



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION  
COMMISSION OCÉANOGRAPHIQUE INTERGOUVERNEMENTALE  
COMISIÓN OCEANOGRÁFICA INTERGUBERNAMENTAL  
МЕЖПРАВИТЕЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ  
اللجنة الدولية الحكومية لعلوم المحيطات  
政府间海洋学委员会

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**IOC Circular Letter No 2770**  
(Available in English only)

IOC/VR/TA/BA  
20 May 2019

- To :** ICG/PTWS and ICG/CARIBE-EWS Tsunami National Contacts (TNC) and Tsunami Warning Focal Points (TWFP)  
ICG/PTWS and ICG/CARIBE-EWS Chairs and Vice-Chairs
- cc. :** Official National Coordinating Bodies for liaison with the IOC  
Permanent Delegations/Observer Missions to UNESCO of IOC Member States and Brunei Darussalam, Cambodia, Federated States of Micronesia, Marshall Islands and Tokelau  
National Commissions for UNESCO in IOC Member States and Brunei Darussalam, Cambodia, Federated States of Micronesia, Marshall Islands and Tokelau  
Director, International Tsunami Information Center (ITIC)  
Director, Pacific Tsunami Warning Center (PTWC)  
IOC Officers

**Subject: ITIC Training Programme—Hawaii (ITP-HAWAII) on Tsunami Early Warning Systems and the PTWC Enhanced Products, Tsunami Evacuation Planning and Tsunami Ready Programme, Honolulu, Hawaii, 3–13 September 2019**

Through this circular letter, members of the Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS) and the Intergovernmental Coordination Group for the Tsunami and Other Coastal Hazards Warning System for the Caribbean and Adjacent Regions Member States (ICG/CARIBE-EWS), and countries in other regions with tsunami warning and mitigation interests, are invited to participate in the above-mentioned activity.

This year, the training will be conducted by the International Tsunami Information Center (ITIC), in collaboration with the Pacific Tsunami Warning Center and technical and emergency management partners in Hawaii (USA). The ITP-Hawaii will demonstrate a working example of an end-to-end tsunami warning and mitigation system centered in Hawaii, with PTWC as its local tsunami warning centre. ITIC is hosted by the US National Oceanic and Atmospheric Administration and the Hydrographic and Oceanographic Service (SHOA) Chile in partnership with the IOC of UNESCO.

Over the last 15+ years, by improving data quality, quantity, and numerical methods, PTWC's response time has dropped significantly from one hour to within 5–7 minutes of the earthquake.

**Chairperson**

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Since 2014 for the Pacific, and 2016 for the Caribbean region, PTWC has also issued enhanced products that include forecasts of the expected coastal impact of tsunamis for each country.

In 2019, the Japan's Northwest Pacific Tsunami Advisory Center (NWPTAC) upgraded its products to include graphical forecasts, and China's South China Sea Tsunami Advisory Center (SCSTAC) is issuing graphical forecast products in experimental mode.

In this respect, it is worth reminding that globally 90% of the casualties caused by tsunamis (99% in the Pacific) have resulted from local tsunamis that attacked in a few minutes, leaving no time for preparation. In this context, communities and individuals must know in advance what to do and where to evacuate to. Tsunami warning centres (TWC) must have clear standard operating procedures that can be rapidly executed to issue alerts, and the TWC staff must be well-trained and prepared to act quickly and decisively.

Recognizing that local tsunamis remain the most challenging operation for countries, the 2019 ITP-Hawaii will focus its training on Standard Operating Procedures (SOP) for warning and emergency response as guided by the draft *National Tsunami Warning Center Minimum Competency Levels* and the *Local-Source Tsunami Response Best Practice* approved this past April at the 28<sup>th</sup> session of the Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (Nicaragua, 2–5 April 2019). The training will also focus on preparedness and tsunami evacuation planning, including inundation and evacuation mapping, response planning, and exercising, in the context of meeting the guidelines of the UNESCO-IOC Tsunami Ready Programme for community recognition. On the last day, a tsunami exercise will be conducted requiring country decision-making and action using national products supplemented by the PTWC Enhanced Products. The 2019 ITP-Hawaii programme description and provisional agenda for the 10-day training are enclosed.

ITP-Hawaii is open primarily to all country members of ICG/PTWS and ICG/CARIBE-EWS. Participants from other regional tsunami warning systems are welcome. On Day 1, participants are expected to give a 15-minute presentation on their country's tsunami warning and mitigation system, including their tsunami SOPs. Participants are expected to provide their own travel funding. Organizations are kindly asked to confirm that funding is available to cover their participants to this course. The training will be conducted in English.

Candidatures using the attached form should be sent together with a CV to the Associate Director of ITIC, Lt. Cdr. Carlos Zuniga ([czuniga@shoa.cl](mailto:czuniga@shoa.cl), Phone: +56-32-2266671), with copy to the Director of ITIC, Dr Laura Kong ([laura.kong@noaa.gov](mailto:laura.kong@noaa.gov), Phone: +1-808-725-6050, Fax: +1-808- 725-6055) and to the ICG/PTWS Technical Secretary, Mr Bernardo Aliaga ([b.aliaga@unesco.org](mailto:b.aliaga@unesco.org)). Candidatures should be also endorsed by the country TNC or TWFP. The deadline for applications is **14 June 2019**. Successful candidates will be notified by 1 July 2019.

With the assurances of my highest consideration, I remain,

Yours sincerely,

*[signature]*

Vladimir Ryabinin  
Executive Secretary

Enclosures: (2)

ITP-Hawaii 2019 Programme Description and Provisional Agenda  
ITP-Hawaii 2019 Application Form

**UNESCO/IOC – NOAA – SHOA**

**International Tsunami Information Center**

**ITIC TRAINING PROGRAMME (ITP) – HAWAII**

**3–13 September 2019**

The 2019 ITIC Training Programme (ITP-Hawaii) will be held from 3 to 13 September 2019 in Honolulu, Hawaii, hosted by the International Tsunami Information Center (ITIC). The Programme, under the direction of the ITIC, provides participants with an overview of the history and operation of the Pacific Tsunami Warning and Mitigation System and the Caribbean and Adjacent Regions Tsunami Warning System. Specific focus is given to the important role of national tsunami warning centres in monitoring and evaluating the tsunamigenic potential of earthquakes, and in issuing timely tsunami warning messages to government emergency officials who then act to save lives and reduce damage to coastal communities.

The Programme provides training and familiarization with the IOC-coordinated global tsunami warning and mitigation system, especially for the Pacific and Caribbean, and covers National Tsunami Warning and Emergency Response concepts of operations and standard operating procedures. The ITP-Hawaii will use Hawaii as a working example of an end-to-end tsunami warning and mitigation system demonstrating close stakeholder coordination and partnership for operational warnings and in preparedness activities. Participants will engage in a series of informational presentations and discussions with the Pacific Tsunami Warning Center (PTWC) and Hawaii technical and emergency agencies (State or County EOC, University of Hawaii).

To meet the training requests of Member States, the 2019 ITP-Hawaii will focus on Standard Operating Procedures (SOP) for warning and emergency response as guided by the draft *National Tsunami Warning Center Minimum Competency Levels* and the *Local-Source Tsunami Response Best Practice* approved this past April at the Twenty-eighth session of the ICG/PTWS-XXVIII. The training will also focus on preparedness and tsunami evacuation planning, including inundation and evacuation mapping, response planning, and exercising, in the context of meeting the guidelines of the UNESCO IOC Tsunami Ready Programme for community recognition. On the last day, a tsunami exercise will be conducted requiring country decision-making and action using national products supplemented by the PTWC Enhanced Products.

On Day 1 of the Programme, participants should be prepared to make a 15-minute presentation on their country's tsunami warning system, including SOPs to use with the PTWC Enhanced Products, or on their plans for improving their SOPs.

Within one month after returning to their countries, ITP participants are asked to submit a Written Trip Report in English describing the activities they participated in, what they learned, and how they will use their training to improve tsunami warnings and/or awareness in their countries.

**ITP-Hawaii 2019**  
**3–13 September, Honolulu, Hawaii**

**PROVISIONAL AGENDA**

Session	Topic
	<b>TUESDAY, 3 SEPTEMBER, DAY 1</b>
	<b>Opening, Country Presentations</b>
1.1	Opening Welcome and Introductions
1.2	Programme Logistics – IRC Building, Local Transportation, Coffee/Tea/Lunch Breaks, Internet/Phone/Fax, Foreign Visitor Forms, etc.
1.3	Course Overview, Manual, Materials, including Awareness and TW Tools
2.1	Country Presentations (15 min each)
	<b>Country Presentations, IOC, Tsunami Early Warning System Overview</b>
2.1	Country Presentations (15 min each)
2.2	UNESCO IOC Global Tsunami System: Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS); Roles of Tsunami National Contacts, Regional Tsunami Service Providers and Tsunami Information Centers, Tsunami Warning Focal Points, National Tsunami Warning Centers
2.3	End-to-end Tsunami Warning – Stakeholder and their needs, Roles and Responsibilities, Standard Operating Procedures, and their linkages
	<b>Earthquake Seismology and Tsunami Science</b>
3.1	Earthquake Seismology - what, where, how, when, and damage earthquake causes
3.2	Tsunami Science (generation, propagation, and inundation) - where, what, where, how, when, and damage tsunami causes
	<b>WEDNESDAY, 4 SEPTEMBER, DAY 2</b>
	<b>Tsunami Hazard Assessment</b>
3.3	Tsunami Warning and Mitigation Systems - Hawaii example
3.4	Tsunami Hazard Risk Assessment: Modeling and Mapping of Tsunami for Inundation, Evacuation, and Ports and Harbor Response - Hawaii example
3.5	Tsunami Mitigation: Designing buildings to withstand tsunamis - FEMA P646 docs, ASCE 7 2016 and International Building Code 2018. Tsunami Design Zone Maps and Vertical Evacuation - Hawaii example
	<b>Tsunami Warning Center and Emergency Response (TWC/TER) - Lessons Learned</b>
4.1	Tsunami Warning Center Overview: What do Tsunami Warning Centers (TWCs) do? What do TWCs provide to Tsunami Emergency Response (TER) agencies? Challenges in Detection and Tsunami Threat Assessment
4.2	Lessons Learned from Past Tsunamis - Warning (Hawaii 1946-1994; Chile 1960; Nicaragua 1992; Java 2006; Mentawai 2010; Sumatra 2004; Tonga 2006; Samoa/Tonga 2009; Chile 2010; Japan 2011; Bengkulu 2012; Haida Gwaii 2012; Japan 2014; Kaikoura NZ 2016, Indonesia 2018), others
4.3	Tsunami Emergency Response Overview: What do TER agencies provide to the Public? Challenges in Alerting, Evacuation, Safe-to-Return (All-Clear), and Preparedness
4.4	Lessons Learned from Past Tsunamis - Response (Hawaii 1986, 1994; Samoa/American Samoa 2009; Chile 2010; Japan 2011, Palu Indonesia 2018)
	<b>THURSDAY, 5 SEPTEMBER, DAY 3</b>
	<b>Hawaii State Emergency Management Agency visit, TWC Standard Operating Procedures (SOPs), PTWC SOPs</b>
5.1	Visit HI-EMA: Response to PTWC Tsunami Products
6.1	IOC TWC and TER SOP Manual
6.2	SOPs and Checklists: TWC Templates and examples for Distant, Regional, and Local Tsunamis: Monitoring, Detection and Evaluation, Communications, Message Dissemination

6.3	Review & improve country TWC SOP / Checklists (especially for local/regional threat)
6.4	Pacific Tsunami Warning Center: Crisis Event SOPs: Earthquake and Sea Level Monitoring (Data networks and acquisition, quality-control/health status), Earthquake Analysis Methods, Threat Analysis, Forecasting, Products, Dissemination; Routine Operations SOPs: Quality Control and redundancy, contingency and backup
6.5	Visit PTWC - data networks and acquisition, monitoring, analysis, quality-control/health status, communication and dissemination, redundancy, contingency/backup, etc
<b>TWC Topics - Earthquake Source Characterization and Monitoring</b>	
7.1	TWC Operations: Real-time Earthquake Detection and Fast Source Characterization, Methods and Limitations: Locating Earthquakes (seismometers, seismic stations, sparse networks and hypocentral bias, etc.)
7.2	TWC Operations: Real-time Earthquake Detection and Fast Source Characterization, Methods and Limitations: Estimating Magnitudes (macroscopic intensity and instrumental)
7.3	TWC Operations: Real-time Earthquake Detection and Fast Source Characterization, Methods and Limitations: Determine Fault Mechanisms (Double-couple 1st motions to W-Phase Centroid Moment Tensors)
<b>FRIDAY, 6 SEPTEMBER, DAY 4</b>	
<b>TWC Topics - Tsunami Monitoring, Decision Support Tools, PTWC Enhanced Products</b>	
7.4	TWC Operations: Sea Level Monitoring - Methods, Instruments, Limitations, Challenges
7.5	Tsunami Warning Operations - Decision Support Tools Overview: Message Alerts, Real-Time Earthquake Display (CISN); Sea level monitoring (Tide Tool, IOC Sea Level Monitoring web site); Tsunami Databases (WDS/NCEI web tools, WinITDB, TsuDig), Tsunami Travel Time (TTT) calculation, Tsunami Coastal Assessment Tool (TsuCAT)
7.6	Tsunami Warning Decision-Support Tools - Demonstration, Installation, Use Message Alerts, (CISN, USGS web site (CMT, ShakeMap, PAGER, etc.), Sea level monitoring (Tide Tool, IOC Sea Level Monitoring web site); Global Historical Tsunami Databases (WDS/NCEI web tools), Tsunami Travel Time (TTT) calculation
7.6	Pacific Tsunami Warning Center (PTWC) New Enhanced Products SOPs - Why, What, Criteria, Staging of Products
<b>PTWC Enhanced Products, Hazard Assessment Tool - TsuCAT</b>	
7.7	Pacific Tsunami Warning Center Enhanced Products - Why, What, Criteria, Staging of Products; Explanation of Each Product: Public Text, Graphical Deep-Ocean Tsunami Amplitude, Coastal Tsunami Amplitude, Coastal Tsunami Amplitude Polygons, Tsunami Amplitude Statistics, Coastal Tsunami Amplitude KMZ file
7.8	PTWC Operations: Travel Time and Wave Amplitude Forecasting – Methods (ATFM, SIFT, RIFT), Limitations, Uncertainty, Sensitivity Studies (Location, Depth, Magnitude)
7.9	PTWC Operations: Wave Amplitude Forecasting – Methods (ATFM, SIFT, RIFT), Limitations, Uncertainty, Sensitivity Studies (Location, Depth, Magnitude)
7.10	NTWC and TER Guidance on how to use PTWC New Enhanced Products for National Warnings and Evacuation - Land and Marine Threats and Public Safety: Flow Charts, Criteria Tables, Timeline-driven SOPs, Message Templates
7.11	Tsunami Coastal Assessment Tool (TsuCAT) - Demonstration, Installation, Use
<b>SATURDAY-SUNDAY, 7-8 SEPTEMBER - FREE DAYS</b>	
<b>MONDAY, 9 SEPTEMBER, DAY 5</b>	
<b>Tsunami Emergency Response (TER)</b>	
8.1	SOPs and Checklists: Warning Plans and Templates for TER Coordinated Information Flow and Evacuation
8.2	SOPs and Checklists: Case Studies (New Zealand, Japan Wakayama)
8.3	SOPs and Checklists: Case Studies (US California and Hawaii)
8.4	Communication technologies for the transmission of tsunami warnings to local governments and communities – robustness, reliability, redundancy criteria for emergency communications, "Downstream" Communications Process, Social Media
8.5	Learning Activity: Improving Response – Tsunami Warning Chain for Local Scenario - What Happens When
<b>LUNCH (TW Tools installation as needed)</b>	

8.6	Tourist and Special Needs Populations Readiness
8.7	Roles of Media and Social Media in Warning: Case Studies
8.8	Learning Activity: Improving Response - Managing Information Flow during an Event: Reliable and Unreliable Information
8.9	Mitigation: Ports and Harbors, and Marine Sector Readiness
	COFFEE / TEA BREAK
	<b>UNESCO IOC Tsunami Ready, Evacuation Planning</b>
9.1	Implementing Tsunami Ready programs to recognize community readiness - Guidelines, Recognition Process (IOC MG, draft)
9.2	Building Awareness and Community Preparedness - Tsunami Evacuation Planning - considerations and requirements. Preparing for Community Tsunami Evacuations: from inundation to evacuation maps, response plans and exercises (IOC MG 82)
	<b>TUESDAY, 10 SEPTEMBER, DAY 6</b>
	<b>Hazard Assessment, Inundation Mapping, Evacuation Mapping</b>
9.3	Tsunami Preparedness and Risk Assessment - Methods, Techniques
9.4	Global Historical Tsunami Hazards - Pacific, Caribbean, Mediterranean, Indian Ocean; Probabilistic Tsunami Hazard
	IOC Regional Efforts on Tsunami Seismic Sources - Caribbean, Central America, South China Sea meeting outcomes, and upcoming plans for Southwest Pacific, Colombia and Ecuador
9.5	Use of Tsunami modeling for hazard and risk assessment - overview
9.6	Case Study: Using ComMIT / MOST for hazard assessment and TsuCAT for exercise development
9.7	TR PREP-1: Making Community-based Evacuation Maps, Routes, and Signage - guidance
	<b>Evacuation Mapping</b>
9.8	Create Community Evacuation Map - paper and pencil
9.9	Create Community Evacuation Map, including routes, signage - QGIS instructions
9.10	Create Community Evacuation Map, including routes, signage - QGIS
	<b>WEDNESDAY, 11 SEPTEMBER, DAY 7</b>
	<b>Evacuation Mapping, Response Planning, Awareness</b>
9.11	Create Community Evacuation Map, including routes, signage - QGIS
9.12	TR RESP-1 and PREP-4: Making Community Response Plans and Conducting Drills - guidance, How-to, and templates
9.13	Building Awareness and Community Preparedness - strategies and examples, Caribbean PAE Strategy and Philippines Development Process, ITIC available materials, Hawaii examples
9.14	TR PREP-2: Creating Public Awareness poster, including evacuation
9.15	Country Sharing: Creating Public Awareness poster
	<b>THURSDAY, 12 SEPTEMBER, DAY 8</b>
	<b>Awareness, Exercises</b>
10.1	Building Awareness and Community Preparedness - Tsunami Exercises and Drills, IOC Tsunami Exercise Guideline, examples
10.2	Exercise Hawaii Wave 2019 (EHW-19) Tsunami Exercise, Decision-making using PTWC Enhanced Products - Introduction, Format, Conduct
10.3	EHW-1890Tsunami Exercise Preparation - 'Country' TWC / TER SOPs, Criteria Tables, Response Plans, Alerting, Media, Cancellation, etc.
	<b>Exercise Hawaii Wave 2019 (EHW-19)</b>
10.4	EHW-19 Tsunami Exercise - setup and last instruction
10.5	EHW-19 Tsunami Exercise - Decision-making using PTWC Enhanced Products - Local Scenario
10.6	EHW-19 Tsunami Exercise Hotwash - preparation for Press Conference
	<b>FRIDAY, 13 SEPTEMBER, DAY 9</b>
	<b>EHW-19 Pres Conference, Emerging Tools and Technologies, Logistics wrap-up</b>
10.7	EHW-19 Tsunami Exercise Hotwash - Press Conference
11.1	Improving Tsunami Warning - Emerging Techniques and Technologies: Earthquake Finite Fault Modeling, PTWC real-time GNSS/GPS detection of co-seismic deformation

11.2	Improving Tsunami Warning - Emerging Tools and Technologies: ITU/WMO/IOC SMART Cables for Observing the Ocean
11.3	ITP-Hawaii 2019 Logistics wrap-up, Ship Course Materials
	<b>Summary and Next Steps, Closing</b>
12.1	2019-2020 Calendar: ICG and TOWS Action Items and Priorities
12.2	Summary Discussion (Way Forward, Next Steps, Gaps and Needs): UNESCO IOC Tsunami Ready, World Tsunami Awareness Day, UN Decade for Ocean Science and Sustainability tsunami initiatives
13	Presentation of Certificates and Closing Ceremony
	<b>Friday - Saturday, 13–14 SEPTEMBER</b>
	<b>Hotel Checkout - Depart for home country</b>

**UNESCO/IOC – NOAA International Tsunami Information Center**  
**ITIC TRAINING PROGRAMME (ITP) – HAWAII**  
**3–13 SEPTEMBER 2019**  
**APPLICATION FORM**

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**APPLICATION DEADLINE: FRIDAY, 14 JUNE 2019**

**Please type or write in BLOCK letters in English**

**Please submit by E-MAIL or FAX to:**

**E-MAIL:** czuniga@shoa.cl (SHOA)  
laura.kong@noaa.gov (ITIC)  
b.aliaga@unesco.org (IOC)

**FAX (ITIC):** +1 808 725 6055

**1. PERSONAL INFORMATION**

NAME	
TITLE	<input type="checkbox"/> DR. <input type="checkbox"/> PROF. <input type="checkbox"/> MR. <input type="checkbox"/> MS. <input type="checkbox"/> others _____
SEX	<input type="checkbox"/> MALE <input type="checkbox"/> FEMALE
NATIONALITY	
HOME ADDRESS	
TELEPHONE NUMBER	
FAX NUMBER	
EMAIL ADDRESS	

**2. PROFESSIONAL BACKGROUND**

OFFICE/ ORGANIZATION	
POSITION	
ADDRESS	
TELEPHONE NUMBER	
FAX NUMBER	
EMAIL ADDRESS	

**3. EDUCATIONAL BACKGROUND**

LEVEL	SCHOOL	DEGREE	YEAR GRADUATED
COLLEGE			
MASTER			
DOCTORAL			
POST DOCTORAL			



#### 4. TSUNAMI- RELATED TRAININGS ATTENDED

TITLE OR SUBJECT	CONDUCTED BY	DATES

#### 5. OTHER RELATED TSUNAMI-RELATED JOB EXPERIENCE

OFFICE / ORGANIZATION JOB DESCRIPTION	POSITION	DATES

#### 6. TRAVEL INFORMATION

NAME ON PASSPORT	
PASSPORT COUNTRY	
PASSPORT NUMBER	
BIRTHDAY (DD-MM-YYYY)	
DATE OF ISSUE	
PLACE OF ISSUE	
EXPIRY DATE	
COUNTRY OF BIRTH	
COUNTRY OF CITIZENSHIP	
NAME OF NEAREST INTERNATIONAL AIRPORT	

#### 7. OTHER

ENGLISH LANGUAGE PROFICIENCY	<input type="checkbox"/> Excellent	<input type="checkbox"/> Fair
	<input type="checkbox"/> Good	<input type="checkbox"/> Poor
SPANISH LANGUAGE PROFICIENCY	<input type="checkbox"/> Excellent	<input type="checkbox"/> Fair
	<input type="checkbox"/> Good	<input type="checkbox"/> Poor

DO YOU REQUIRE TRAVEL FUNDING	<input type="checkbox"/> Yes, Full Funding <input type="checkbox"/> Yes, Partial Funding, Amount USD ____ <input type="checkbox"/> No, Self-funded
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**STATEMENT OF INTEREST:**

**Why are you interested in attending this training?**

**What topics are you most interested in?**

**What additional topics you would like to learn about?**

**After the Training, where and how will the experience gained in the Training will be used?**

**PLEASE ALSO SUBMIT SEPARATELY YOUR CURRICULUM VITAE (CV).**

\_\_\_\_\_  
**PRINTED NAME**

\_\_\_\_\_  
**SIGNATURE**

\_\_\_\_\_  
**DATE**

**ENDORSED BY TSUNAMI WARNING FOCAL POINT OR TUNAMI NATIONAL CONTACT:**

\_\_\_\_\_  
**PRINTED NAME**

\_\_\_\_\_  
**SIGNATURE**

\_\_\_\_\_  
**ORGANIZATION**

\_\_\_\_\_  
**DATE**