

Title	International Hydroacoustics Workshop 2026
Objective & Theme	<p>The objective of the workshop is to support the CTBTO verification regime by creating a forum for scientific knowledge exchange on four main themes:</p> <p>Theme 1: Hydroacoustic monitoring networks in support of the CTBT International Monitoring System.</p> <p>Theme 2: Emerging technologies and future concepts for next-generation hydroacoustic monitoring in support of the CTBT International Monitoring System.</p> <p>Theme 3: Data analysis and signal processing methods for CTBT verification purposes and civil and scientific applications.</p> <p>Theme 4: Modelling for long-range hydroacoustic signal propagation</p>
Topics	<p>Theme 1: Hydroacoustic monitoring networks in support of the CTBT International Monitoring System</p> <p>1.1 The CTBTO Hydroacoustic Monitoring Network: Status, challenges, and needs</p> <p>1.2 Engineering and technological advancements for hydroacoustic monitoring networks in marine environments</p> <p>1.3 Station installation, maintenance, and major underwater repair strategies in challenging marine environments</p> <p>1.4 Sustainability, reliability, and long-term performance of hydroacoustic monitoring networks</p> <p>1.5 End-to-end calibration and quality assurance of hydroacoustic monitoring stations under field conditions</p> <p>1.6 Protection, inspection, and fault detection strategies for subsea cables and sensors supporting hydroacoustic monitoring stations</p> <p>1.7 Potential synergies with other subsea monitoring networks and civil and scientific applications</p> <p>Theme 2: Emerging technologies and future concepts for next-generation hydroacoustic monitoring stations in support of the CTBT International Monitoring System</p> <p>2.1 Station design concepts, structural and material innovations, and hydrophone technologies for next-generation hydroacoustic monitoring</p>

	<p>2.2 Distributed Acoustic Sensing (DAS) and fiber-optic technologies for hydroacoustic monitoring</p> <p>2.3 Smart subsea cable concepts and multi-functional sensing technologies</p> <p>Theme 3: Data analysis and signal processing methods for CTBT verification purposes and civil and scientific applications</p> <p>3.1 Identification of signal source-type (seismological-phase classification)</p> <p>3.2 Improved event-location algorithms</p> <p>3.3 Advanced signal processing methods for characterization of event properties (e.g. deduction of event depth from T-phase spectral contents)</p> <p>Theme 4: Modelling for long-range hydroacoustic signal propagation</p> <p>4.1 Three-dimensional acoustic propagation modelling.</p> <p>4.2 Crust-water coupling near coastal seismometers</p> <p>As always, CTBT-related contributions on additional relevant topics are also welcome.</p>
Location	<p>Vienna International Centre, Vienna, Austria.</p> <p>The workshop is planned to be held in a hybrid format. In-person participation is encouraged; however, virtual participation will be available.</p> <p><i>(the workshop can be transformed to online format in case of unforeseen circumstance)</i></p>
Dates	7 to 9 September 2026
Language	English
PTS Point of Contact	<p><u>Administrative POC:</u> Capacity Building and Training Section (IDC/CBT) CTBTO Preparatory Commission Vienna International Centre P.O.Box 1200, 1400 Vienna, Austria Tel: +43 1 26030 6147 Email: conferences_and_workshops@ctbto.org</p>
Participants Profile	<p>The workshop is aimed towards all scientists, engineers and other persons involved in hydroacoustics, ocean observatories, underwater acoustic system and sensor technologies, cabled and autonomous underwater systems and related fields.</p>

	Please be informed that the Provisional Technical Secretariat solicits presentations and posters from participants on the topics of the Workshop.
Application Procedures	<p>Applicants are requested to register online at the Commission's CTNW platform: https://ctnw.ctbto.org</p> <p>Financial support may be available to a limited number of participants. Such assistance must be requested at the time of registration (by selecting the relevant box during online registration) and no later than 24 April 2026.</p> <p>Financial support will be considered only for those who have submitted an abstract that will be accepted. Participants are strongly encouraged to first seek travel and participation funds from non-CTBTO sources.</p> <p>State Signatories wishing to nominate experts are requested to inform the Provisional Technical Secretariat (See Administrative Point of Contact) through their respective Permanent Mission by the deadline set for application.</p>
Abstract submission	Applicants are invited to submit an abstract relevant to the objectives of the Workshop at https://ctnw.ctbto.org/ before the registration deadline. You will be prompted to select whether you prefer it to be a poster or an oral presentation.
Deadline for application and abstract submission	24 April 2026
Financial Information	<p><u>Applicable to PTS-funded participants only</u></p> <p>In accordance with the Staff regulations and rules and Administrative Directives, the PTS will provide the following:</p> <ul style="list-style-type: none"> • A Daily Subsistence Allowance (DSA) that is sufficient to cover the related expenses during the workshop programme will be paid on the first day of the workshops to the participants; • The PTS travel agent will reserve, issue and forward the flight ticket to the participants for the most direct and economic route; • Funded participants are not allowed to purchase their own tickets unless, under exceptional circumstances, they are authorized to do so and only if this proves to be most cost efficient for the PTS; • The PTS will book a hotel and cover the costs for the accommodation; and • Health insurance will be provided that covers the duration of the workshop. <p><i>Requirement: A valid scanned copy of passport.</i></p>
Other Pertinent Information	<u>Presentations</u>

PowerPoint presentations shall not exceed 20 minutes. Posters should be in either A0 or B1 portrait format.

Visas

Participants should apply for visas, if needed, at the corresponding consular office upon receipt of an acceptance Note Verbale from the Secretariat, in order to ensure timely processing.

Health/Accident Insurance

It is strongly recommended that prior to departure all participants should acquire health and accident insurance for the duration of the workshop.