



## PROJECT SUBMISSION MODEL

### IDENTIFICATION

**Project Number:**

<b>Project Name:</b>	Introduction to Tides and Water Levels Workshop for Spanish Speakers
<b>Submitting RHCs/Country:</b>	MACHC (as part of the approved MACHC CB Plan) SWAtHC, SEPRHC
<b>Date:</b>	2020
<b>Institution executing the project:</b>	US NOAA will provide some of the instructors, and manage the project. The workshop will be co-sponsored by the Intergovernmental Coordination Group for the Tsunami and other Coastal Hazards Warning System for the Caribbean and Adjacent Regions (ICG/CARIBE EWS), the South East Pacific Hydrographic Commission and the South West Atlantic Hydrographic Commission.
<b>Name of responsible:</b>	Peter Stone, IHO TWCWG Vice Chair
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### GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

<b>Background information</b>	As more MACHC nations develop a coastal sea level data collection capability, an understanding of tides and water levels becomes an important factor in accurate vertical measurements, for nautical charting, disaster risk reduction, tsunamis, storm surge monitoring and ecosystem restoration. The MACHC, the ICG/CARIBE EWS, neighboring RHCs and other regional partners such as COCATRAM have common interest in improving data quality, increasing capability to maintain, operate and analyze coastal sea level data.
<b>Justification of the project</b>	The MACHC CBC identified the need for training on this topic for its Spanish-speaking members which was affirmed at the last MACHC meeting in Cartagena de Indias, Colombia in 2018, in accordance with MACHC Capacity Building Program 2018-20. The SWAtHC and SEPRHC share a common interest in this training and recognize the benefit of expanding it to include their member countries.

	<p>The IRCC encourages RHCs to use the Tides, Water Level and Currents training material resources offered by the TWCWG in their capacity building work program.</p> <p>The IHO TWCWG has developed a Spanish language version of its Tides Training Course which will be used for this training.</p>
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<b>Countries involved</b>	<p>Full Members: Dominican Republic, Guatemala, Venezuela, Colombia, Brazil, Argentina, Chile, Ecuador, Uruguay, Mexico and Peru</p> <p>Associate Members: Antigua and Barbuda, Belize, Costa Rica, El Salvador, Grenada, Guyana, Honduras, Nicaragua, Panama, St. Vincent and the Grenadines.</p>
<b>Exposition of the problem</b>	Individual MACHC nations cannot fund appropriate staff to undertake any recognized course. The lack of such training in Spanish has been recognized for the Americas and this training will help increase capacity across the MACHC, SWaTHC, SEPRHC.
<b>General objective</b>	To train survey operations personnel to understand tides and their impact on hydrographic surveys, tsunami and other coastal hazard warning systems.
<b>Specific objectives</b>	As above
<b>Outputs/Products</b>	To train a group of regional professionals in the basics of tide and water level theory, maintenance and repair of tide gauges.
<b>Other deliverables</b>	Better and more accurate hydrographic surveys, improved tsunami and other coastal hazards warning system.
<b>Achievements and awaited benefits</b>	The vertical component of hydrographic surveys will be more accurate, gauges will be better maintained with data available also for early warning systems, ecosystem management and routine port operations.

<b>Schedule of activities</b>	5 day course
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## **RESOURCES**

<b>Contribution by countries involved</b>	There are currently three countries which have offered to host the training as an in-kind contribution (Costa Rica, Colombia, and USA).
<b>Contribution by other parties</b>	<p>U.S. NOAA has offered to provide at least 2 instructors, one of which NOAA will fund and be fluent in Spanish.</p> <p>The Spanish language training material has already been developed and is being supplied by the IHO Tides, Water Level and Currents Working Group. Use of these materials implement the related IRCC action request to the RHCs to integrate them into their CB Program.</p> <p>CARIBE EWS will provide one Spanish-speaking trainer, help identify trainees, and cover the cost of participation of at least one associate member participant (Costa Rica, Nicaragua or Honduras). It will work</p>

	<p>with the MACHC to develop an agenda based on experience of delivering previous coastal sea level station operation and data training.</p> <p>Spain has offered to collaborate by providing a Spanish-speaking instructor for the course.</p> <p>COCATRAM endorses this training and has offered to seek funding to support participation of other non-member countries.</p>																																																																		
Contribution expected from CBCFund	Yes																																																																		
Total Cost (euros)	€37,219																																																																		
Breakdown of costs	<table><tr><td colspan="2">Trainees</td><td colspan="2">x 12*</td><td></td><td></td></tr><tr><td>Flights</td><td>12</td><td>persons x</td><td></td><td>€ 573</td><td>€ 6,876</td></tr><tr><td>Hotel, all meals</td><td>12</td><td>persons x</td><td>6</td><td>nights</td><td></td></tr><tr><td></td><td>=</td><td>72</td><td>nights x</td><td>€ 340</td><td>€ 24,480</td></tr><tr><td colspan="2">Trainers</td><td colspan="2">x 2</td><td></td><td></td></tr><tr><td>Flights</td><td>2</td><td>x</td><td></td><td>€ 573</td><td>€ 1,146</td></tr><tr><td>Hotel, all meals</td><td>2</td><td>persons x</td><td>6</td><td>nights</td><td></td></tr><tr><td></td><td>=</td><td>12</td><td>nights x</td><td>€ 340</td><td>€ 4,080</td></tr><tr><td colspan="6">Venue materials &amp; hire costs</td></tr><tr><td colspan="5">For the week</td><td>€ 637</td></tr><tr><td colspan="5">Total</td><td>€ 37,219</td></tr></table> <p>Please note that the figures above have been rounded up/down to the nearest Euro and were taken from a more detailed spreadsheet.</p> <p>*funding includes one additional participant from Latin America</p>	Trainees		x 12*				Flights	12	persons x		€ 573	€ 6,876	Hotel, all meals	12	persons x	6	nights			=	72	nights x	€ 340	€ 24,480	Trainers		x 2				Flights	2	x		€ 573	€ 1,146	Hotel, all meals	2	persons x	6	nights			=	12	nights x	€ 340	€ 4,080	Venue materials & hire costs						For the week					€ 637	Total					€ 37,219
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## **PROJECT SUMMARY**

<b>Sponsor RHC</b>	<b>Year of Execution</b>	<b>Country/ Countries involved</b>	<b>Priority Status</b>	<b>Project Name</b>	<b>Project Objective</b>	<b>Benefits</b>	<b>Assistance required</b>	<b>Cost</b>	<b>Alloca- tion and Priority (to be filled by CBC)</b>	<b>Contact Person</b>
MACHC SEPRHC SWAtHC	2020	Full Members: Dominican Republic, Guatemala, Venezuela, Colombia, Brazil, Argentina, Chile, Ecuador, Uruguay, Mexico and Peru  Associate Members: Antigua and Barbuda, Belize, Costa Rica, El Salvador, Grenada, Guyana, Honduras, Nicaragua, Panama, St. Vincent and the Grenadines.	2	Introduction to Tides and Water Levels Workshop for Spanish Speakers	To train survey operations personnel to understand tides and their impact on hydro- graphic surveys, tsunami and other coastal hazard warning systems.	Better and more accurate hydro- graphic surveys, improved tsunami and other coastal hazards warning system.	CBC funding to complement the in-kind contributions of other partners	€ 37,219		Peter Stone, IHO TWCWG Vice Chair Peter.Stone@ noaa.gov

### **Name and Signature of the RHC Chairman**

Kathryn L. Ries  
Chair, MesoAmerican and Caribbean Sea Hydrographic Commission

