

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 Kenya

Page 1: Overview

Q1 Confirm by clicking the checkbox

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

Q2 Kenya

Please select your country from the list below:

Page 2: PART I: Basic Information

Q3

TNC Name:

Phillip Okello OCHIENG

Q4

Position:

METEOROLOGIST

Q5

Organisation:

KENYA METEOROLOGICAL DEPARTMENT

Q6

Telephone Number:

Q7

E-mail Address:

koderaphillips@yahoo.com

Q8

Respondent skipped this question

Fax Number:

Q9

Postal Address:

P.O Box 30259-00100
GPO, NAIROBI KENYA

Page 3: PART I: Basic Information

Q10

NTWC Agency Name:

KENYA METEOROLOGICAL DEPARTMENT

Q11

NTWC URL (web link) for tsunami warnings:

<https://meteo.go.ke/>

Q12

NTWC Agency Contact or Officer in Charge (person):

Dr. David GIKUNGU

Q13

Position:

Director

Q14

Telephone Number:

Q15

E-mail Address:

director@meteo.go.ke

Q16

Postal Address:

P.O Box 30259-00100
GPO Nairobi, KENYA

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.

Page 4: PART I: Basic Information

Q18

Respondent skipped this question

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

Q19

Respondent skipped this question

Name:

Q20

Respondent skipped this question

Position:

Q21

Respondent skipped this question

Telephone Number:

Q22

Respondent skipped this question

E-mail Address:

Q23

Respondent skipped this question

Postal Address:

Page 5: PART I: Basic Information

Q24

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

KENYA METEOROLOGICAL DEPARTMENT

Q25

E-mail Address:

Q26

Telephone Number:

Q27

Cellular Telephone Number:

Q28

Fax:

Page 6: PART I: Basic Information

Q29

Yes

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.

Q30

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

Phillip Okello OCHIENG

Q31

Position:

Meteorologist

Q32

Agency:

Kenya Meteorological Department

Q33

Telephone Number:

Q34

E-mail Address:

koderaphillips@yahoo.com

Q35

Postal Address:

P.O Box 30259-00100
GPO Nairobi KENYA

Page 7: PART II: Hazard Assessment

Q36

Yes

4a) Has your country undertaken a hazard assessment?

Page 8: PART II: Hazard Assessment

Q37

Multi-hazard assessment including tsunami

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

Page 9: PART II: Hazard Assessment

Q38

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

- Drought,**
- Tsunami,**
- Earthquakes,**
- Epidemics,**
- Flooding,**
- Landslide**

Page 10: PART II: Hazard Assessment

Q39

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

National Agency

Q40

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

Regional Level

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.

Coastal Counties of Mombasa, Kilifi, Kwale and Lamu

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		
Topography	Yes	Yes
Land Cover		
Infrastructure details	Yes	Yes

Q43

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

- Hazard map,**
- Inundation map,**
- Evacuation 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 **Fair**

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)	High priority
Deterministic Tsunami Hazard Analysis	High priority
Field Studies on Tsunami Impacts	High priority
Hazard map	Medium priority
Inundation map	High priority
Evacuation map	Medium priority

Q46

Respondent skipped this question

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?

Page 12: PART II: Risk Assessment

Q47

Yes

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

Page 13: PART II: Risk Assessment

Q48

Multi-hazard risk assessment including tsunami

5b) What type of risk assessment?

Page 14: PART II: Risk Assessment

Q49

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

Epidemics,
Tsunami,
Drought,
Earthquakes,
Flooding,
Landslide

Page 15: PART II: Risk Assessment

Q50

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

National Agency

Q51

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

Regional Level

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.

Coastal counties of Kwale, Mombasa, Kilifi and Lamu

Q53

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

Four coastal counties

Q54

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

Risk map,
Evacuation map

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

Fair

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	High priority
Tsunami risk assessment at regional level	Essential
Tsunami risk assessment at city level	Essential
Tsunami risk assessment at village level	High priority
Tsunami risk assessment at community / neighbourhood level	High priority

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	Poor
Tsunami risk assessment at regional level	Poor
Tsunami risk assessment at city level	Poor
Tsunami risk assessment at village level	Poor
Tsunami risk assessment at community / neighbourhood level	Poor
Other (specify below)	Poor

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	Policy is not available
Preparedness	Multi hazard including tsunami
Emergency response	Multi hazard including tsunami
Rehabilitation and reconstruction	Policy is not available

What is the name of policy? (if available):
National Disaster response strategy

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	Policy is not available
Preparedness	Policy is not available
Emergency response	Policy is not available
Rehabilitation and reconstruction	Policy is not available

Page 18: PART II: Plans

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	National plan is not available	Local plan is not available	Community plan is not available
Preparedness	Multi hazard including tsunami	Local plan is not available	Community plan is not available
Emergency response	Multi hazard including tsunami	Local plan is not available	Community plan is not available
Rehabilitation and reconstruction	National plan is not available	Local plan is not available	Community plan is not available

Q61

Yes

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

Page 19: PART II: Guidelines

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

Guidelines not available

Preparedness

Multi hazard guidelines including tsunami

Emergency response

Multi hazard guidelines including tsunami

Rehabilitation and reconstruction

Guidelines not available

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

Guidelines not available

Preparedness

Guidelines not available

Emergency response

Guidelines not available

Rehabilitation and reconstruction

Guidelines not available

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)

Use own threat assessments

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.

NTWC

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,
GTS (WMO Global Telecommunication System),
UPS (Uninterruptable Power Supply)**

Q69

Ocean-wide

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

Q70

Yes, national and international

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

Page 22

Q71

All national seismic data is shared in real time

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

Page 23: PART III: Detection and Warning

Q72

Yes

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

Q73 **Yes**

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?

Q74 **There are no changes**

9k) When compared to the IOTWMS seismic database (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)

Page 24: PART III: Detection and Warning

Q75 **No**

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

Page 25: PART III: Detection and Warning

Q76 **Respondent skipped this question**

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

Page 26: PART III: Detection and Warning

Q77 **Yes**

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)?

Q78 **There are no changes**

9o) When compared to the IOTWMS sea level database (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)

Page 27: PART III: Detection and Warning

Q79

Other (please specify below)

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

Q80

No

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

Q81

No

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

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?

earthquake magnitudes within the wider ocean basin is used as a basis for issuance of the advisories and warnings

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?

Assess the potential threats

Q85

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

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

Q86

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

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?

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

Yes (please specify the enhancements):
no comment

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

Page 28: PART III: Dissemination

Q89

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

Email,
SMS,
Telephone,
Radio,
WhatsApp / Facebook / Other social media,
Sirens,
Television,
Warning towers,
Police/military,
Public alert system,
VHF radio

Q90

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

National DMOs	Telephone, Email, SMS, Siren
Local DMOs	Telephone, Email, SMS, Siren
General Public	SMS, Siren
Coastal Communities	SMS, Siren
Media	Telephone, Email, SMS

Q91

10c) How is the warning situation terminated?

Through the same channels used in the dissemination process

Q92

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

<https://meteo.go.ke/>

Q93

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.

Yes (please describe how CAP is integrated):
no comment

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.

The NDMO and Local DMOs and the BMUs are responsible for the dissemination of the alerts, this usually take less than 30minutes in normal operation

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)	Yes	Yes	Yes	Yes
Receiving information from the NTWC	Yes	Yes	Yes	Yes
Response Criteria / decision making	Yes	Yes	Yes	Yes

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	Yes	Yes	Yes
Evacuation call procedures	Yes	Yes	Yes	Yes
Community evacuation procedures	Yes	Yes	Yes	Yes
Communication with NTWC	Yes	Yes	Yes	Yes
Communication with Local Government	Yes	Yes	Yes	Yes
Media arrangements	Yes	Yes	Yes	Yes
Communication with other stakeholder i.e. Red Cross, Fire Brigade, Search and Rescue, Police, Army, Navy etc.	Yes	Yes	Yes	Yes

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	Yes
Vertical evacuation structure	No
Natural or artificial hill for vertical evacuation	Yes
Evacuation signage	Yes

Q99 **Yes**

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

Page 31: PART IV: Tsunami Exercises

Q100 **National guidelines**

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

Q101 **Regional level**

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

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?

National tsunami drill/exercise **Yes**

Comment: 3

Indian Ocean Wave exercise **Yes**

Local tsunami drill/exercise **Yes**

Page 32: PART IV: Public Awareness

Q103 **National Tsunami Warning Centre**

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

Q104 **Posters**

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

Q105 **Yes**

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	Yes
Global Disaster Risk Reduction day	Yes
Public tsunami preparedness outreach	Yes
School and/or children awareness	Yes
Exhibitions	Yes
Tsunami Exercise	Yes

Q107

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.

- Customisation of general materials to country or community**
- ,
- Development of tsunami awareness programmes, activities or campaigns**
- ,
- Participation/support by international agencies or experts to your country's activities**
- ,
- Provision of general tsunami awareness materials**

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

Yes, we are already participating

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?

Q111

Province / State

4

14c) What number of villages, cities/districts and provinces/state levels in your country are at risk to tsunami?

Q112 **No (if no, is there another existing coordination mechanism that can fulfil this role of NTRB? please specify below)**

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.

Q113

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)

NTWC, NDMO, LDMOs, Humanitarian agencies

Q114 **No**

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?

Q115 **No**

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)

Q116 **No, there is a strong need for technical support organised through IOTIC and/or ICG/IOTWMS activities**

15a) Is there national capacity to develop tsunami hazard maps?

Q117 **Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise**

15b) Is there national capacity to train the community on identifying and estimating the number of people that live in the tsunami hazard zone?

Q118 **Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise**

15c) Is there national capacity to train the community on the inventory of available economic, instrastructural, political, and social resources to reduce tsunami risk at the community level?

Q119 15d) Is there national capacity to work with the community to develop tsunami evacuation maps, plans and procedures at the community level?	No, there is a strong need for technical support organised through IOTIC and/or ICG/IOTWMS activities
Q120 15e) Is there national capacity to work with the community to develop a public display of tsunami information?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q121 15f) Is there national capacity to work with the community to develop local context outreach and public education materials?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q122 15g) Is there national capacity to train and build capacity of community to be able to organise and implement outreach and education activity?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q123 15h) Is there national capacity to train and build capacity of community to be able to organise and implement tsunami exercises?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q124 15i) Is there national capacity to train and build capacity of communities to be able to develop their community Emergency Operation Plan?	No, there is a strong need for technical support organised through IOTIC and/or ICG/IOTWMS activities
Q125 15j) Is there national capacity to train and build capacity of communities to manage 24/7 tsunami emergency response operation?	No, there is a strong need for technical support organised through IOTIC and/or ICG/IOTWMS activities
Q126 15k) Is there national capacity to train and work with the communities to develop mechanisms (means and procedures) to receive 24/7 warning?	No, there is a strong need for technical support organised through IOTIC and/or ICG/IOTWMS activities
Q127 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?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise

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

Q128

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

- Tsunami is not a high priority hazard in country,**
 - Limited support of government (for example, policy, financial)**
 - ,
 - Lack of community interest**
-

Page 36: PART VI: Narrative

Q129

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.

There has been modernization of the marine observation network for sea level monitoring. A development of a marine spatial plan is in process to plan effectively for the marine space.

Q130

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

Colaboration with China Ocean Administratuin to develop research centre for the ocean and enhance the marine observation

Q131

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

1. Tsunami Inundation modelling
 2. Development of revevant national tsunami policies
-

Q132

Respondent skipped this question

Upload Documents
