJECT - EXERCISE INDIAN OCEAN WAVE 11
REFER TO PTWC BULLETIN 1 IN EXERCISE MANUAL

THIS MESSAGE IS ONE OF A SERIES OF MESSAGES THAT ARE BEING ISSUED AS
PART OF THE INDIAN OCEAN WAVE 11 TSUNAMI EXERCISE. THE EXERCISE IS
TO TEST COMMUNICATIONS AND ACTIONS THAT WOULD BE NEEDED IN THE EVENT
OF AN ACTUAL TSUNAMI.

PARTICIPANTS IN THE EXERCISE SHOULD REFER TO THE INDIAN OCEAN WAVE
11 EXERCISE MANUAL FOR THE CORRESPONDING PTWC BULLETIN 1.

THIS IS ONLY AN EXERCISE.

JMA

TSUNAMI EXERCISE MESSAGE NUMBER 001
ISSUED BY JMA
ISSUED AT 0120Z 12 OCT 2011

TO: PARTICIPANTS OF INDIAN OCEAN WAVE 11 TSUNAMI EXERCISE.
ALL OTHERS PLEASE IGNORE.

SUBJECT: EXERCISE INDIAN OCEAN WAVE 11
REFER TO JMA BULLETIN 1 IN EXERCISE MANUAL

THIS MESSAGE IS ONE OF A SERIES OF MESSAGES THAT ARE BEING ISSUED
AS PART OF THE INDIAN OCEAN WAVE 11 TSUNAMI EXERCISE. THE EXERCISE
IS TO TEST COMMUNICATIONS AND ACTIONS THAT WOULD BE NEEDED IN THE
EVENT OF AN ACTUAL TSUNAMI.

PARTICIPANTS IN THE EXERCISE SHOULD REFER TO THE INDIAN OCEAN WAVE
11 EXERCISE MANUAL FOR THE CORRESPONDING JMA BULLETIN 1.

THIS IS ONLY AN EXERCISE. =

APPENDIX II. EXERCISE BULLETINS - PTWC

TEST...TSUNAMI BULLETIN NUMBER 001 ...TEST
PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
ISSUED AT 0115Z 12 OCT 2011

THIS BULLETIN IS FOR ALL AREAS OF THE INDIAN OCEAN.

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

INDONESIA / INDIA / AUSTRALIA / THAILAND / MYANMAR / SRI LANKA /
MALDIVES / UNITED KINGDOM / MALAYSIA / MAURITIUS / REUNION /
SEYCHELLES / OMAN / PAKISTAN / SOMALIA / MADAGASCAR / IRAN /
UAE / YEMEN / COMORES / MOZAMBIQUE / KENYA / TANZANIA /
BANGLADESH / CROZET ISLANDS / KERGUELEN ISLANDS / SOUTH AFRICA /
SINGAPORE

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE
DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
COORDINATES - 3.3 NORTH 95.9 EAST
LOCATION - NORTHERN SUMATRA INDONESIA
MAGNITUDE - 8.2

EVALUATION

EARTHQUAKES OF THIS SIZE HAVE THE POTENTIAL TO GENERATE A
WIDESPREAD DESTRUCTIVE TSUNAMI THAT CAN AFFECT COASTLINES ACROSS
THE ENTIRE INDIAN OCEAN BASIN.

HOWEVER - IT IS NOT KNOWN THAT A TSUNAMI WAS GENERATED. THIS
WATCH IS BASED ONLY ON THE EARTHQUAKE EVALUATION. AUTHORITIES IN
THE REGION SHOULD TAKE APPROPRIATE ACTION IN RESPONSE TO THE
POSSIBILITY OF A WIDESPREAD DESTRUCTIVE TSUNAMI.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS
WITHIN THE WARNING AND WATCH AREAS ARE GIVEN BELOW. ACTUAL
ARRIVAL TIMES MAY DIFFER 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.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME	
INDONESIA	SIMEULUE	2.5N 96.0E	0138Z 12 OCT	
	BANDA_ACEH	5.5N 95.1E	0152Z 12 OCT	
	SIBERUT	1.5S 98.7E	0215Z 12 OCT	
	PADANG	0.9S 100.1E	0256Z 12 OCT	
	BENGKULU	3.9S 102.0E	0308Z 12 OCT	
	CILACAP	7.8S 108.9E	0422Z 12 OCT	
	BANDAR_LAMPUNG	5.7S 105.3E	0431Z 12 OCT	
	BALI	8.7S 115.3E	0506Z 12 OCT	
	BELAWAN	3.8N 98.8E	0546Z 12 OCT	
	KUPANG	10.0S 123.4E	0605Z 12 OCT	
	BALI	8.7S 115.3E	0506Z 12 OCT	
	INDIA	GREAT_NICOBAR	7.1N 93.6E	0217Z 12 OCT
		LITTLE_ANDAMAN	10.7N 92.3E	0305Z 12 OCT
		PORT_BLAIR	11.9N 92.7E	0315Z 12 OCT
NORTH_ANDAMAN		13.3N 92.6E	0335Z 12 OCT	
CHENNAI		13.4N 80.4E	0430Z 12 OCT	
KAKINADA		17.2N 82.7E	0456Z 12 OCT	
TRIVANDRUM	8.3N 76.9E	0504Z 12 OCT		

	MANGALORE	13. 3N	74. 4E	0639Z	12	OCT
	BOMBAY	18. 8N	72. 6E	0906Z	12	OCT
	GULF_OF_KUTCH	22. 7N	68. 9E	0937Z	12	OCT
AUSTRALIA	COCOS_ISLAND	12. 1S	96. 7E	0330Z	12	OCT
	NORTH_WEST_CAPE	21. 5S	113. 9E	0543Z	12	OCT
	CAPE_TNSPIRATIO	25. 9S	113. 0E	0645Z	12	OCT
	PERTH	32. 0S	115. 3E	0657Z	12	OCT
	AUGUSTA	34. 3S	114. 7E	0716Z	12	OCT
	GERALDTOWN	28. 6S	114. 3E	0732Z	12	OCT
	CAPE_LEVEQUE	16. 1S	122. 6E	0732Z	12	OCT
	ESPERANCE	34. 0S	121. 8E	0849Z	12	OCT
	KINGSTON_SOUTH_	37. 0S	139. 4E	1023Z	12	OCT
	HEARD_ISLAND	54. 0S	73. 5E	1052Z	12	OCT
	EUCLA_MOTEL	31. 8S	128. 9E	1100Z	12	OCT
	HOBART	43. 3S	147. 6E	1133Z	12	OCT
	DARWIN	12. 1S	130. 7E	1153Z	12	OCT
THAILAND	PHUKET	8. 0N	98. 2E	0332Z	12	OCT
	KO_PHRA_THONG	9. 1N	98. 2E	0422Z	12	OCT
	KO_TARUTAO	6. 6N	99. 6E	0452Z	12	OCT
MYANMAR	CHEDUBA_ISLAND	18. 9N	93. 4E	0432Z	12	OCT
	CHEDUBA_ISLAND	18. 9N	93. 4E	0432Z	12	OCT
	PYINKAYAI NG	15. 9N	94. 3E	0442Z	12	OCT
	SITTWE	20. 0N	92. 9E	0510Z	12	OCT
	MERGUI	12. 8N	98. 4E	0549Z	12	OCT
	YANGON	16. 5N	96. 4E	0943Z	12	OCT
SRI LANKA	TRINCOMALEE	8. 7N	81. 3E	0347Z	12	OCT
	DONDRA_HEAD	5. 9N	80. 6E	0354Z	12	OCT
	COLOMBO	6. 9N	79. 8E	0421Z	12	OCT
	JAFFNA	9. 9N	80. 0E	0532Z	12	OCT
MALDIVES	GAN	0. 6S	73. 2E	0446Z	12	OCT
	MALE	4. 2N	73. 6E	0451Z	12	OCT
	MINICOV	8. 3N	73. 0E	0514Z	12	OCT
UNITED KINGDOM	DI EGO_GARCIA	7. 3S	72. 4E	0504Z	12	OCT
MALAYSIA	GEORGETOWN	5. 4N	100. 1E	0522Z	12	OCT
	PORT_DICKSON	2. 5N	101. 7E	1002Z	12	OCT
MAURITIUS	PORT LOUIS	20. 0S	57. 3E	0800Z	12	OCT
REUNION	ST DENIS	20. 8S	55. 2E	0814Z	12	OCT
SEYCHELLES	VICTORIA	4. 5S	55. 6E	0828Z	12	OCT
OMAN	SALALAH	16. 9N	54. 1E	0838Z	12	OCT
	MUSCAT	23. 9N	58. 6E	0844Z	12	OCT
	DUQM	19. 7N	57. 8E	0853Z	12	OCT
PAKISTAN	GWADAR	25. 1N	62. 4E	0846Z	12	OCT
	KARACHI	24. 7N	66. 9E	0938Z	12	OCT
SOMALIA	CAPE_GUARO	11. 9N	51. 4E	0848Z	12	OCT
	HILALAYA	6. 4N	49. 1E	0849Z	12	OCT
	MOGADISHU	2. 0N	45. 5E	0904Z	12	OCT
	KAAMBOONI	1. 5S	41. 9E	0932Z	12	OCT
MADAGASCAR	ANTSIRANANA	12. 1S	49. 5E	0850Z	12	OCT
	TOAMASINA	17. 8S	49. 6E	0902Z	12	OCT
	MANAKARA	22. 2S	48. 2E	0917Z	12	OCT
	MAHAJANGA	15. 4S	46. 2E	0954Z	12	OCT
	CAP_STE_MARIE	25. 8S	45. 2E	1016Z	12	OCT
	TOLIARA	23. 4S	43. 6E	1041Z	12	OCT
IRAN	GAVATER	25. 0N	61. 3E	0852Z	12	OCT
UAE	FUJAI RAH	25. 1N	56. 4E	0930Z	12	OCT
YEMEN	AL_MUKALLA	14. 5N	49. 2E	0937Z	12	OCT
	ADEN	13. 0N	45. 2E	1023Z	12	OCT
COMORES	MORONI	11. 6S	43. 3E	0951Z	12	OCT
MOZAMBIQUE	CABO_DELGADO	10. 7S	40. 7E	1008Z	12	OCT
	ANGOCHE	15. 5S	40. 6E	1040Z	12	OCT
	QUELI MANE	18. 0S	37. 1E	1207Z	12	OCT
	MAPUTO	25. 9S	32. 8E	1255Z	12	OCT
	BEIRA	19. 9S	35. 1E	1317Z	12	OCT
KENYA	MOMBASA	4. 0S	39. 7E	1009Z	12	OCT
TANZANIA	LINDI	9. 8S	39. 9E	1009Z	12	OCT
	DAR_ES_SALAAM	6. 7S	39. 4E	1012Z	12	OCT
BANGLADESH	CHITTAGONG	22. 7N	91. 2E	1025Z	12	OCT
CROZET ISLANDS	CROZET ISLANDS	46. 4S	51. 8E	1030Z	12	OCT
KERGUELEN ISLAND	PORT_AUX_FRANCA	49. 0S	69. 1E	1111Z	12	OCT

SOUTH AFRI CA	PRINCE_EDWARD_I	46.6S	37.6E	1205Z	12	OCT
	DURBAN	29.8S	31.2E	1209Z	12	OCT
	PORT_ELIZABETH	33.9S	25.8E	1311Z	12	OCT
	CAPE_TOWN	34.1S	18.0E	1410Z	12	OCT
SINGAPORE	SINGAPORE	1.2N	103.8E	1550Z	12	OCT

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

THE JAPAN METEOROLOGICAL AGENCY MAY ISSUE ADDITIONAL INFORMATION FOR THIS EVENT. IN THE CASE OF CONFLICTING INFORMATION... THE MORE CONSERVATIVE INFORMATION SHOULD BE USED FOR SAFETY.

TEST...TSUNAMI BULLETIN NUMBER 002 ...TEST
PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
ISSUED AT 0145Z 12 OCT 2011

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... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

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UAE / YEMEN / COMORES / MOZAMBIQUE / KENYA / TANZANIA /
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AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
COORDINATES - 3.3 NORTH 95.9 EAST
LOCATION - NORTHERN SUMATRA INDONESIA
MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GUAGE LOCATION	LAT	LO N	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0125Z	4.0M / 13.1FT	17MIN

LAT - LATITUDE (N-NORTH, S-SOUTH)
LO N - LONGITUDE (E-EAST, W-WEST)
TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)
AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.
IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).
PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY
ALREADY HAVE BEEN DESTRUCTIVE ALONG SOME COASTS.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF
THE INDIAN OCEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE
OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME
OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN
LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO
BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE
TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE
VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST
BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS
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	BANDAR_LAMPUNG	5. 7S	105. 3E	0431Z	12	OCT
	BALI	8. 7S	115. 3E	0506Z	12	OCT
	BELAWAN	3. 8N	98. 8E	0546Z	12	OCT
	KUPANG	10. 0S	123. 4E	0605Z	12	OCT
	BALI	8. 7S	115. 3E	0506Z	12	OCT
INDIA	GREAT_NI COBAR	7. 1N	93. 6E	0217Z	12	OCT
	LITTLE_ANDAMAN	10. 7N	92. 3E	0305Z	12	OCT
	PORT_BLAIR	11. 9N	92. 7E	0315Z	12	OCT
	NORTH_ANDAMAN	13. 3N	92. 6E	0335Z	12	OCT
	CHENNAI	13. 4N	80. 4E	0430Z	12	OCT
	KAKI NADA	17. 2N	82. 7E	0456Z	12	OCT
	TRI VANDRUM	8. 3N	76. 9E	0504Z	12	OCT
	MANGALORE	13. 3N	74. 4E	0639Z	12	OCT
	BOMBAY	18. 8N	72. 6E	0906Z	12	OCT
AUSTRALIA	GULF_OF_KUTCH	22. 7N	68. 9E	0937Z	12	OCT
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	CAPE_LEVEQUE	16. 1S	122. 6E	0732Z	12	OCT
	ESPERANCE	34. 0S	121. 8E	0849Z	12	OCT
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	PYINKAYANG	15. 9N	94. 3E	0442Z	12	OCT
	SITTWE	20. 0N	92. 9E	0510Z	12	OCT
	MERGUI	12. 8N	98. 4E	0549Z	12	OCT
	YANGON	16. 5N	96. 4E	0943Z	12	OCT
SRI LANKA	TRINCOMALEE	8. 7N	81. 3E	0347Z	12	OCT
	DONDRA_HEAD	5. 9N	80. 6E	0354Z	12	OCT
	COLOMBO	6. 9N	79. 8E	0421Z	12	OCT
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MALDIVES	GAN	0. 6S	73. 2E	0446Z	12	OCT
	MALE	4. 2N	73. 6E	0451Z	12	OCT
	MINICOV	8. 3N	73. 0E	0514Z	12	OCT
UNITED KINGDOM	DI EGO_GARCIA	7. 3S	72. 4E	0504Z	12	OCT
MALAYSIA	GEORGETOWN	5. 4N	100. 1E	0522Z	12	OCT
	PORT_DICKSON	2. 5N	101. 7E	1002Z	12	OCT
MAURITIUS	PORT_LOUIS	20. 0S	57. 3E	0800Z	12	OCT
REUNION	ST_DENIS	20. 8S	55. 2E	0814Z	12	OCT
SEYCHELLES	VICTORIA	4. 5S	55. 6E	0828Z	12	OCT
OMAN	SALALAH	16. 9N	54. 1E	0838Z	12	OCT
	MUSCAT	23. 9N	58. 6E	0844Z	12	OCT
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	TOAMASINA	17. 8S	49. 6E	0902Z	12	OCT
	MANAKARA	22. 2S	48. 2E	0917Z	12	OCT
	MAHAJANGA	15. 4S	46. 2E	0954Z	12	OCT
	CAPSTE_MARIE	25. 8S	45. 2E	1016Z	12	OCT
	TOLARA	23. 4S	43. 6E	1041Z	12	OCT
IRAN	GAVATER	25. 0N	61. 3E	0852Z	12	OCT

UAE	FUJAI RAH	25. 1N	56. 4E	0930Z	12	OCT
YEMEN	AL_MUKALLA	14. 5N	49. 2E	0937Z	12	OCT
	ADEN	13. 0N	45. 2E	1023Z	12	OCT
COMORES	MORONI	11. 6S	43. 3E	0951Z	12	OCT
MOZAMBI QUE	CABO_DELGADO	10. 7S	40. 7E	1008Z	12	OCT
	ANGOÇHE	15. 5S	40. 6E	1040Z	12	OCT
	QUELI MANE	18. 0S	37. 1E	1207Z	12	OCT
	MAPUTO	25. 9S	32. 8E	1255Z	12	OCT
	BEI RA	19. 9S	35. 1E	1317Z	12	OCT
KENYA	MOMBASA	4. 0S	39. 7E	1009Z	12	OCT
TANZANI A	LI NDI	9. 8S	39. 9E	1009Z	12	OCT
	DAR_ES_SALAAM	6. 7S	39. 4E	1012Z	12	OCT
BANGLADESH	CHI TTAGONG	22. 7N	91. 2E	1025Z	12	OCT
CROZET ISLANDS	CROZET_I SLANDS	46. 4S	51. 8E	1030Z	12	OCT
KERGUELEN I SLAN	PORT_AUX_FRANCA	49. 0S	69. 1E	1111Z	12	OCT
SOUTH AFRI CA	PRINCE_EDWARD_I	46. 6S	37. 6E	1205Z	12	OCT
	DURBAN	29. 8S	31. 2E	1209Z	12	OCT
	PORT_ELIZABETH	33. 9S	25. 8E	1311Z	12	OCT
	CAPE_TOWN	34. 1S	18. 0E	1410Z	12	OCT
SI NGAPORE	SI NGAPORE	1. 2N	103. 8E	1550Z	12	OCT

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TEST...TSUNAMI BULLETIN NUMBER 003 ...TEST
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ORIGIN TIME - 0100Z 12 OCT 2011
COORDINATES - 3.3 NORTH 95.9 EAST
LOCATION - NORTHERN SUMATRA INDONESIA
MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GAUGE LOCATION	LAT	LO N	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0140Z	5.3M / 17.4FT	17MIN
TELUKDALAM, ID	0.6N	097.8E	0207Z	7.5M / 24.6FT	19MIN

LAT - LATITUDE (N-NORTH, S-SOUTH)
LO N - LONGITUDE (E-EAST, W-WEST)
TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)
AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.
IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
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SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATI ON	FORECAST POINT	COORDINATES	ARRI VAL TIME
INDONESIA	SIMEULUE	2.5N 96.0E	0138Z 12 OCT
	BANDA_ACEH	5.5N 95.1E	0152Z 12 OCT

	SI BERUT	1. 5S	98. 7E	0215Z	12	OCT
	PADANG	0. 9S	100. 1E	0256Z	12	OCT
	BENGKULU	3. 9S	102. 0E	0308Z	12	OCT
	CI LACAP	7. 8S	108. 9E	0422Z	12	OCT
	BANDAR_LAMPUNG	5. 7S	105. 3E	0431Z	12	OCT
	BALI	8. 7S	115. 3E	0506Z	12	OCT
	BELAWAN	3. 8N	98. 8E	0546Z	12	OCT
	KUPANG	10. 0S	123. 4E	0605Z	12	OCT
	BALI	8. 7S	115. 3E	0506Z	12	OCT
I NDI A	GREAT_NI COBAR	7. 1N	93. 6E	0217Z	12	OCT
	LI TTLE_ANDAMAN	10. 7N	92. 3E	0305Z	12	OCT
	PORT_BLAIR	11. 9N	92. 7E	0315Z	12	OCT
	NORTH_ANDAMAN	13. 3N	92. 6E	0335Z	12	OCT
	CHENNAI	13. 4N	80. 4E	0430Z	12	OCT
	KAKI NADA	17. 2N	82. 7E	0456Z	12	OCT
	TRI VANDRUM	8. 3N	76. 9E	0504Z	12	OCT
	MANGALORE	13. 3N	74. 4E	0639Z	12	OCT
	BOMBAY	18. 8N	72. 6E	0906Z	12	OCT
AUSTRALI A	GULF_OF_KUTCH	22. 7N	68. 9E	0937Z	12	OCT
	COCOS_I SLAND	12. 1S	96. 7E	0330Z	12	OCT
	NORTH_WEST_CAPE	21. 5S	113. 9E	0543Z	12	OCT
	CAPE_INSPIRATIO	25. 9S	113. 0E	0645Z	12	OCT
	PERTH	32. 0S	115. 3E	0657Z	12	OCT
	AUGUSTA	34. 3S	114. 7E	0716Z	12	OCT
	GERALDTOWN	28. 6S	114. 3E	0732Z	12	OCT
	CAPE_LEVEQUE	16. 1S	122. 6E	0732Z	12	OCT
	ESPERANCE	34. 0S	121. 8E	0849Z	12	OCT
	KI NGSTON_SOUTH_	37. 0S	139. 4E	1023Z	12	OCT
	HEARD_I SLAND	54. 0S	73. 5E	1052Z	12	OCT
	EUCLA_MOTEL	31. 8S	128. 9E	1100Z	12	OCT
	HOBART	43. 3S	147. 6E	1133Z	12	OCT
	DARWI N	12. 1S	130. 7E	1153Z	12	OCT
THAI LAND	PHUKET	8. 0N	98. 2E	0332Z	12	OCT
	KO_PHRA_THONG	9. 1N	98. 2E	0422Z	12	OCT
	KO_TARUTAO	6. 6N	99. 6E	0452Z	12	OCT
MYANMAR	CHEDUBA_I SLAND	18. 9N	93. 4E	0432Z	12	OCT
	CHEDUBA_I SLAND	18. 9N	93. 4E	0432Z	12	OCT
	PYI NKAYAI NG	15. 9N	94. 3E	0442Z	12	OCT
	SI TTWE	20. 0N	92. 9E	0510Z	12	OCT
	MERGUI	12. 8N	98. 4E	0549Z	12	OCT
	YANGON	16. 5N	96. 4E	0943Z	12	OCT
SRI LANKA	TRINCOMALEE	8. 7N	81. 3E	0347Z	12	OCT
	DONDRA_HEAD	5. 9N	80. 6E	0354Z	12	OCT
	COLOMBO	6. 9N	79. 8E	0421Z	12	OCT
	JAFFNA	9. 9N	80. 0E	0532Z	12	OCT
MALDI VES	GAN	0. 6S	73. 2E	0446Z	12	OCT
	MALE	4. 2N	73. 6E	0451Z	12	OCT
	MI NI COV	8. 3N	73. 0E	0514Z	12	OCT
UNI TED KI NGDOM	DI EGO_GARCIA	7. 3S	72. 4E	0504Z	12	OCT
MALAYSI A	GEORGETOWN	5. 4N	100. 1E	0522Z	12	OCT
	PORT_DI CKSON	2. 5N	101. 7E	1002Z	12	OCT
MAURI TI US	PORT_LOUIS	20. 0S	57. 3E	0800Z	12	OCT
REUNI ON	ST_DENI S	20. 8S	55. 2E	0814Z	12	OCT
SEYCHELLES	VI CTORIA	4. 5S	55. 6E	0828Z	12	OCT
OMAN	SALALAH	16. 9N	54. 1E	0838Z	12	OCT
	MUSCAT	23. 9N	58. 6E	0844Z	12	OCT
	DUQM	19. 7N	57. 8E	0853Z	12	OCT
PAKI STAN	GWADAR	25. 1N	62. 4E	0846Z	12	OCT
	KARACHI	24. 7N	66. 9E	0938Z	12	OCT
SOMALI A	CAPE_GUARO	11. 9N	51. 4E	0848Z	12	OCT
	HI LALAYA	6. 4N	49. 1E	0849Z	12	OCT
	MOGADI SHU	2. 0N	45. 5E	0904Z	12	OCT
	KAAMBOONI	1. 5S	41. 9E	0932Z	12	OCT
MADAGASCAR	ANTSI RANANA	12. 1S	49. 5E	0850Z	12	OCT
	TOAMASI NA	17. 8S	49. 6E	0902Z	12	OCT
	MANAKARA	22. 2S	48. 2E	0917Z	12	OCT
	MAHAJANGA	15. 4S	46. 2E	0954Z	12	OCT
	CAP_STE_MARIE	25. 8S	45. 2E	1016Z	12	OCT
	TOLI ARA	23. 4S	43. 6E	1041Z	12	OCT

IRAN	GAVATER	25. 0N	61. 3E	0852Z	12	OCT
UAE	FUJAI RAH	25. 1N	56. 4E	0930Z	12	OCT
YEMEN	AL_MUKALLA	14. 5N	49. 2E	0937Z	12	OCT
	ADEN	13. 0N	45. 2E	1023Z	12	OCT
COMORES	MORONI	11. 6S	43. 3E	0951Z	12	OCT
MOZAMBI QUE	CABO_DELGADO	10. 7S	40. 7E	1008Z	12	OCT
	ANGOCHE	15. 5S	40. 6E	1040Z	12	OCT
	QUELI MANE	18. 0S	37. 1E	1207Z	12	OCT
	MAPUTO	25. 9S	32. 8E	1255Z	12	OCT
	BEI RA	19. 9S	35. 1E	1317Z	12	OCT
KENYA	MOMBASA	4. 0S	39. 7E	1009Z	12	OCT
TANZANI A	LI NDI	9. 8S	39. 9E	1009Z	12	OCT
	DAR_ES_SALAAM	6. 7S	39. 4E	1012Z	12	OCT
BANGLADESH	CHI TTAGONG	22. 7N	91. 2E	1025Z	12	OCT
CROZET ISLANDS	CROZET_I SLANDS	46. 4S	51. 8E	1030Z	12	OCT
KERGUELEN ISLAN	PORT_AUX_FRANCA	49. 0S	69. 1E	1111Z	12	OCT
SOUTH AFRI CA	PRI NCE_EDWARD_I	46. 6S	37. 6E	1205Z	12	OCT
	DURBAN	29. 8S	31. 2E	1209Z	12	OCT
	PORT_ELIZABETH	33. 9S	25. 8E	1311Z	12	OCT
	CAPE_TOWN	34. 1S	18. 0E	1410Z	12	OCT
SINGAPORE	SINGAPORE	1. 2N	103. 8E	1550Z	12	OCT

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

THE JAPAN METEOROLOGICAL AGENCY MAY ISSUE ADDITIONAL INFORMATION FOR THIS EVENT. IN THE CASE OF CONFLICTING INFORMATION... THE MORE CONSERVATIVE INFORMATION SHOULD BE USED FOR SAFETY.

TEST...TSUNAMI BULLETIN NUMBER 004 ...TEST
PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
ISSUED AT 0345Z 12 OCT 2011

THIS BULLETIN IS FOR ALL AREAS OF THE INDIAN OCEAN.

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

INDONESIA / INDIA / AUSTRALIA / THAILAND / MYANMAR / SRI LANKA /
MALDIVES / UNITED KINGDOM / MALAYSIA / MAURITIUS / REUNION /
SEYCHELLES / OMAN / PAKISTAN / SOMALIA / MADAGASCAR / IRAN /
UAE / YEMEN / COMORES / MOZAMBIQUE / KENYA / TANZANIA /
BANGLADESH / CROZET ISLANDS / KERGUELEN ISLANDS / SOUTH AFRICA /
SINGAPORE

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY
NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE
DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND
ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
COORDINATES - 3.3 NORTH 95.9 EAST
LOCATION - NORTHERN SUMATRA INDONESIA
MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GUAGE LOCATION	LAT	LO N	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0140Z	5.3M / 17.4FT	17MIN
TELUKDALAM, ID	0.6N	097.8E	0207Z	7.5M / 24.6FT	19MIN
PADANG, ID	1.0S	100.4E	0316Z	1.5M / 4.9FT	17MIN

LAT - LATITUDE (N-NORTH, S-SOUTH)

LO N - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).

PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY
ALREADY HAVE BEEN DESTRUCTIVE ALONG SOME COASTS.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF
THE INDIAN OCEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE
OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME
OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN
LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO
BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE
TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE
VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST
BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS
WITHIN THE WARNING AND WATCH AREAS ARE GIVEN BELOW. ACTUAL
ARRIVAL TIMES MAY DIFFER 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.

LOCATI ON	FORECAST POINT	COORDI NATES	ARRI VAL TIME
INDONESIA	SIMEULUE	2.5N 96.0E	0138Z 12 OCT

	BANDA_ACEH	5. 5N	95. 1E	0152Z	12	OCT
	SI BERUT	1. 5S	98. 7E	0215Z	12	OCT
	PADANG	0. 9S	100. 1E	0256Z	12	OCT
	BENGKULU	3. 9S	102. 0E	0308Z	12	OCT
	CI LACAP	7. 8S	108. 9E	0422Z	12	OCT
	BANDAR_LAMPUNG	5. 7S	105. 3E	0431Z	12	OCT
	BALI	8. 7S	115. 3E	0506Z	12	OCT
	BELAWAN	3. 8N	98. 8E	0546Z	12	OCT
	KUPANG	10. 0S	123. 4E	0605Z	12	OCT
	BALI	8. 7S	115. 3E	0506Z	12	OCT
I NDI A	GREAT_NI COBAR	7. 1N	93. 6E	0217Z	12	OCT
	LI TTLE_ANDAMAN	10. 7N	92. 3E	0305Z	12	OCT
	PORT_BLAIR	11. 9N	92. 7E	0315Z	12	OCT
	NORTH_ANDAMAN	13. 3N	92. 6E	0335Z	12	OCT
	CHENNAI	13. 4N	80. 4E	0430Z	12	OCT
	KAKI NADA	17. 2N	82. 7E	0456Z	12	OCT
	TRI VANDRUM	8. 3N	76. 9E	0504Z	12	OCT
	MANGALORE	13. 3N	74. 4E	0639Z	12	OCT
	BOMBAY	18. 8N	72. 6E	0906Z	12	OCT
AUSTRALI A	GULF_OF_KUTCH	22. 7N	68. 9E	0937Z	12	OCT
	COCOS_I SLAND	12. 1S	96. 7E	0330Z	12	OCT
	NORTH_WEST_CAPE	21. 5S	113. 9E	0543Z	12	OCT
	CAPE_I NSPI RATI O	25. 9S	113. 0E	0645Z	12	OCT
	PERTH	32. 0S	115. 3E	0657Z	12	OCT
	AUGUSTA	34. 3S	114. 7E	0716Z	12	OCT
	GERALDTOWN	28. 6S	114. 3E	0732Z	12	OCT
	CAPE_LEVEQUE	16. 1S	122. 6E	0732Z	12	OCT
	ESPERANCE	34. 0S	121. 8E	0849Z	12	OCT
	KI NGSTON_SOUTH_	37. 0S	139. 4E	1023Z	12	OCT
	HEARD_I SLAND	54. 0S	73. 5E	1052Z	12	OCT
	EUCLA_MOTEL	31. 8S	128. 9E	1100Z	12	OCT
	HOBART	43. 3S	147. 6E	1133Z	12	OCT
	DARWI N	12. 1S	130. 7E	1153Z	12	OCT
THAI LAND	PHUKET	8. 0N	98. 2E	0332Z	12	OCT
	KO_PHRA_THONG	9. 1N	98. 2E	0422Z	12	OCT
	KO_TARUTAO	6. 6N	99. 6E	0452Z	12	OCT
MYANMAR	CHEDUBA_I SLAND	18. 9N	93. 4E	0432Z	12	OCT
	CHEDUBA_I SLAND	18. 9N	93. 4E	0432Z	12	OCT
	PYI NKAYAI NG	15. 9N	94. 3E	0442Z	12	OCT
	SI TTWE	20. 0N	92. 9E	0510Z	12	OCT
	MERGUI	12. 8N	98. 4E	0549Z	12	OCT
	YANGON	16. 5N	96. 4E	0943Z	12	OCT
SRI LANKA	TRINCOMALEE	8. 7N	81. 3E	0347Z	12	OCT
	DONDRA_HEAD	5. 9N	80. 6E	0354Z	12	OCT
	COLOMBO	6. 9N	79. 8E	0421Z	12	OCT
	JAFFNA	9. 9N	80. 0E	0532Z	12	OCT
MALDI VES	GAN	0. 6S	73. 2E	0446Z	12	OCT
	MALE	4. 2N	73. 6E	0451Z	12	OCT
	MI NI COV	8. 3N	73. 0E	0514Z	12	OCT
UNITED KINGDOM	DI EGO_GARCIA	7. 3S	72. 4E	0504Z	12	OCT
MALAYSI A	GEORGETOWN	5. 4N	100. 1E	0522Z	12	OCT
	PORT_DI CKSON	2. 5N	101. 7E	1002Z	12	OCT
MAURI TI US	PORT_LOUIS	20. 0S	57. 3E	0800Z	12	OCT
REUNI ON	ST_DENI S	20. 8S	55. 2E	0814Z	12	OCT
SEYCHELLES	VI CTORI A	4. 5S	55. 6E	0828Z	12	OCT
OMAN	SALALAH	16. 9N	54. 1E	0838Z	12	OCT
	MUSCAT	23. 9N	58. 6E	0844Z	12	OCT
	DUQM	19. 7N	57. 8E	0853Z	12	OCT
PAKI STAN	GWADAR	25. 1N	62. 4E	0846Z	12	OCT
	KARACHI	24. 7N	66. 9E	0938Z	12	OCT
SOMALI A	CAPE_GUARO	11. 9N	51. 4E	0848Z	12	OCT
	HI LALAYA	6. 4N	49. 1E	0849Z	12	OCT
	MOGADI SHU	2. 0N	45. 5E	0904Z	12	OCT
	KAAMBOONI	1. 5S	41. 9E	0932Z	12	OCT
MADAGASCAR	ANTSIRANANA	12. 1S	49. 5E	0850Z	12	OCT
	TOAMASI NA	17. 8S	49. 6E	0902Z	12	OCT
	MANAKARA	22. 2S	48. 2E	0917Z	12	OCT
	MAHAJANGA	15. 4S	46. 2E	0954Z	12	OCT
	CAP_STE_MARI E	25. 8S	45. 2E	1016Z	12	OCT

	TOLI ARA	23. 4S	43. 6E	1041Z	12	OCT
I RAN	GAVATER	25. 0N	61. 3E	0852Z	12	OCT
UAE	FUJAI RAH	25. 1N	56. 4E	0930Z	12	OCT
YEMEN	AL_MUKALLA	14. 5N	49. 2E	0937Z	12	OCT
	ADEN	13. 0N	45. 2E	1023Z	12	OCT
COMORES	MORONI	11. 6S	43. 3E	0951Z	12	OCT
MOZAMBI QUE	CABO_DELGADO	10. 7S	40. 7E	1008Z	12	OCT
	ANGO CHE	15. 5S	40. 6E	1040Z	12	OCT
	QUELI MANE	18. 0S	37. 1E	1207Z	12	OCT
	MAPUTO	25. 9S	32. 8E	1255Z	12	OCT
	BEI RA	19. 9S	35. 1E	1317Z	12	OCT
KENYA	MOMBASA	4. 0S	39. 7E	1009Z	12	OCT
TANZANI A	LI NDI	9. 8S	39. 9E	1009Z	12	OCT
	DAR_ES_SALAAM	6. 7S	39. 4E	1012Z	12	OCT
BANGLADESH	CHI TTAGONG	22. 7N	91. 2E	1025Z	12	OCT
CROZET ISLANDS	CROZET_I SLANDS	46. 4S	51. 8E	1030Z	12	OCT
KERGUELEN ISLAN	PORT_AUX_FRANCA	49. 0S	69. 1E	1111Z	12	OCT
SOUTH AFRI CA	PRINCE_EDWARD_I	46. 6S	37. 6E	1205Z	12	OCT
	DURBAN	29. 8S	31. 2E	1209Z	12	OCT
	PORT_ELIZABETH	33. 9S	25. 8E	1311Z	12	OCT
	CAPE_TOWN	34. 1S	18. 0E	1410Z	12	OCT
SI NGAPORE	SI NGAPORE	1. 2N	103. 8E	1550Z	12	OCT

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAIL ABLE.

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TEST...TSUNAMI BULLETIN NUMBER 005 ...TEST
PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
ISSUED AT 0445Z 12 OCT 2011

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... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

INDONESIA / INDIA / AUSTRALIA / THAILAND / MYANMAR / SRI LANKA /
MALDIVES / UNITED KINGDOM / MALAYSIA / MAURITIUS / REUNION /
SEYCHELLES / OMAN / PAKISTAN / SOMALIA / MADAGASCAR / IRAN /
UAE / YEMEN / COMORES / MOZAMBIQUE / KENYA / TANZANIA /
BANGLADESH / CROZET ISLANDS / KERGUELEN ISLANDS / SOUTH AFRICA /
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AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
COORDINATES - 3.3 NORTH 95.9 EAST
LOCATION - NORTHERN SUMATRA INDONESIA
MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GUAGE LOCATION	LAT	LO N	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0140Z	5.3M / 17.4FT	17MIN
TELUKDALAM, ID	0.6N	097.8E	0207Z	7.5M / 24.6FT	19MIN
PADANG, ID	1.0S	100.4E	0316Z	1.5M / 4.9FT	17MIN
COCOS IS, AU	12.1S	096.9E	0332Z	0.3M / 1.1FT	15MIN
CHRISTMAS IS, AU	10.4S	105.7E	0339Z	0.6M / 2.0FT	20MIN
SIBOLGA, ID	1.7N	98.8E	0349Z	4.0M / 13.1FT	18MIN
TRINCONMALEE, LK	8.6N	81.2E	0350Z	3.8M / 12.5FT	18MIN
COLOMBO, LK	6.9N	79.9E	0423Z	2.2M / 7.2FT	21MIN

LAT - LATITUDE (N-NORTH, S-SOUTH)

LO N - LONGITUDE (E-EAST, W-WEST)

TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)

AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.

IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.

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EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY
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ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS
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SUCCESSIVE WAVES CAN BE FIVE MINUTES TO ONE HOUR.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME	
INDONESIA	SIMEULUE	2.5N 96.0E	0138Z 12 OCT	
	BANDA_ACEH	5.5N 95.1E	0152Z 12 OCT	
	SIBERUT	1.5S 98.7E	0215Z 12 OCT	
	PADANG	0.9S 100.1E	0256Z 12 OCT	
	BENGKULU	3.9S 102.0E	0308Z 12 OCT	
	CILACAP	7.8S 108.9E	0422Z 12 OCT	
	BANDAR_LAMPUNG	5.7S 105.3E	0431Z 12 OCT	
	BALI	8.7S 115.3E	0506Z 12 OCT	
	BELAWAN	3.8N 98.8E	0546Z 12 OCT	
	KUPANG	10.0S 123.4E	0605Z 12 OCT	
INDIA	BALI	8.7S 115.3E	0506Z 12 OCT	
	GREAT_NICOBAR	7.1N 93.6E	0217Z 12 OCT	
	LITTLE_ANDAMAN	10.7N 92.3E	0305Z 12 OCT	
	PORT_BLAIR	11.9N 92.7E	0315Z 12 OCT	
	NORTH_ANDAMAN	13.3N 92.6E	0335Z 12 OCT	
	CHENNAI	13.4N 80.4E	0430Z 12 OCT	
	KAKINADA	17.2N 82.7E	0456Z 12 OCT	
	TRIVANDRUM	8.3N 76.9E	0504Z 12 OCT	
	MANGALORE	13.3N 74.4E	0639Z 12 OCT	
	BOMBAY	18.8N 72.6E	0906Z 12 OCT	
AUSTRALIA	GULF_OF_KUTCH	22.7N 68.9E	0937Z 12 OCT	
	COCOS_ISLAND	12.1S 96.7E	0330Z 12 OCT	
	NORTH_WEST_CAPE	21.5S 113.9E	0543Z 12 OCT	
	CAPE_TINSPIRATIO	25.9S 113.0E	0645Z 12 OCT	
	PERTH	32.0S 115.3E	0657Z 12 OCT	
	AUGUSTA	34.3S 114.7E	0716Z 12 OCT	
	GERALDTOWN	28.6S 114.3E	0732Z 12 OCT	
	CAPE_LEVEQUE	16.1S 122.6E	0732Z 12 OCT	
	ESPERANCE	34.0S 121.8E	0849Z 12 OCT	
	KINGSTON_SOUTH	37.0S 139.4E	1023Z 12 OCT	
THAILAND	HEARD_ISLAND	54.0S 73.5E	1052Z 12 OCT	
	EUCLA_MOTEL	31.8S 128.9E	1100Z 12 OCT	
	HOBART	43.3S 147.6E	1133Z 12 OCT	
	DARWIN	12.1S 130.7E	1153Z 12 OCT	
	PHUKET	8.0N 98.2E	0332Z 12 OCT	
	KO_PHRA_THONG	9.1N 98.2E	0422Z 12 OCT	
	KO_TARUTAO	6.6N 99.6E	0452Z 12 OCT	
	MYANMAR	CHEDUBA_ISLAND	18.9N 93.4E	0432Z 12 OCT
		CHEDUBA_ISLAND	18.9N 93.4E	0432Z 12 OCT
		PYINKAYANG	15.9N 94.3E	0442Z 12 OCT
SRI LANKA	SITTWE	20.0N 92.9E	0510Z 12 OCT	
	MERGUI	12.8N 98.4E	0549Z 12 OCT	
	YANGON	16.5N 96.4E	0943Z 12 OCT	
	TRINCOMALEE	8.7N 81.3E	0347Z 12 OCT	
MALDIVES	DONDRAHEAD	5.9N 80.6E	0354Z 12 OCT	
	COLOMBO	6.9N 79.8E	0421Z 12 OCT	
	JAFFNA	9.9N 80.0E	0532Z 12 OCT	
	GAN	0.6S 73.2E	0446Z 12 OCT	
UNITED KINGDOM	MALE	4.2N 73.6E	0451Z 12 OCT	
	MINICOV	8.3N 73.0E	0514Z 12 OCT	
MALAYSIA	DIEGO_GARCIA	7.3S 72.4E	0504Z 12 OCT	
	GEORGETOWN	5.4N 100.1E	0522Z 12 OCT	
MAURITIUS	PORT_DICKSON	2.5N 101.7E	1002Z 12 OCT	
	PORT_LOUIS	20.0S 57.3E	0800Z 12 OCT	
REUNION	ST_DENIS	20.8S 55.2E	0814Z 12 OCT	
SEYCHELLES	VICTORIA	4.5S 55.6E	0828Z 12 OCT	
	SALALAH	16.9N 54.1E	0838Z 12 OCT	
OMAN	MUSCAT	23.9N 58.6E	0844Z 12 OCT	
	DUQM	19.7N 57.8E	0853Z 12 OCT	
	GWADAR	25.1N 62.4E	0846Z 12 OCT	
PAKISTAN	KARACHI	24.7N 66.9E	0938Z 12 OCT	
	CAPE_GUARO	11.9N 51.4E	0848Z 12 OCT	
SOMALIA	HILALAYA	6.4N 49.1E	0849Z 12 OCT	
	MOGADISHU	2.0N 45.5E	0904Z 12 OCT	
	KAAMBOONI	1.5S 41.9E	0932Z 12 OCT	

MADAGASCAR	ANTSIRANANA	12.1S	49.5E	0850Z	12	OCT
	TOAMASINANA	17.8S	49.6E	0902Z	12	OCT
	MANAKARA	22.2S	48.2E	0917Z	12	OCT
	MAHAJANGA	15.4S	46.2E	0954Z	12	OCT
	CAPSTEMARIE	25.8S	45.2E	1016Z	12	OCT
	TOLIARA	23.4S	43.6E	1041Z	12	OCT
IRAN	GAVATER	25.0N	61.3E	0852Z	12	OCT
UAE	FUJAIRAH	25.1N	56.4E	0930Z	12	OCT
YEMEN	ALMUKALLA	14.5N	49.2E	0937Z	12	OCT
	ADEN	13.0N	45.2E	1023Z	12	OCT
COMORES	MORONI	11.6S	43.3E	0951Z	12	OCT
MOZAMBIQUE	CABO DELGADO	10.7S	40.7E	1008Z	12	OCT
	ANGOCHE	15.5S	40.6E	1040Z	12	OCT
	QUELI MANE	18.0S	37.1E	1207Z	12	OCT
	MAPUTO	25.9S	32.8E	1255Z	12	OCT
	BEIRA	19.9S	35.1E	1317Z	12	OCT
KENYA	MOMBASA	4.0S	39.7E	1009Z	12	OCT
TANZANIA	LINDI	9.8S	39.9E	1009Z	12	OCT
	DAR ES SALAAM	6.7S	39.4E	1012Z	12	OCT
BANGLADESH	CHITTAGONG	22.7N	91.2E	1025Z	12	OCT
CROZET ISLANDS	CROZET ISLANDS	46.4S	51.8E	1030Z	12	OCT
KERGUELEN ISLANDS	PORT AUX FRANCAIS	49.0S	69.1E	1111Z	12	OCT
SOUTH AFRICA	PRINCE EDWARD ISLANDS	46.6S	37.6E	1205Z	12	OCT
	DURBAN	29.8S	31.2E	1209Z	12	OCT
	PORT ELIZABETH	33.9S	25.8E	1311Z	12	OCT
	CAPE TOWN	34.1S	18.0E	1410Z	12	OCT
SINGAPORE	SINGAPORE	1.2N	103.8E	1550Z	12	OCT

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

THE JAPAN METEOROLOGICAL AGENCY MAY ISSUE ADDITIONAL INFORMATION FOR THIS EVENT. IN THE CASE OF CONFLICTING INFORMATION... THE MORE CONSERVATIVE INFORMATION SHOULD BE USED FOR SAFETY.

TEST...TSUNAMI BULLETIN NUMBER 006 ...TEST
 PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
 ISSUED AT 0545Z 12 OCT 2011

THIS BULLETIN IS FOR ALL AREAS OF THE INDIAN OCEAN.

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

INDONESIA / INDIA / AUSTRALIA / THAILAND / MYANMAR / SRI LANKA /
 MALDIVES / UNITED KINGDOM / MALAYSIA / MAURITIUS / REUNION /
 SEYCHELLES / OMAN / PAKISTAN / SOMALIA / MADAGASCAR / IRAN /
 UAE / YEMEN / COMORES / MOZAMBIQUE / KENYA / TANZANIA /
 BANGLADESH / CROZET ISLANDS / KERGUELEN ISLANDS / SOUTH AFRICA /
 SINGAPORE

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY
 NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE
 DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND
 ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
 COORDINATES - 3.3 NORTH 95.9 EAST
 LOCATION - NORTHERN SUMATRA INDONESIA
 MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GUAGE LOCATION	LAT	LO N	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0140Z	5.3M / 17.4FT	17MIN
TELUKDALAM, ID	0.6N	097.8E	0207Z	7.5M / 24.6FT	19MIN
PADANG, ID	1.0S	100.4E	0316Z	1.5M / 4.9FT	17MIN
COCOS IS, AU	12.1S	096.9E	0332Z	0.3M / 1.1FT	15MIN
CHRISTMAS IS, AU	10.4S	105.7E	0339Z	0.6M / 2.0FT	20MIN
SIBOLGA, ID	1.7N	98.8E	0349Z	4.0M / 13.1FT	18MIN
TRINCONMALEE, LK	8.6N	81.2E	0350Z	3.8M / 12.5FT	18MIN
COLOMBO, LK	6.9N	79.9E	0423Z	2.2M / 7.2FT	21MIN
KO TAPHAO NOI, TH	7.8N	098.4E	0441Z	4.4M / 14.4FT	18MIN
GAN, MV	0.7S	73.2E	0451Z	2.9M / 9.5FT	18MIN
MALE, MV	4.2N	73.5E	0444Z	3.3M / 10.8FT	16MIN
SITTWE, MM	20.2N	92.9E	0500Z	1.2M / 3.9FT	12MIN
HANI MAADHOO, MV	6.8N	73.2E	0455Z	2.9M / 9.5FT	18MIN
DIEGO GARCIA, UK	7.3S	72.4E	0457Z	1.7M / 5.6FT	18MIN

LAT - LATITUDE (N-NORTH, S-SOUTH)
 LON - LONGITUDE (E-EAST, W-WEST)
 TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)
 AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.
 IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
 VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).
 PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY
 ALREADY HAVE BEEN DESTRUCTIVE ALONG SOME COASTS.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF
 THE INDIAN OCEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE
 OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME
 OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN
 LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO
 BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE
 TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE

VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS ARE GIVEN BELOW. ACTUAL ARRIVAL TIMES MAY DIFFER 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.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME	
INDONESIA	SIMEULUE	2.5N 96.0E	0138Z 12 OCT	
	BANDA_ACEH	5.5N 95.1E	0152Z 12 OCT	
	SIBERUT	1.5S 98.7E	0215Z 12 OCT	
	PADANG	0.9S 100.1E	0256Z 12 OCT	
	BENGKULU	3.9S 102.0E	0308Z 12 OCT	
	CILACAP	7.8S 108.9E	0422Z 12 OCT	
	BANDAR_LAMPUNG	5.7S 105.3E	0431Z 12 OCT	
	BALI	8.7S 115.3E	0506Z 12 OCT	
	BELAWAN	3.8N 98.8E	0546Z 12 OCT	
	KUPANG	10.0S 123.4E	0605Z 12 OCT	
	BALI	8.7S 115.3E	0506Z 12 OCT	
	INDIA	GREAT_NICOBAR	7.1N 93.6E	0217Z 12 OCT
		LITTLE_ANDAMAN	10.7N 92.3E	0305Z 12 OCT
		PORT_BLAIR	11.9N 92.7E	0315Z 12 OCT
NORTH_ANDAMAN		13.3N 92.6E	0335Z 12 OCT	
CHENNAI		13.4N 80.4E	0430Z 12 OCT	
KAKINADA		17.2N 82.7E	0456Z 12 OCT	
TRIVANDRUM		8.3N 76.9E	0504Z 12 OCT	
MANGALORE		13.3N 74.4E	0639Z 12 OCT	
BOMBAY		18.8N 72.6E	0906Z 12 OCT	
GULF_OF_KUTCH		22.7N 68.9E	0937Z 12 OCT	
AUSTRALIA	COCOS_ISLAND	12.1S 96.7E	0330Z 12 OCT	
	NORTH_WEST_CAPE	21.5S 113.9E	0543Z 12 OCT	
	CAPE_INSPIRATION	25.9S 113.0E	0645Z 12 OCT	
	PERTH	32.0S 115.3E	0657Z 12 OCT	
	AUGUSTA	34.3S 114.7E	0716Z 12 OCT	
	GERALDTOWN	28.6S 114.3E	0732Z 12 OCT	
	CAPE_LEVEQUE	16.1S 122.6E	0732Z 12 OCT	
	ESPERANCE	34.0S 121.8E	0849Z 12 OCT	
	KINGSTON_SOUTH	37.0S 139.4E	1023Z 12 OCT	
	HEARD_ISLAND	54.0S 73.5E	1052Z 12 OCT	
	EUCLA_MOTEL	31.8S 128.9E	1100Z 12 OCT	
	HOBART	43.3S 147.6E	1133Z 12 OCT	
	DARWIN	12.1S 130.7E	1153Z 12 OCT	
	THAILAND	PHUKET	8.0N 98.2E	0332Z 12 OCT
KO_PHRA_THONG		9.1N 98.2E	0422Z 12 OCT	
MYANMAR	KO_TARUTAO	6.6N 99.6E	0452Z 12 OCT	
	CHEDUBA_ISLAND	18.9N 93.4E	0432Z 12 OCT	
SRI LANKA	CHEDUBA_ISLAND	18.9N 93.4E	0432Z 12 OCT	
	PYINKAYANG	15.9N 94.3E	0442Z 12 OCT	
	SITTWE	20.0N 92.9E	0510Z 12 OCT	
	MERGUI	12.8N 98.4E	0549Z 12 OCT	
	YANGON	16.5N 96.4E	0943Z 12 OCT	
MALDIVES	TRINCOMALEE	8.7N 81.3E	0347Z 12 OCT	
	DONDRA_HEAD	5.9N 80.6E	0354Z 12 OCT	
	COLOMBO	6.9N 79.8E	0421Z 12 OCT	
MALDI VES	JAFFNA	9.9N 80.0E	0532Z 12 OCT	
	GAN	0.6S 73.2E	0446Z 12 OCT	
	MALE	4.2N 73.6E	0451Z 12 OCT	
UNITED KINGDOM	MINICOV	8.3N 73.0E	0514Z 12 OCT	
	DI EGO_GARCIA	7.3S 72.4E	0504Z 12 OCT	
MALAYSI A	GEORGETOWN	5.4N 100.1E	0522Z 12 OCT	
	PORT_DICKSON	2.5N 101.7E	1002Z 12 OCT	
MAURITIUS	PORT LOUIS	20.0S 57.3E	0800Z 12 OCT	
REUNION	ST DENIS	20.8S 55.2E	0814Z 12 OCT	
SEYCHELLES	VICTORIA	4.5S 55.6E	0828Z 12 OCT	
OMAN	SALALAH	16.9N 54.1E	0838Z 12 OCT	
	MUSCAT	23.9N 58.6E	0844Z 12 OCT	

	DUQM	19.7N	57.8E	0853Z	12	OCT
PAKI STAN	GWADAR	25.1N	62.4E	0846Z	12	OCT
	KARACHI	24.7N	66.9E	0938Z	12	OCT
SOMALI A	CAPE_GUARO	11.9N	51.4E	0848Z	12	OCT
	HI LALAYA	6.4N	49.1E	0849Z	12	OCT
	MOGADI SHU	2.0N	45.5E	0904Z	12	OCT
	KAAMBOONI	1.5S	41.9E	0932Z	12	OCT
MADAGASCAR	ANTSI RANANA	12.1S	49.5E	0850Z	12	OCT
	TOAMASI NA	17.8S	49.6E	0902Z	12	OCT
	MANAKARA	22.2S	48.2E	0917Z	12	OCT
	MAHAJANGA	15.4S	46.2E	0954Z	12	OCT
	CAP_STE_MARIE	25.8S	45.2E	1016Z	12	OCT
	TOLI ARA	23.4S	43.6E	1041Z	12	OCT
IRAN	GAVATER	25.0N	61.3E	0852Z	12	OCT
UAE	FUJAI RAH	25.1N	56.4E	0930Z	12	OCT
YEMEN	AL_MUKALLA	14.5N	49.2E	0937Z	12	OCT
	ADEN	13.0N	45.2E	1023Z	12	OCT
COMORES	MORONI	11.6S	43.3E	0951Z	12	OCT
MOZAMBI QUE	CABO_DELGADO	10.7S	40.7E	1008Z	12	OCT
	ANGO CHE	15.5S	40.6E	1040Z	12	OCT
	QUELI MANE	18.0S	37.1E	1207Z	12	OCT
	MAPUTO	25.9S	32.8E	1255Z	12	OCT
	BEI RA	19.9S	35.1E	1317Z	12	OCT
KENYA	MOMBASA	4.0S	39.7E	1009Z	12	OCT
TANZANI A	LI NDI	9.8S	39.9E	1009Z	12	OCT
	DAR_ES_SALAAM	6.7S	39.4E	1012Z	12	OCT
BANGLADESH	CHI TTAGONG	22.7N	91.2E	1025Z	12	OCT
CROZET ISLANDS	CROZET ISLANDS	46.4S	51.8E	1030Z	12	OCT
KERGUELEN ISLAN	PORT_AUX_FRANCA	49.0S	69.1E	1111Z	12	OCT
SOUTH AFRI CA	PRINCE_EDWARD_I	46.6S	37.6E	1205Z	12	OCT
	DURBAN	29.8S	31.2E	1209Z	12	OCT
	PORT_ELIZABETH	33.9S	25.8E	1311Z	12	OCT
	CAPE_TOWN	34.1S	18.0E	1410Z	12	OCT
SI NGAPORE	SI NGAPORE	1.2N	103.8E	1550Z	12	OCT

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

THE JAPAN METEOROLOGICAL AGENCY MAY ISSUE ADDITIONAL INFORMATION FOR THIS EVENT. IN THE CASE OF CONFLICTING INFORMATION... THE MORE CONSERVATIVE INFORMATION SHOULD BE USED FOR SAFETY.

TEST...TSUNAMI BULLETIN NUMBER 007 ...TEST
 PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
 ISSUED AT 0645Z 12 OCT 2011

THIS BULLETIN IS FOR ALL AREAS OF THE INDIAN OCEAN.

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

INDONESIA / INDIA / AUSTRALIA / THAILAND / MYANMAR / SRI LANKA /
 MALDIVES / UNITED KINGDOM / MALAYSIA / MAURITIUS / REUNION /
 SEYCHELLES / OMAN / PAKISTAN / SOMALIA / MADAGASCAR / IRAN /
 UAE / YEMEN / COMORES / MOZAMBIQUE / KENYA / TANZANIA /
 BANGLADESH / CROZET ISLANDS / KERGUELEN ISLANDS / SOUTH AFRICA /
 SINGAPORE

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 NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE
 DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND
 ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
 COORDINATES - 3.3 NORTH 95.9 EAST
 LOCATION - NORTHERN SUMATRA INDONESIA
 MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GUAGE LOCATION	LAT	LON	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0140Z	5.3M / 17.4FT	17MIN
TELUKDALAM, ID	0.6N	097.8E	0207Z	7.5M / 24.6FT	19MIN
PADANG, ID	1.0S	100.4E	0316Z	1.5M / 4.9FT	17MIN
COCOS IS, AU	12.1S	096.9E	0332Z	0.3M / 1.1FT	15MIN
CHRISTMAS IS, AU	10.4S	105.7E	0339Z	0.6M / 2.0FT	20MIN
SIBOLGA, ID	1.7N	98.8E	0349Z	4.0M / 13.1FT	18MIN
TRINCONMALEE, LK	8.6N	81.2E	0350Z	3.8M / 12.5FT	18MIN
COLOMBO, LK	6.9N	79.9E	0423Z	2.2M / 7.2FT	21MIN
KO TAPHAO NOI, TH	7.8N	098.4E	0441Z	4.4M / 14.4FT	18MIN
GAN, MV	0.7S	73.2E	0451Z	2.9M / 9.5FT	18MIN
MALE, MV	4.2N	73.5E	0444Z	3.3M / 10.8FT	16MIN
SITTWE, MM	20.2N	92.9E	0500Z	1.2M / 3.9FT	12MIN
HANI MAADHOO, MV	6.8N	73.2E	0455Z	2.9M / 9.5FT	18MIN
DIEGO GARCIA, UK	7.3S	72.4E	0457Z	1.7M / 5.6FT	18MIN
LANGKAWI, MY	6.9N	99.8E	0535Z	2.3M / 7.5FT	16MIN

LAT - LATITUDE (N-NORTH, S-SOUTH)
 LON - LONGITUDE (E-EAST, W-WEST)
 TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)
 AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.
 IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
 VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).
 PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY
 ALREADY HAVE BEEN DESTRUCTIVE ALONG SOME COASTS.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF
 THE INDIAN OCEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE
 OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME
 OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN
 LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO
 BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE

TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS ARE GIVEN BELOW. ACTUAL ARRIVAL TIMES MAY DIFFER 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.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME	
INDONESIA	SIMEULUE	2.5N 96.0E	0138Z 12 OCT	
	BANDA_ACEH	5.5N 95.1E	0152Z 12 OCT	
	SIBERUT	1.5S 98.7E	0215Z 12 OCT	
	PADANG	0.9S 100.1E	0256Z 12 OCT	
	BENGKULU	3.9S 102.0E	0308Z 12 OCT	
	CILACAP	7.8S 108.9E	0422Z 12 OCT	
	BANDAR_LAMPUNG	5.7S 105.3E	0431Z 12 OCT	
	BALI	8.7S 115.3E	0506Z 12 OCT	
	BELAWAN	3.8N 98.8E	0546Z 12 OCT	
	KUPANG	10.0S 123.4E	0605Z 12 OCT	
	BALI	8.7S 115.3E	0506Z 12 OCT	
	INDIA	GREAT_NICOBAR	7.1N 93.6E	0217Z 12 OCT
		LITTLE_ANDAMAN	10.7N 92.3E	0305Z 12 OCT
		PORT_BLAIR	11.9N 92.7E	0315Z 12 OCT
NORTH_ANDAMAN		13.3N 92.6E	0335Z 12 OCT	
CHENNAI		13.4N 80.4E	0430Z 12 OCT	
KAKINADA		17.2N 82.7E	0456Z 12 OCT	
TRIVANDRUM		8.3N 76.9E	0504Z 12 OCT	
MANGALORE		13.3N 74.4E	0639Z 12 OCT	
BOMBAY		18.8N 72.6E	0906Z 12 OCT	
GULF_OF_KUTCH		22.7N 68.9E	0937Z 12 OCT	
AUSTRALIA	COCOS_ISLAND	12.1S 96.7E	0330Z 12 OCT	
	NORTH_WEST_CAPE	21.5S 113.9E	0543Z 12 OCT	
	CAPE_INSPIRATIO	25.9S 113.0E	0645Z 12 OCT	
	PERTH	32.0S 115.3E	0657Z 12 OCT	
	AUGUSTA	34.3S 114.7E	0716Z 12 OCT	
	GERALDTOWN	28.6S 114.3E	0732Z 12 OCT	
	CAPE_LEVEQUE	16.1S 122.6E	0732Z 12 OCT	
	ESPERANCE	34.0S 121.8E	0849Z 12 OCT	
	KINGSTON_SOUTH	37.0S 139.4E	1023Z 12 OCT	
	HEARD_ISLAND	54.0S 73.5E	1052Z 12 OCT	
	EUCLA_MOTEL	31.8S 128.9E	1100Z 12 OCT	
	HOBART	43.3S 147.6E	1133Z 12 OCT	
	DARWIN	12.1S 130.7E	1153Z 12 OCT	
	THAILAND	PHUKET	8.0N 98.2E	0332Z 12 OCT
KO_PHRA_THONG		9.1N 98.2E	0422Z 12 OCT	
KO_TARUTAO		6.6N 99.6E	0452Z 12 OCT	
MYANMAR	CHEDUBA_ISLAND	18.9N 93.4E	0432Z 12 OCT	
	CHEDUBA_ISLAND	18.9N 93.4E	0432Z 12 OCT	
	PYINKAYANG	15.9N 94.3E	0442Z 12 OCT	
	SITTWE	20.0N 92.9E	0510Z 12 OCT	
	MERGUI	12.8N 98.4E	0549Z 12 OCT	
SRI LANKA	YANGON	16.5N 96.4E	0943Z 12 OCT	
	TRINCOMALEE	8.7N 81.3E	0347Z 12 OCT	
	DONDRA_HEAD	5.9N 80.6E	0354Z 12 OCT	
	COLOMBO	6.9N 79.8E	0421Z 12 OCT	
MALDIVES	JAFFNA	9.9N 80.0E	0532Z 12 OCT	
	GAN	0.6S 73.2E	0446Z 12 OCT	
	MALE	4.2N 73.6E	0451Z 12 OCT	
UNITED KINGDOM	MINICOV	8.3N 73.0E	0514Z 12 OCT	
	DIEGO_GARCIA	7.3S 72.4E	0504Z 12 OCT	
MALAYSIA	GEORGETOWN	5.4N 100.1E	0522Z 12 OCT	
	PORT_DICKSON	2.5N 101.7E	1002Z 12 OCT	
MAURITIUS	PORT_LOUIS	20.0S 57.3E	0800Z 12 OCT	
REUNION	ST_DENIS	20.8S 55.2E	0814Z 12 OCT	
SEYCHELLES	VICTORIA	4.5S 55.6E	0828Z 12 OCT	
OMAN	SALALAH	16.9N 54.1E	0838Z 12 OCT	

	MUSCAT	23.9N	58.6E	0844Z	12	OCT
	DUQM	19.7N	57.8E	0853Z	12	OCT
PAKI STAN	GWADAR	25.1N	62.4E	0846Z	12	OCT
	KARACHI	24.7N	66.9E	0938Z	12	OCT
SOMALI A	CAPE_GUARO	11.9N	51.4E	0848Z	12	OCT
	HI LALAYA	6.4N	49.1E	0849Z	12	OCT
	MOGADI SHU	2.0N	45.5E	0904Z	12	OCT
	KAAMBOONI	1.5S	41.9E	0932Z	12	OCT
MADAGASCAR	ANTSI RANANA	12.1S	49.5E	0850Z	12	OCT
	TOAMASI NA	17.8S	49.6E	0902Z	12	OCT
	MANAKARA	22.2S	48.2E	0917Z	12	OCT
	MAHAJANGA	15.4S	46.2E	0954Z	12	OCT
	CAP_STE_MARI E	25.8S	45.2E	1016Z	12	OCT
	TOLI ARA	23.4S	43.6E	1041Z	12	OCT
I RAN	GAVATER	25.0N	61.3E	0852Z	12	OCT
UAE	FUJAI RAH	25.1N	56.4E	0930Z	12	OCT
YEMEN	AL_MUKALLA	14.5N	49.2E	0937Z	12	OCT
	ADEN	13.0N	45.2E	1023Z	12	OCT
COMORES	MORONI	11.6S	43.3E	0951Z	12	OCT
MOZAMBI QUE	CABO_DELGADO	10.7S	40.7E	1008Z	12	OCT
	ANGO CHE	15.5S	40.6E	1040Z	12	OCT
	QUELI MANE	18.0S	37.1E	1207Z	12	OCT
	MAPUTO	25.9S	32.8E	1255Z	12	OCT
	BEI RA	19.9S	35.1E	1317Z	12	OCT
KENYA	MOMBASA	4.0S	39.7E	1009Z	12	OCT
TANZANI A	LI NDI	9.8S	39.9E	1009Z	12	OCT
	DAR_ES_SALAAM	6.7S	39.4E	1012Z	12	OCT
BANGLADESH	CHI TTAGONG	22.7N	91.2E	1025Z	12	OCT
CROZET ISLANDS	CROZET_I SLANDS	46.4S	51.8E	1030Z	12	OCT
KERGUELEN ISLAN	PORT_AUX_FRANCA	49.0S	69.1E	1111Z	12	OCT
SOUTH AFRI CA	PRI NCE_EDWARD_I	46.6S	37.6E	1205Z	12	OCT
	DURBAN	29.8S	31.2E	1209Z	12	OCT
	PORT_ELI ZABETH	33.9S	25.8E	1311Z	12	OCT
	CAPE_TOWN	34.1S	18.0E	1410Z	12	OCT
SI NGAPORE	SI NGAPORE	1.2N	103.8E	1550Z	12	OCT

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

THE JAPAN METEOROLOGICAL AGENCY MAY ISSUE ADDITIONAL INFORMATION FOR THIS EVENT. IN THE CASE OF CONFLICTING INFORMATION... THE MORE CONSERVATIVE INFORMATION SHOULD BE USED FOR SAFETY.

TEST...TSUNAMI BULLETIN NUMBER 008 ...TEST
 PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
 ISSUED AT 0745Z 12 OCT 2011

THIS BULLETIN IS FOR ALL AREAS OF THE INDIAN OCEAN.

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

INDONESIA / INDIA / AUSTRALIA / THAILAND / MYANMAR / SRI LANKA /
 MALDIVES / UNITED KINGDOM / MALAYSIA / MAURITIUS / REUNION /
 SEYCHELLES / OMAN / PAKISTAN / SOMALIA / MADAGASCAR / IRAN /
 UAE / YEMEN / COMORES / MOZAMBIQUE / KENYA / TANZANIA /
 BANGLADESH / CROZET ISLANDS / KERGUELEN ISLANDS / SOUTH AFRICA /
 SINGAPORE

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY
 NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE
 DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND
 ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
 COORDINATES - 3.3 NORTH 95.9 EAST
 LOCATION - NORTHERN SUMATRA INDONESIA
 MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GUAGE LOCATION	LAT	LO N	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0140Z	5.3M / 17.4FT	17MIN
TELUKDALAM, ID	0.6N	097.8E	0207Z	7.5M / 24.6FT	19MIN
PADANG, ID	1.0S	100.4E	0316Z	1.5M / 4.9FT	17MIN
COCOS IS, AU	12.1S	096.9E	0332Z	0.3M / 1.1FT	15MIN
CHRISTMAS IS, AU	10.4S	105.7E	0339Z	0.6M / 2.0FT	20MIN
SIBOLGA, ID	1.7N	98.8E	0349Z	4.0M / 13.1FT	18MIN
TRINCONMALEE, LK	8.6N	81.2E	0350Z	3.8M / 12.5FT	18MIN
COLOMBO, LK	6.9N	79.9E	0423Z	2.2M / 7.2FT	21MIN
KO TAPHAO NOI, TH	7.8N	098.4E	0441Z	4.4M / 14.4FT	18MIN
GAN, MV	0.7S	73.2E	0451Z	2.9M / 9.5FT	18MIN
MALE, MV	4.2N	73.5E	0444Z	3.3M / 10.8FT	16MIN
SITTWE, MM	20.2N	92.9E	0500Z	1.2M / 3.9FT	12MIN
HANI MAADHOO, MV	6.8N	73.2E	0455Z	2.9M / 9.5FT	18MIN
DIEGO GARCIA, UK	7.3S	72.4E	0457Z	1.7M / 5.6FT	18MIN
LANGKAWI, MY	6.9N	99.8E	0535Z	2.3M / 7.5FT	16MIN
RODRIGUES, MU	19.7S	63.4E	0705Z	1.6M / 5.2FT	16MIN

LAT - LATITUDE (N-NORTH, S-SOUTH)
 LON - LONGITUDE (E-EAST, W-WEST)
 TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)
 AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.
 IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
 VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).
 PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY
 ALREADY HAVE BEEN DESTRUCTIVE ALONG SOME COASTS.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF
 THE INDIAN OCEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE
 OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME
 OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN
 LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO

BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS ARE GIVEN BELOW. ACTUAL ARRIVAL TIMES MAY DIFFER 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.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
INDONESIA	SIMEULUE	2.5N 96.0E	0138Z 12 OCT
	BANDA_ ACEH	5.5N 95.1E	0152Z 12 OCT
	SIBERUT	1.5S 98.7E	0215Z 12 OCT
	PADANG	0.9S 100.1E	0256Z 12 OCT
	BENGKULU	3.9S 102.0E	0308Z 12 OCT
	CILACAP	7.8S 108.9E	0422Z 12 OCT
	BANDAR_ LAMPUNG	5.7S 105.3E	0431Z 12 OCT
	BALI	8.7S 115.3E	0506Z 12 OCT
	BELAWAN	3.8N 98.8E	0546Z 12 OCT
	KUPANG	10.0S 123.4E	0605Z 12 OCT
	BALI	8.7S 115.3E	0506Z 12 OCT
INDIA	GREAT_ NI COBAR	7.1N 93.6E	0217Z 12 OCT
	LITTLE_ ANDAMAN	10.7N 92.3E	0305Z 12 OCT
	PORT_ BLAIR	11.9N 92.7E	0315Z 12 OCT
	NORTH_ ANDAMAN	13.3N 92.6E	0335Z 12 OCT
	CHENNAI	13.4N 80.4E	0430Z 12 OCT
	KAKI NADA	17.2N 82.7E	0456Z 12 OCT
	TRI VANDRUM	8.3N 76.9E	0504Z 12 OCT
	MANGALORE	13.3N 74.4E	0639Z 12 OCT
	BOMBAY	18.8N 72.6E	0906Z 12 OCT
	GULF_ OF_ KUTCH	22.7N 68.9E	0937Z 12 OCT
AUSTRALIA	COCOS_ I SLAND	12.1S 96.7E	0330Z 12 OCT
	NORTH_ WEST_ CAPE	21.5S 113.9E	0543Z 12 OCT
	CAPE_ TINSPIRATIO	25.9S 113.0E	0645Z 12 OCT
	PERTH	32.0S 115.3E	0657Z 12 OCT
	AUGUSTA	34.3S 114.7E	0716Z 12 OCT
	GERALDTOWN	28.6S 114.3E	0732Z 12 OCT
	CAPE_ LEVEQUE	16.1S 122.6E	0732Z 12 OCT
	ESPERANCE	34.0S 121.8E	0849Z 12 OCT
	KINGSTON_ SOUTH_	37.0S 139.4E	1023Z 12 OCT
	HEARD_ I SLAND	54.0S 73.5E	1052Z 12 OCT
	EUCLA_ MOTEL	31.8S 128.9E	1100Z 12 OCT
	HOBART	43.3S 147.6E	1133Z 12 OCT
	DARWIN	12.1S 130.7E	1153Z 12 OCT
	THAI LAND	PHUKET	8.0N 98.2E
KO_ PHRA_ THONG		9.1N 98.2E	0422Z 12 OCT
MYANMAR	KO_ TARUTAO	6.6N 99.6E	0452Z 12 OCT
	CHEDUBA_ I SLAND	18.9N 93.4E	0432Z 12 OCT
	CHEDUBA_ I SLAND	18.9N 93.4E	0432Z 12 OCT
	PYI NKAYAI NG	15.9N 94.3E	0442Z 12 OCT
	SITTWE	20.0N 92.9E	0510Z 12 OCT
SRI LANKA	MERGUI	12.8N 98.4E	0549Z 12 OCT
	YANGON	16.5N 96.4E	0943Z 12 OCT
	TRINCOMALEE	8.7N 81.3E	0347Z 12 OCT
	DONDRA_ HEAD	5.9N 80.6E	0354Z 12 OCT
MALDIVES	COLOMBO	6.9N 79.8E	0421Z 12 OCT
	JAFFNA	9.9N 80.0E	0532Z 12 OCT
	GAN	0.6S 73.2E	0446Z 12 OCT
MALDI VES	MALE	4.2N 73.6E	0451Z 12 OCT
	MINI COV	8.3N 73.0E	0514Z 12 OCT
UNITED KINGDOM	DI EGO_ GARCIA	7.3S 72.4E	0504Z 12 OCT
MALAYSI A	GEORGETOWN	5.4N 100.1E	0522Z 12 OCT
	PORT_ DI CKSON	2.5N 101.7E	1002Z 12 OCT
MAURI TI US	PORT_ LOUIS	20.0S 57.3E	0800Z 12 OCT
REUNI ON	ST_ DENI S	20.8S 55.2E	0814Z 12 OCT
SEYCHELLES	VICTORIA	4.5S 55.6E	0828Z 12 OCT

OMAN	SALALAH	16.9N	54.1E	0838Z	12	OCT
	MUSCAT	23.9N	58.6E	0844Z	12	OCT
	DUQM	19.7N	57.8E	0853Z	12	OCT
PAKI STAN	GWADAR	25.1N	62.4E	0846Z	12	OCT
	KARACHI	24.7N	66.9E	0938Z	12	OCT
SOMALI A	CAPE_GUARO	11.9N	51.4E	0848Z	12	OCT
	HI LALAYA	6.4N	49.1E	0849Z	12	OCT
	MOGADI SHU	2.0N	45.5E	0904Z	12	OCT
	KAAMBOONI	1.5S	41.9E	0932Z	12	OCT
MADAGASCAR	ANTSI RANANA	12.1S	49.5E	0850Z	12	OCT
	TOAMASI NA	17.8S	49.6E	0902Z	12	OCT
	MANAKARA	22.2S	48.2E	0917Z	12	OCT
	MAHAJANGA	15.4S	46.2E	0954Z	12	OCT
	CAP_STE_MARIE	25.8S	45.2E	1016Z	12	OCT
	TOLTARA	23.4S	43.6E	1041Z	12	OCT
I RAN	GAVATER	25.0N	61.3E	0852Z	12	OCT
UAE	FUJAI RAH	25.1N	56.4E	0930Z	12	OCT
YEMEN	AL_MUKALLA	14.5N	49.2E	0937Z	12	OCT
	ADEN	13.0N	45.2E	1023Z	12	OCT
COMORES	MORONI	11.6S	43.3E	0951Z	12	OCT
MOZAMBI QUE	CABO_DELGADO	10.7S	40.7E	1008Z	12	OCT
	ANGOCHE	15.5S	40.6E	1040Z	12	OCT
	QUELI MANE	18.0S	37.1E	1207Z	12	OCT
	MAPUTO	25.9S	32.8E	1255Z	12	OCT
	BEI RA	19.9S	35.1E	1317Z	12	OCT
KENYA	MOMBASA	4.0S	39.7E	1009Z	12	OCT
TANZANI A	LI NDI	9.8S	39.9E	1009Z	12	OCT
	DAR_ES_SALAAM	6.7S	39.4E	1012Z	12	OCT
BANGLADESH	CHI TTAGONG	22.7N	91.2E	1025Z	12	OCT
CROZET ISLANDS	CROZET_I SLANDS	46.4S	51.8E	1030Z	12	OCT
KERGUELEN ISLAN	PORT_AUX_FRANCA	49.0S	69.1E	1111Z	12	OCT
SOUTH AFRI CA	PRI NCE_EDWARD_I	46.6S	37.6E	1205Z	12	OCT
	DURBAN	29.8S	31.2E	1209Z	12	OCT
	PORT_ELI ZABETH	33.9S	25.8E	1311Z	12	OCT
	CAPE_TOWN	34.1S	18.0E	1410Z	12	OCT
SINGAPORE	SINGAPORE	1.2N	103.8E	1550Z	12	OCT

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

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TEST...TSUNAMI BULLETIN NUMBER 009 ...TEST
 PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
 ISSUED AT 0845Z 12 OCT 2011

THIS BULLETIN IS FOR ALL AREAS OF THE INDIAN OCEAN.

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

INDONESIA / INDIA / AUSTRALIA / THAILAND / MYANMAR / SRI LANKA /
 MALDIVES / UNITED KINGDOM / MALAYSIA / MAURITIUS / REUNION /
 SEYCHELLES / OMAN / PAKISTAN / SOMALIA / MADAGASCAR / IRAN /
 UAE / YEMEN / COMORES / MOZAMBIQUE / KENYA / TANZANIA /
 BANGLADESH / CROZET ISLANDS / KERGUELEN ISLANDS / SOUTH AFRICA /
 SINGAPORE

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 NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE
 DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND
 ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
 COORDINATES - 3.3 NORTH 95.9 EAST
 LOCATION - NORTHERN SUMATRA INDONESIA
 MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GUAGE LOCATION	LAT	LO	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0140Z	5.3M / 17.4FT	17MIN
TELUKDALAM, ID	0.6N	097.8E	0207Z	7.5M / 24.6FT	19MIN
PADANG, ID	1.0S	100.4E	0316Z	1.5M / 4.9FT	17MIN
COCOS IS, AU	12.1S	096.9E	0332Z	0.3M / 1.1FT	15MIN
CHRISTMAS IS, AU	10.4S	105.7E	0339Z	0.6M / 2.0FT	20MIN
SIBOLGA, ID	1.7N	98.8E	0349Z	4.0M / 13.1FT	18MIN
TRINCONMALEE, LK	8.6N	81.2E	0350Z	3.8M / 12.5FT	18MIN
COLOMBO, LK	6.9N	79.9E	0423Z	2.2M / 7.2FT	21MIN
KO TAPHAO NOI, TH	7.8N	098.4E	0441Z	4.4M / 14.4FT	18MIN
GAN, MV	0.7S	73.2E	0451Z	2.9M / 9.5FT	18MIN
MALE, MV	4.2N	73.5E	0444Z	3.3M / 10.8FT	16MIN
SITTWE, MM	20.2N	92.9E	0500Z	1.2M / 3.9FT	12MIN
HANI MAADHOO, MV	6.8N	73.2E	0455Z	2.9M / 9.5FT	18MIN
DIEGO GARCIA, UK	7.3S	72.4E	0457Z	1.7M / 5.6FT	18MIN
LANGKAWI, MY	6.9N	99.8E	0535Z	2.3M / 7.5FT	16MIN
RODRIGUES, MU	19.7S	63.4E	0705Z	1.6M / 5.2FT	16MIN
PORT LOUIS, MU	20.2S	57.5E	0806Z	1.0M / 3.3FT	15MIN

LAT - LATITUDE (N-NORTH, S-SOUTH)
 LO - LONGITUDE (E-EAST, W-WEST)
 TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)
 AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.
 IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
 VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).
 PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY
 ALREADY HAVE BEEN DESTRUCTIVE ALONG SOME COASTS.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF
 THE INDIAN OCEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE
 OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME
 OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN

LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS ARE GIVEN BELOW. ACTUAL ARRIVAL TIMES MAY DIFFER 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.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME
INDONESIA	SIMEULUE	2.5N 96.0E	0138Z 12 OCT
	BANDA_ ACEH	5.5N 95.1E	0152Z 12 OCT
	SIBERUT	1.5S 98.7E	0215Z 12 OCT
	PADANG	0.9S 100.1E	0256Z 12 OCT
	BENGKULU	3.9S 102.0E	0308Z 12 OCT
	CILACAP	7.8S 108.9E	0422Z 12 OCT
	BANDAR_LAMPUNG	5.7S 105.3E	0431Z 12 OCT
	BALI	8.7S 115.3E	0506Z 12 OCT
	BELAWAN	3.8N 98.8E	0546Z 12 OCT
	KUPANG	10.0S 123.4E	0605Z 12 OCT
	BALI	8.7S 115.3E	0506Z 12 OCT
INDIA	GREAT_NICOBAR	7.1N 93.6E	0217Z 12 OCT
	LITTLE_ANDAMAN	10.7N 92.3E	0305Z 12 OCT
	PORT_BLAIR	11.9N 92.7E	0315Z 12 OCT
	NORTH_ANDAMAN	13.3N 92.6E	0335Z 12 OCT
	CHENNAI	13.4N 80.4E	0430Z 12 OCT
	KAKINADA	17.2N 82.7E	0456Z 12 OCT
	TRIVANDRUM	8.3N 76.9E	0504Z 12 OCT
	MANGALORE	13.3N 74.4E	0639Z 12 OCT
	BOMBAY	18.8N 72.6E	0906Z 12 OCT
	GULF_OF_KUTCH	22.7N 68.9E	0937Z 12 OCT
AUSTRALIA	COCOS_ISLAND	12.1S 96.7E	0330Z 12 OCT
	NORTH_WEST_CAPE	21.5S 113.9E	0543Z 12 OCT
	CAPE_INSPIRATIO	25.9S 113.0E	0645Z 12 OCT
	PERTH	32.0S 115.3E	0657Z 12 OCT
	AUGUSTA	34.3S 114.7E	0716Z 12 OCT
	GERALDTOWN	28.6S 114.3E	0732Z 12 OCT
	CAPE_LEVEQUE	16.1S 122.6E	0732Z 12 OCT
	ESPERANCE	34.0S 121.8E	0849Z 12 OCT
	KINGSTON_SOUTH	37.0S 139.4E	1023Z 12 OCT
	HEARD_ISLAND	54.0S 73.5E	1052Z 12 OCT
	EUCLA_MOTEL	31.8S 128.9E	1100Z 12 OCT
	HOBART	43.3S 147.6E	1133Z 12 OCT
	DARWIN	12.1S 130.7E	1153Z 12 OCT
THAILAND	PHUKET	8.0N 98.2E	0332Z 12 OCT
	KO_PHRA_THONG	9.1N 98.2E	0422Z 12 OCT
MYANMAR	KO_TARUTAO	6.6N 99.6E	0452Z 12 OCT
	CHEDUBA_ISLAND	18.9N 93.4E	0432Z 12 OCT
	CHEDUBA_ISLAND	18.9N 93.4E	0432Z 12 OCT
	PYINKAYANG	15.9N 94.3E	0442Z 12 OCT
	SITTWE	20.0N 92.9E	0510Z 12 OCT
SRI LANKA	MERGUI	12.8N 98.4E	0549Z 12 OCT
	YANGON	16.5N 96.4E	0943Z 12 OCT
	TRINCOMALEE	8.7N 81.3E	0347Z 12 OCT
	DONDRA_HEAD	5.9N 80.6E	0354Z 12 OCT
MALDIVES	COLOMBO	6.9N 79.8E	0421Z 12 OCT
	JAFFNA	9.9N 80.0E	0532Z 12 OCT
	GAN	0.6S 73.2E	0446Z 12 OCT
UNITED KINGDOM	MALE	4.2N 73.6E	0451Z 12 OCT
	MINICOV	8.3N 73.0E	0514Z 12 OCT
	DIEGO_GARCIA	7.3S 72.4E	0504Z 12 OCT
MALAYSIA	GEORGETOWN	5.4N 100.1E	0522Z 12 OCT
	PORT_DICKSON	2.5N 101.7E	1002Z 12 OCT
MAURITIUS	PORT_LOUIS	20.0S 57.3E	0800Z 12 OCT
	ST_DENIS	20.8S 55.2E	0814Z 12 OCT

SEYCHELLES	VICTORIA	4.5S	55.6E	0828Z	12	OCT
OMAN	SALALAH	16.9N	54.1E	0838Z	12	OCT
	MUSCAT	23.9N	58.6E	0844Z	12	OCT
	DUQM	19.7N	57.8E	0853Z	12	OCT
PAKISTAN	GWADAR	25.1N	62.4E	0846Z	12	OCT
	KARACHI	24.7N	66.9E	0938Z	12	OCT
SOMALIA	CAPE_GUARO	11.9N	51.4E	0848Z	12	OCT
	HILALAYA	6.4N	49.1E	0849Z	12	OCT
	MOGADISHU	2.0N	45.5E	0904Z	12	OCT
	KAAMBOONI	1.5S	41.9E	0932Z	12	OCT
MADAGASCAR	ANTSIRANANA	12.1S	49.5E	0850Z	12	OCT
	TOAMASINA	17.8S	49.6E	0902Z	12	OCT
	MANAKARA	22.2S	48.2E	0917Z	12	OCT
	MAHAJANGA	15.4S	46.2E	0954Z	12	OCT
	CAPSTE_MARIE	25.8S	45.2E	1016Z	12	OCT
	TOLIARA	23.4S	43.6E	1041Z	12	OCT
IRAN	GAVATER	25.0N	61.3E	0852Z	12	OCT
UAE	FUJAIRAH	25.1N	56.4E	0930Z	12	OCT
YEMEN	AL_MUKALLA	14.5N	49.2E	0937Z	12	OCT
	ADEN	13.0N	45.2E	1023Z	12	OCT
COMORES	MORONI	11.6S	43.3E	0951Z	12	OCT
MOZAMBIQUE	CABO_DELGADO	10.7S	40.7E	1008Z	12	OCT
	ANGOCHE	15.5S	40.6E	1040Z	12	OCT
	QUELI MANE	18.0S	37.1E	1207Z	12	OCT
	MAPUTO	25.9S	32.8E	1255Z	12	OCT
	BEIRA	19.9S	35.1E	1317Z	12	OCT
KENYA	MOMBASA	4.0S	39.7E	1009Z	12	OCT
TANZANIA	LINDI	9.8S	39.9E	1009Z	12	OCT
	DAR_ES_SALAAM	6.7S	39.4E	1012Z	12	OCT
BANGLADESH	CHITTAGONG	22.7N	91.2E	1025Z	12	OCT
CROZET ISLANDS	CROZET ISLANDS	46.4S	51.8E	1030Z	12	OCT
KERGUELEN ISLAND	PORT_AUX_FRANCA	49.0S	69.1E	1111Z	12	OCT
SOUTH AFRICA	PRINCE_EDWARD_I	46.6S	37.6E	1205Z	12	OCT
	DURBAN	29.8S	31.2E	1209Z	12	OCT
	PORT_ELIZABETH	33.9S	25.8E	1311Z	12	OCT
	CAPE_TOWN	34.1S	18.0E	1410Z	12	OCT
SINGAPORE	SINGAPORE	1.2N	103.8E	1550Z	12	OCT

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAILABLE.

THE JAPAN METEOROLOGICAL AGENCY MAY ISSUE ADDITIONAL INFORMATION FOR THIS EVENT. IN THE CASE OF CONFLICTING INFORMATION... THE MORE CONSERVATIVE INFORMATION SHOULD BE USED FOR SAFETY.

TEST...TSUNAMI BULLETIN NUMBER 011 ...TEST
 PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
 ISSUED AT 1045Z 12 OCT 2011

THIS BULLETIN IS FOR ALL AREAS OF THE INDIAN OCEAN.

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

A TSUNAMI WATCH IS IN EFFECT FOR

INDONESIA / INDIA / AUSTRALIA / THAILAND / MYANMAR / SRI LANKA /
 MALDIVES / UNITED KINGDOM / MALAYSIA / MAURITIUS / REUNION /
 SEYCHELLES / OMAN / PAKISTAN / SOMALIA / MADAGASCAR / IRAN /
 UAE / YEMEN / COMORES / MOZAMBIQUE / KENYA / TANZANIA /
 BANGLADESH / CROZET ISLANDS / KERGUELEN ISLANDS / SOUTH AFRICA /
 SINGAPORE

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY
 NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE
 DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND
 ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
 COORDINATES - 3.3 NORTH 95.9 EAST
 LOCATION - NORTHERN SUMATRA INDONESIA
 MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GUAGE LOCATION	LAT	LO N	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0140Z	5.3M / 17.4FT	17MI N
TELUKDALAM, ID	0.6N	097.8E	0207Z	7.5M / 24.6FT	19MI N
PADANG, ID	1.0S	100.4E	0316Z	1.5M / 4.9FT	17MI N
COCOS IS, AU	12.1S	096.9E	0332Z	0.3M / 1.1FT	15MI N
CHRISTMAS IS, AU	10.4S	105.7E	0339Z	0.6M / 2.0FT	20MI N
SIBOLGA, ID	1.7N	98.8E	0349Z	4.0M / 13.1FT	18MI N
TRINCONMALEE, LK	8.6N	81.2E	0350Z	3.8M / 12.5FT	18MI N
COLOMBO, LK	6.9N	79.9E	0423Z	2.2M / 7.2FT	21MI N
KO TAPHAO NOI, TH	7.8N	098.4E	0441Z	4.4M / 14.4FT	18MI N
GAN, MV	0.7S	73.2E	0451Z	2.9M / 9.5FT	18MI N
MALE, MV	4.2N	73.5E	0444Z	3.3M / 10.8FT	16MI N
SITTWE, MM	20.2N	92.9E	0500Z	1.2M / 3.9FT	12MI N
HANI MAADHOO, MV	6.8N	73.2E	0455Z	2.9M / 9.5FT	18MI N
DIEGO GARCIA, UK	7.3S	72.4E	0457Z	1.7M / 5.6FT	18MI N
LANGKAWI, MY	6.9N	99.8E	0535Z	2.3M / 7.5FT	16MI N
RODRIGUES, MU	19.7S	63.4E	0705Z	1.6M / 5.2FT	16MI N
PORT LOUIS, MU	20.2S	57.5E	0806Z	1.0M / 3.3FT	15MI N
SALALAH, OM	16.9N	54.0E	0835Z	0.5M / 1.6FT	19MI N
MASIRAH, OM	20.7N	58.9E	0900Z	0.4M / 1.3FT	19MI N
CHABAHAR, IR	25.3N	60.6E	0913Z	0.9M / 3.0FT	17MI N
HILLARYS, AU	31.8S	115.7E	0730Z	0.5M / 1.6FT	18MI N
LAMU, KE	2.3S	40.9E	1022Z	1.5M / 4.9FT	17MI N
MOMBASA, KE	4.1S	39.6E	1026Z	2.3M / 7.5FT	15MI N
ZANZIBAR, TZ	6.2S	39.2E	1033Z	2.2M / 7.2FT	16MI N
LAMU, KE	2.3S	40.9E	1022Z	1.5M / 4.9FT	17MI N
MOMBASA, KE	4.1S	39.6E	1026Z	2.3M / 7.5FT	15MI N

LAT - LATITUDE (N-NORTH, S-SOUTH)
 LON - LONGITUDE (E-EAST, W-WEST)
 TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)
 AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.
 IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
 VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).
 PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

SEA LEVEL READINGS INDICATE A TSUNAMI WAS GENERATED. IT MAY ALREADY HAVE BEEN DESTRUCTIVE ALONG SOME COASTS.

BASED ON THESE DATA THE THREAT CONTINUES FOR ALL COASTAL AREAS OF THE INDIAN OCEAN. FOR THOSE AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

ESTIMATED INITIAL TSUNAMI WAVE ARRIVAL TIMES AT FORECAST POINTS WITHIN THE WARNING AND WATCH AREAS ARE GIVEN BELOW. ACTUAL ARRIVAL TIMES MAY DIFFER 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.

LOCATION	FORECAST POINT	COORDINATES	ARRIVAL TIME	
INDONESIA	SIMEULUE	2.5N 96.0E	0138Z 12 OCT	
	BANDA_ ACEH	5.5N 95.1E	0152Z 12 OCT	
	SIBERUT	1.5S 98.7E	0215Z 12 OCT	
	PADANG	0.9S 100.1E	0256Z 12 OCT	
	BENGKULU	3.9S 102.0E	0308Z 12 OCT	
	CILACAP	7.8S 108.9E	0422Z 12 OCT	
	BANDAR_ LAMPUNG	5.7S 105.3E	0431Z 12 OCT	
	BALI	8.7S 115.3E	0506Z 12 OCT	
	BELAWAN	3.8N 98.8E	0546Z 12 OCT	
	KUPANG	10.0S 123.4E	0605Z 12 OCT	
INDIA	BALI	8.7S 115.3E	0506Z 12 OCT	
	GREAT_ NI COBAR	7.1N 93.6E	0217Z 12 OCT	
	LITTLE_ ANDAMAN	10.7N 92.3E	0305Z 12 OCT	
	PORT_ BLAIR	11.9N 92.7E	0315Z 12 OCT	
	NORTH_ ANDAMAN	13.3N 92.6E	0335Z 12 OCT	
	CHENNAI	13.4N 80.4E	0430Z 12 OCT	
	KAKINADA	17.2N 82.7E	0456Z 12 OCT	
	TRI VANDRUM	8.3N 76.9E	0504Z 12 OCT	
	MANGALORE	13.3N 74.4E	0639Z 12 OCT	
	BOMBAY	18.8N 72.6E	0906Z 12 OCT	
AUSTRALIA	GULF_ OF_ KUTCH	22.7N 68.9E	0937Z 12 OCT	
	COCOS_ ISLAND	12.1S 96.7E	0330Z 12 OCT	
	NORTH_ WEST_ CAPE	21.5S 113.9E	0543Z 12 OCT	
	CAPE_ INSPIRATIO	25.9S 113.0E	0645Z 12 OCT	
	PERTH	32.0S 115.3E	0657Z 12 OCT	
	AUGUSTA	34.3S 114.7E	0716Z 12 OCT	
	GERALDTOWN	28.6S 114.3E	0732Z 12 OCT	
	CAPE_ LEVEQUE	16.1S 122.6E	0732Z 12 OCT	
	ESPERANCE	34.0S 121.8E	0849Z 12 OCT	
	KINGSTON_ SOUTH_	37.0S 139.4E	1023Z 12 OCT	
THAILAND	HEARD_ ISLAND	54.0S 73.5E	1052Z 12 OCT	
	EUCLA_ MOTEL	31.8S 128.9E	1100Z 12 OCT	
	HOBART	43.3S 147.6E	1133Z 12 OCT	
	DARWIN	12.1S 130.7E	1153Z 12 OCT	
	PHUKET	8.0N 98.2E	0332Z 12 OCT	
	KO_ PHRA_ THONG	9.1N 98.2E	0422Z 12 OCT	
	KO_ TARUTAO	6.6N 99.6E	0452Z 12 OCT	
	MYANMAR	CHEDUBA_ ISLAND	18.9N 93.4E	0432Z 12 OCT
		CHEDUBA_ ISLAND	18.9N 93.4E	0432Z 12 OCT
		PYINKAYAI NG	15.9N 94.3E	0442Z 12 OCT
SITTWE		20.0N 92.9E	0510Z 12 OCT	
MERGUI		12.8N 98.4E	0549Z 12 OCT	
SRI LANKA	YANGON	16.5N 96.4E	0943Z 12 OCT	
	TRINCOMALEE	8.7N 81.3E	0347Z 12 OCT	
	DONDRA_ HEAD	5.9N 80.6E	0354Z 12 OCT	
	COLOMBO	6.9N 79.8E	0421Z 12 OCT	

MALDI VES	JAFFNA	9. 9N	80. 0E	0532Z	12	OCT
	GAN	0. 6S	73. 2E	0446Z	12	OCT
	MALE	4. 2N	73. 6E	0451Z	12	OCT
	MI NI COV	8. 3N	73. 0E	0514Z	12	OCT
UNI TED KI NGDOM	DI EGO_GARCI A	7. 3S	72. 4E	0504Z	12	OCT
MALAYSI A	GEORGETOWN	5. 4N	100. 1E	0522Z	12	OCT
	PORT_DI CKSON	2. 5N	101. 7E	1002Z	12	OCT
MAURI TI US	PORT_LOUI S	20. 0S	57. 3E	0800Z	12	OCT
REUNI ON	ST_DENI S	20. 8S	55. 2E	0814Z	12	OCT
SEYCHELLES	VI CTORI A	4. 5S	55. 6E	0828Z	12	OCT
OMAN	SALALAH	16. 9N	54. 1E	0838Z	12	OCT
	MUSCAT	23. 9N	58. 6E	0844Z	12	OCT
	DUQM	19. 7N	57. 8E	0853Z	12	OCT
PAKI STAN	GWADAR	25. 1N	62. 4E	0846Z	12	OCT
	KARACHI	24. 7N	66. 9E	0938Z	12	OCT
SOMALI A	CAPE_GUARO	11. 9N	51. 4E	0848Z	12	OCT
	HI LALAYA	6. 4N	49. 1E	0849Z	12	OCT
	MOGADI SHU	2. 0N	45. 5E	0904Z	12	OCT
	KAAMBOONI	1. 5S	41. 9E	0932Z	12	OCT
MADAGASCAR	ANTSI RANANA	12. 1S	49. 5E	0850Z	12	OCT
	TOAMASI NA	17. 8S	49. 6E	0902Z	12	OCT
	MANAKARA	22. 2S	48. 2E	0917Z	12	OCT
	MAHAJANGA	15. 4S	46. 2E	0954Z	12	OCT
	CAP_STE_MARI E	25. 8S	45. 2E	1016Z	12	OCT
	TOLI ARA	23. 4S	43. 6E	1041Z	12	OCT
I RAN	GAVATER	25. 0N	61. 3E	0852Z	12	OCT
UAE	FUJAI RAH	25. 1N	56. 4E	0930Z	12	OCT
YEMEN	AL_MUKALLA	14. 5N	49. 2E	0937Z	12	OCT
	ADEN	13. 0N	45. 2E	1023Z	12	OCT
COMORES	MORONI	11. 6S	43. 3E	0951Z	12	OCT
MOZAMBI QUE	CABO_DELGADO	10. 7S	40. 7E	1008Z	12	OCT
	ANGO CHE	15. 5S	40. 6E	1040Z	12	OCT
	QUELI MANE	18. 0S	37. 1E	1207Z	12	OCT
	MAPUTO	25. 9S	32. 8E	1255Z	12	OCT
	BEI RA	19. 9S	35. 1E	1317Z	12	OCT
KENYA	MOMBASA	4. 0S	39. 7E	1009Z	12	OCT
TANZANI A	LI NDI	9. 8S	39. 9E	1009Z	12	OCT
	DAR_ES_SALAAM	6. 7S	39. 4E	1012Z	12	OCT
BANGLADESH	CHI TTAGONG	22. 7N	91. 2E	1025Z	12	OCT
CROZET I SLANDS	CROZET_I SLANDS	46. 4S	51. 8E	1030Z	12	OCT
KERGUELEN I SLAN	PORT_AUX_FRANCA	49. 0S	69. 1E	1111Z	12	OCT
SOUTH AFRI CA	PRINCE_EDWARD_I	46. 6S	37. 6E	1205Z	12	OCT
	DURBAN	29. 8S	31. 2E	1209Z	12	OCT
	PORT_ELIZABETH	33. 9S	25. 8E	1311Z	12	OCT
	CAPE_TOWN	34. 1S	18. 0E	1410Z	12	OCT
SI NGAPORE	SI NGAPORE	1. 2N	103. 8E	1550Z	12	OCT

ADDITIONAL BULLETINS WILL BE ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT AS MORE INFORMATION BECOMES AVAIL ABLE.

THE JAPAN METEOROLOGICAL AGENCY MAY ISSUE ADDITIONAL INFORMATION FOR THIS EVENT. IN THE CASE OF CONFLICTING INFORMATION... THE MORE CONSERVATIVE INFORMATION SHOULD BE USED FOR SAFETY.

TEST...TSUNAMI BULLETIN NUMBER 012 ...TEST
 PACIFIC TSUNAMI WARNING CENTER/NOAA/NWS
 ISSUED AT 1100Z 12 OCT 2011

THIS BULLETIN IS FOR ALL AREAS OF THE INDIAN OCEAN.

... THE TSUNAMI WATCH IS CANCELLED ...

THIS BULLETIN IS ISSUED AS ADVICE TO GOVERNMENT AGENCIES. ONLY NATIONAL AND LOCAL GOVERNMENT AGENCIES HAVE THE AUTHORITY TO MAKE DECISIONS REGARDING THE OFFICIAL STATE OF ALERT IN THEIR AREA AND ANY ACTIONS TO BE TAKEN IN RESPONSE.

AN EARTHQUAKE HAS OCCURRED WITH THESE PRELIMINARY PARAMETERS

ORIGIN TIME - 0100Z 12 OCT 2011
 COORDINATES - 3.3 NORTH 95.9 EAST
 LOCATION - NORTHERN SUMATRA INDONESIA
 MAGNITUDE - 9.2

MEASUREMENTS OR REPORTS OF TSUNAMI WAVE ACTIVITY

GUAGE LOCATION	LAT	LO N	TIME	AMPL	PER
SABANG ID	5.8N	095.3E	0140Z	5.3M / 17.4FT	17MI N
TELUKDALAM, ID	0.6N	097.8E	0207Z	7.5M / 24.6FT	19MI N
PADANG, ID	1.0S	100.4E	0316Z	1.5M / 4.9FT	17MI N
COCOS IS, AU	12.1S	096.9E	0332Z	0.3M / 1.1FT	15MI N
CHRISTMAS IS, AU	10.4S	105.7E	0339Z	0.6M / 2.0FT	20MI N
SIBOLGA, ID	1.7N	98.8E	0349Z	4.0M / 13.1FT	18MI N
TRINCONMALEE, LK	8.6N	81.2E	0350Z	3.8M / 12.5FT	18MI N
COLOMBO, LK	6.9N	79.9E	0423Z	2.2M / 7.2FT	21MI N
KO TAPHAO NOI, TH	7.8N	098.4E	0441Z	4.4M / 14.4FT	18MI N
GAN, MV	0.7S	73.2E	0451Z	2.9M / 9.5FT	18MI N
MALE, MV	4.2N	73.5E	0444Z	3.3M / 10.8FT	16MI N
SITTWE, MM	20.2N	92.9E	0500Z	1.2M / 3.9FT	12MI N
HANI MAADHOO, MV	6.8N	73.2E	0455Z	2.9M / 9.5FT	18MI N
DIEGO GARCIA, UK	7.3S	72.4E	0457Z	1.7M / 5.6FT	18MI N
LANGKAWI, MY	6.9N	99.8E	0535Z	2.3M / 7.5FT	16MI N
RODRIGUES, MU	19.7S	63.4E	0705Z	1.6M / 5.2FT	16MI N
PORT LOUIS, MU	20.2S	57.5E	0806Z	1.0M / 3.3FT	15MI N
SALALAH, OM	16.9N	54.0E	0835Z	0.5M / 1.6FT	19MI N
MASIRAH, OM	20.7N	58.9E	0900Z	0.4M / 1.3FT	19MI N
CHABAHAR, IR	25.3N	60.6E	0913Z	0.9M / 3.0FT	17MI N
HILLARYS, AU	31.8S	115.7E	0730Z	0.5M / 1.6FT	18MI N
LAMU, KE	2.3S	40.9E	1022Z	1.5M / 4.9FT	17MI N
MOMBASA, KE	4.1S	39.6E	1026Z	2.3M / 7.5FT	15MI N
ZANZIBAR, TZ	6.2S	39.2E	1033Z	2.2M / 7.2FT	16MI N
LAMU, KE	2.3S	40.9E	1022Z	1.5M / 4.9FT	17MI N
MOMBASA, KE	4.1S	39.6E	1026Z	2.3M / 7.5FT	15MI N

LAT - LATITUDE (N-NORTH, S-SOUTH)
 LON - LONGITUDE (E-EAST, W-WEST)
 TIME - TIME OF THE MEASUREMENT (Z IS UTC IS GREENWICH TIME)
 AMPL - TSUNAMI AMPLITUDE MEASURED RELATIVE TO NORMAL SEA LEVEL.
 IT IS ...NOT... CREST-TO-TROUGH WAVE HEIGHT.
 VALUES ARE GIVEN IN BOTH METERS(M) AND FEET(FT).
 PER - PERIOD OF TIME IN MINUTES(MIN) FROM ONE WAVE TO THE NEXT.

EVALUATION

A SIGNIFICANT TSUNAMI WAS GENERATED BY THIS EARTHQUAKE. HOWEVER...SEA LEVEL READINGS NOW INDICATE THAT THE THREAT HAS DIMINISHED OR IS OVER FOR MOST AREAS. THEREFORE THE TSUNAMI WATCH ISSUED BY THIS CENTER IS NOW CANCELLED.

FOR ANY AFFECTED AREAS - WHEN NO MAJOR WAVES HAVE OCCURRED FOR AT LEAST TWO HOURS AFTER THE ESTIMATED ARRIVAL TIME OR DAMAGING WAVES

HAVE NOT OCCURRED FOR AT LEAST TWO HOURS THEN LOCAL AUTHORITIES CAN ASSUME THE THREAT IS PASSED. DANGER TO BOATS AND COASTAL STRUCTURES CAN CONTINUE FOR SEVERAL HOURS DUE TO RAPID CURRENTS. AS LOCAL CONDITIONS CAN CAUSE A WIDE VARIATION IN TSUNAMI WAVE ACTION THE ALL CLEAR DETERMINATION MUST BE MADE BY LOCAL AUTHORITIES.

THIS WILL BE THE FINAL BULLETIN ISSUED BY THE PACIFIC TSUNAMI WARNING CENTER FOR THIS EVENT UNLESS ADDITIONAL INFORMATION BECOMES AVAILABLE.

APPENDIX III. EXERCISE BULLETINS - JMA

TSUNAMI BULLETIN NUMBER 001
ISSUED BY THE JAPAN METEOROLOGICAL AGENCY (JMA)
ISSUED AT 0120 12 OCT 2011 (UTC)

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

1. EARTHQUAKE INFORMATION

ORIGIN TIME : 0100 12 OCT 2011 (UTC)
COORDINATES : 3.3 NORTH 95.9 EAST
LOCATION : OFF WEST COAST OF NORTHERN SUMATRA, INDONESIA
MAGNITUDE : 8.2

2. EVALUATION

THERE IS A POSSIBILITY OF A DESTRUCTIVE OCEAN-WIDE
TSUNAMI IN THE INDIAN OCEAN.

3. ESTIMATED TSUNAMI TRAVEL TIME

ONE HOUR OR LESS

INDIA:

ALL COASTS OF ANDAMAN AND NICOBAR ISLANDS

INDONESIA:

INDIAN OCEAN COAST OF SUMATRA

MALACCA COAST OF SUMATRA

ONE HOUR TO THREE HOURS

INDIA:

BENGAL BAY COAST

SRI LANKA:

ALL COASTS

THAILAND:

MALACCA COAST

INDONESIA:

INDIAN OCEAN COAST OF JAWA

AUSTRALIA:

COCOS ISLANDS

THREE HOURS TO SIX HOURS

INDIA:

ARABIAN SEA COAST

MALDIVES:

ALL COASTS

BANGLADESH:

BENGAL BAY COAST

MYANMAR:

BENGAL BAY COAST

ANDAMAN SEA COAST

MALAYSIA:

MALACCA COAST

INDONESIA:

SOUTH COASTS OF LESSER SUNDA ISLANDS

ARAFURA SEA COAST FROM LETI ISLANDS TO IRIAN JAYA

EAST TIMOR:

TIMOR SEA COAST

AUSTRALIA:

NORTHWEST COAST AND WEST COAST

UNITED KINGDOM:

CHAGOS ARCHIPELAGO

SIX HOURS TO NINE HOURS

COMOROS:

ALL COASTS

FRANCE:

MAYOTTE ISLAND

REUNION ISLAND

CROZET ISLANDS

AMSTERDAM ISLAND AND ST-PAUL

MADAGASCAR:

ALL COASTS

SEYCHELLES:

ALL COASTS
 MAURITIUS:
 ALL COASTS
 MOZAMBIQUE:
 ALL COASTS
 TANZANIA:
 ALL COASTS
 KENYA:
 ALL COASTS
 SOMALI :
 INDIAN OCEAN COAST
 GULF COAST
 YEMEN:
 GULF COAST
 OMAN:
 ARABIAN SEA COAST
 GULF COAST
 UAE:
 GULF COAST
 IRAN:
 GULF COAST
 PAKI STAN:
 ARABIAN SEA COAST
 AUSTRALIA:
 COASTS FROM THE GULF OF CARPENTARIA TO THE ARAFURA SEA
 NINE HOURS TO TWELVE HOURS
 SOUTH AFRICA:
 INDIAN OCEAN COAST
 FRANCE:
 KERGUELEN
 DJIBOUTI :
 GULF COAST
 TWELVE HOURS OR MORE
 SINGAPORE:
 MALACCA COAST

*TSUNAMI TRAVEL TIME IS ESTIMATED ONLY FROM EARTHQUAKE DATA AND INDICATES THE TIME LAPSE BETWEEN ORIGIN TIME AND TSUNAMI ARRIVAL TIME.

*THIS WILL BE THE FINAL INFORMATION UNLESS THERE ARE CHANGES ABOUT THE POTENTIAL OF TSUNAMI GENERATION AND ESTIMATED TSUNAMI TRAVEL TIME BY RE-EVALUATION OF THE EARTHQUAKE OR THERE ARE REPORTS ON TSUNAMI OBSERVATIONS.

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TSUNAMI BULLETIN NUMBER 002
ISSUED BY THE JAPAN METEOROLOGICAL AGENCY (JMA)
ISSUED AT 0150 12 OCT 2011 (UTC)

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

1. EARTHQUAKE INFORMATION

ORIGIN TIME : 0100 12 OCT 2011 (UTC)
COORDINATES : 3.3 NORTH 95.9 EAST
LOCATION : OFF WEST COAST OF NORTHERN SUMATRA, INDONESIA
MAGNITUDE : 9.2

2. EVALUATION

THERE IS A POSSIBILITY OF A DESTRUCTIVE OCEAN-WIDE
TSUNAMI IN THE INDIAN OCEAN.

3. ESTIMATED TSUNAMI TRAVEL TIME

ONE HOUR OR LESS

INDIA:

ALL COASTS OF ANDAMAN AND NICOBAR ISLANDS

THAILAND:

MALACCA COAST

INDONESIA:

INDIAN OCEAN COAST OF SUMATRA

MALACCA COAST OF SUMATRA

ONE HOUR TO THREE HOURS

INDIA:

BENGAL BAY COAST

MALDIVES:

ALL COASTS

SRI LANKA:

ALL COASTS

MALAYSIA:

MALACCA COAST

INDONESIA:

INDIAN OCEAN COAST OF JAWA

AUSTRALIA:

COCOS ISLANDS

THREE HOURS TO SIX HOURS

FRANCE:

AMSTERDAM ISLAND AND ST-PAUL

MAURITIUS:

ALL COASTS

INDIA:

ARABIAN SEA COAST

BANGLADESH:

BENGAL BAY COAST

MYANMAR:

BENGAL BAY COAST

ANDAMAN SEA COAST

INDONESIA:

SOUTH COASTS OF LESSER SUNDA ISLANDS

ARAFURA SEA COAST FROM LETI ISLANDS TO IRIAN JAYA

EAST TIMOR:

TIMOR SEA COAST

AUSTRALIA:

NORTHWEST COAST AND WEST COAST

UNITED KINGDOM:

CHAGOS ARCHIPELAGO

SIX HOURS TO NINE HOURS

COMOROS:

ALL COASTS

FRANCE:

MAYOTTE ISLAND

REUNION ISLAND

CROZET ISLANDS

MADAGASCAR:

ALL COASTS

SEYCHELLES:

ALL COASTS
 MOZAMBIQUE:
 ALL COASTS
 TANZANIA:
 ALL COASTS
 KENYA:
 ALL COASTS
 SOMALI :
 INDIAN OCEAN COAST
 GULF COAST
 YEMEN:
 GULF COAST
 OMAN:
 ARABIAN SEA COAST
 GULF COAST
 UAE:
 GULF COAST
 IRAN:
 GULF COAST
 PAKISTAN:
 ARABIAN SEA COAST
 AUSTRALIA:
 COASTS FROM THE GULF OF CARPENTARIA TO THE ARAFURA SEA
 NINE HOURS TO TWELVE HOURS
 SOUTH AFRICA:
 INDIAN OCEAN COAST
 FRANCE:
 KERGUELEN
 DJIBOUTI :
 GULF COAST
 TWELVE HOURS OR MORE
 SINGAPORE:
 MALACCA COAST

4. OBSERVATIONS ON MAXIMUM TSUNAMI WAVE

LOCATION	COORDINATES	ARRIVAL TIME	AMPL
-----	-----	-----	----
SABANG	05.8N 095.3E	0125Z 12 OCT	4.0M

*TSUNAMI TRAVEL TIME IS ESTIMATED ONLY FROM EARTHQUAKE DATA AND INDICATES THE TIME LAPSE BETWEEN ORIGIN TIME AND TSUNAMI ARRIVAL TIME.

*THIS WILL BE THE FINAL INFORMATION UNLESS THERE ARE CHANGES ABOUT THE POTENTIAL OF TSUNAMI GENERATION AND ESTIMATED TSUNAMI TRAVEL TIME BY RE-EVALUATION OF THE EARTHQUAKE OR THERE ARE REPORTS ON TSUNAMI OBSERVATIONS.

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TSUNAMI BULLETIN NUMBER 003
ISSUED BY THE JAPAN METEOROLOGICAL AGENCY (JMA)
ISSUED AT 0300 12 OCT 2011 (UTC)

... AN INDIAN-OCEAN-WIDE TSUNAMI WATCH IS IN EFFECT ...

1. EARTHQUAKE INFORMATION

ORIGIN TIME : 0100 12 OCT 2011 (UTC)
COORDINATES : 3.3 NORTH 95.9 EAST
LOCATION : OFF WEST COAST OF NORTHERN SUMATRA, INDONESIA
MAGNITUDE : 9.2

2. EVALUATION

THERE IS A POSSIBILITY OF A DESTRUCTIVE OCEAN-WIDE
TSUNAMI IN THE INDIAN OCEAN.

3. ESTIMATED TSUNAMI TRAVEL TIME

ONE HOUR OR LESS

INDIA:

ALL COASTS OF ANDAMAN AND NICOBAR ISLANDS

THAILAND:

MALACCA COAST

INDONESIA:

INDIAN OCEAN COAST OF SUMATRA

MALACCA COAST OF SUMATRA

ONE HOUR TO THREE HOURS

INDIA:

BENGAL BAY COAST

MALDIVES:

ALL COASTS

SRI LANKA:

ALL COASTS

MALAYSIA:

MALACCA COAST

INDONESIA:

INDIAN OCEAN COAST OF JAWA

AUSTRALIA:

COCOS ISLANDS

THREE HOURS TO SIX HOURS

FRANCE:

AMSTERDAM ISLAND AND ST-PAUL

MAURITIUS:

ALL COASTS

INDIA:

ARABIAN SEA COAST

BANGLADESH:

BENGAL BAY COAST

MYANMAR:

BENGAL BAY COAST

ANDAMAN SEA COAST

INDONESIA:

SOUTH COASTS OF LESSER SUNDA ISLANDS

ARAFURA SEA COAST FROM LETI ISLANDS TO IRIAN JAYA

EAST TIMOR:

TIMOR SEA COAST

AUSTRALIA:

NORTHWEST COAST AND WEST COAST

UNITED KINGDOM:

CHAGOS ARCHIPELAGO

SIX HOURS TO NINE HOURS

COMOROS:

ALL COASTS

FRANCE:

MAYOTTE ISLAND

REUNION ISLAND

CROZET ISLANDS

MADAGASCAR:

ALL COASTS

SEYCHELLES:

ALL COASTS
 MOZAMBIQUE:
 ALL COASTS
 TANZANIA:
 ALL COASTS
 KENYA:
 ALL COASTS
 SOMALI :
 INDIAN OCEAN COAST
 GULF COAST
 YEMEN:
 GULF COAST
 OMAN:
 ARABIAN SEA COAST
 GULF COAST
 UAE:
 GULF COAST
 IRAN:
 GULF COAST
 PAKISTAN:
 ARABIAN SEA COAST
 AUSTRALIA:
 COASTS FROM THE GULF OF CARPENTARIA TO THE ARAFURA SEA
 NINE HOURS TO TWELVE HOURS
 SOUTH AFRICA:
 INDIAN OCEAN COAST
 FRANCE:
 KERGUELEN
 DJIBOUTI :
 GULF COAST
 TWELVE HOURS OR MORE
 SINGAPORE:
 MALACCA COAST

4. OBSERVATIONS ON MAXIMUM TSUNAMI WAVE

LOCATION	COORDINATES	ARRIVAL TIME	AMPL
SITTWE	20. 2N 092. 9E	0248Z 12 OCT	1. 0M
MOULMEIN	16. 5N 097. 6E	0254Z 12 OCT	2. 5M
KO MIANG	08. 6N 097. 6E	0230Z 12 OCT	4. 0M
SABANG	05. 8N 095. 3E	0125Z 12 OCT	4. 0M
SIBOLGA	01. 7N 098. 8E	0255Z 12 OCT	0. 4M
PADANG	01. 0S 100. 4E	0255Z 12 OCT	0. 6M
TRINCONMALEE	08. 6N 081. 2E	0254Z 12 OCT	4. 0M

AMPL -- AMPLITUDE IN METERS OF HALF OF THE CREST TO TROUGH

*TSUNAMI TRAVEL TIME IS ESTIMATED ONLY FROM EARTHQUAKE DATA AND INDICATES THE TIME LAPSE BETWEEN ORIGIN TIME AND TSUNAMI ARRIVAL TIME.

*THIS WILL BE THE FINAL INFORMATION UNLESS THERE ARE CHANGES ABOUT THE POTENTIAL OF TSUNAMI GENERATION AND ESTIMATED TSUNAMI TRAVEL TIME BY RE-EVALUATION OF THE EARTHQUAKE OR THERE ARE REPORTS ON TSUNAMI OBSERVATIONS.

APPENDIX IV. SAMPLE PRESS RELEASE

TEMPLATE FOR NEWS RELEASE USE AGENCY LETTERHEAD

Contact: *(insert name)* **FOR IMMEDIATE RELEASE** *(insert phone number)* *(insert date)*
(insert email address)

INDIAN OCEAN-WIDE TSUNAMI EXERCISE SET FOR OCTOBER

(insert country name) will join over 20 other countries around the Indian Ocean Rim as a participant in a mock tsunami scenario on 12th October 2011. The purpose of this Indian Ocean-wide exercise is to increase preparedness, evaluate response capabilities in each country and improve coordination throughout the region.

“The 2004 Indian Ocean tsunami and subsequent events in the Indian and Pacific Oceans have brought to the attention of the world the urgent need to be more prepared for such events,” said *(insert name of appropriate official)*. “This important exercise will test the current procedures of the Indian Ocean Tsunami Warning and Mitigation System and help identify operational strengths and weaknesses in each country.”

The exercise, titled Exercise Indian Ocean Wave 2011 (IOWave11), will simulate Indian Ocean countries being put into a Tsunami Warning situation requiring government decision-making. It builds on the first Indian Ocean exercise conducted in 2009 (IOWave09) *and on prior national tsunami warning drill carried out in (dates) (delete if not applicable)*.

Following the IOWave11 exercise, the Indian Ocean Regional Tsunami Service Providers (RTSPs) will commence operations, while the Interim Advisory Service (IAS) provided by the Japan Meteorological Agency (JMA) and the Pacific Tsunami Warning Center (PTWC) since 2005 will continue to operate a parallel service.

The exercise can be divided into two stages. In the first stage, a destructive tsunami crossing the Indian Ocean from an earthquake source near Aceh-Sumatra will be simulated by international notifications from the RTSPs of Australia, India and Indonesia and the Regional Integrated Multi-hazard Early Warning System (RIMES) to designated Tsunami Warning Focal Points in each country. The IAS providers, Japan Meteorological Agency (JMA) and Pacific Tsunami Warning Center (PTWC) will also transmit exercise bulletins.

In the second stage, conducted simultaneously in response to receipt of the international messages and any national tsunami detection, analysis, and forecasting capabilities, government officials will simulate decision-making and alerting procedures down to the last step before public notification. *Notification of emergency management and response authorities for a single coastal community will be used as a measure of the end-to end process for purposes of this exercise. Due care will be taken to ensure the public is not inadvertently alarmed. (delete if not applicable)*

Insert paragraph tailored for specific country. Could identify participating agencies and specific plans. Could describe current early warning programme, past evacuation drills (if any), ongoing mitigation and public education programmes, etc. Could describe tsunami threat, history of tsunami hazards, if any.

Should any actual tsunami threat occur during the time period of the exercise, 12 October 2011, the drill will be terminated.

Following the exercise, a review and evaluation will be conducted by all participating countries and agencies.

“We see this exercise as an essential element in the routine maintenance of the Indian Ocean Tsunami Warning and Mitigation System,” said *(insert name of appropriate official)*. “Our goal is to ensure the timely and effective early warning of tsunamis, to educate communities at risk about safety preparedness, and to improve our overall coordination. We will evaluate what works well, where improvements are needed, make necessary changes, and continue to practice.”

The exercise is in the Work Plan of the Intergovernmental Coordination Group of the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS). ICG/IOTWS is a body of UNESCO’s Intergovernmental Oceanographic Commission.

IOWAVE11 Information: <http://www.ioc-unesco.org/iowave11>.

APPENDIX V. POST EXERCISE EVALUATION

EXERCISE OBJECTIVES

There are six core objectives of the exercise:

1. Validate the Regional Tsunami Service Providers, RIMES and Interim Advisory Services providers' dissemination process of issuing Tsunami Bulletins to Indian Ocean countries.
2. Validate the Standard Operating Procedures for countries receiving and confirming Tsunami Bulletins through their designated Tsunami Watch Focal Points (TWFPs).
3. Validate Standard Operating Procedures for dissemination of warning messages to relevant Agencies within a country, provinces and local jurisdictions.
4. Validate the national level organizational decision making process about public warnings and evacuations.
5. Identify the methods that would be employed to notify and instruct the public.
6. Assess the elapsed time until public would be notified and instructed.

EXERCISE SUCCESS CRITERIA

The exercise will be a success when:

- The core objectives above were exercised, performance evaluated and reported upon.
- The dynamics between the National Tsunami Warning Centres, Tsunami Warning Focal Points and information dissemination points within countries at the onset of a tsunami event are tested and understood.
- Areas where aspects of warnings for a tsunami event can be improved are identified, both for tsunami warning centres and individual countries.
- It supports the establishment or review of planning for response to tsunamis at national and regional/local levels.

EVALUATING PARTICIPANT PERFORMANCE

Evaluation is based on:

- (a) Reporting on each of the core objectives described above.
- (b) Specific measurable sub-objectives for some of the core objectives.

Participants must fill in all reports and score each sub-objective, fill in detail where requested and make any comments in the spaces provided on the attached forms.

Separate forms are designed and marked for:

1) National Tsunami Warning Centres (only Objectives 1, 2, 3 and 5). Each NTWC is also requested to complete a Communications Test Log during the test, recording:

- the arrival times of RTSP and RIMES notification messages at their NTWC,
- how the messages arrived (GTS, email, fax, SMS),
- whether or not the NTWC was able to access the updated bulletin messages on the RTSP and RIMES websites, and

- whether or not the NTWC was able to report its national warning status via the web-based report form.

2) Tsunami Emergency Response agencies and/or provinces/local jurisdictions within countries. These are the recipients of warnings disseminated from the national decision making/dissemination points (Objectives 3-6).

Please fill in only those forms that are relevant to your particular circumstances.

The score rating for sub-objectives is as follows:

Rating	Definition
1	Did not meet the objectives (state why not)
2	Met some of the objectives (state what part was not met)
3	Met the objectives
4	Exceeded the objectives (state how)

EVALUATION FORMS

The following pages contain the exercise evaluation forms to be filled out by the appropriate organisations after IOWave11 and returned by 31st October 2011 to the ICG/IOTWS Secretariat (Email: iotws@unesco.org, Fax: +61 8 9226 0599)

EVALUATION FORMS FOR

NATIONAL TSUNAMI WARNING CENTRES

Objectives:

- 1.** Validate the Regional Tsunami Service Providers, RIMES and Interim Advisory Services providers' dissemination process of issuing Tsunami Bulletins to Indian Ocean countries.
- 2.** Validate the Standard Operating Procedures for countries receiving and confirming Tsunami Bulletins through their designated Tsunami Watch Focal Points (TWFPs).
- 3.** Validate dissemination of the warning message to relevant agencies within a country, provinces and local jurisdictions.

Optional:

- 5.** Identify the modes that would be employed to notify and instruct the public (*answer only if the NTWC has responsibility for this*)
- 6.** Assess the elapsed time until the public would be notified and instructed (*answer only if the NTWC has responsibility for this*)

Country: _____

Agency/Authority: _____

Exercise Planning and Conduct

The exercise planning, conduct, format, and style were satisfactory.

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 1:

Validate the Regional Tsunami Service Providers, RIMES and Interim Advisory Services providers' dissemination process of issuing Tsunami Bulletins to Indian Ocean countries.

Country: _____

Agency/Authority: _____

1 (a) Judged against the nature of this event, information issued by the Regional Tsunami Service Provider(s), RIMES and Interim Advisory Service was timely:

Circle/Highlight score: 1 2 3 4

1 (b) The method(s) used by the Tsunami Warning Centre(s) to send bulletins to us were appropriate.

Circle/Highlight score: 1 2 3 4

Remarks/suggestions:

OBJECTIVE 2:

Validate the Standard Operating Procedures for countries receiving and confirming Tsunami Bulletins through their designated Tsunami Watch Focal Points (TWFPs)

Country: _____

Agency/Authority: _____

Receipt of Warning from the Regional Tsunami Service Providers, RIMES and the Interim Advisory Service Providers

Country: _____

NAME OF NTWC: _____

RTSP INDIA Messages

Message	Time Received (UTC)	How Received	RTSP India Website Accessible? (Y/N)	Able to report NTWC Status via web?	Comments
0100 UTC Earthquake occurs		GTS			
		Fax			
		Email			
		SMS			
0105 UTC Bulletin 1		GTS			
		Fax			
		Email			
		SMS			
0110 UTC Bulletin 2		GTS			
		Fax			
		Email			
		SMS			
0140 UTC Bulletin 3		GTS			
		Fax			
		Email			
		SMS			
0200 UTC Bulletin 4		GTS			
		Fax			
		Email			
		SMS			
0300 UTC Bulletin 5		GTS			
		Fax			
		Email			
		SMS			
0400 UTC Bulletin 6		GTS			
		Fax			
		Email			
		SMS			
0500 UTC Bulletin 7		GTS			
		Fax			
		Email			
		SMS			
0600 UTC Bulletin 8		GTS			
		Fax			

		Email			
		SMS			
0700 UTC Bulletin 9		GTS			
		Fax			
		Email			
		SMS			
		GTS			
0800 UTC Bulletin 10		Fax			
		Email			
		SMS			
		GTS			
0900 UTC Bulletin 11		Fax			
		Email			
		SMS			
		GTS			
1000 UTC Bulletin 12		Fax			
		Email			
		SMS			
		GTS			
1100 UTC Bulletin 13		Fax			
		Email			
		SMS			
		GTS			
1200 UTC Bulletin 14		Fax			
		Email			
		SMS			
		GTS			
1300 UTC Bulletin 15		Fax			
		Email			
		SMS			
		GTS			

NAME OF NTWC: _____

RTSP INDONESIA Messages

Message	Time Received (UTC)	How Received	RTSP Indonesia Website Accessible? (Y/N)	Able to report NTWC Status via web?	Comments
0100 UTC Earthquake occurs		GTS			
		Fax			
		Email			
		SMS			
0105 UTC Bulletin 1		GTS			
		Fax			
		Email			
		SMS			
0110 UTC Bulletin 2		GTS			
		Fax			
		Email			
		SMS			
0145 UTC Bulletin 3		GTS			
		Fax			
		Email			
		SMS			
0245 UTC Bulletin 4		GTS			
		Fax			
		Email			
		SMS			
0345 UTC Bulletin 5		GTS			
		Fax			
		Email			
		SMS			
0445 UTC Bulletin 6		GTS			
		Fax			
		Email			
		SMS			
0545 UTC Bulletin 7		GTS			
		Fax			
		Email			
		SMS			
0645 UTC Bulletin 8		GTS			
		Fax			
		Email			
		SMS			
0745 UTC Bulletin 9		GTS			
		Fax			
		Email			
		SMS			
0945 UTC Bulletin 10		GTS			
		Fax			
		Email			
		SMS			
1145 UTC Bulletin 11		GTS			
		Fax			

		Email			
		SMS			
1300 UTC Bulletin 12		GTS			
		Fax			
		Email			
		SMS			

NAME OF NTWC: _____

RTSP AUSTRALIA Messages

Message	Time Received (UTC)	How Received	RTSP Australia Website Accessible? (Y/N)	Able to report NTWC Status via web?	Comments
0100 UTC Earthquake occurs		GTS			
		Fax			
		Email			
		SMS			
0105 UTC Bulletin 1		GTS			
		Fax			
		Email			
		SMS			
0112 UTC Bulletin 2		GTS			
		Fax			
		Email			
		SMS			
0145 UTC Bulletin 3		GTS			
		Fax			
		Email			
		SMS			
0150 UTC Bulletin 4		GTS			
		Fax			
		Email			
		SMS			
0300 UTC Bulletin 5		GTS			
		Fax			
		Email			
		SMS			
0400 UTC Bulletin 6		GTS			
		Fax			
		Email			
		SMS			
0500 UTC Bulletin 7		GTS			
		Fax			
		Email			
		SMS			
0600 UTC Bulletin 8		GTS			
		Fax			
		Email			
		SMS			
0700 UTC Bulletin 9		GTS			
		Fax			
		Email			
		SMS			
0800 UTC Bulletin 10		GTS			
		Fax			
		Email			
		SMS			
0900 UTC Bulletin 11		GTS			
		Fax			

IOWAVE 11 EXERCISE EVALUATION FORM

		Email			
		SMS			
1000 UTC Bulletin 12		GTS			
		Fax			
		Email			
		SMS			
1100 UTC Bulletin 13		GTS			
		Fax			
		Email			
		SMS			
1200 UTC Bulletin 14		GTS			
		Fax			
		Email			
		SMS			

NAME OF NTWC: _____

RIMES Messages

Message	Time Received (UTC)	How Received	RIMES Website Accessible? (Y/N)	Able to report NTWC Status via web?	Comments
0100 UTC Earthquake occurs		GTS			
		Fax			
		Email			
		SMS			
0105 UTC Bulletin 1		GTS			
		Fax			
		Email			
		SMS			
0112 UTC Bulletin 2		GTS			
		Fax			
		Email			
		SMS			
0143 UTC Bulletin 3		GTS			
		Fax			
		Email			
		SMS			
0243 UTC Bulletin 4		GTS			
		Fax			
		Email			
		SMS			
0343 UTC Bulletin 5		GTS			
		Fax			
		Email			
		SMS			
0443 UTC Bulletin 6		GTS			
		Fax			
		Email			
		SMS			
0543 UTC Bulletin 7		GTS			
		Fax			
		Email			
		SMS			
0643 UTC Bulletin 8		GTS			
		Fax			
		Email			
		SMS			
0743 UTC Bulletin 9		GTS			
		Fax			
		Email			
		SMS			
0943 UTC Bulletin 10		GTS			
		Fax			
		Email			
		SMS			
1043 UTC Bulletin 11		GTS			
		Fax			
		Email			

		SMS			
1200 UTC Bulletin 12		GTS			
		Fax			
		Email			
		SMS			

NAME OF NTWC: _____

Pacific Tsunami Warning Center (PTWC) Messages

Message	Time Received (UTC)	How Received	Comments
0100 UTC Earthquake occurs		GTS	
		Fax	
		Email	
0115 UTC Bulletin 1		GTS	
		Fax	
		Email	
0145 UTC Bulletin 2		GTS	
		Fax	
		Email	
0245 UTC Bulletin 3		GTS	
		Fax	
		Email	
0345 UTC Bulletin 4		GTS	
		Fax	
		Email	
0445 UTC Bulletin 5		GTS	
		Fax	
		Email	
0545 UTC Bulletin 6		GTS	
		Fax	
		Email	
0645 UTC Bulletin 7		GTS	
		Fax	
		Email	
0745 UTC Bulletin 8		GTS	
		Fax	
		Email	
0845 UTC Bulletin 9		GTS	
		Fax	
		Email	
0945 UTC Bulletin 10		GTS	
		Fax	
		Email	
1045 UTC Bulletin 11		GTS	
		Fax	
		Email	
1100 UTC Bulletin 12		GTS	
		Fax	
		Email	

NAME OF NTWC:

Japan Meteorological Agency (JMA) Messages

Message	Time Received (UTC)	How Received	Comments
0100 UTC Earthquake occurs		GTS	
		Fax	
		Email	
0120 UTC Bulletin 1		GTS	
		Fax	
		Email	
0150 UTC Bulletin 2		GTS	
		Fax	
		Email	
0300 UTC Bulletin 3		GTS	
		Fax	
		Email	

OBJECTIVE 3:

Validate dissemination of the warning message to relevant agencies within a country, provinces and local jurisdictions.

Country: _____

Agency/Authority: _____

Dissemination of Warning

Dissemination Points

	Time warning sent (UTC)	Method of delivery	Number of failed deliveries	Reasons for failed deliveries	Alternate action taken
Emergency Services					
Other national government agencies					
Science agencies/universities for assessment					
Local government: provincial/regional level					
Local government: city/district level					

Confirmations

	Method of confirming receipt	Time confirmation received (UTC)	Number of non confirmations	Reasons for non confirmation	Alternate action taken
Emergency Services					
Other national government agencies					
Science agencies/universities for assessment					
Local government: provincial/regional level					
Local government: city/district level					

OBJECTIVE 5:

Identify the modes that would be employed to notify and instruct the public
(answer only if the NTWC has responsibility for this).

Country: _____

Agency/Authority: _____

As part of our decision-making during this exercise we have determined to use the following means of public notification and instruction in a real event of this kind:

Method	Yes/No	Arrangements Exist (yes/no)
Public radio broadcasts		
TV announcements/teletext		
Public announcement systems		
Cell broadcast		
SMS (cell)		
Public call centre		
Website		
Telephone		
Sirens		
Door to door announcements		
Other (specify)		
Email		

OBJECTIVE 6:

Assess the elapsed time until the public would be notified and instructed
(answer only if the NTWC has responsibility for this).

Country: _____

Agency/Authority: _____

The following times applied to us:

Activity	Elapsed Time (e.g. 1hr 15mins)
Making a decision on public warning (From time of receipt of warning)	
Formulation/compilation of public notification (From time of decision)	
Activation of public notification systems (From time of notification formulated)	
Total Time	

EVALUATION FORMS FOR

TSUNAMI EMERGENCY RESPONSE

AGENCIES

Objectives:

- 3.** Validate dissemination of the warning message to relevant agencies within a country, provinces and local jurisdictions.
- 4.** Validate the organizational decision making process about public warnings and evacuations.
- 5.** Identify the modes that would be employed to notify and instruct the public.
- 6.** Assess the elapsed time until the public would be notified and instructed

Country: _____

Agency/Authority: _____

Exercise Planning and Conduct

The exercise planning, conduct, format, and style were satisfactory.

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 3:

Validate dissemination of the warning message to relevant agencies within a country, provinces and local jurisdictions.

Country: _____

Agency/Authority: _____

Dissemination of Warning

Dissemination Points

	Time warning sent (UTC)	Method of delivery	Number of failed deliveries	Reasons for failed deliveries	Alternate action taken
Emergency Services					
Other national government agencies					
Science agencies/universities for assessment					
Local government: provincial/regional level					
Local government: city/district level					

Confirmations

	Method of confirming receipt	Time confirmation received (UTC)	Number of non confirmations	Reasons for non confirmation	Alternate action taken
Emergency Services					
Other national government agencies					
Science agencies/universities for assessment					
Local government: provincial/regional level					
Local government: city/district level					

OBJECTIVE 3 (cont.):

Validate dissemination of the warning message to relevant agencies within a country, provinces and local jurisdictions.

Country: _____

Agency/Authority: _____

3 (a): Judged against the nature of this event, information issued by our national decision-making and dissemination point was timely:

Circle/Highlight score: 1 2 3 4

3 (b):The method of communication from our national decision-making and dissemination point to us was sufficient to support decision-making:

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

4 (a): The method of communication between our national decision-making and dissemination point and individual response agencies and provinces/local jurisdictions was sufficient to support our national information requirements.

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

4 (b): Arrangements to assemble our management group relevant to decision-making on tsunami warning and response were in place before the exercise.

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

.
4 (c):Our management group relevant to decision-making on tsunami warning & response was assembled within **X** minutes (fill in) after receiving the first warning. This was timely to facilitate good decision-making.

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

4 (d): The quality of the information issued by our national decision-making and dissemination point was sufficient to support local level decision-making:

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

4 (e): The quality of the information received back from our response agencies and local level government were sufficient to support national level decision-making:

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

4 (f): Sufficient national information was available to support national level decision-making (Regional Tsunami Service Provider information, country-generated scientific assessments, national considerations etc):

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

4 (g): Sufficient local information was available to support our assessment and decision-making (local hazard assessments, inundation areas identified, evacuation plans etc).

Circle/Highlight score: 1 2 3 4

Remarks/suggestions

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

4 (h): We were able to make decisions about appropriate warnings and response

Circle/Highlight score: 1 2 3 4

Remarks/suggestions:

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

4 (i): Decision-making was based on pre-existing plans for an event of this nature.

Circle/Highlight score: 1 2 3 4

Remarks/suggestions:

OBJECTIVE 4:

Validate the organizational decision making process about public warnings and evacuations.

Country: _____

Agency/Authority: _____

4 (j):The exercise contributed to the improvement or the development of planning related to public warnings and other response activities required for an event of this nature.

Circle/Highlight score: 1 2 3 4

Remarks/suggestions:

OBJECTIVE 5:

Identify the modes that would be employed to notify and instruct the public.

Country: _____

Agency/Authority: _____

As part of our decision-making during this exercise we have determined to use the following means of public notification and instruction in a real event of this kind:

Method	Yes/No	Arrangements Exist (yes/no)
Public radio broadcasts		
TV announcements/teletext		
Public announcement systems		
Cell broadcast		
SMS (cell)		
Public call centre		
Website		
Telephone		
Sirens		
Door to door announcements		
Other (specify)		
Email		

OBJECTIVE 6:

Assess the elapsed time until the public would be notified and instructed

Country: _____

Agency/Authority: _____

The following times applied to us:

Activity	Elapsed Time (e.g. 1hr 15mins)
Making a decision on public warning (From time of receipt of warning)	
Formulation/compilation of public notification (From time of decision)	
Activation of public notification systems (From time of notification formulated)	
Total Time	