IOTIC Report 2016 and Work Plan for 2017-2018

Task Team on Disaster Management & Preparedness
21 - 22 February 2017, Paris, France
IOTIC Activity reports

- Support the development of the exhibition panels for the commemoration of the 70th anniversary of the Makran tsunami (Item 8.3 of the 10th SG meeting)

- Development of EXB Proposals (UNESCAP, JICA, DFAT, GFDRR)

- Conducted Post-Event Assessment of the Performance of the Indian Ocean Tsunami Warning and Mitigation System (14 countries – Australia, India, Indonesia, Iran, Kenya, Mauritius, Myanmar, Pakistan, Seychelles, Singapore, Sri Lanka, South Africa, Tanzania, Timor Leste) → Indonesia

- Support the ICG/IOTWMS SOP Training/Workshop
IOTIC Activity reports

• Building Model Disaster Resilient Cities in Indonesia: Tsunami Hazard
  • “Tsunami in 3 Villages - Remembering 1950 Tsunami Ambon”, education, preparedness and awareness materials for Ambon City and the surrounding area, based on 28 eyewitness stories.
  • Capacity building and development of Standard Operating Procedures for Tsunami Warning Chain for the Moluccas Province, Ambon City, Pandeglang District and Local broadcasting media.
  • Tsunami education and preparedness animation videos
    • Tsunami Early Warning System.
    • Tsunami Preparedness.
    • Tsunami Evacuation.
    • Strategies in surviving tsunamis.
    • Tsunami Early Warning Chain for Local Government.
  • ADDRESS (Adopting Disaster Risk Reduction in Education Sector for Safer Schools) and Adaptation of VISUS Methodology (Visual Inspection for defining the Safety Upgrading Strategies) to assess a schools safety in its structure and infrastructure from 5 hazards; earthquake, flood, landslide, typhoon, and tsunami. (Promotional video on Address and VISUS).
TWE – SOP for BPBD

• SOP BPBD Pandeglang (District level) ➔ Local Tsunami
• SOP BPBD Kota Ambon (City level) ➔ Local and Distance Tsunami
• SOP BPBD Moluccas Province (Provincial Level) ➔ Local and Distance Tsunami

This is the first Tsunami Warning Emergency SOP that link between NTWC, DMO at Provincial and City level
The first SOP at DMO level covering Local and Far field tsunami case
IOTIC Activity reports

• Support to Indian Ocean Small Island Developing States and African Coast developing countries
  • Seychelles 7 – 11th March 2016: Regional Training/Workshop on Coastal Hazard Assessment and Mitigation.
  • Mauritius, 14-18th March 2016: National Training on Standard Operating Procedures for Tsunami Early Warning and Response.
IOTIC Activity reports

• Supported the ICG/IOTWMS IOWave16

• WTAD - Lessons Learnt Workshop on Community Participation at the Indian Ocean Tsunami Wave Exercise 2016, Bandung, 5-6 December 2016
Giga-byte records accumulated and documented

>160

Media Coverage
(Print, Electronic / Broadcasting Media, and Online Media, and Social Media)

>30

Videos on IOWave16
(Official and un-official)

Official Website: www.iowave16.org
Twitter: @IOWave16
IOWave16 Lessons Learned

- Workshop organized by ICG/IOTWMS, IOTIC, and WG1 Chair.
- Supported by UNESCAP and the Gov. of Japan.
- Hosted by Institut Teknologi Bandung (ITB).
- Held in Bandung, 5-6 December 2016.

34 Participants attended the workshop from 11 countries + 2 Organizations (RIMES and GIZ)
- Australia
- Comoros
- India
- Indonesia
- Iran
- Kenya
- Mauritius
- Oman
- Pakistan
- Seychelles
- Timor Leste

Objectives:
- Compile a lessons learned from IO member states conducting community level activities at the IOWave16 Exercise
- Compile recommendation for future IOWaves to include community level activities
- Compile recommendation to sustained community level activities in IOWaves and increase the number of IO member states to do community level activities.

Results

7 Points of Lessons Learned

21 Points of Recommendations
Promoting IOWave16 Community Activities

Japan-ASEAN WTAD Conference
Jakarta 15 December 2016

INDIAN OCEAN WAVE EXERCISES

In the spirit of the Intergovernmental Coordination Group for Indian Ocean Tsunami Warning, Planning, and Mitigation Systems (IOTC/GCMS), UN/ESCAP has provided technical guidance and support for Indonesia’s tsunami warning and response exercise (“IOWave16”). This exercise was organized by the National Tsunami Warning Centre (NTWC) of the National Disaster Mitigation Agency in Indonesia. UN/ESCAP provided technical, logistic, and training support to the participants of the IOWave16 collaboration exercises.

IOWave16 key to tsunami survival

Tsunami are unpredictable, but when a tsunami strikes, it can be extremely deadly. Therefore, IOWave16, as regular exercise is essential to foster awareness and to test end-to-end emergency scenarios where relevant agencies, community organizations and schools work together to prepare for the evacuation after a tsunami is issued.

End-to-end tsunami early warning system

It is a complex system of agencies and institutions, regional tsunami service centers, national tsunami warning centres, disaster management offices, and finally the tsunami-affected communities all connected using an effective communication chain. It begins with the rapid detection of a tsunami wave and ends with communities’ appropriate and timely response to a warning.

INDIAN OCEAN WAVE EXERCISES

At the invitation of the Inter-governational Coordination Group for Indian Ocean Tsunami Warning, Planning, and Mitigation Systems (IOTC/GCMS) and in response to the Balakot air strikes in Pakistan on February 25th, 2023, UN/ESCAP has provided technical, logistic, and training support to the participants of the IOWave16 collaboration exercises.

Partnerships with other stakeholders

IOWave16 HIGHLIGHTS

Participation of children and schools

Working with local governments to save lives

Engaging the tourism industry

Reaching to the most-at-risk

UNESCO Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning, Planning, and Mitigation Systems (IOTC/GCMS) in response to the Balakot air strikes in Pakistan on February 25th, 2023, UN/ESCAP has provided technical, logistic, and training support to the participants of the IOWave16 collaboration exercises.

In Indonesia, the tsunami warning system is supported by the National Tsunami Warning Centre (NTWC) of the National Disaster Mitigation Agency. A tsunami warning is issued by the NTWC, based on the detection of a tsunami wave by the National Tsunami Monitoring System (NTMS) or the Tsunami Early Warning System (TEWS).

The exercise included a tsunami warning and response exercise, as well as a media campaign to raise awareness among the public. UN/ESCAP provided technical, logistic, and training support to the participants of the IOWave16 collaboration exercises.

In Indonesia, the tsunami warning system is supported by the National Tsunami Warning Centre (NTWC) of the National Disaster Mitigation Agency. A tsunami warning is issued by the NTWC, based on the detection of a tsunami wave by the National Tsunami Monitoring System (NTMS) or the Tsunami Early Warning System (TEWS).
IOTIC Activity 2017

Awareness, Education and Preparedness Materials

Centre for Global Sustainability Studies

Universiti Sains Malaysia

2017
Overview IOTIC Work Plan
2017 – 2018

Implementation of the International Tsunami Ready Recognition Programme for Indian Ocean

Strengthening Indian Ocean Member States Tsunami Emergency and Response Plan (DMO Tsunami Early Warning and Response, Hazard and Inundation Map, Tsunami Evacuation Map, Plans and Procedures, and the role of Media in EW)

Follow up of WTAD 2016

World Tsunami Awareness Day 2017

IOWave Exercise 2018

Preserving Past Tsunami Information for Future Preparedness in Indonesia
IOTIC Work Plan
2017 – 2018

• Partnership Agreement IOC UNESCO and BMKG on the support to IOTIC

• Planned activities.

A. Regional Workshop on Adopting International Tsunami Ready Recognition (ITRR) Programme in Indian Ocean ➔ IOTIC Regional Workshops (IOTIC_ROWS)

B. Capacity Building on Tsunami Preparedness for Indian Ocean member states ➔ IOTIC trainings/workshops (IOTIC_CAP)

C. Indian Ocean World Tsunami Awareness Day commemoration ➔ Annual (IOTIC_WTAD)

D. Study / research: Preserve past tsunami information for future preparedness ➔ (IOTIC_SEARCH)

E. Tsunami Education, Awareness, and Preparedness Materials ➔ (TEAM_IOTIC)

F. Serve as an information resource for Indian Ocean Tsunami Preparedness and Mitigation

G. Participate in opportunities to enhance and support tsunami awareness and Preparedness Programme in/for the Indian Ocean Tsunami Warning and Mitigation System in coordination with the ICG/IOTWMS secretariat, the Working Groups, and Task Teams.
# IOTIC Work Plan

## Budget 2017

<table>
<thead>
<tr>
<th>Activity</th>
<th>Budget 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Regional Workshop on Adopting International Tsunami Ready Recognition (ITRR) Programme in Indian Ocean ➔ IOTIC Regional Workshops (IOTIC_ROWS)</td>
<td>USD 40.000</td>
</tr>
<tr>
<td>B. Capacity Building on Tsunami Preparedness for Indian Ocean member states ➔ IOTIC trainings/workshops (IOTIC_CAP)</td>
<td>USD 38.000</td>
</tr>
<tr>
<td>C. Indian Ocean World Tsunami Awareness Day commemoration ➔ Annual (IOTIC_WTAD)</td>
<td>USD 5.500</td>
</tr>
<tr>
<td>D. Study / research: Preserve past tsunami information for future preparedness ➔ (IOTIC_SEARCH)</td>
<td>USD 35.000 / event</td>
</tr>
<tr>
<td>E. Tsunami Education, Awareness, and Preparedness Materials ➔ (TEAM_IOTIC)</td>
<td>USD 4.000</td>
</tr>
<tr>
<td>F. Serve as an information resource for Indian Ocean Tsunami Preparedness and Mitigation</td>
<td>USD 2.000</td>
</tr>
<tr>
<td>G. Participate in opportunities to enhance and support tsunami awareness and Preparedness Programme in/for the Indian Ocean Tsunami Warning and Mitigation System in coordination with the ICG/IOTWMS secretariat, the Working Groups, and Task Teams.</td>
<td>USD 2.500</td>
</tr>
</tbody>
</table>

IOC UNESCO USD 20.000 (Regular Programme Budget)  
BMKG USD 80.000 (BMKG National Budget)  
Other USD 62.000 ➔ item D  
USD 162.000  (Note, item D 2 events)

Additional extra-budgetary support could be obtained for these activities
IOTIC Work Plan
2017 – 2018

Extra Budgetary ➔ UNESCAP
• Capacity Building on Tsunami Ready for NWIO member states
  • (USD 250.000 – 350.000)

Extra Budgetary ➔ UNISDR
• Follow up on WTAD Youth Awareness and Preparedness on Tsunami in Indian Ocean member states
  • (USD 150.000 – 200.000)

Extra Budgetary ➔ Indonesia and Others (?)
• Preserving Past Tsunami Information for Future Community Preparedness In Indonesia
  • (USD 35.000 [1] – USD 800.000 [16])
Preserving Past Tsunami Information for Future Community Preparedness In Indonesia

16 Tsunamis before 2004 and 4 after

<table>
<thead>
<tr>
<th>No</th>
<th>Date</th>
<th>Location</th>
<th>Death (Injuries)</th>
<th>Tsunami Height</th>
<th>Time passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8 October 1950</td>
<td>Galala, Hative Kecil, Hutumuri, Ambon</td>
<td>1</td>
<td></td>
<td>63 Years</td>
</tr>
<tr>
<td>2</td>
<td>24 Januari 1965</td>
<td>Seram, Maluku</td>
<td>71</td>
<td></td>
<td>51 Years</td>
</tr>
<tr>
<td>3</td>
<td>11 April 1967</td>
<td>Tinabung, Sumatera Selatan</td>
<td>58 (10)</td>
<td></td>
<td>49 Years</td>
</tr>
<tr>
<td>4</td>
<td>14 Agustus 1968</td>
<td>Tambu, Sulawesi Tengah</td>
<td>392</td>
<td>8-10m</td>
<td>48 Years</td>
</tr>
<tr>
<td>5</td>
<td>23 Februari 1969</td>
<td>Majane, Sulawesi Selatan</td>
<td>64 (97)</td>
<td>10m</td>
<td>47 Years</td>
</tr>
<tr>
<td>6</td>
<td>19 Agustus 1977</td>
<td>Sumba, Nusa Tenggara Timur</td>
<td>316</td>
<td>5-8m</td>
<td>39 Years</td>
</tr>
<tr>
<td>7</td>
<td>1979</td>
<td>Sumbawa, Bali, Lombok, NTB</td>
<td>27 (200)</td>
<td></td>
<td>37 Years</td>
</tr>
<tr>
<td>8</td>
<td>25 Desember 1982</td>
<td>Larantuka, Nusa Tenggara Timur</td>
<td>13 (400)</td>
<td></td>
<td>34 Years</td>
</tr>
<tr>
<td>9</td>
<td>1987</td>
<td>Flores Timur, P.Pantar, NTT</td>
<td>83 (108)</td>
<td></td>
<td>29 Years</td>
</tr>
<tr>
<td>10</td>
<td>1989</td>
<td>P. Alor, NTT</td>
<td>9</td>
<td></td>
<td>27 Years</td>
</tr>
<tr>
<td>11</td>
<td>12 Desember 1992</td>
<td>Flores, Nusa Tenggara Timur</td>
<td>1952 (2126)</td>
<td>11-26m</td>
<td>24 Years</td>
</tr>
<tr>
<td>12</td>
<td>2 Juni 1994</td>
<td>Banyuwangi, Jawa Timur</td>
<td>38 (400)</td>
<td>19m</td>
<td>22 Years</td>
</tr>
<tr>
<td>13</td>
<td>1 Januari 1996</td>
<td>Palu, Sulawesi Tengah</td>
<td>3 (63)</td>
<td></td>
<td>20 Years</td>
</tr>
<tr>
<td>14</td>
<td>17 Februari 1996</td>
<td>Biak, Papua</td>
<td>107</td>
<td>13m</td>
<td>20 Years</td>
</tr>
<tr>
<td>15</td>
<td>28 November 1998</td>
<td>Taliabu, Tabuna, Maliau, Maluku Utara</td>
<td>34</td>
<td>3m</td>
<td>18 Years</td>
</tr>
<tr>
<td>16</td>
<td>4 Mei 2000</td>
<td>Banggai, Sulawesi Tengah</td>
<td>2</td>
<td>3m</td>
<td>17 Years</td>
</tr>
<tr>
<td>17</td>
<td>26 Desember 2004</td>
<td>Banda Aceh, Sumatera</td>
<td>260.000</td>
<td>35m</td>
<td>12 Years</td>
</tr>
<tr>
<td>18</td>
<td>6 Januari 2005</td>
<td>Nias, Sumatera Utara</td>
<td>3.5m</td>
<td></td>
<td>11 Years</td>
</tr>
<tr>
<td>19</td>
<td>17 Juli 2006</td>
<td>Pangandaran, Jawa Barat</td>
<td>668</td>
<td>7-8m</td>
<td>10 Years</td>
</tr>
<tr>
<td>20</td>
<td>25 Oktober 2010</td>
<td>Mentawai, Sumatera Barat</td>
<td>500</td>
<td>10</td>
<td>6 Years</td>
</tr>
</tbody>
</table>
Thank you

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