

Fourteenth Session of the Intergovernmental Coordination Group  
for the Indian Ocean Tsunami Warning and Mitigation System  
(ICG/IOTWMS-XIV)

Jakarta, Indonesia, 17-19 November 2024

**National Report of Singapore**

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Page 1: Overview

**Q1** **Confirm by clicking the checkbox**

Consent: I have read the above information and wish to proceed.

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**Q2** **Singapore**

Please select your country from the list below:

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Page 2: PART I: Basic Information

**Q3**

TNC Name:

Lesley Choo

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**Q4**

Position:

Director

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**Q5**

Organisation:

Meteorological Service Singapore

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**Q6**

Telephone Number:

**Q7**

E-mail Address:

lesley\_choo@nea.gov.sg

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**Q8**

Respondent skipped this question

Fax Number:

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**Q9**

Postal Address:

Meteorological Service Singapore, PO Box 8, Changi Airport, Singapore 918141

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Page 3: PART I: Basic Information

**Q10**

NTWC Agency Name:

Meteorological Service Singapore

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**Q11**

NTWC URL (web link) for tsunami warnings:

<http://www.weather.gov.sg/home/>

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**Q12**

NTWC Agency Contact or Officer in Charge (person):

Chong Wei Ming

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**Q13**

Position:

Covering Deputy Director

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**Q14**

Telephone Number:

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**Q15**

E-mail Address:

chong\_wei\_ming@nea.gov.sg

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**Q16**

Postal Address:

Meteorological Service Singapore, PO Box 8, Changi Airport, Singapore 918141

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**Q17**

Yes

3a) Is your Tsunami Warning Focal Point (TWFP) the same as your National Tsunami Warning Centre (NTWC) agency?The TWFP is the 24 x 7 point of contact (office, operational unit or position, not a person) officially designated by the NTWC or the government to receive and disseminate tsunami information from an ICG Tsunami Service Provider according to established national Standard Operating Procedures. The TWFP may or not be the NTWC.

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Page 4: PART I: Basic Information

**Q18**

Respondent skipped this question

TWFP Agency Name (if different from the NTWC Agency):

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**Q19**

Respondent skipped this question

Name:

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**Q20**

Respondent skipped this question

Position:

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**Q21**

Respondent skipped this question

Telephone Number:

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**Q22**

Respondent skipped this question

E-mail Address:

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**Q23**

Respondent skipped this question

Postal Address:

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Page 5: PART I: Basic Information

**Q24**

TWFP 24x7 point of contact (office, operational unit or position, not a person):

Meteorological Service Singapore

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**Q25**

E-mail Address:

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**Q26**

Telephone Number:

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**Q27**

Cellular Telephone Number:

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**Q28**

Fax:

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Page 6: PART I: Basic Information

**Q29**

No

3d) Has your country appointed a Tsunami Ready Focal Point (TRFP)?The TRFP is a person from the Disaster Management (DMO) or similar institution that:- Acts as a national advocate for national implementation of the Tsunami Ready Recognition Programme (TRRP) or a recognised similar initiative to help make at-risk communities prepared and resilient to any tsunami threat within their Member State.- Actively contributes to the national implementation of TRRP or a recognised similar initiative.- Routinely update UNESCO-IOC ICG/IOTWMS on the status of the national implementation of the TRRP or a recognised similar initiative. - Informs relevant national authorities and organisations involved in the implementation of TRRP or a recognised similar initiative on any information and/or updates provided by UNESCO-IOC on activities related to making at risk communities Tsunami Ready.

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**Q30**

Respondent skipped this question

If yes, please provide their details below:Name of the TRFP:

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**Q31**

Respondent skipped this question

Position:

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**Q32** Respondent skipped this question

Agency:

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**Q33** Respondent skipped this question

Telephone Number:

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**Q34** Respondent skipped this question

E-mail Address:

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**Q35** Respondent skipped this question

Postal Address:

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Page 7: PART II: Hazard Assessment

**Q36** Yes

4a) Has your country undertaken a hazard assessment?

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Page 8: PART II: Hazard Assessment

**Q37** Single hazard assessment on tsunami AND multi-hazard assessment including tsunami

4b) What type of hazard assessment has been carried out?

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Page 9: PART II: Hazard Assessment

**Q38** Tsunami,  
Earthquakes,  
Landslide,  
Volcanic eruptions

4c) What type of multi-hazard assessment has been carried out? (select all that apply)

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Page 10: PART II: Hazard Assessment

**Q39** National Agency,  
National / Local University

4d) Who did the tsunami hazard assessment in your country? (select all that apply)

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**Q40** National Level,  
Regional Level

4e) At what level was the tsunami hazard assessment carried out? (select all that apply)

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**Q41**

4f) Which coastal areas have been mapped for tsunami hazard? Please include the names of the Region / City and an approximation of the percentage mapped.

Singapore, 90%, based on large earthquake scenarios in the Manila Trench and Sunda Trench

**Q42**

4g) For each of the data types listed below (in rows), answer the two questions (in columns). Select Yes / No / Don't know from the drop-down menu.

	Was this data used for tsunami hazard assessment?	Is this data publicly available?
Bathymetry	Yes	Yes
Seismo-tectonic model	Yes	No
Topography	No	Don't know
Land Cover	No	Don't know
Infrastructure details	Yes	No

**Q43**

4h) What products do you have from the tsunami hazard assessment? (select all that apply)

**Probabilistic Tsunami Hazard Assessment (PTHA),  
Deterministic Tsunami Hazard Analysis,  
Inundation map**

Page 11: PART II: Hazard Assessment

**Q44**

4i) On a scale of 1 (Very poor) to 5 (Very good), please rate your country's capability to undertake tsunami hazard assessment

Capacity to undertake tsunami hazard assessment **Good**

**Q45**

4j) On a scale of 1 (Not a priority) to 5 (Essential), what is the priority level in your country to improve capacity in the following areas of tsunami hazard assessment?

Probabilistic Tsunami Hazard Assessment (PTHA)	<b>Essential</b>
Deterministic Tsunami Hazard Analysis	<b>Essential</b>
Field Studies on Tsunami Impacts	<b>High priority</b>
Hazard map	<b>High priority</b>
Inundation map	<b>Essential</b>
Evacuation map	<b>Medium priority</b>

**Q46**

4k) On a scale of 1 (No capacity) to 5 (Very good), what capacity does your country have to give training and/or consultancy on tsunami hazard assessment to other countries?

Probabilistic Tsunami Hazard Assessment (PTHA)	<b>Moderate</b>
Deterministic Tsunami Hazard Analysis	<b>Moderate</b>
Field Studies on Tsunami Impacts	<b>No capacity</b>
Hazard map	<b>Moderate</b>
Inundation map	<b>Moderate</b>
Evacuation map	<b>No capacity</b>

Page 12: PART II: Risk Assessment

**Q47** **Yes**

5a) Has your country undertaken a tsunami risk assessment?

Page 13: PART II: Risk Assessment

**Q48** **Single risk assessment on tsunami AND multi-hazard risk assessment including tsunami**

5b) What type of risk assessment?

Page 14: PART II: Risk Assessment

**Q49** **Tsunami,**  
**Earthquakes,**  
**Landslide,**  
**Volcanic eruptions**

5c) What hazards have been considered in your multi-hazard risk assessment? (select all that apply)

Page 15: PART II: Risk Assessment

**Q50** **National Agency,**  
**National/Local University**

5d) Who did the tsunami risk assessment in your country? (select all that apply)

**Q51** **National Level**

5e) At what level was the tsunami risk assessment carried out? (select all that apply)

**Q52**

5f) Which coastal areas have been tsunami risk mapped? Please include the names of the Region / City and an approximation of the overall national percentage of risk prone areas mapped.

Singapore, 90%, based on large earthquake scenarios in the Manila Trench and Sunda Trench

**Q53**

Respondent skipped this question

5g) How many Cities / Municipalities / Regencies are at risk from tsunami?

**Q54**

Risk map

5h) What products do you have from the tsunami risk assessment? (select all that apply)

Page 16: PART II: Risk Assessment

**Q55**

5i) On a scale of 1 (Very poor) to 5 (Very good), please rate your country's capability to undertake tsunami risk assessment

Capability to undertake tsunami risk assessment **Very good**

**Q56**

5j) On a scale of 1 (Not a priority) to 5 (Essential), what is the priority level of your country to improve capacity in the following areas of tsunami risk assessment?

Tsunami risk assessment at national level	<b>Essential</b>
Tsunami risk assessment at regional level	<b>Essential</b>
Tsunami risk assessment at city level	<b>Essential</b>
Tsunami risk assessment at village level	<b>Not a priority</b>
Tsunami risk assessment at community / neighbourhood level	<b>Not a priority</b>

**Q57**

5k) On a scale of 1 (No capacity) to 5 (Very good) what capacity does your country have to give training and/or consultancy on tsunami risk assessment to other countries?

Tsunami risk assessment at national level	<b>Moderate</b>
Tsunami risk assessment at regional level	<b>Moderate</b>
Tsunami risk assessment at city level	<b>Moderate</b>
Tsunami risk assessment at village level	<b>No capacity</b>
Tsunami risk assessment at community / neighbourhood level	<b>No capacity</b>
Other (specify below)	<b>No capacity</b>

Page 17: PART II: Policies

**Q58**

6a) Does your country have a national tsunami policy? For each of the four disaster management phases listed below, select standalone policy / multi hazard policy / policy not available. Use the comments box to detail the specific name of the policy (if available).

	In what form is the policy?
Prevention and mitigation	<b>Multi hazard including tsunami</b>
Preparedness	<b>Policy is not available</b>
Emergency response	<b>Policy is not available</b>
Rehabilitation and reconstruction	<b>Policy is not available</b>

What is the name of policy? (if available):

OPS NOAH

**Q59**

6b) Does your country have local tsunami policies? For each of the disaster management phases listed below, select standalone policy / multi hazard policy / policy not available. Use the comments box to detail the specific name(s) of the policy (if available).

	In what form is the policy?
Prevention and mitigation	<b>Policy is not available</b>
Preparedness	<b>Policy is not available</b>
Emergency response	<b>Policy is not available</b>
Rehabilitation and reconstruction	<b>Policy is not available</b>

**Q60**

7a) Does your country have national, local and community level tsunami disaster risk reduction plans? For each of the four disaster management phases listed below, select standalone plan / multi hazard plan / plan not available. Use the comments box to detail the specific name(s) of the plan(s) (if available). Please use the scroll bar to view the entire table.

	National level	Local level	Community level
Prevention and mitigation	<b>Multi hazard including tsunami</b>	<b>Local plan is not available</b>	<b>Community plan is not available</b>
Preparedness	<b>Multi hazard including tsunami</b>	<b>Local plan is not available</b>	<b>Community plan is not available</b>
Emergency response	<b>Multi hazard including tsunami</b>	<b>Local plan is not available</b>	<b>Community plan is not available</b>
Rehabilitation and reconstruction	<b>Multi hazard including tsunami</b>	<b>Local plan is not available</b>	<b>Community plan is not available</b>

What is the name of the plan(s) (if available):  
OPS NOAH

**Q61**

Yes

7b) Are your country's tsunami disaster risk reduction plans based on hazards and risk assessments?

**Q62**

8a) Does your country have national tsunami DRR guidelines? For each of the four lifecycle phases, select standalone guidelines / multi hazard guidelines / guidelines not available. Use the comments box to detail the specific name of the guidelines (if available).

	In what form are the guidelines?
Prevention and mitigation	<b>Standalone tsunami guidelines</b>
Preparedness	<b>Standalone tsunami guidelines</b>
Emergency response	<b>Standalone tsunami guidelines</b>
Rehabilitation and reconstruction	<b>Standalone tsunami guidelines</b>

**Q63**

8b) Does your country have local tsunami DRR guidelines? For each of the four lifecycle phases, select standalone guidelines / multi-hazard guidelines / guidelines not available. Use the comments box to detail the specific name of the guidelines (if available).

	In what form are the guidelines?
Prevention and mitigation	<b>Standalone tsunami guidelines</b>
Preparedness	<b>Standalone tsunami guidelines</b>
Emergency response	<b>Standalone tsunami guidelines</b>
Rehabilitation and reconstruction	<b>Standalone tsunami guidelines</b>

Page 20: PART III: Detection and Warning

**Q64**

**Yes**

9a) Does your country have a national capability to assess and/or receive potential tsunami threat information and advise/warn its coastal communities?

Page 21: PART III: Detection and Warning

**Q65**

**Use TSP data**

9b) Does your country utilise the data provided by the IOTWMS Tsunami Service Providers (TSPs) for the Coastal Forecast Zones (CFZ) of your country's coastline to determine national threats or does it undertake its own threat assessments? (select all that apply)

**Q66**

9c) Which organisation in your country has the responsibility for assessing and/or receiving potential tsunami threat information? Please provide the name and contact details.

Meteorological Service Singapore, mss\_cfo\_fcsters@nea.gov.sg

**Q67**

**Yes**

9d) Does the organisation responsible for assessing and/or receiving potential tsunami threat information operate 24x7?

**Q68** 9e) What / which infrastructure is available to enable 24x7 operations? (select all that apply)

**Computers,**  
**Internet,**  
**Landline Phone,**  
**Mobile Phone or Cell Phone,**  
**Fax,**  
**GTS (WMO Global Telecommunication System)**

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**Q69** 9f) Which level of tsunami threat forecast information is produced by the responsible organisation? (select all that apply)

**National,**  
**Local**

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**Q70** 9g) Does the organisation have access to national and/or international seismic networks? (please select one from the following options)

**Yes, national and international**

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**Q71** 9h) Is national seismic data shared in real time?

**All national seismic data is shared in real time**

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Page 23: PART III: Detection and Warning

**Q72** 9i) Does your organisation have access to GNSS data?

**Yes**

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**Q73** 9j) Is the list of broadband seismometers operated by your country listed accurately in the IOTWMS seismic database [http://www.ioc-tsunami.org/index.php?option=com\\_oe&task=viewDocumentRecord&docID=20796](http://www.ioc-tsunami.org/index.php?option=com_oe&task=viewDocumentRecord&docID=20796)?

**Yes**

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**Q74** 9k) When compared to the IOTWMS seismic database ([http://www.ioc-tsunami.org/index.php?option=com\\_oe&task=viewDocumentRecord&docID=20796](http://www.ioc-tsunami.org/index.php?option=com_oe&task=viewDocumentRecord&docID=20796)), have you decommissioned or added broadband seismometers operated by your country (Check all that apply and include details in the comments section below)

**There are no changes**

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Page 24: PART III: Detection and Warning

**Q75**

**Yes, national and international**

9l) Does the organisation have access to national and/or international sea level networks? (please select one answer from the following options)

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Page 25: PART III: Detection and Warning

**Q76**

**Respondent skipped this question**

9m) Is national sea level data shared in real time?

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Page 26: PART III: Detection and Warning

**Q77**

**Respondent skipped this question**

9n) Is the list of sea level stations operated by your country listed accurately in the IOTWMS sea level database ([http://www.ioc-tsunami.org/index.php?option=com\\_oe&task=viewDocumentRecord&docID=20833](http://www.ioc-tsunami.org/index.php?option=com_oe&task=viewDocumentRecord&docID=20833))?

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**Q78**

**Respondent skipped this question**

9o) When compared to the IOTWMS sea level database ([http://www.ioc-tsunami.org/index.php?option=com\\_oe&task=viewDocumentRecord&docID=20833](http://www.ioc-tsunami.org/index.php?option=com_oe&task=viewDocumentRecord&docID=20833)), have you decommissioned or added sea level stations operated by your country (Check all that apply and include details in the comments section below)

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Page 27: PART III: Detection and Warning

**Q79**

**No other observing networks are operated by the country**

9p) What other observing networks are operated by your country and used for tsunami early warning?

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**Q80**

**YesPlease specify the software tools used:  
SIGMA, TOAST**

9q) Does the organisation have the capability of analysing real-time seismic and sea-level data for potential tsunami threat?

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**Q81**

**YesPlease specify the modelling tools and data used:  
TOAST (Easywave)**

9r) Does the organisation have capability for tsunami modelling to support generation of threat forecasts?

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**Q82**

**Yes**

9s) Does the organisation responsible for identifying a potential tsunami threat also issue national tsunami no threat, watches, advisories, alerts and/or warnings?

**Q83**

9t) What are the threshold or criteria (for example sea levels, magnitude) for declaring a potential national tsunami emergency, watch, alert, advisory or warning?

If tsunami waves generated by magnitude  $\geq 8.5$  undersea earthquake are expected to affect Singapore

**Q84**

9u) What actions were taken by your country's National Tsunami Warning Centre (NTWC) and/or Tsunami Warning Focal Point (TWFP) in response to earthquake events and messages issued by the IOTWMS TSPs during the inter-session period?

Nil

**Q85**

9v) Did your country's NTWC and/or TWFP participate in the 6-monthly communications tests conducted by the IOTWMS TSPs?

**Yes (please name the organisation(s) that participated in the additional comments)**

,  
Additional comments:  
Meteorological Service Singapore

**Q86**

9w) Did your country's NTWC and/or TWFP participate in national and/or international Tsunami Exercises (eg. IOWave) conducted in the inter-session period between ICG meetings?

**Yes (please name the exercise(s) and organisation(s) that participated in the additional comments)**

,  
Additional comments:  
IOWave23, Meteorological Service Singapore

**Q87**

**No**

9x) After the December 26 2004 tsunami and until now, was your country impacted by any damaging tsunami? If Yes, what was your national response to each event (please comment if warnings were issued by your NTWC in a timely manner to enable communities to respond, if public were evacuated, etc.)

**Q88**

9y) Since 2018, have there been any enhancements in your national warning SOPs and alerting?

Yes (please specify the enhancements):  
Ongoing Tsunami impact review and ongoing review of Tsunami response plan and Agencies support plans

**Q89**

10a) How is the tsunami information (warning, public safety action, etc) disseminated within country? (select all that apply)

- Email,
- SMS,
- Webpage,
- Radio,
- WhatsApp / Facebook / Other social media,
- Sirens,
- Television,
- Police/military,
- Public alert system

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**Q90**

10b) For each emergency response organisation listed below, which communication methods for emergency response are available? (select all that apply)

National DMOs	SMS, Siren
Local DMOs	SMS, Siren
General Public	SMS, Siren
Coastal Communities	SMS, Siren
Media	SMS, Siren
Other communication methods (please specify)	
Television, Webpage	

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**Q91**

10c) How is the warning situation terminated?

When the All Clear signal is given by the NTWC that no tsunami is expected to affect Singapore

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**Q92**

10d) What website is used for display of national threat status during events? Please provide the URL.

<http://www.weather.gov.sg/home/>

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**Q93**

No

10e) Does your country's national tsunami warning system utilise the Common Alert Protocol (CAP) for the dissemination of warnings? If yes, please describe how the CAP is integrated into your warning dissemination processes, including any platforms or communication channels that are specifically utilised to broadcast CAP-formatted alerts to the public and relevant stakeholders.

**Q94**

10f) Who is primarily responsible for the direct dissemination of tsunami alerts to the public in your country, and what is the timeframe for these alerts to achieve effective last-mile responses? Please provide details.

Meteorological Service Singapore. Alerts are targeted to be sent 10-12 hours before Tsunami reaches Singapore, after a large earthquake in the Manila Trench or Sunda Trench.

Page 29: PART IV: Standard Operating Procedures

**Q95**

11a) For each of the (upstream) emergency response issues listed below (in rows), consider the four questions (in columns). Select a yes/no response using the drop-down menus.

	Does your SOP address this aspect of tsunami emergency response?	Is support required to develop/improve this aspect of tsunami emergency response in your SOP?	Is support required to develop Human Resources in this aspect of tsunami emergency response?	Is support required to develop infrastructure for this aspect of tsunami emergency response?
24/7 Emergency Operation Centre (EOC)	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>No</b>
Receiving information from the NTWC	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>No</b>
Response Criteria / decision making	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>No</b>

**Q96**

11b) For each of the (downstream) emergency response issues listed below (in rows), consider the four questions (in columns). Select a yes/no response using the drop-down menus.

	Does your SOP address this aspect of tsunami emergency response?	Is support required to develop/improve this aspect of tsunami emergency response in your SOP?	Is support required to develop Human Resources in this aspect of tsunami emergency response?	Is support required to develop infrastructure for this aspect of tsunami emergency response?
Warning dissemination	Yes	No	No	No
Evacuation call procedures	Yes	No	No	No
Community evacuation procedures	Yes	No	No	No
Communication with NTWC	Yes	No	No	No
Communication with Local Government	Yes	No	No	No
Media arrangements	Yes	No	No	No
Communication with other stakeholder i.e. Red Cross, Fire Brigade, Search and Rescue, Police, Army, Navy etc.	Yes	No	No	No

**Q97**

Yes

11c) Would your country be willing to share your SOPs with the IOTIC and other countries?

Page 30: PART IV: Evacuation Infrastructure

**Q98**

12a) Does your country have the following evacuation infrastructure? (select all that apply and detail specific areas). Please use the scroll bar below to view the entire table.

Evacuation shelter	No
Vertical evacuation structure	No
Natural or artificial hill for vertical evacuation	No
Evacuation signage	No
Other (please specify)	No

**Q99** **No**

12b) Is your evacuation infrastructure integrated in the evacuation plan?

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Page 31: PART IV: Tsunami Exercises

**Q100** **National guidelines**

12c) Are tsunami exercises incorporated within national policies and guidelines? (select all that apply)

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**Q101** **National level**

12d) At what levels were the exercises conducted during the inter-sessional (between ICG meetings) period? (select all that apply)

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**Q102**

12e) What kind of tsunami exercise activities have been undertaken in your country and how many times during the inter-sessional (between ICG Meetings) period?

Organisation table top exercise	<b>Yes</b>
Comment:	1
Inter-organisation table top exercise	<b>Yes</b>
Comment:	1
National tsunami drill/exercise	<b>Yes</b>
Comment:	1
Indian Ocean Wave exercise	<b>Yes</b>
Comment:	1
Local tsunami drill/exercise	<b>No</b>
Other (please specify)	<b>No</b>

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Page 32: PART IV: Public Awareness

**Q103** **Respondent skipped this question**

13a) Who is responsible for tsunami public awareness programmes in your country?

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**Q104** **Respondent skipped this question**

13b) What tsunami related education and awareness materials do you have? (select all that apply)

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**Q105**

Respondent skipped this question

13c) Would your country be willing to share these education and awareness materials with the Indian Ocean Tsunami Information Centre (IOTIC) and other countries?

**Q106**

13d) Do you undertake the following tsunami awareness activities?

World Tsunami Awareness Day	No
Global Disaster Risk Reduction day	No
Public tsunami preparedness outreach	No
School and/or children awareness	No
Exhibitions	No
Competitions or other ways of highlighting tsunami safety	No
Tsunami Exercise	Yes
Comment:	Annually
Other (Please specify)	No

**Q107**

Respondent skipped this question

13e) Use the boxes below to indicate any areas in which you require support from the IOTIC to develop or enhance public awareness in your country. If you do not require support, please leave blank.

**Q108**

No

13f) Can your country offer support to other Member States to develop or enhance public awareness in their country?

Page 33: PART V: UNESCO-IOC Tsunami Ready Recognition Programme (TRRP)

**Q109**

No, and there are no plans to do so in the near future (please elaborate in the additional comments)

14a) Does your country have an interest to participate in the UNESCO-IOC TRRP?

**Q110**

No

14b) Aside from UNESCO-IOC TRRP, is your country currently implementing any other tsunami resilience and preparedness related initiatives or programmes?

<b>Q111</b>	Village	0
14c) What number of villages, cities/districts and provinces/state levels in your country are at risk to tsunami?	City / District	0
	Province / State	0

<b>Q112</b>	<b>No (if no, is there another existing coordination mechanism that can fulfil this role of NTRB? please specify below)</b>
14d) Does your country have a National Tsunami Ready Board (NTRB)The National Tsunami Ready Board (NTRB) is responsible for guiding the community on the steps for Tsunami Ready recognition and for the review and approval of the community's Tsunami Ready application. It consists of designated representatives of the National Emergency Management Agency or Disaster Mangement Office, NTWC, TNC, the scientific community, and other invited guests.	<p>,</p> <p>Please specify any existing coordination mechanisms that can fulfil this role of NTRB:</p> <p>Singapore is a city state and has a single national Tsunami plan for all local communities</p>

<b>Q113</b>	<b>Respondent skipped this question</b>
14e) Which institution(s) should be involved in the implementation of TRRP or similar national initiative? (please use a comma between the name of the institutions)	

<b>Q114</b>	<b>No</b>
14f) Are any communities (for example, villages, cities, districts, provinces or states) in your country currently working towards implementing or interested in implementing the UNESCO-IOC TRRP or similar national initiative?	

<b>Q115</b>	<b>No</b>
14g) Have any communities in your country achieved recognition through UNESCO-IOC TRRP or similar national initiative?	

Page 34: PART V: UNESCO-IOC Tsunami Ready Recognition Programme (TRRP)

<b>Q116</b>	<b>Yes, it can be easily done through mobilising national experts and funding</b>
15a) Is there national capacity to develop tsunami hazard maps?	

<b>Q117</b>	<b>Yes, it can be easily done through mobilising national experts and funding</b>
15b) Is there national capacity to train the community on identifying and estimating the number of people that live in the tsunami hazard zone?	

<b>Q118</b> 15c) Is there national capacity to train the community on the inventory of available economic, infrastructural, political, and social resources to reduce tsunami risk at the community level?	<b>Yes, it can be easily done through mobilising national experts and funding</b>
<b>Q119</b> 15d) Is there national capacity to work with the community to develop tsunami evacuation maps, plans and procedures at the community level?	<b>Yes, it can be easily done through mobilising national experts and funding</b>
<b>Q120</b> 15e) Is there national capacity to work with the community to develop a public display of tsunami information?	<b>Yes, it can be easily done through mobilising national experts and funding</b>
<b>Q121</b> 15f) Is there national capacity to work with the community to develop local context outreach and public education materials?	<b>Yes, it can be easily done through mobilising national experts and funding</b>
<b>Q122</b> 15g) Is there national capacity to train and build capacity of community to be able to organise and implement outreach and education activity?	<b>Yes, it can be easily done through mobilising national experts and funding</b>
<b>Q123</b> 15h) Is there national capacity to train and build capacity of community to be able to organise and implement tsunami exercises?	<b>Yes, it can be easily done through mobilising national experts and funding</b>
<b>Q124</b> 15i) Is there national capacity to train and build capacity of communities to be able to develop their community Emergency Operation Plan?	<b>Yes, it can be easily done through mobilising national experts and funding</b>
<b>Q125</b> 15j) Is there national capacity to train and build capacity of communities to manage 24/7 tsunami emergency response operation?	<b>Yes, it can be easily done through mobilising national experts and funding</b>
<b>Q126</b> 15k) Is there national capacity to train and work with the communities to develop mechanisms (means and procedures) to receive 24/7 warning?	<b>Yes, it can be easily done through mobilising national experts and funding</b>

**Q127** Yes, it can be easily done through mobilising national experts and funding

15l) Is there national capacity to train and work with the communities to develop mechanisms (means and procedures) to disseminate 24/7 warning to the community?

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Page 35: PART V: UNESCO-IOC Tsunami Ready Recognition Programme (TRRP)

**Q128** Respondent skipped this question

15m) Which of the following challenges inhibit the implementation of TRRP or similar national initiatives in your country? (select all that apply)

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Page 36: PART VI: Narrative

**Q129** Respondent skipped this question

16) Please briefly describe any innovations or modifications to national tsunami warning and mitigation procedures or operations since the last reassessment. For example, this might include tsunami related research projects, implementation of new seismic and/or sea level monitoring technologies, tsunami mitigation activities and best practices (especially in preparedness and emergency management), as well as public education programmes or other measures taken to heighten awareness of the tsunami hazard and risk.

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**Q130** Respondent skipped this question

17) Please provide a brief summary of plans for future tsunami warning and mitigation system improvements

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**Q131** Respondent skipped this question

18) Please list areas where your country would like support for targeted capacity development.

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**Q132** Respondent skipped this question

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