

unesco

Intergovernmental Oceanographic Commission

TSP INDIA Products Demonstration

J Padmanabham TSP India

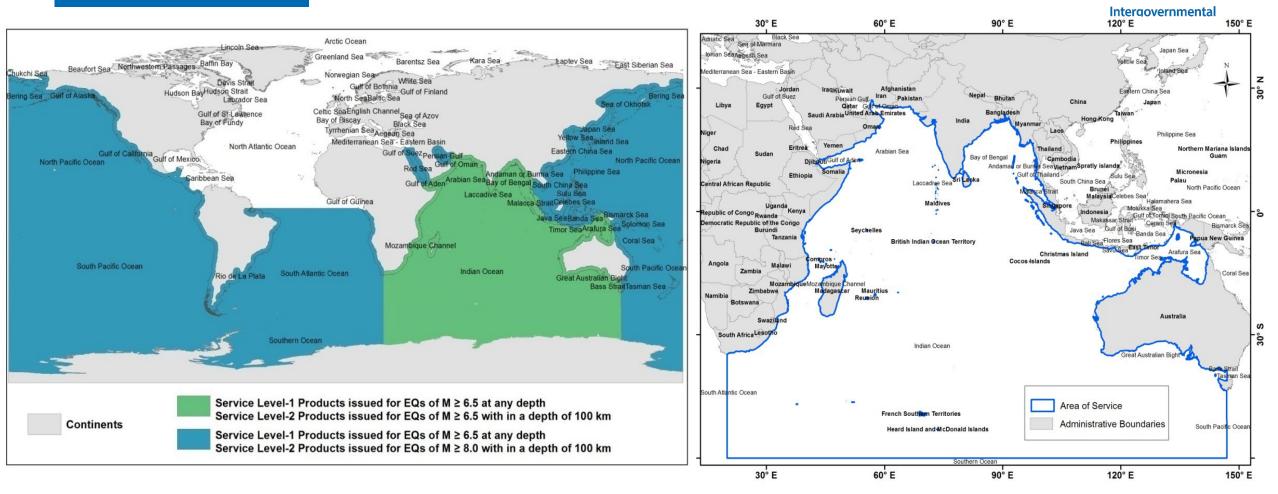
padmanabham@incois.gov.in

Intergovernmental Coordination Group for Indian Ocean Tsunami Warning & Mitigation System (ICG/IOTWMS) North-Western Indian Ocean Member States Training Workshop: Review Standard Operating Procedures (SOPs) and Tsunami Service Provider (TSP) Products in Preparation for Exercise IOWave23 7 – 8 August 2023

IOTWMS Earthquake Source zone and Area of Service







Commencement of TSP bulletins



Issue SL-I (earthquake information) bulletin for all IOTWMS Earthquake Source Zone (Indian Ocean, Pacific Ocean, South Atlantic)events of magnitude ≥ 6.5

□ SL-2 (threat assessment) bulletins

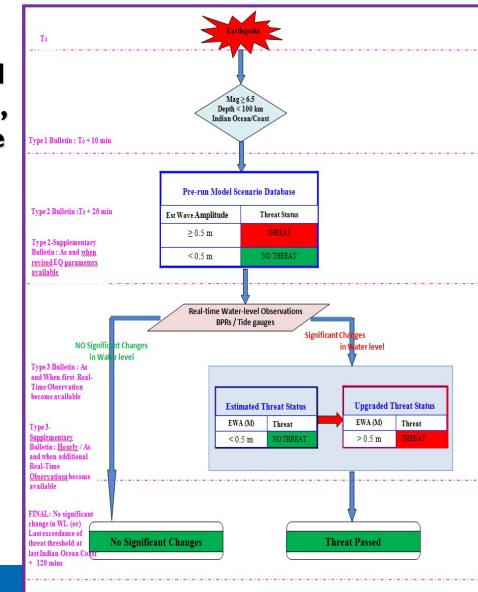
 $M \ge 6.5$ in the Indian Ocean

[or]

$M \geq 8.0$ in the Pacific and South Atlantic Oceans

[or]

Any tsunamigenic event that may have probability to generate tsunami in the Indian Ocean Basin





Home / Seismic/Tsunami Events

Seismic Activity for past 90 days with magnitude ≥ 6.5M



- Notification Messages are issued in text format via Email, SMS, FAX and GTS
- Bulletins are generated in both text and HTML formats on the websites
- Graphics are generated in jpg or png format on the websites

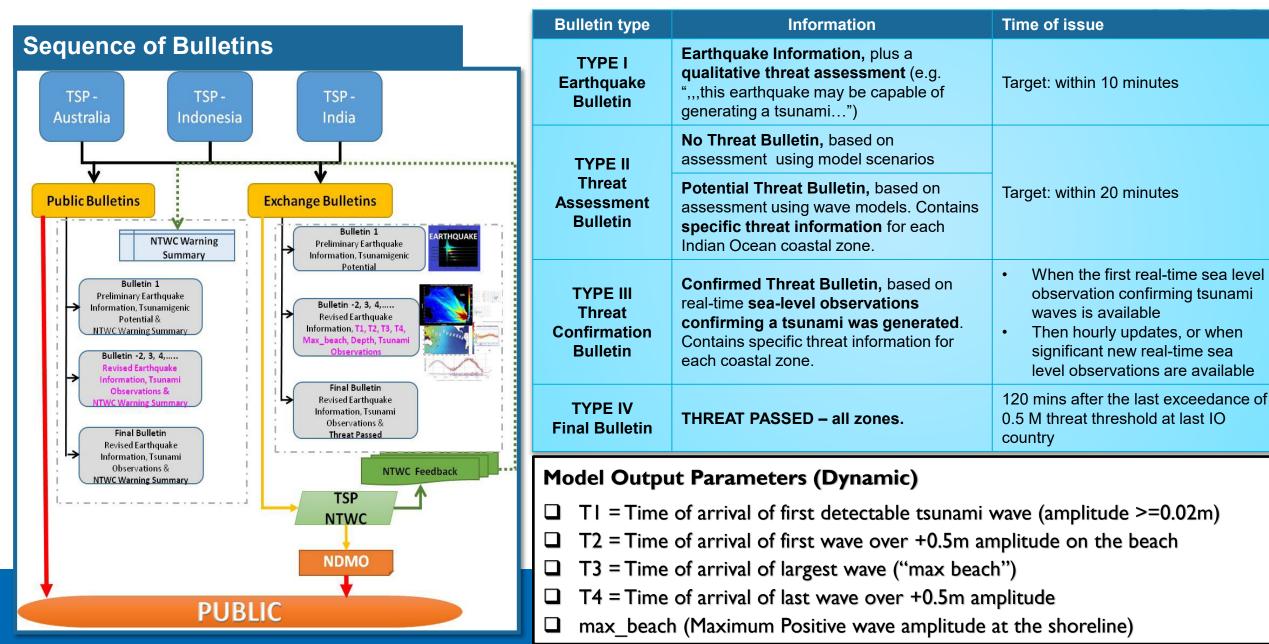
Website URLs to access the TSP-INDIA Products
TSP-INDIA Website :
https://tsunami.incois.gov.in/TEV/S/TSP
For IOTWMS Communication Test:
https://tsunami.incois.gov.in/TEV/S/commreg.jsp
For IOTWMS – NTWC Feedback Summary
Page:
https://tsunami.incois.gov.in/TEV/S/commreg.jsp
I For IOTWMS – NTWC Feedback Summary
Page:
https://tsunami.incois.gov.in/TEV/S/NTWCStatusS
Ummary.jsp
INTWC WARNING STATUS REPORTING
FORM:

https://tsunami.incois.gov.in/TEWS/NTWCReporti ngForm.jsp

TSP-INDIA Website

Types of TSP Bulletins





Sample Product Formats

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INDIA

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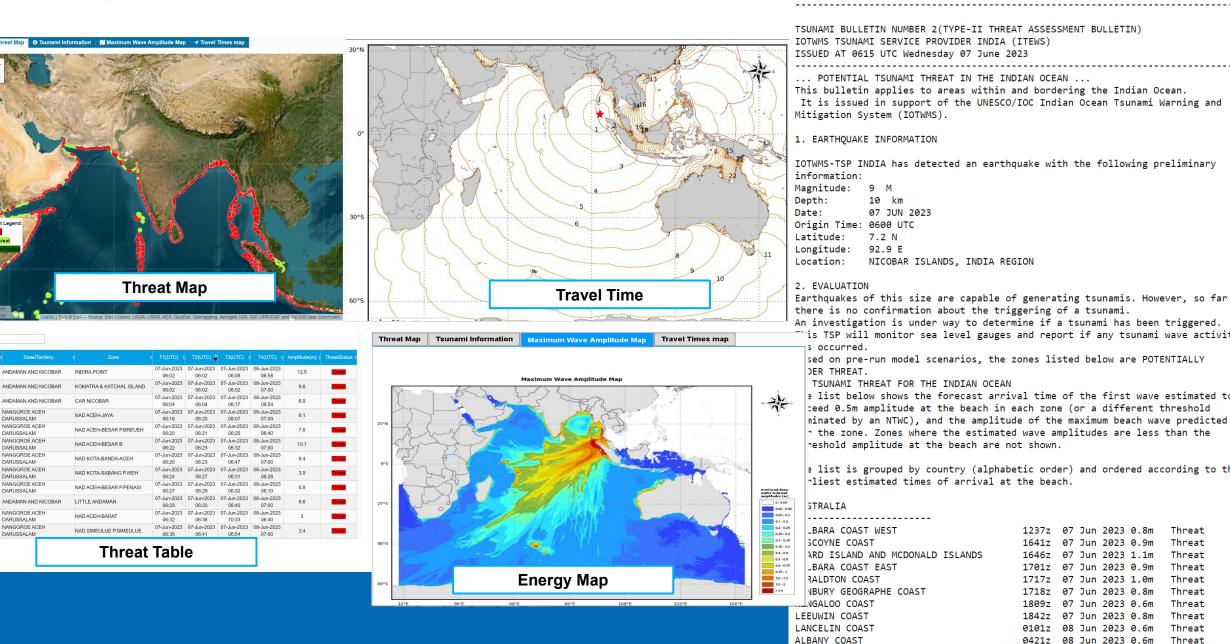
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IOTWMS COMMS TEST - NOT A REAL TSUNAMI EVENT



Sample Notification Messages

IOTWMS TSP-INDIA Notification (EqInfo) for 6	S caruiquane at ronga isidnus
i) This message has extra line breaks.	Notification Message (E-mail)
WEIO20 DEMS 021044	
TSUNAMI BULLETIN NOTIFICATION MESSAGE NUMBER 1	
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWC)	
ISSUED AT 1044 UTC SUNDAY 02 JULY 2023	
 TO: INDIAN OCEAN NATIONAL TSUNAMI WARNING CENTRES (NTW	(C)
FROM: IOTWMS-TSP INDIA	-1
NOTIFICATION:	
IOTWMS-TSP INDIA HAS JUST ISSUED TSUNAMI BULLETIN NUMBEI FOR THE INDIAN OCEAN, BASED ON THE FOLLOWING EARTHQUAK	
TOR THE INDIAN OCEAN, BASED ON THE FOLLOWING EARTHQUAR	
Magnitude : 6.5 M	
Depth : 243.0 km	
Date : 02 Jul 2023	
Origin Time: 1027 UTC	
Latitude : 17.79 S Longitude : 175.17 W	
Location : Tonga Islands	
TO VIEW THE BULLETIN GO TO THE IOTWMS-TSP INDIA WEBSITE A	
https://tsunami.incois.gov.in/TEWS/displaybulletinslatest.jsp?type	=TSP&eventId=incois2023mvig&aos=exchange&currBullNo=1&latestBullNo=1
NOTE: THIS IS A RESTRICTED-ACCESS WEBSITE CONTAINING TECHN	ΙζΑΙ ΠΑΤΑ
FOR INDIAN OCEAN NATIONAL TSUNAMI WARNING CENTRES ONLY	
FOR GENERAL PUBLIC ACCESS.	
GENERAL PUBLIC INFORMATION FOR THIS EVENT IS AVAILABLE FRO	DM:
INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)	
INDIAN NATIONAL CENTRE FOR OCEAN INFORMATION SERVICES (I	NCOIS)
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: https://tsunami.incois.gov.in/TEWS/TSP

END OF NOTIFICATION MESSAGE



Intergovernmenta Oceanographic Commission

SMS - Notification Message

INCOIS-TSP-INDIA BULLETIN 1 (EqInfo) Issued https:// tsunami.incois.gov.in EQ Auto OT= 1027 UTC 02 Jul 2023 LOC= -17.79 -175.17 Mag= 6.5 D= 243.0 km Tonga Islands

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Indian Tsunami Early Warning System INCOIS

Ministry of Earth Sciences - Government of India

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Type-I Exchange Bulletin

"Ocean Valley", Pragathi nagar(BO Nizampet(SO) Hyderabad-500090, Telangana.



	Home About TSP Archived Events COMMS TEST
	Home / TSP exchange Bulletins
 Mon. Jul 19 2023 11:48:51 1ST Mon. 19 Jul 2022 06:18:51 UTC Indian Tsunami Early Warning System Ministry of Earth Sciences - Government of India Mon. 129^N Archived Events Mon. 129^N Archived Events Mon. 129^N Archived Events Mon. 120^N Archived Events Mon. 129^N Archived Events Mon. 120^N Archived Events Mon. 120^N Archived Events 	Bulletin4 This bulletin applies to areas within and bordering the Indian Ocean. Bulletin3 It is issued by Tsunami Service Provider INDIA in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS). Bulletin2 "TEST TEST TEST TEST TEST TEST TEST TEST
Home / TSP exchange Bulletins Bulletins	Q Location Map ⊕ EarthQuake Information
Archived Bulkerins This bulkering species uses within and bordening the Indian Ocean. Bulkerins It is issued by Tsunami Service Provider INO the UNESCOLOC Indian Ocean. Table Julkering and Mitgation System (IOTWAS). Bulkerins "TEST EST ISST ISST ISST ISST ISST ISST I	EARTHQUAKE INFORMATION Magnitude : 9.0 M Depth : 10 km Origin Date : 010 m0203 Origin Time : 0600 UTC Longitude : 2.9 °E Longitude : 9.2 °E Location : Nocbar Islands, India Region
NTWC Feetback Summary C Location Map C Locat	EVALUATION Based on historical data and tsunami modelling, this earthquake may be capable of generating a tsunami affecting the Indian Ocean region. IOTWIMS-TSP INDIA will monitor sea level gauges near the earthquake to determine if a tsunami was generated and will issue further buildens for this event. Further information on this event will be available at: http://www.incois.gov/in/incois/tsunami/egevents/jsp
60'N 30'N	ADVICE ADVICE This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response. UPDATES Additional bulletins will be issued by IOTWIMS-TSP INDIA for this event as more information becomes available.
	CONTACT INFORMATION Indian Tsunami Early Warning Centre (ITEWC) Indian National Centre for Ocean Information Services (INCOIS) Address="Ocean Valley", Pragathi Nagar (BO), Nizampet (SO), Hyderabad -500 090, India
60'5 EQ Map	Tel: 91-40-23895011 Fax: 91-40-23895012 Email: tsunami@incois.gov/in Website: www.incois.gov/in
90'S	
180* 150'W 120'W 90'W 60'W 30'W 0' 30'E 60'E 90'E 120'E 150'E 180*	Follow us Quicklinks Contact Us
Follow us Quicklinks Contact Us f * a NAPIRSS Feeds Indian National Center for Ocean Information Aboutts Service:(INCOIS) Photo Calery Service:(INCOIS) Photo Calery	AP/IRSS Feeds Indian National Center for AboutUs Services(INCOIS) Photo Gallery "Ocean Valley", Pragathi nagar(BO), Nizampet(SO) Hyderabad-500090,

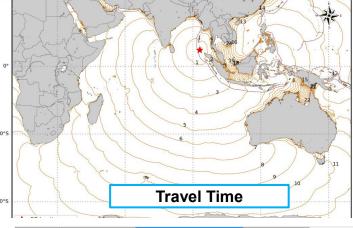
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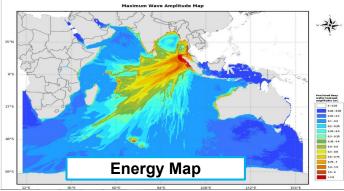
Type-II Exchange Bulletin (Potential Tsunami Threat Bulletin)







Threat Map Tsunami Information Maximum Wave Amplitude Map Travel Times map



		<u></u>		Indian Tsuna	ami Early Warnir	ng System	IJ	NCOIS		C
	F	ESSO		Ministry of	of Earth Sciences - Government of	India				
	Home	me About TSP	P Archived Events	COMMS TEST						
Home / TSP exchange Bull	letins									
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lletin3			It is issue	ed by Tsunami Service Provider	er INDIA in support of the UNESCO/IC	JC Indian Ocean Tsunami V	Warning and Mitigation Sy	ystem (IOTWMS).		
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Version					TSUNAMI BULLETIN					
					IOTWMS TSUNAMI SERVICE PF					
Status Reporting Form					ISSUED AT: 0615 UTC Wedr					
					*** TEST TEST TEST TEST TEST					
					POTENTIAL TSUNAMI THREAT	/ IN THE INDIAN OCEAN				
C Feedback Summary	9 Threat Map (9 Tst	Tsunami Information	Of Maximum Wa	ve Amplitude Map 🛛 🚽 Travel 1	Times man					
			(Meranitan	s Ampillude map	Times map					
	EARTHQUAKE INFOR	RMATION								
	Magnitude :			9 M						
	Depth :			10 km						
	Origin Date :			07 Jun 2023						
	Origin Time :			0600 UTC						
	Latitude :			7.2° N						
	Longitude :			92.9° E Niseber Islanda Jadia Dasian						
	Location :			Nicobar Islands, India Region						
	EVALUATION									
					on about the triggering of a tsunami.An in	investigation is under way to r	determine if a tsunami has ł	been triggered. This TSP will mc	onitor sea level gauges and	d report if any t
				zones listed below are POTENTIAL						
	TSUNAMI THREAT	T FOR INDIAN OCEAN	AN							
				mated to exceed 0.5m amplitude	at the beach in each zone (or a different	at threshold nominated by an "	NTWC) and the amplitude	of the maximum beach wave pr	redicted for the zone. Zone	where the es
			nold amplitude at the beach				They, and the any inc	1010 1000 1000 1000 1000		The second
	The list is grouped by	e country (alphabetic	order) and ordered acco	ording to the earliest estimated times	tor of arrival at the beach,					
	Please be aware that	actual wave arrival tir	imes may differ from those	se below, and the initial wave may r	iy not be the largest. A tsunami is a series	a of waves and the time betwe	een successive waves can b	be five minutes to one hour.		
		ed to have passed two ational/state/local autho		time for last exceedance of the 0	0.5m threat threshold for a zone. As loca	al conditions can cause a wid	de variation in tsunami waw	e action, CANCELLATION of na	ational warnings and ALL (CLEAR deterr
· · · · · · · · · · · · · · · · · · ·				Eiltor by	"Search V	lord"				
/	Filter by Malaysia		- IN	Filler by	y "Search W	/oru				
/										
	Country # S	State/Territory	A	Zone					Amplitude(m) =	ThreatSt
	MALAYSIA KEDAH		SATUN		07-Jun-2023 09:05	07-Jun-2023 09:21	08-Jun-2023 04:34	08-Jun-2023 06:53	1.1	Three
	MALAYSIA KEDAH		YAN		07-Jun-2023 09:12	07-Jun-2023 09:27	08-Jun-2023 02:53	08-Jun-2023 06:50	1.3	Three
	MALAYSIA KEDAH MALAYSIA PULAU P	H J PINANG	WEST OF ALOR SETA SEBERANG PERALUT		07-Jun-2023 09:25 07-Jun-2023 09:41	07-Jun-2023 09:41 07-Jun-2023 09:56	07-Jun-2023 17:42 07-Jun-2023 10:12	08-Jun-2023 05:56 08-Jun-2023 06:56	1.5	I files
		J PINANG J PINANG	SEBERANG PERALUI.		07-Jun-2023 09:41 07-Jun-2023 09:44	07-Jun-2023 09:56	07-Jun-2023 10:12 07-Jun-2023 16:40	08-Jun-2023 06:56 08-Jun-2023 06:49	1.5	Three
	MALAYSIA KEDAH		KUALA MUDA	CAINT	07-Jun-2023 09:47	07-Jun-2023 10:04	08-Jun-2023 05:56	08-Jun-2023 06:27	1.3	Three
	MALAYSIA PERAK		KERIAN		07-Jun-2023 10:03	07-Jun-2023 10:18	08-Jun-2023 00:06	08-Jun-2023 06:26	1.3	Threa
			LADUT AND MATANO		07 1 2022 40.42	07 1-2000 40-00	07 1- 2022 47-00	00 100 2022 00.02		-

🐐 About Us Logout English 🗸

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O Mon Jul 10 2023 11:51:58 IST O Mon, 10 Jul 2023 06:21:58 UTC

MALAYSIA DEDAK

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NEGERI SEMBILAN

ADUT AND MATANC

MANJUNG

HILIR PERAK

SABAK BERNAM

KUALA LANGAT

PORT DICKSON

SEPANG

KUALA SELANGOR

Additional bulletins will be issued by TSP INDIA for this event as moreinformation	ecomes available.	
CONTACT INFORMATION		
Indian Tsunami Early Warning Centre (ITEWC)		
Indian National Centre for Ocean Information Services (INCOIS)		
Address:"Ocean Valley", Pragathi Nagar (BO), Nizampet (SO),		
Hyderabad - 500 090, India.		
Tel: 91-40-23895011		
Fax: 91-40-23895012		
Email: tsunami@incois.gov.in		
Website: www.incois.gov.in		

07-Jun-2023 10:12

07-Jun-2023 10:25

07-Jun-2023 11:06

07-Jun-2023 11:42

07-Jun-2023 12:02

07-Jun-2023 12:48

07-Jun-2023 14:20

07-Jun-2023 14:10

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

07-Jun-2023 10:28

07-Jun-2023 10:42

07-Jun-2023 13:07

07-Jun-2023 13:39

07.Jun.2023 13:55

07-Jun-2023 14:25

07-Jun-2023 19:50

08-Jun-2023 00:55

07-Jun-2023 17:06

08-Jun-2023 01:02

08-Jun-2023 04:11

08-Jun-2023 06:0

07. Jun. 2023 22:40

08-Jun-2023 01:5

08-Jun-2023 01:19

08-Jun-2023 01:05

08- Jun-2023 06:52

08-Jun-2023 06:54

08-Jun-2023 06:46

08-Jun-2023 07:00

08-Jun-2023 06:23

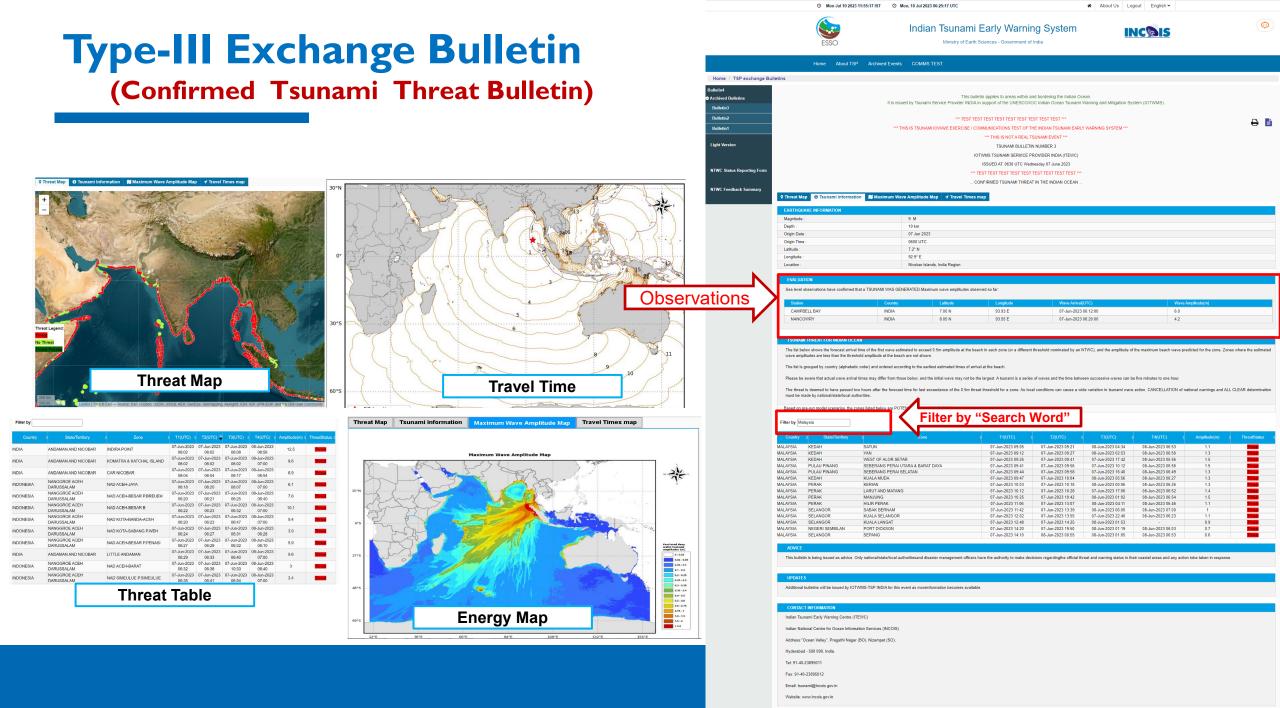
08-Jun-2023 06:0

08-Jun-2023 06:53

Threat Threat Threat

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Threat Threat



Type-IV Exchange Bulletin

(Final Tsunami Bulletin)

O Mon Jul 10 2023 12:30:47 IST
O Mon, 10 Jul 2023 07:00:47 UTC

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Ministry of Earth Sciences - Government of India

Telangana

Indian Tsunami Early Warning System INCOIS

Home / TSP exchange Bul Bulletin4 O Archived Bulletins	letins					
Archived Bulletins						
			This t	ulletin applies to areas with	in and bordering the Indian Ocean.	
Bulletin3		It is is	sued by Tsunami Service Provider IND	A in support of the UNESC	O/IOC Indian Ocean Tsunami Warning and Mitig	gation System (IOTWMS).
Bulletin2						
Bulletin1				FEST TEST TEST TEST TEST	F THE INDIAN TSUNAMI EARLY WARNING SYST	FM ***
			The is real with the exercise.		AL TSUNAMI EVENT ***	
Light Version				TSUNAMI BULL	ETIN NUMBER 4	
				IOTWMS TSUNAMI SERVIC	E PROVIDER INDIA (ITEWC)	
NTWC Status Reporting Form					Vednesday 07 June 2023	
					ST TEST TEST TEST TEST *** AMI BULLETIN	
NTWC Feedback Summary				FINAL I SUN	AMI BULLETIN	
	Tsunami Information					
	EARTHQUAKE INFORMATION					
	Magnitude :		9 M			
	Depth : Origin Date :		10 km 07 Jun 2023			
	Origin Time :		0600 UTC			
	Latitude :		7.2° N			
	Longitude : Location :		92.9° E Nicobar Islands, India Region			
	EVALUATION					
	Data from sea-level gauges confirme	d that a minor tsunami was	generated.Based on IOTWMS-TSP INDI/	modelling, there is no threat	to Indian Ocean countries.	
N	Station	Country	Latitude	Longitude	Wave Arrival(UTC)	Wave Amplitude(m)
	CAMPBELL BAY NANCOWRY	INDIA	7.00 N 8.05 N	93.93 E 93.55 E	07-Jun-2023 06:12:00 07-Jun-2023 06:20:00	6.0
vations	PORTBLAIR	INDIA	11.6 N	92.77 E	07-Jun-2023 06:32:00	3.0
	SABANG	INDONESIA	5.83 N	95.33 E	07-Jun-2023 06:40:00	2.4
	ADVICE					
	This bullette is being formed as adde	e. Only national/state/local	authorities and disaster management offic	ers have the authority to make	decisions regarding the official threat and warning	status in their coastal areas and any action to be tak
	This bulletin is being issued as advic					
	UPDATES					
Bulletins	UPDATES	IOTWMS-TSP INDIA for thi	s event unless additional information beco	mes available.		
r Bulletins	UPDATES No further bulletins will be issued by I	IOTWMS-TSP INDIA for thi	s event unless additional information beco	mes available.		
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AboutUs Photo Gallery

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NTWC Feedback reporting

O Mon Jul 03 2023 11:01:32 IST
O Mon, 03 Jul 2023 05:31:32 UTC

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Indian Tsunami Early Warning System

Ministry of Earth Sciences - Government of India

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Home / Tsunami Early Warnings / NTWC Warning Status Reporting Form

IOTWMS-TSP India - Tsunami Service Provider for the Indian Ocean NTWC WARNING STATUS REPORTING FORM

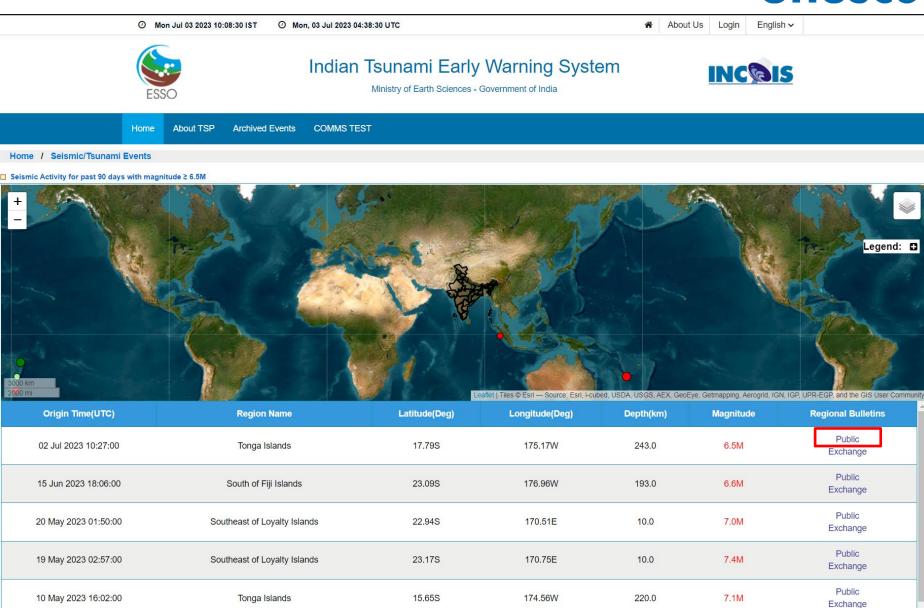
This page is to be used by Indian Ocean National Tsunami Warning Centres (NTWCs) to advise TSPs of their current warning status. It should be used every time an NTWC issues a new or updated tsunami warning (or cancellation) for their country. The information will be placed on TSP public websites to enable the public, media and other NTWCs to be aware of the warning status of each country.

Magnitude (Preferred):	
	9.0
Depth:	10
Date :	07 Jun 2023
Origin Time:	0600 UTC
Latitude:	7.20
Longitude:	92,90
Location:	Nicobar Islands, India Region
Land/ Ocean:	10
Water Level Depth (if Ocean):	1970 m
COUNTRY'S CURRENT WARNING	
Press "Submit". Select Your Country: Australia	2. Select Your Country's Current Warning Status:
Bangladesh	
Comoros	O Threat Level 1: There is a potential for tsunami impact, but given the travel time, no response of the public is necessary at the moment.
Djibouti	OF points of receiption and the momentum of the second of
France (Indian Ocean Territories)	Threat Level 3: Threat of tsunami inundation to land areas.
ndia	Cancellation/All Clear
ndia ndonesia	
	Cancellation/All Clear 3. Type Additional Information About The Warning Status:
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ndonesia ran Kenya Madagascar Maldysia Maldives Mauritius Mozambique Myanmar	3. Type Additional Information About The Warning Status: Max 1950 characters 4. Type Sender Name 5. Time of Feedback Submission: Mon Jul 03 2023 11:01:34 GMT+0530 (India Standard Time)
ndonesia ran Madagascar Maldaysia Maldives Mauritus Mozambique Myanmar Dman	3. Type Additional Information About The Warning Status: Max 1950 characters 4. Type Sender Name 5. Time of Feedback Submission: Mon Jul 03 2023 11:01:34 GMT+0530 (India Standard Time) 6. Type Sender E-mail:
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https://tsunami.incois.gov.in/TEWS/NTWCReportingForm.jsp

TSP PUBLIC Bulletins

For each event on the TSP website, public can access directly the bulletin by clicking "Public" link





PUBLIC - NTWC Warning Summary

https://tsunami.incois.gov.in/TEWS/NTWCStatusSummary.jsp

Within 24 hours of the current event ending (issue of FINAL bulletin by TSPs), if no further NTWC feedback is received, this page will be cleared to indicate no warnings.

		Indian Tsunami Early Warning System		NCOIS
	ESSO	Ministry of Earth Sciences - Government of India		
	Home	About TSP Archived Events COMMS TEST		
e / Tsunami Early Wa	arnings / NTW	Cs Feedback Summary		
		Summary of the Current Threat Status as reported by the NTWCs		
This page displays the summa ndicate no warnings.	ary of feedback rece	Summary or the current inneat Status as reported by the NINCS wed from individual NTWC's regarding the Threat Status in their area of responsibility. Within 24 hrs of the current event ending (issue of FINAL t	bulletin by RTSPs), if no	further NTWC feedback is received, this page will be o
• Threat Level 0: No imp • Threat Level 1: There i	is a potential for tsun t to coastal marine an	nami impact, but given the travel time, no response of the public is necessary at the moment. reas due to strong currents and oscillations in sea level.		
Show 50 rows ∽ en	tries			Search:
Country	Threat ¢	Comments	Sender	Sender Time
Australia	Threat Level 2	Confirmed threat builetin issued at 06.30UTC, due to observation at Nancowry India, with marine threat continuing for the Cocos Islands. Western Australia, Casey, Mawson and Davis.	Glen Perrin	Wed Jun 07 2023 16:30:28 GMT+1000 (Austra Eastern Standard Time)
Bangladesh				-
Comoros	•		•	
Djibouti		•		-
France (Indian Ocean Territories)	-		•	-
India	Threat Level 3	Tsunami threat issued to East Coast of India. Andaman and Nicobar Islands being inundated. Evacuations initiated.	ITEWC	Wed Jun 07 2023 11:52:02 GMT+0530 (India Standard Time)
Indonesia	Threat Level 2	People in Sumatre are currently reporting felt earthquake. The BMKG issued tsunami early warnings in several affected areas, so that people could carry out self evacuations to safe places.	Sigit	Wed Jun 07 2023 13:19:34 GMT+0700 (Wester Indonesia Time)
Iran	-		-	-
Kenya	-	-	-	-
Madagascar	•	•	•	
Malaysia	Threat Level 2	Malaysia NTWC issued a tsunami warning for west coast state of Peninsular Malaysia	NTWC, Malaysia - Mazni	Wed Jun 07 2023 14:24:59 GMT+0800 (Malays Time)
Maldives		•		•
Mauritius	-		-	-
Mozambique				-
Myanmar	Threat Level 2	NTWC, Myanmar will issue the Tsunami information for Myanmar coastal areas based on the RTSPs information.	NTWC	Wed Jun 07 2023 13:01:21 GMT+0630 (Myann Time)
Oman		•		-
Pakistan	Threat Level 0	No Threat	NTWC, Karachi, Pakistan	Wed Jun 07 2023 11:15:41 GMT+0500 (Pakista Standard Time)
Seychelles	Threat Level 0		S. Adam	Wed Jun 07 2023 10:30:22 GMT+0400 (Gulf Standard Time)
Singapore	•	•		
Somalia		•		-
South Africa		•		-
Sri Lanka				•
Tanzania				
Thailand	-		-	-
			-	-
Timor-Leste				
Timor-Leste UAE			-	

Showing 1 to 28 of 28 entries



THANK YOU