

ICG/IOTWMS Intersessional Virtual Meeting of the

Working Group 2: Tsunami Detection, Warning and Dissemination

3-4 November 2021

Chair: Dr Yuelong Miao (Australia)

Vice-Chair: Mr Patanjali Kumar Chodavarapu (India)

Vice-Chair: Dr Karyono (Indonesia)

ICG/IOTWMS Working Group 2 Meeting, 3-4 November 2021



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Intergovernmental
Oceanographic
Commission

Agenda

WG2 Meeting 3-4 November 2021

Chair: Dr. Yuelong Miao

3 Nov Time: 5:00 – 8:00 UTC; 09:00-12:00 Oman; 10:30-13:30 Hyderabad; 12:00-15:00 Jakarta; 16:00-19:00 Melbourne

5:00 – 5:30 UTC Moderator: Nora Gale	1. Opening 1.1 Welcome (2 min) <i>Mr. Rick Bailey (Head of ICG/IOTWMS Secretariat)</i> 1.2 Opening Remarks (8 min) <i>Mr. Pattabhi Rama Rao (Vice-Chair ICG/IOTWMS)</i> <i>Dr. Yuelong Miao (WG-2 Chair)</i> 1.3 Review and Adoption of Agenda (10min) <i>Dr. Yuelong Miao (WG-2 Chair)</i> 1.4 WG2 Terms of Reference and Membership (10min) <i>Dr. Yuelong Miao (WG-2 Chair)</i>
5:30 – 6:40 UTC Moderator: Yuelong Miao	2. Reports and Updates on Activities 2.1 UN Ocean Decade (10 min) <i>Mr. Rick Bailey (Head of ICG/IOTWMS Secretariat)</i> 2.2 TOWS TTTWO Report - Feb 2021 (15 min) <i>Mr. Pattabhi Rama Rao (Vice-Chair ICG/IOTWMS)</i> 2.3 TSP Reports on Service Updates (3x5 min per TSP = 15 min) <i>TSP Representative (tbc)</i> 2.4 TSP Performance against KPIs for 2020/21 (5 min) <i>Mr. Patanjali Kumar Chodavarapu (WG-2 Vice-Chair)</i> 2.5 IOTWMS Communication Tests 2020/21 (5 min) <i>Mr. Patanjali Kumar Chodavarapu (WG-2 Vice-Chair)</i> 2.6 IOWAVE20 Preliminary Results (20 mins) <i>Ms Nora Gale</i>
6:40 – 7:00 UTC	Break
7:00 – 7:50 UTC Moderator: Yuelong Miao	2. Reports and Updates on Activities (cont.) 2.7 UNESCAP NWIO Project (15 min) <i>Mr. Rick Bailey (Head of ICG/IOTWMS Secretariat)</i> 2.8 Status IOTWMS Monitoring Networks, incl Impacts of COVID-19 (15 min) <i>Dr. Karyono (WG-2 Vice-Chair)</i> 2.9 TSP/NTWC/DMO operational impacts of COVID-19 (20 min) <i>Everyone</i>
7:50 – 8:00 UTC	Recap of Day #1 and Preparations for Day #2 (10 min)

4 Nov Time: 5:00 – 8:00 UTC; 09:00-12:00 Oman; 10:30-13:30 Hyderabad; 12:00-15:00 Jakarta; 16:00-19:00 Melbourne

5:00 – 6:40 UTC Moderator: Yuelong Miao	3. Discussion 3.1 IOTWMS Service Definition (20min) 3.2 CAP, mobile apps and social media (10min) 3.3 Green's Law (10 mins) 3.4 NAVAREA bulletin implementation (10 mins) 3.5 IOTWMS Contact database annual surveys (10min) 3.6 Timing of Next SOP Training Workshop (10min) 3.7 Timing of Next IOWAVE Exercise (10min) 3.8 Atypical tsunami (10min) 3.9 Near-field tsunami (10min)
6:40 – 7:00 UTC	Break
7:00 – 7:30 UTC Moderator: Yuelong Miao	3. Discussion (cont) 3.10 Other (30min)
7:30 – 7:50 UTC Moderator: Rick Bailey	4. Review of New Recommendations and Actions (20 min) <i>Ms Nora Gale (ICG/IOTWMS Secretariat)</i>
7:50 – 8:00 UTC Moderator: Yuelong Miao	5. Summary and Closing (10min) <i>Mr. Rick Bailey (Head of ICG/IOTWMS Secretariat)</i> <i>Dr. Yuelong Miao (WG-2 Chair)</i>

Working Group 2

Terms of Reference

Liaise with other Working Group(s) and Task Team(s) within the ICG/IOTWMS and with working groups from the other ocean basins through the TOWS-WG to:

1. Coordinate and strengthen the operational implementation of a "System-of-Systems" providing interoperable tsunami threat information products and services for Member States.
2. Monitor the performance of key observational, warning and communication system components.
3. Identify areas of priority for action following assessments, communications tests, exercises and real tsunami events
4. Provide advice to the Indian Ocean Tsunami Information Centre (IOTIC) on educational materials about the warning systems and services
5. Help strengthen the capacity and capability of Member States.

Membership

Chair: [Dr Yuelong Miao](#) (Australia)

Vice-Chair: [Mr Patanjali Kumar Chodavarapu](#) (India)

Vice-Chair: [Dr Karyono](#) (Indonesia)

Members:

- [Dr Robert Greenwood](#) (Australia)
- [Ms Adrienne Moseley](#) (Australia)
- [Mr J Padmanabham](#) (India)
- [Dr Zaty Aktar Mokhtar](#) (Malaysia)
- [Dr Chai Mui Fatt](#) (Malaysia)
- [Mr Krishna Bucha](#) (Mauritius)
- [Mr Jaifar Al-Busaidi](#) (Oman)
- [Mr Malik Al-Ghafri](#) (Oman)
- [Mr Ameer Hyder](#) (Pakistan)
- [Mr Tariq Ibrahim](#) (Pakistan)
- [ACM Somneuk Swatteuk](#) (Thailand)

Work Plan 2019-2021

1. Maintain the NTWC User Guide and TSP Service Definition Document and assist TSPs to implement the requirements of the TSP Service Definition Document
2. Review and harmonise TSP products and websites for NTWC users including NTWC reporting
3. Conduct 6 monthly IOTWMS Communication Tests and prepare reports of each test in conjunction with the Secretariat. Also assist the Secretariat in maintaining a log of issues arising from the tests, and in following up the issues with Member States.
4. Contribute to the planning and running of SOP Training workshops for Indian Ocean NTWCs, DMOs and Media, IOWave20 Exercise and to the Post IOWave20 Workshop. Follow up the Working Group 2 related recommendations in the IOWave18 Report.
5. Review and support operationalising the comprehensive system developed by TSP India for archiving and auto generating KPIs for the IOTWMS.
6. Assist the Secretariat in maintaining the database of seismic and sea-level reporting stations for the IOTWMS.
7. Assist the TSPs in planning for the later introduction of Service Level 3 coastal inundation services, in collaboration with Working Group 1 and the NTWCs.
8. Assist the TSPs in implementing CAP, mobile applications and social media for effective dissemination of tsunami information
9. Assist the TSPs for initiating tsunami bulletins for the Maritime community based on formats finalised by the TOWS-WG
10. Assist the TSPs on service enhancements for atypical and near-field tsunami sources by utilising new techniques and enhanced observational networks as GNSS, SMART Cables, etc.
11. Coordinate with WG-NWIO and the Task Teams for strengthening tsunami early warning in the North West Indian Ocean region

Recap of Day 1

- Welcome Remarks Rick/Pattabhi/Yuelong
 - COVID challenges but system still functioning, WG2 achievements
- Ocean Decade an opportunity (Rick)
- TTTWO Report (Pattabhi)
- TSP Australia Report (Adrienne and Robert)
- TSP India Report (Patanjali)
- TSP Indonesia (Yedi and Karyono)
- Comms Test and KPI 2021 (Patanjali)
- IOWave20 preliminary results (Nora and Weni)
- NWIO Project Update (Rick)

Day 2 Preparations

4 Nov Time: 5:00 – 8:00 UTC; 09:00-12:00 Oman; 10:30-13:30 Hyderabad; 12:00-15:00 Jakarta; 16:00-19:00 Melbourne

2.8 Status IOTWMS Monitoring Networks, incl Impacts of COVID-19 (15 min)

Dr. Karyono (WG-2 Vice-Chair)

2.9 TSP/NTWC/DMO operational impacts of COVID-19 (20 min)

5:00 – 6:40 UTC

Moderator:
Yuelong Miao

3. Discussion

3.1 IOTWMS Service Definition (*Greenwood, 20min*)

3.2 CAP, mobile apps and social media (*Karyono, /J. Padmanabham 10mins*)

3.3 Green's Law (*Patanjali 10mins*)

3.4 NAVAREA bulletin implementation (*Yuelong, 10 mins*)

3.5 IOTWMS Contact database annual surveys (10min)

3.6 Timing of Next SOP Training Workshop (10min)

3.7 Timing of Next IOWAVE Exercise (10min)

3.8 Atypical tsunami (*Karyono/PK/Greenwood, 10min*)

3.9 Near-field tsunami (*Yuelong, 10min*)

6:40 – 7:00 UTC

Break

7:00 – 7:30 UTC

Moderator:
Yuelong Miao

3. Discussion (cont)

3.10 Other (30min)

7:30 – 7:50 UTC

Moderator:
Rick Bailey

4. Review of New Recommendations and Actions (20 min)

Ms Nora Gale (ICG/IOTWMS Secretariat)

7:50 – 8:00 UTC

Moderator:
Yuelong Miao

5. Summary and Closing (10min)

Mr. Rick Bailey (Head of ICG/IOTWMS Secretariat)

Dr. Yuelong Miao (WG-2 Chair)