



पृथ्वी विज्ञान
मंत्रालय
MINISTRY OF
EARTH SCIENCES

INCOIS



International Tsunami Symposium 2025

12 - 14 November 2025



12 - 14, November 2025



Indian National Centre for Ocean Information Services (INCOIS)
Hyderabad, Telangana, India.



<https://its2025.incois.gov.in>

BACKGROUND



Tsunamis are generated by various submarine processes such as earthquakes, volcanic eruptions and landslides, so the research is necessarily interdisciplinary, requiring studies that include the fields of seismology, volcanology, marine geology and geophysics, and hydrodynamics. When any interdisciplinary work is effectively coordinated by a strong union or organization that fosters collaboration and knowledge-sharing among diverse fields, the resulting benefits will extend not only to the participating countries but also to profit globally, impacting numerous communities and advancing societal progress on a broader scale.

The International Union of Geodesy and Geophysics (IUGG) is a global scientific organization committed to advancing and disseminating knowledge about the Earth system and its environment in space. It focuses on a broad range of geophysical disciplines, from the Earth's shape and gravitational fields to atmospheric and oceanic sciences, including the study of the Earth using satellites and high-altitude instruments. IUGG consists of eight semi-autonomous associations (IACS, IAG, IAGA, IAHS, IAMAS, IAPSO, IASPEI and IAVCET), each specializing in specific aspects of Earth sciences, such as cryospheric sciences, geodesy, geomagnetism, hydrology, meteorology, oceanography, seismology, and volcanology. Additionally, IUGG encourages interdisciplinary research through its inter-Association commissions and collaborations with other scientific organizations.

The IUGG Tsunami Commission (IUGG/TC), also called Joint Tsunami Commission, is an Inter-Association Commission, jointly sponsored by IASPEI, IAPSO and IAVCEI, responsible for the international coordination of tsunami-related meetings, research, and publications. The Joint Tsunami Commission holds International Tsunami Symposium (ITS) every two years, where tsunami researchers and disaster prevention personnel from all over the world gather to discuss a wide range of topics such as tsunami warning, damage prediction, tsunami evacuation, and tsunami disaster prevention education etc. The commission publishes Tsunami Symposium proceedings and current tsunami research in several peer-review journals as topical volumes and special publications. It also coordinates with the Tsunami Society International and its publication of the open-access journal "Science of Tsunami Hazards".






THE SYMPOSIUM

The 32nd International Tsunami symposium would be coming up in the month of November 2025 for three consecutive days. The primary goal of this symposium is to develop and implement a robust program that upholds professional excellence among participants specializing in diverse, dynamic fields such as tsunami hazard assessment, detection, monitoring, early warning systems, mitigation strategies and community preparedness. Throughout this major annual event, attendees will engage in peer-reviewed and technical sessions designed to explore and address the latest advancements and developments within these crucial areas.

In 2022, A volcanic eruption in Tonga surprised scientists by triggering two types of tsunamis: “classic” tsunamis caused by the displacement of large volumes of water, and meteotsunamis caused by fast-moving pressure disturbances in the atmosphere. The classic example of non-seismic tsunamis. The 2018 tsunamis in Indonesia, Palu tsunami and Anak Krakatoa raised the questions about early warning systems capability of detection of non-seismic tsunamis. The main theme of this symposium is **“The tsunamis caused by seismic, non-seismic and complex sources: challenges, lessons learnt and way forward”**. The discussions not only focus on current tsunami early warning systems’ limitations and research to improve the services, but also, range of research results on tsunami, inviting tsunami experts, researchers, scientists, academia, media, volunteers, and citizens from all over the world. Discussions will be held on trends, the actual state of disaster prevention activities in the region, and issues and solutions to be solved in the future.

The Ocean Decade Tsunami Programme (ODTP), launched as part of the United Nations Decade of Ocean Science for Sustainable Development (2021–2030), aims to enhance tsunami science, technology, and mitigation efforts globally. Leveraging the momentum of the Ocean Decade Tsunami Programme, the upcoming 32nd International Tsunami Symposium (ITS) aims to enhance tsunami warning systems to deliver timely alerts for all sources, aligning with the goal to cover 100% of at-risk coasts and communities by 2030. The symposium will also promote the IOC-UNESCO Tsunami Ready Recognition Programme (TRRP), helping communities become prepared and resilient. The symposium, by drawing on the resources and frameworks established under the Ocean Decade Tsunami Programme, provides a unique opportunity to accelerate progress towards these ambitious, life-saving goals and promote international collaboration.

In addition, the ODTP will organize a symposium on 10-11 November 2025, back-to-back with ITS, to review the progress of its objectives and the projects and programmes endorsed under its framework. Together, the International Tsunami Symposium and the ODTP symposium will create a significant opportunity to drive progress toward building safer and more resilient coastal communities around the world. Participants are encouraged to attend both events.



OBJECTIVES

- To report on and document the achievements in Tsunami Science
- To identify the challenges and gaps in the early warning system and work that still needs to be done
- To enhance interdisciplinary collaboration especially for non-seismic tsunami source detection and tsunami forecasting
- To enhance tsunami detection and warning system through the latest technological advancements like high performance computing and AI/ML etc.
- To promote global tsunami preparedness through UNESCO-IOC Tsunami Ready Recognition Programme and similar programmes/projects
- To leverage on the Ocean Decade Tsunami Programme for improvement

THEMES

- Tsunami hazard, vulnerability and risk assessment
- Paleotsunami Studies
- Instrumentation and observation network
- Tsunamigenic earthquake source mechanisms
- Non-seismic and Complex tsunami Research
- Tsunami modelling (seismic and non-seismic sources)
- Experimental studies
- Advanced Techniques (Real-time inundation modelling, use of high-performance computing, AI/ML etc.)
- Field Surveys
- Tsunami Data Analysis
- Meteotsunamis including 2022 Tonga event
- Communicating Uncertainties
- Tsunami Awareness and Preparedness
- International Cooperation and Private Partnerships



IMPORTANT DATES

Date	Event
12 February 2025 (Wednesday)	First Announcement
25 February 2025 (Tuesday)	Call for Abstract Submission
25 March 2025 (Tuesday)	Opening of Registration
31 May 2025 (Friday)	Deadline for Abstract Submission
30 June 2025 (Monday)	Notification of Acceptance
29 August 2025 (Friday)	Deadline for Registration
29 September 2025 (Friday)	Fixation of Programme
10 - 11 November 2025 (Mon, Tue)	ODTP-SC symposium
12 - 14 November 2025 (Wed, Thu, Fri)	Main Event
15 November 2025 (Saturday)	Field trip (subject to approval from province administrative authorities)

TENTATIVE PROGRAMME PLAN

10-11 Nov 2025	Day - 1 12 Nov 2025	Day - 2 13 Nov 2025	Day - 3 14 Nov 2025
ODTP Symposium	10:00 - 13:00		
	Inaugural Session	Plenary	Plenary
	Plenary	Keynote talk + Presentations	Keynote talk + Presentations
	14:00 - 17:00		
	Keynote talk + Presentations	Keynote talk + Presentations	Plenary
			Closing Session

CALL FOR ABSTRACTS

The abstract text limited to a maximum of 300 words, mentioning the Title, Name(s) of the Author(s) and their affiliation(s), and five keywords should be submitted through the symposium website (<https://its2025.incois.gov.in>).

Abstracts must focus on scientific/operational results or application. An Author can submit only one abstract as the first author. While submitting an abstract online, an author must provide the name of corresponding author, the mode of presentation (Oral/Poster) and the sub-theme under which he/she is willing to present their work.

After the acceptance of abstract by the peer review committee, the authors need to submit the extended abstracts and posters in a given template on the symposium web-site. Extended abstracts will be published in the symposium proceedings.

Awards will be given to best oral and poster presentations under each sub-theme of the symposium to the students / research scholars / young scientists under the age of 35 years only.

Authors who would like their work to be considered for an award, may select the option 'FOR AWARD' while submitting the Abstract.

REGISTRATION

- Please note that all presenters MUST register and pay the appropriate symposium registration fee as well.
- Early-bird registration is strongly recommended. If no register by 30 June 2025, submitted abstract might be rejected from the program.

Registration Categories	Early bird Registration	Pre-Registration	On-site Registration
General Participants from Developed Countries	\$300	\$350	\$400
Students and Retired Researchers from Developed Countries	\$200	\$250	\$300
General Participants from Low Developed / Developing Countries	\$200	\$250	\$300
Students and Retired Researchers from Low Developed/ Developing Countries	\$150	\$200	\$250
General Participants from India	₹4000	₹5000	₹6000
Students from India	₹2000	₹2500	₹3000

ORGANIZING COMMITTEES

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- Prof. Emile OKAL (USA), Northwestern University
- Dr. Maria Ana BAPTISTA (Portugal), Lisbon University
- Dr. Diana GREENSLADE (Australia), Bureau of Meteorology, Melbourne, Australia
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- Director, Geodetic and Research branch, Survey of India (SOI)
- Director, Indian National Centre for Ocean Information Services (INCOIS), Member Secretary

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- Division Head, Applied Research and Research to Operations (ARO), INCOIS
- Division Head, Ocean Data Management (ODM), INCOIS
- Division Head, Ocean Modeling & Data Assimilation (OMDA), INCOIS
- Division Head, Ocean Observations Network (OON), INCOIS
- Division Head, Information & Communication Technology (ICT), INCOIS
- Division Head, Operational Ocean Services (OOS), INCOIS
- Ms. Sunanda Manneela, Scientist-E, INCOIS
- Dr Ajay Kumar, Scientist-D, INCOIS, Member Secretary



ABOUT VENUE

The **Indian National Centre for Ocean Information Services (INCOIS)** was established as an autonomous body in 1999 under the **Ministry of Earth Sciences (MoES)** and is a unit of the Earth System Science Organisation (ESSO). ESSO-INCOIS is mandated to provide the best possible ocean information and advisory services to society, industry, government agencies and the scientific community through sustained ocean observations and constant improvements through systematic and focused research.

The Indian Ocean tsunami of 26th December 2004 caused unprecedented loss of life and damage to property in the Indian Ocean rim countries; in India, it claimed 10,749 lives according to official estimates. Driven by this national calamity and further recognizing the imperative to put in place an Early Warning System for mitigation of ocean-based disasters, the Ministry of Earth Sciences (MoES) has taken up the responsibility of establishing the National Tsunami Early Warning System (ITEWS) in 2005 at INCOIS and is operational since 2007.

The ITEWS is a state-of-the-art facility operated by INCOIS to provide real-time tsunami warnings for the Indian Ocean region. The system integrates seismic and sea-level data from national and international stations, and advanced tsunami modeling tools. This enables warnings to be issued within 10 minutes of a seismic event, ensuring rapid and effective dissemination to vulnerable coastal communities.

Recognized internationally, ITEWS also plays a pivotal role as Tsunami Service Provider in the Indian Ocean Tsunami Warning and Mitigation System (IOTWMS) under the aegis of UNESCO's Intergovernmental Oceanographic Commission. It stands as a testament to India's commitment to safeguarding lives and livelihoods.

ACCOMMODATION

Accommodations for the ITS-2025 participants will be available on payment at special rates at different hotels surrounding the venue. In addition to the hotels, a few guest houses of state and central government organizations will be booked to accommodate the student participants at concessional rates.

Further details on accommodation will be updated soon on the symposium website.

FIELD TRIP

A field trip to one of the Tsunami Ready villages in Odisha is planned for 15 November 2025. Bhubaneswar, the capital of Odisha, is approximately 1050 km from Hyderabad and can be reached by a 1 hour 30-minute flight, with an estimated cost of USD 250. From Bhubaneswar, we will travel to the Tsunami Ready village using local transportation, which takes approximately 2 hours to reach the location. Please note that the field trip is subject to approval from the Odisha provincial administrative authorities.

PRESENTATION STYLE

Select your presentation style which you would like to as below. Please be noted that the maximum numbers of oral presentation and poster presentation is approximately 50 and 100 respectively. The word limit for the abstract is within 300 words.

- Oral presentation
- Poster presentation
- Either

Best Poster Award (young researcher): ITS2025 has a poster presentation award for young researchers (a few). The purpose of this award is to encourage young researchers* in the field of tsunami research.

(*Young researcher: researchers who have received their doctoral degree less than eight years ago and students.)





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Tsunami Symposium 2025**
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ORGANISING COMMITTEE

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