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Intergovernmental  
Oceanographic  
Commission

**AGENDA & TIMETABLE**

**United Nations Ocean Decade 2021-30  
Safe Ocean Laboratory Satellite Activity  
“Further Challenges for Warnings of Tsunamis”  
(6 – 7 April 2022)**

<b>SESSION A:</b> <b>0000 – 0230 UTC, 6<sup>th</sup> April 2022</b> <b><u>Learnings from recent tsunamis generated by non-seismic and complex sources</u></b> <b>Moderator: Rick Bailey IOC Tsunami Unit</b>		
<b>Time (UTC)</b>	<b>Agenda Item</b>	<b>Speaker</b>
0000	<b>1. Opening and welcome</b>	<b>Dr Alexander Frolov,</b> <i>Vice-Chair Intergovernmental Oceanographic Commission (IOC) of UNESCO,  Chair IOC-UNESCO Working Group on Tsunami and Other hazards related to sea level Warning and mitigation Systems</i> <b>Mr Bernardo Aliaga,</b> <i>Acting Head, IOC-UNESCO Tsunami Unit</i> <b>Mr Rick Bailey</b> <i>Head of IOC-UNESCO Secretariat for the Indian Ocean Tsunami Warning &amp; Mitigation System</i>
0010	<b>2. Keynote Lessons learnt from Tonga 2022 tsunami event</b>	<b>Dr Chip McCreery</b> <i>Director, NOAA Pacific Tsunami Warning Centre</i> <b>Mr Ofa Fa’anunu</b> <i>Director, Tongan Meteorological Service</i> <b>Mr Taaniela Kula</b> <i>Director, Tongan Department of Geology</i> <b>Dr Laura Kong</b> <i>Director, IOC-UNESCO/NOAA International Tsunami Information Centre</i> <b>Dr Bill Fry</b> <i>Research seismologist, GNS Sciences New Zealand</i>
0040	<b>3. ICG What are the international framework drivers for reducing the risk of tsunamis?</b>	<b>Ms Diana Patricia Mosquera Calle</b> <i>Deputy Chief, Regional Office for Asia Pacific,  United Nations Office for Disaster Risk Reduction (UNDRR)</i>

0050	<b>4. Lessons learnt from Palu and Sunda Strait 2018 tsunami events</b>	<b>Dr Karyono</b> <i>National Earthquake and Tsunami Warning Center, Indonesian Meteorological Climatological and Geophysical Agency (BMKG)</i>
0100	<b>5. What are the risks of tsunamis generated by other volcanoes in the Pacific Ocean?</b>	<b>Ms Esline Garaebiti</b> Director, Vanuatu Meteorology and Geohazards Department
0110	<b>6. What are the risks of volcano generated tsunamis in other ocean basins?</b>	<b>Dr Raphael Paris</b> <i>Geologist, CNRS - Laboratoire Magmas &amp; Volcans, France</i>
0120	<b>7. What have we learned from local and indigenous knowledge from previous events?</b>	<b>Dr Harkunti Rahyu</b> <i>Faculty member of the Bandung Institute of Technology (ITB) Indonesia, Chair, IOC-UNESCO Task Team on Disaster Management and Preparedness</i>
0130	<b>8. Example of a national warning response to the Tonga 20232 tsunami event</b>	<b>Dr Yuelong Miao</b> <i>Co-Director Joint Australian Tsunami Warning Centre (JATWC)</i>
0140	<b>9. How can at-risk communities be ready for tsunamis generated by non-seismic and complex sources?</b>	<b>Mr David Coetzee</b> <i>Manager Regional Partnerships, New Zealand National Emergency Management Agency</i>
0150	<b>10. Questions &amp; Answers for all presentations</b>	<b>All presenters</b>
0200	<b>11. Panel Discussion</b>  <b>Moderators:</b> <b>Mr Jiuta Korovulavula</b> <i>National Professional Officer for Disaster Risk Reduction &amp; Tsunami Warning at the Intergovernmental Oceanographic Commission (IOC) of UNESCO</i> <b>Ms Gabrielle Emery</b> <i>Head of the Pacific Subregional Office of the United Nations Office for Disaster Risk Reduction (UNDRR)</i>	<b>Mr Yuji Nishimae</b> <i>Scientific Officer for International Tsunami Information Japan Meteorological Agency (JMA), Chair IOC-UNESCO ICG Pacific Tsunami Warning &amp; Mitigation System (PTWS)</i> <b>Mr Ofa Fa'anunu</b> <i>Director, Tongan Meteorological Service</i> <b>Dr Silva Chacon-Barrantes</b> <i>Coordinator National Tsunami Monitoring System (SINAMOT), Puerto Rico Chair, IOC-UNESCO ICG for Tsunami and other Coastal Hazards Warning System for the Caribbean and Adjacent Regions (CARIBE-EWS)</i> <b>Dr Nuraini Rahma Hanifa</b> <i>Indonesian Research Organisation of Earth Sciences National Research and Innovation Agency (BRIN) Secretary General for U-INSPIRE</i> <b>Ms Christa von Hillebrandt-Andrade</b> <i>Deputy Director of the International Tsunami Information Centre – Caribbean Office</i> <b>Dr Laura Kong</b> <i>Director, IOC-UNESCO/NOAA International Tsunami Information Centre</i>
0230	<b>12. End</b>	



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SESSION B: 0700 – 0930 UTC, 7 <sup>th</sup> April 2022 <i><u>What do we know and need to know to warn for tsunamis generated by non-seismic and complex sources?</u></i> <i>Moderator: Rick Bailey IOC Tsunami Unit</i>		
Time (UTC)	Agenda Item	Speaker
0700	<b>1. Opening</b>	<p><b>Dr Alexander Frolov,</b> <i>Vice-Chair Intergovernmental Oceanographic Commission (IOC) of UNESCO, Chair IOC-UNESCO Working Group on Tsunami and Other hazards related to sea level Warning and mitigation Systems</i></p> <p><b>Mr Bernardo Aliaga,</b> <i>Acting Head, IOC-UNESCO Tsunami Unit</i></p> <p><b>Mr Rick Bailey</b> <i>Head of IOC-UNESCO Secretariat for the Indian Ocean Tsunami Warning &amp; Mitigation System</i></p>
0710	<b>2. Keynote: What are tsunamis generated by non-seismic and complex sources and how do we warn for them?</b>	<p><b>Dr Francois Schindele</b> <i>International tsunami expert, Commissariat à l’Energie Atomique et aux Energies Alternatives (CEA), France Chair, IOC-UNESCO Ad hoc Team Tsunamis Generated by Volcanoes</i></p>
0730	<b>3. What are the stakeholder requirements and international framework drivers for warning of tsunamis?</b>	<p><b>Dr Srinivas Kumar</b> <i>Director, Indian National Centre for Ocean Information and Services (INCOIS) Chair, UN Ocean Decade Tsunami Programme Science Committee</i></p>
0740	<b>4. The seven types of volcanic tsunami sources</b>	<p><b>Dr Raphael Paris</b> <i>Geologist, CNRS - Laboratoire Magmas &amp; Volcans, France</i></p>
0750	<b>5. What do communities require to be able to effectively respond to tsunamis generated by non-seismic and complex sources?</b>	<p><b>Mr Harald Spahn</b> <i>Consulting Services &amp; Training, Natural Resources and Environmental Management, Disaster Risk Reduction</i></p>

0800	<b>6. German-Indonesian Tsunami Risk Project - cooperation on warning for non-seismic tsunamis</b>	<b>Dr Jorn Lauterjung</b> <i>Consultant Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum - GFZ</i>
0810	<b>7. Kyoto Landslide Consortium 2020 and submarine landslide related activities</b>	<b>Prof Dwikorita Karnawati</b> <i>Head of Indonesian Meteorological Climatological and Geophysical Agency (BMKG) Chair, IOC-UNESCO ICG for Indian Ocean Tsunami Warning &amp; Mitigation System</i>
0820	<b>8. A new technology that could help detect and warn for tsunamis generated by non-seismic and complex sources</b>	<b>Dr Bruce Howe</b> <i>Chair, Joint Task Force (JTF), ITU/WMO/IOC SMART Cables for Observing the Ocean Science Monitoring And Reliable Telecommunications, Climate Monitoring and Disaster Mitigation</i>
0830	<b>9. Questions &amp; Answers</b>	<b>All presenters</b>
0850	<b>10. Panel Discussion</b>  <b>Moderators:</b> <b>Ms Irina Rafliana</b> <i>Science communication officer at the Indonesian National Research and Innovation Agency (BRIN) Associate researcher at the Deutsches Institut für Entwicklungs politik in Bonn Germany</i> <b>Ms Nora Gale</b> <i>Assistant Programme Specialist at the Field Office of the IOC-UNESCO Secretariat in Perth, Australia for the Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning &amp; Mitigation System</i>	<b>Dr Srinivas Kumar</b> <i>Director, Indian National Centre for Ocean Information and Services (INCOIS) Chair, UN Ocean Decade Tsunami Programme Science Committee</i> <b>Dr Helene Herbert</b> <i>Research Director and Deputy Head Laboratoire de Détection et de Géophysique (LDG), Commissariat à l'Énergie Atomique et aux Énergies Alternatives (CEA), France</i> <b>Prof Dwikorita Karnawati</b> <i>Head of Indonesian Meteorological Climatological and Geophysical Agency (BMKG) Chair, IOC-UNESCO ICG for Indian Ocean Tsunami Warning &amp; Mitigation System (IOTWMS)</i> <b>Dr Maria Ana Baptista</b> <i>Professor at Instituto Superior de Engenharia de Lisboa, Portugal Chair IOC-UNESCO ICG for NE Atlantic, the Mediterranean and Connected Seas Tsunami Warning and Mitigation System (NEAMTWS)</i> <b>Dr Harkunti Rahyu</b> <i>Faculty member of the Bandung Institute of Technology (ITB) Indonesia Chair, IOC-UNESCO Task Team on Disaster Management and Preparedness</i> <b>Mr Joshua Baghdady</b> <i>Chair of the Early Career Ocean Professionals section (ECOPs) of the Marine Technology Society</i>
0930	<b>11. End</b>	