

ANNEX II

ADOPTED RECOMMENDATIONS

Recommendation ICG/PTWS-XXV.1

ICG/PTWS Governance

The Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS),

Having met for its 25th Session from 9 to 11 September, 2013 in Vladivostok, the Russian Federation,

Expresses its deep condolences to the people of Solomon Islands for the loss of life caused by the earthquakes and tsunamis in February 2013;

Recalling IOC Resolution IV–6 that established the International Coordination Group for the Tsunami Warning System in the Pacific (ICG/ITSU) and IOC Resolution XXXIX-8 that renamed ITSU to be the Pacific Tsunami Warning and Mitigation System (PTWS) and to provide continuity through the Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS),

Reaffirming that the Pacific Tsunami Warning and Mitigation System (PTWS) will be a coordinated network of national systems and capacities, and will be part of a global network of early-warning systems for all ocean-related hazards,

Reaffirming further that each Member State has the sovereign responsibility to issue warnings within its respective territories,

Noting with appreciation the tsunami forecasting products provided for the Member States of the PTWS by the PTWC hosted by the USA and the NWPTAC hosted by Japan, and guidance materials by the ITIC,

Recalling the *Mauritius Declaration* adopted at the Intergovernmental Coordination Meeting held at Grand Baie, 14–16 April 2005 (IOC Workshop Report, 198, SC.2005/WS/40) to openly share and exchange tsunami-relevant real-time observational data in accordance with the UNESCO/IOC Oceanographic Data Exchange Policy,

Having noted IOC Decision IOC-XXVII/Dec.5.2.2, which decided to continue the TOWS-WG and the Inter-ICG Task Teams on Disaster Management and Preparedness, Hazard Assessment Related to Highest Potential Tsunami Source Areas, and Tsunami Watch Operations for the next intersessional period, with the same membership and Terms of Reference,

Having reviewed the progress made in the implementation of the PTWS since the 24th Session of the ICG/PTWS,

Having considered the reports of:

- Working Group 1 on Tsunami Risk Assessment and Reduction,
- Working Group 2 on Tsunami Detection, Warning and Dissemination and its Task Teams,
- Working Group 3 on Tsunami Awareness and Response,

- WG2 Task Team on Warning Dissemination,
- WG2 Task Team on PACWAVE 11,
- WG2 Task Team on Enhancing Products,
- WG2 Task Team on Seismic Data Sharing in the South West Pacific,
- Regional Working Group on Tsunami Warning and Mitigation System on the Central American Pacific Coast,
- Regional Working Group on Tsunami Warning and Mitigation System in the South East Pacific Region,
- Regional Working Group on Tsunami Warning and Mitigation System in the South West Pacific Region,
- Regional Working Group on Tsunami Warning and Mitigation System in the South China Sea,
- The intra-sessional Working Groups' reports for PTWS Implementation Plan, WG-SCS, WG3,
- Third Meeting of the PTWS Steering Committee held in Hawaii, USA, May 2012,
- Sixth Meeting of the TOWS-WG and Task Team on Tsunami Watch Operations (Paris, February 2013),
- North West Pacific Tsunami Advisory Center (NWPTAC),
- Pacific Tsunami Warning Center (PTWC),
- International Tsunami Information Center (ITIC),

Recognizing the difficulty in providing effective near-field tsunami warning,

Acknowledging that the PTWS is effective in saving lives and reducing the impacts to communities in both near-field and distant-tsunami events through the three pillars of risk assessment and reduction, detection, warning and dissemination, and awareness and response,

Encourages voluntary contributions to support Budget and Programme activities recommended by the ICG/PTWS either directly or through the IOC Special Account set up for the PTWS as well as in-kind and extrabudgetary contributions, in particular for training with regards to the new enhanced products;

Encourages Member States to nominate members for the WG1 Risk Assessment and Reduction, and WG3 on Awareness and Response;

Recognizing the limited capacity of many Member States of the PTWS in hazard assessment and risk reduction,

Requests Member States to regularly review the list of Tsunami National Contacts (TNCs) and Tsunami Warning Focal Points (TWFPs) on the IOC website and inform the Secretariat of all changes;

Requests Member States to share any new forms of sea-level data for tsunami warning purposes in accordance with the [IOC Oceanographic Data Exchange Policy](#);

Decides to:

1. Continue existing Working Groups (WG) and associated Task Teams with same Terms of Reference as attached in Appendix to Recommendation ICG/PTWS-XXV.1:

WG1. Tsunami Risk Assessment and Reduction; Chair Dr Vasily Titov (USA) and Vice-Chair Dr François Schindelé (France);

- WG1 Task Team on Tsunami Modelling Hazard Assessment; Chair Dr Vasily Titov (USA);
- WG1 Task Team on Tsunami Risk Assessment; Chair Dr NGUYEN Hong Phuong (Vietnam);

WG2. Tsunami Detection, Warning and Dissemination; Chair Mr Rick Bailey (Australia) and Vice-Chair Mr Carlos Zuniga (Chile);

- WG2 Task Team on Warning Dissemination (Filomena Nelson (Samoa))
- WG2 Task Team on Enhancing Products (Chair Chip McCreery (USA))
- WG2 Task Team on Seismic Data Sharing in the South West Pacific (Co-Chair Eslina Garaebiti Bule (Vanuatu) and Siosina Lui (Samoa))

Sub-Regional Working Groups:

- Regional Working Group on Tsunami Warning and Mitigation System on the Central American Pacific Coast, Chair Angelica Munoz (Nicaragua) and vice-chair Francisco Gavidia (El Salvador).
 - Regional Working Group on Tsunami Warning and Mitigation System in the South East Pacific Region; Chair Carlos Zuniga (Chile).
 - Regional Working Group on Tsunami Warning and Mitigation System in the South West Pacific Region; Chair Ms Filomena Nelson (Samoa).
 - Regional Working Group on Tsunami Warning and Mitigation System in the South China Sea; Chair Mr MOK Hing-yim (China) and Vice-Chair Dr NGUYEN Hong Phuong (Vietnam).
2. Continue the Steering Committee with same Terms of Reference as attached in Appendix to Recommendation ICG/PTWS-XXV.1
 3. To reconstitute WG3 under the name of Disaster Management and Preparedness with new Terms-of-Reference as attached in the Appendix, Chair Mr David Coetzee (New Zealand), Vice-chair to be appointed by the Working Group.
 4. To establish WG2 Task Team on PACWAVE 15 (Co-Chair Jo Guard (New Zealand) and Laura Kong (ITIC)) with Terms of Reference as attached in Appendix to Recommendation ICG/PTWS-XXV.1.
 5. To establish a Task Team on Establishment of a South China Sea Tsunami Advisory Center of the Regional Working Group on Tsunami Warning and Mitigation in the South China Sea, with Terms of Reference as attached in Appendix to Recommendation ICG/PTWS-XXV.1.

6. Continue to disseminate a communication test message from the PTWC once a month on the same day and at the same time every month and two random unannounced tests annually to the PTWS Member State TWFPs;
7. Conduct training workshops on hazard and risk assessment organised by WG1 in coordination with IUGG to enhance collaboration between the operational and research communities as recommended by the TOWS-WG, subject to extra-budgetary funding support being identified;

Decides to implement the enhanced PTWC products for the PTWS in accordance with the timetable and conditions contained in Recommendation ICG/PTWS-XXV.2;

Endorses the proposal of the South China Sea Sub-Regional Working Group to the Establishment of a South China Sea Tsunami Advisory Centre in accordance with the timetable and conditions contained in Recommendation ICG/PTWS-XXV.3;

Endorses the PTWS Medium Term Strategy 2014-2021 presented by the Steering Committee noting the change of the third pillar to Disaster Management and Preparedness;

Requests the Executive Secretary to:

1. Publish the PTWS Medium Term Strategy 2014-2021.
2. Publish the PTWS Implementation Plan when finalised by the Steering Committee.
3. Inform the Member States about the website for TNC and TWFP contact details, provide them with passwords and advise them of the procedures for updating contact details.
4. Organize documentation on the IOC Tsunami website by discipline/topic to facilitate access and utility of reference material across Working Groups and ICGs.
5. In conjunction with PTWC:
 - Ascertain whether each Member State needs every text product issued by PTWC for a single event, or they only need the initial text product after which any additional PTWC products will be obtained via other methods such as GTS, AFTN, email, or EMWIN (for example);
 - Ascertain whether each Member State TWFP needs every fax number currently assigned to them on the PTWC distribution list and if there are more than two could they limit each TWFP to two fax numbers; and
 - Notify Member States at least 90 days in advance that PTWC will begin faxing only the first text product of a single event to Member States unless they specifically request to receive all text products for each event.

Encourages Member States to include representation of Disaster Management Organizations (DMOs) in their delegations to the ICG and intersessional Working Groups;

Instructs the PTWS Steering Committee to prepare a priority list of activities and resource requirements to be reported at ICG/PTWS-XXVI;

Instructs the PTWS Steering Committee to complete and have published the Implementation Plan, taking into consideration the outcomes from the Intrasessional Working Group for the Implementation Plan;

Expresses its gratitude to the Government of the Russian Federation for kindly hosting the 25th Session of the ICG/PTWS in Vladivostok;

Accepts with appreciation the kind offer of the USA to host the 26th Session of the ICG/PTWS in Hawaii in April 2015 subject to the approval of the Government.

Financial Implications: None

Appendix to Recommendation ICG/PTWS-XXV.1

**WORKING GROUPS AND STEERING GROUP
TERMS OF REFERENCE**

Terms of Reference Working Group 1: Tsunami Risk Assessment and Reduction

1. Review and report on existing arrangements with regard to tsunami hazard identification and characterization;
2. Advise on credible seismic scenarios that need to be captured for numerical tsunami modelling e.g., location, magnitude, rupture, orientation, dip, and probability of occurrence;
3. Review details on models that are currently used or in development and desirable standards of documentation (model inputs and outputs etc.);
4. Explore cooperation regarding coastal inundation models, including appropriate requirements for bathymetry;
5. Develop guidance on mandatory metadata including details of bathymetry, hydrography and topography;
6. Consider the issue of assessing hazard, vulnerability and risk, including the facilitation of access to models and mitigation measures;
7. Liaise with Working Groups from the other ocean basins, as well as other working groups within ICG/PTWS to coordinate and ensure efficient and effective information for tsunami warning and mitigation.

The Group will be composed of members nominated by Member States, with a Chair and a Vice-Chair to be elected.

Terms of Reference of WG1 Task Team on Tsunami Modelling Hazard Assessment

1. Develop relevant methodology and recommend standards for tsunami modelling for hazard assessment;
2. Define and recommend tsunami risk and hazard assessment products, for planning and/or real-time hazard assessment.

Terms of Reference of WG1 Task Team on Tsunami Risk Assessment

1. Define relevant methodology and required data and products for tsunami risk assessment based on existing ones;