

**ESCAP/WMO  
Typhoon Committee**

Forty-sixth Session  
10-13 February 2014  
Bangkok, Thailand

FOR PARTICIPANTS ONLY

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**Report on Activities of Working Group on  
Disaster Risk Reduction (WGDRR) in 2013**  
(Item 7 of Provisional Agenda)  
(Submitted by Chair of WGDRR)

**ACTION REQUIRED:**

This Committee is invited to:

- a) Review the activities of WGDRR conducted in 2013
  - b) Approve the recommendations and AOP of WGDRR for 2014 and beyond
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## **REPORT OF ACTIVITIES OF WORKING GROUP ON DISASTER RISK REDUCTION (WGDRR) IN 2013**

### **1. 2013 WGDRR Annual Meeting**

The 8th Working Group on Disaster Risk Reduction Annual Meeting was held in Seoul, Republic of Korea from 29 May to 30 May. Total 8 member countries including China, Hong Kong, Japan, Macao, Malaysia, Philippines, Republic of Korea, and Viet Nam participated on the workshop. Also, there were participants from international organizations of WMO (Mr. Koji Kuroiwa), ADRC (Mr. JunjiMoriwaki), and UNESCAP (Dr. Yejin Ha). The workshop started with the welcome address by Dr. Yeo, WoonKwang, president of NDMI. Mr. Jae Yul Lee who is the director of Safety Management Headquarters in Ministry of Security and Public Administration (MOSPA) had a congratulatory address and also, there were valuable congratulatory addresses from Mr. Koji Kuroiwa of WMO and Mr. OlavoRasquinho of TCS.

The main theme of the 8th WGDRR Annual Workshop is “New Challenges and Tasks of WGDRR”. In the workshop, the ways of strengthening on international cooperation for DRR are mainly discussed. With reference to the main theme, Dr. Shim, Jae Hyun from NDMI suggested the future ways of WGDRR which include 1) New concept of Expert Mission, 2) Upgrade of TCDIS, 3) International Cooperation for DRR, and 4) Post-2015 DRR Framework.

The presentations in the 8th WGDRR Annual Workshop are as follow;

- 1) Review of WGDRR Action Sheet (Mr. OlavoRasquinho)
- 2) New Challenges and Tasks of WGDRR (Dr. Shim, Jae Hyun)
- 3) Strengthening and Example of Community Based Resilience (Dr. Ying-Wa CHAN)
- 4) Member report: China, Hong Kong, Japan, Macao, Malaysia, Philippines, Republic of Korea, Viet Nam
- 5) Planning on the 2nd TRCG Forum (Dr. Ying-Wa CHAN)
- 6) Synergized Standard Operating Procedures (SSOP) for Coastal Multi-Hazards Warning System (Mr. Kai Hong Leong)
- 7) Proposed WGM Field Experiment (Mr. Kai Hong Leong)

### **2. WGDRR Parallel Session in 8th IWS/2nd TRCG Forum**

During the 8<sup>th</sup> Typhoon Committee IWS and 2<sup>nd</sup> TRCG Forum held in Macao from 2 to 6 November, 2013, Working Group on Disaster Risk Reduction (WGDRR) had two days parallel session.

There are 12 Members (i.e. China; Hong Kong, China; Democratic People's Republic of Korea; Japan; Lao PDR; Macao, China; Malaysia; Philippines; Republic of Korea; Thailand; USA (Guam); Viet Nam) and TCS attending on the WGDRR parallel sessions. During the parallel session, WGDRR from 12 member countries took the opportunity to discuss the issues as below;

- i) Review of activities 2013 of WGDRR from each member.
- ii) Review the implementation of TCTF budget 2013 of WGDRR.
- iii) Damage assessment of Typhoon Haiyan in Philippines.
- iv) Effective dissemination of disaster information to the public.
- v) Proposing the budget of WGDRR 2014.
- vi) Topical Discussion – Disaster management and impact assessment system including realistic disaster based on historic plausible events.

### **3. Review of WGDRR activities in 2013 AOP**

#### **(AOP1) Extend the WEB GIS based TCDIS**

WEBGIS based TCDIS started in 2006 and now NDMI started to upgrade it to second version. It is expected that the second version will be completed in 2014 and hopefully it will be useful for member countries. It has been difficult for NDMI to collect information from member countries. In this regard, it is suggested that member countries may be used as the base of TCDIS. It is recognized that TCDIS is an important base and suggested to report the progress of each year in the TC Session.

#### **(AOP2) Provide the training program for disaster prevention technologies and policies including WGTCDIS**

The Expert mission team including NDMI and TCS visited Lao PDR and Viet Nam in November. It will be conducted in Guam and Thailand in 2014. With reference to the contents of 2014 expert mission, Member countries can select and request the training program. Member countries for expert mission will be discussed in 46<sup>th</sup> session in Bangkok, Thailand.

#### **(AOP3) Promote the international cooperation research**

2013 Northern Mindanao Project for Philippines lead by NDMI and in this project, Flash Flood Alert System (FFAS) and Automatic Rainfall Warning System (ARWS) were installed in Cagayan de Oro, Philippines. Northern Mindanao Project will be continued in 2014. In project, it will expand the installation of ARWS (Automatic Rainfall Warning System) in Cagayan de Oro and enhance the function of FFAS (Flash Flood Alert

System).NDMI proposed to all TC members to join this project similar to Philippines and suggested TC members who are interested in the project can submit their proposal before May 2014.

**(AOP4) Application of SWidget (Hong Kong) to member countries**

SWidget is a software tool developed by the Hong Kong Observatory (HKO) on behalf of the World Meteorological Organization (WMO) for users of personal computers (PCs) to automatically retrieve official severe weather warning messages from the SWIC website. SWidget users can now obtain the weather warnings from the five contributing weather services in near real-time (Hong Kong, Macau, Guam, Republic of Korea, Singapore). Other members will be encouraged to join then SWidget Project.

**(AOP5) Setting up community weather stations for raising public awareness on climate change and extreme weather**

This project was proposed by HKO and it is useful to promote public awareness. During 8th IWS parallel session, HKO presented the progress of CO-Win Project and the recent development of Typhoon Committee i-Co-win Facebook (Typhoon Committee Community Weather Information Network Project). It is suggested that more visual image/videos should be used instead of words to raise public awareness and social media (e.g. Facebook) should be utilized to disseminate the information to the public. Members are encouraged to use it as the platform to share photos and videos on tropical cyclone-related information, to further arouse public awareness and encourage more members to join. As regards the set up of community weather stations to promote public awareness, DPR Korea and Vietnam expressed interest. Hong Kong, China will coordinate with them to assist the installation of weather stations in their community.

**(AOP6) Benefit evaluation of Typhoon disaster prevention and preparedness project**

CMA proposed this project in 45th TC session. CMA will continue the project and also, NDMI will start the research related to benefit evaluation of disasters in 2014.

**(AOP7) Supporting Synergized Standard Operation Procedure (SSOP) project related to disaster risk management**

WGDRR members are encouraged to provide comments on the manual on the DRR component before the 46th TC Session. Also, it is suggested that lessons learnt from Haiyan should be included. It is suggested that CAP can be utilized more as dissemination of information can be wider. Currently, Google is using CAP. Also, It is suggested to make a video summarizing the serious typhoons (such as Haiyan, Katrina) in 4-5 minutes.

**4. Implementation status of WGDRR AOP 2014**

AOPs 1-7 in 2013 will be continued in 2014 and three new AOPs are added as AOP 8, 9, and 10.

[Continued AOPs]

(AOP1) Extend the WEB GIS based TCDIS

(AOP2) Provide the training program for disaster prevention technologies and policies including  
WGTCDIS

(AOP3) Promote the international cooperation research

(AOP4) Application of SWidget (Hong Kong) to member countries

(AOP5) Setting up community weather stations for raising public awareness on climate change and  
extreme weather

(AOP6) Benefit evaluation of Typhoon disaster prevention and preparedness project

(AOP7) Supporting Synergized Standard Operation Procedure (SSOP) project related to disaster risk  
management

[New AOPs in 2014]

**(AOP8)** Media response to build the trust with media (led by NDMI)

Training will be organized for Members in order to equip them to communicate with media with clarity and confidence, and enable them to manage difficult issues or crises, and eventually build the trust with media.

**(AOP9)** Making the information more understandable to the public and make them react (led by HKO)

To raise public awareness on tropical cyclone-related hazards through short videos, including storm surge. Short video is proposed, as visual impact is more effective to capture public's attention thereby raising their awareness. In addition, short video can be posted on internet or social media platforms to facilitate sharing.

Short video of around 5 minutes, with overall theme on tropical cyclone-related hazards, and with clear message for people to respond:

*"Run from the Water; Hide from the Wind"*

Then, shorter, separate films to cover the following:

- a. Wind
- b. Waves
- c. Storm Surge
- d. Flooding by heavy rain

**(AOP10)** Providing policy message on two events namely AMCDRR in Bangkok on 22-26 June 2014  
and Third UN World conference on Disaster Risk Reduction in 2015

**5. Confirmed budget proposed for WGDRR activities in 2014** WGDRR proposed the requests of US\$ 23,000 allocated TCTF in 2014 to support WGDRR activities including:

- i) To allocate US\$ 8,000 budget of TCTF in 2014 for supporting WGDRR participating in next TC Integrated Workshop.
- ii) To allocate US\$ 5,000 budget of TCTF in 2014 for supporting community based weather station pilot project offering expert to visit interested members of DPR Korea and Viet Nam to install the weather stations and to provide technical documentation on installation, maintenance and data processing and display.
- iii) To allocate US\$ 4,000 budget of TCTF in 2014 for supporting TCS, UNESCAP and WMO participating on WGDRR Expert Mission.
- iv) To allocate US\$ 2,000 budget of TCTF in 2014 for supporting benefit evaluation of Typhoon disaster prevention and preparedness project.
- v) To allocate US\$ 3,000 budget of Special Request Budget in 2014 for supporting the research about media response to build the trust with media.
- vi) To allocate US\$ 6,000 budget of Special Request Budget in 2014 for increasing public awareness by making the information more understandable to the public and making them react.
- vii) To allocate US\$ 4,000 budget of TCTF in 2014 for supporting the exhibition booth in 2014

AMCDRR meeting in Bangkok, Thailand

**2014 WGDRR AOP**

AOP1: Extend the WEB GIS based Typhoon Committee Disaster Information System (WGTCDIS) for upgrading the search option for similar Typhoon and collecting disaster information from TC Members

AOP2: Provide the training program for disaster prevention policies and technologies such as Flash Flood Alert System (FFAS), Frequency Analysis for Rainfall Data (FARD), Application of radar for urban flood warning, and Soil Erosion Model for Mountainous Area (SEMMA) including WGTCDIS

AOP3: Promote the international cooperation research by dispatching the experts of Korea and TCS to Philippines for installing the Flash Flood Alert System (FFAS) and AWS

AOP4: Promote and extend the dissemination of warnings and alerts by Members through SWIC (Severe Weather Information Center)

AOP5: Set up community weather stations for raising public awareness on climate change and extreme

weather

AOP6: Benefit Evaluation of Typhoon Disaster Prevention and Preparedness

AOP7: Support Synergized Standard Operation Procedure (SSOP) project related to disaster risk management

AOP8: Research media response how to build the trust with media

AOP9: Increase public awareness by making the information more understandable to the public and making them react

AOP10: Providing the message on two events namely AMCDRR (exhibition booth and side event) in Bangkok on 22-26 June 2014 and 3th UN World Conference on Disaster Risk Reduction in 2015

## **6. Conclusion of WGDRR**

On the basis of the information provided by the Members on WGDRR, the following conclusions were reached:

- a. The WGDRR recognized the necessity of continuous collection of disaster information from Member countries for WGTCDIS. Collection of disaster information from Member countries will be continued in 2014.
- b. National Disaster Management Institute (NDMI) will continue the upgrade of WGTCDIS in 2014.
- c. Expert mission will be continued in 2014. It will provide training on the operation of WGTCDIS by NDMI and TCS. 2014 Expert Mission will also provide the training program for disaster prevention technologies and policies. The contents of the expert mission program will consist of Flash Flood Alert System (FFAS), Frequency Analysis for Rainfall Data (FARD), application of radar for urban flood warning, and Soil Erosion Model for Mountainous Area (SEMMA).

### **✂Note**

1) With reference to the contents of 2014 expert mission, Member countries can select and request the training program.

2) Member countries for expert mission will be discussed in 46<sup>th</sup> session in Bangkok, Thailand.

- d. 2013 Northern Mindanao Project for Philippines lead by NDMI will be continued in 2014. In project, it will expand the installation of ARWS (Automatic Rainfall Warning System) in Cagayan de Oro and enhance the function of FFAS (Flash Flood Alert System).

✕Note : NDMI proposed to all TC members if they want to join this project similar to Philippines and suggested TC members who are interested in the project to submit their proposal before May 2014.

- e. Hong Kong (China) had made preparations for the installation of automated weather stations for the pilot project for Community Weather Station in 2012. With regarding this, Hong Kong Observatory (HKO) will coordinate with interested members DPR Korea and Viet Nam to set up community weather stations in their country.
- f. CMA will continue the research project in 2014 namely "Benefit Evaluation of Typhoon Disaster Risk Reduction" proposed in 45<sup>th</sup> TC session. Also, NDMI will start the research related to benefic evaluation of disasters.
- g. The 9<sup>th</sup> WGDRR Workshop will be held in Seoul, Republic of Korea on 22-23 May or 26-27 May 2014. Korea will send the information to member countries to confirm the date.
- h. HKO proposed the project (by means of short video) for increasing public awareness on tropical cyclone related hazards by making information more understandable to the public. This project is included in AOP9 of WGDRR.
- i. In WGDRR parallel session, it was discussed about media response to disaster. Member countries agreed the importance of the role of the media during the disaster. The research for media response to build the trust with media will be conducted by NDMI in 2014.

## **7. Recommendation of WGDRR**

On the basis of the information provided by the Members and deliberations, the WGDRR made the following recommendations:

- a. To allocate US\$23,000 budget of TCTF in 2014 for i) supporting WGDRR participating in next TC Integrated Workshop, ii) supporting community based weather station pilot project offering expert to visit interested members to install the weather stations and to provide technical documentation on installation, maintenance and data processing and display, iii) supporting WGDRR Expert Mission, iv) supporting benefic evaluation of Typhoon disaster, v) supporting the building the trust with media, vi) supporting the exhibition booth in 2014 AMCDRR meeting in Bangkok, Thailand.
- b. To collect the disaster information from TC Members for extending TCDIS, the continuity of such collection should be maintained and this project will be continued in 2014.
- c. To conduct expert mission in Guam and Thailand for WGTCDIS, disaster prevention technologies, and policies in 2014.
- d. To start new project for increasing public awareness led by HKO
- e. To begin the new research for building the trust with media



- f. To make the plan for the exhibition booth and side event in 2014 AMCDRR meeting in Bangkok, Thailand
- g. To continue the benefit evaluation of Typhoon disaster led by CMA and start new research of benefit evaluation of disasters led by NDMI
- h. To set up automatic weather stations for the community based weather station project in the 2 interested Members of DPR Korea and Viet Nam in 2014

Appendix 1. WGDRR AOP 2013 Implementation Status

Appendix 2. WGDRR AOP 2014

Appendix 1. WGDRR AOP 2013 Implementation Status

SPs KRA and SGs	Objective Number	Objective	Action	Other WG's	TCS Responsibility	Expected Quarter Completed	Other Organi- zations Involved	Success Indicators	Funding Required	Funding Sources	Completed Yes or No
KRA 4 KRA 5 SG 4b SG 4c	1	Extending the WGTCDIS	(i) Collect disaster information from TC Members (ii) Upgrade the search option for similar Typhoon in WGTCDIS	TCS	(i) Provide guideline to support \$1000 for collecting disaster information (ii) Assist in collecting disaster information from Members	Fourth	NDMI	(i) Complete collecting disaster information from Thailand, Philippines, USA and Cambodia (ii) Present various search option for finding similar Typhoon in WGTCDIS	US \$4,000	NDMI, Korea and TCTF	Yes
KRA 4 KRA 5 SG 4b SG 4c SG 5b	2	Provide the training program	(i) Perform Expert Mission for training disaster prevention technologies and policies including WGTCDIS	TCS	Assist in planning and performing the expert mission	Fourth	NDMI	(i) Send expert team to four members of Lao PDR, Thailand, USA, and Viet Nam	US \$ 7,000	NDMI, Korea and TCTF	Yes (Lao PDR and Viet Nam)
KRA ALL SG ALL	3	Promote the international cooperation research	(i) Dispatch the experts of Korea and TCS for visiting Philippines to install the Flash Flood Alert System (FFAS) and AWS	WGH TCS	Assist in planning and performing the international cooperation research	Fourth	NDMI PAGASA	(i) Complete report on Northern Mindanao project		NDMI, Korea	Yes

KRA 4 SG 4b SG 4c KRA 5 SG 5b	4	Application of SWidget to Member countries	(i) Promote and extend the dissemination of warnings and alerts by Members through SWIC (Severe Weather Information Center)	-	Assist in liaising with focal points	Ongoing	WMO HKO	(i) Number of Members providing and using the warnings/alerts disseminated through SWidget			Yes
KRA 4 SG 4b SG 4c KRA 5 SG 5b	5	Setting up of community weather stations for raising public awareness on climate changes and extreme weather	(i) Liaise with Members on requirements and ways to take part in the project (ii) Offer an expert of Hong Kong, China for visiting Viet Nam and DPR Korea to implement the community weather stations	-	Assist in liaising with focal points and provide logistic support for the expert visits	Fourth	HKO	(i) Weather stations installed in two interested TC member	US \$6,000	TCTF	Yes
SP's KRA and SG	Objective Number	Objective	Action	Other WG's	TCS Responsibility	Expected Quarter Completed	Other Organizations Involved	Success Indicators	Funding Required	Funding Sources	Completed Yes or No
KRA 4 KRA 5 KRA 7 SG4b SG5a SG6b	6	Provide benefit evaluation of Typhoon disaster prevention and preparedness	(i) Survey and evaluate the response of government, department, company and person to typhoon disaster (ii) Survey and evaluate the benefit of different response		Assist in planning and performing the international cooperation research	Fourth	CMA KMA Macao, China Hong Kong, China	Complete collecting response of government and departments, evaluation report finalized	From TCTF: US \$2,000	CMA and TCTF	Yes

KRA ALL SG ALL	7	Support the Synergized Standard Operation Procedure (SSOP) project		WGM WGH TCS							Yes
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#### Appendix 2. WGDRR AOP 2014

SPs KRA and SGs	Objective Number	Objective	Action	Other WG's	TCS Responsibility	Expected Quarter Completed	Other Organi- zations Involved	Success Indicators	Funding Required	Funding Sources	Completed Yes or No
KRA 4 KRA 5 SG 4b SG 4c	1	Extending the WGTCDIS	(i) Collect disaster information from TC Members (ii) Upgrade the search option for similar Typhoon in WGTCDIS	TCS	(i) Provide guideline to support \$1000 for collecting disaster information (ii) Assist in collecting disaster information from Memb	Ongoing	NDMI	(i) Complete collecting disaster information from Thailand, Philippines, USA and Cambodia (ii) Present various search		NDMI, Korea	

					ers			option for finding similar Typhoon in WGTCDIS			
KRA 4 KRA 5 SG 4b SG 4c SG 5b	2	Provide the training program	(i) Perform Expert Mission for training disaster prevention technologies and policies including WGTCDIS	TCS	Assist in planning and performing the expert mission	Ongoing	NDMI	(i) Send expert team to four members of Lao PDR, Thailand, USA, and Viet Nam	US \$ 4,000	NDMI, Korea and TCTF	
KRA ALL SG ALL	3	Promote the international cooperation research	(i) Dispatch the experts of Korea and TCS for visiting Philippines to install the Flash Flood Alert System (FFAS) and AWS	WGH TCS	Assist in planning and performing the international cooperation research	Ongoing	NDMI PAGASA	(i) Complete report on Northern Mindanao project		NDMI, Korea	
KRA 4 SG 4b SG 4c KRA 5 SG 5b	4	Application of SWidget to Member countries	(i) Promote and extend the dissemination of warnings and alerts by Members through SWIC (Severe Weather Information Center)	-	Assist in liaising with focal points	Ongoing	WMO HKO	(i) Number of Members providing and using the warnings/alerts disseminated through SWidget		HKO, Hong Kong	

KRA 4 SG 4b SG 4c KRA 5 SG 5b	5	Setting up of community weather stations for raising public awareness on climate changes and extreme weather	(i) Liaise with Members on requirements and ways to take part in the project (ii) Offer an expert of Hong Kong, China for visiting Viet Nam and DPR Korea to implement the community weather stations	-	Assist in liaising with focal points and provide logistic support for the expert visits	Ongoing	HKO	(i) Weather stations installed in two interested TC member	US \$5,000	TCTF	
SP's KRA and SG	Objective Number	Objective	Action	Other WG's	TCS Responsibility	Expected Quarter Completed	Other Organizations Involved	Success Indicators	Funding Required	Funding Sources	Completed Yes or No
KRA4 KRA5 KRA7 SG4b SG5a SG6b	6	Provide benefit evaluation of Typhoon disaster prevention and preparedness	(i) survey and evaluate the response of government, department, company and person to typhoon disaster (ii) Survey and evaluate the benefit of different response		Assist in planning and performing the international cooperation research	Ongoing	CMA KMA HKO Macao,	Complete collecting response of government and departments, evaluation report finalized	From TCTF: US \$2,000	CMA and TCTF	
KRA ALL SG ALL	7	Support the Synergized Standard Operation Procedure (SSOP) project		WGM WGH TCS		Ongoing					

KRA4 SG5a SG6b	8	Research media response how to build the trust with media	(i) Research the methodology for media response to the disaster			Fourth	NDMI	Provide the results of the research in 9th IWS	\$3,000	NDMI, Korea Special request budget	
KRA4 SG5a SG6b	9	Increase public awareness by making the information more understandable to the public and making them react	(i) Make the educational video for the public (ii) Collect the disaster information (video/photo on TC-related hazards) of member countries	TCS	Assist in collecting disaster information (video/photo on TC-related hazards) of member countries	Fourth	HKO	Complete the development of educational video for the public	\$6,000	HKO, Hong Kong Special request budget	
KRA4 KRA7 SG5a SG6b	10	Providing the message on two events namely AMCDRR (exhibition booth and side event) in Bangkok on 22-26 June 2014 and 3th UN World Conference on Disaster Risk Reduction in 2015	(i) Prepare WGDRR booth in AMCDRR (ii) Prepare WGDRR booth in AMCDRR	TCS	Assist in planning and performing booth presentation in conference	Ongoing	NDMI TMD	Operate the booth in AMCDRR and develop the agenda for 3th UN World conference	\$4,000	TMD, NDMI, andTCTF	

SG1: To enhance cooperation among TC Members to reduce the number of deaths by typhoon-related disasters by half in the ten years of 2006 – 2015 (using the ten years of 1990 - 1999 as the base line).

SG2: To reduce the socio-economic impacts of typhoon-related disasters per GDP per capita by 20 per cent in the ten years of 2006- 2015 (using the ten years of 1990 - 1999 as the base line).

SG 3a: To identify and explore the beneficial use of resources such as rainfall brought by typhoon.

SG 3b: To study and promote the increasing use of typhoon-related beneficial effects among the Members.

SG 4a: To provide reliable typhoon-related disaster information for effective decision making in risk management in various sectors.

SG 4b: To strengthen capacity of the Members in typhoon-related disaster risk management in various sectors.

SG 4c: To enhance international and regional cooperation and assistance in the field of disaster risk reduction.

SG 5a: To promote and enhance culture of community-based disaster risk management among the Members.

- SG 5b: To promote education, training and public awareness of typhoon-related disasters among the Members.
- SG 6a: To facilitate RSMC capability to respond to the needs of the Members in forecasting and capacity building.
- SG 6b: To improve capacity of Members to provide timely and accurate user-oriented and friendly tropical cyclone products and information.
- SG 6c: To enhance capacity of Members' typhoon-related observation, monitoring, forecasting and warning.
- SG 7a: To strengthen the capacity of Typhoon Committee to effectively discharge its responsibilities and functions described in this Strategic Plan and completed its stated mission in accordance with the Typhoon Committee's Statute.
- SG 7b: To mobilize available resources and engage collaborators for the implementation of the strategic goals.

- KRA 1: Reduced Loss of Life from Typhoon-related Disasters.
- KRA 2: Minimized Typhoon-related Social and Economic Impacts.
- KRA 3: Enhanced beneficial typhoon-related effects for the betterment of quality of life.
- KRA 4: Improved Typhoon-related Disaster Risk Management in Various Sectors.
- KRA 5: Strengthened Resilience of Communities to Typhoon-related Disaster.
- KRA 6: Improved capacity to generate and provide accurate, timely and understandable information on typhoon-related threats.
- KRA 7: Enhanced Typhoon Committee's Effectiveness, Efficiency and International Collaboration.



## THE REPORT OF WGDRR PARALLEL SESSION

During the 8<sup>th</sup> Typhoon Committee Integrated Workshop and 2<sup>nd</sup> TRCG forum held in Macao Science Center, Macao, China from 2 to 6 December, 2013, Working Group on Disaster Risk Reduction (WGDRR) had three days parallel session on 3 through 5 December, 2013.

### 1. WGDRR Parallel Session

There are 12 Members (i.e. China; Hong Kong, China; DPR Korea; Japan; Lao PDR; Macao, China; Malaysia; Philippines; Republic of Korea; Thailand; USA; Viet Nam) and TCS attending on the WGDRR parallel sessions.

The WGDRR parallel session exchanged the information on priorities and key areas; reviewed the progress in the implementation of the AOP for 2013; discussed the future of WGDRR in 2014 AOP; discussed how to disseminate disaster information to the public effectively, how to make the information more understandable to people, and how to let the public get involved in disaster activities; identified the priority and strategic needs of the TC Members; and proposed the budget for WGDRR in 2014.

#### 1.1 2014 WGDRR AOPs

In 2014 WGDRR AOP, total ten projects are included and there are continued AOPs as AOP1 through AOP7. WGDRR added 3 more projects as follows;

AOP1: Extend the WEB GIS based Typhoon Committee Disaster Information System (WGTCDIS) for upgrading the search option for similar Typhoon and collecting disaster information from TC Members

AOP2: Provide the training program for disaster prevention policies and technologies such as Flash Flood Alert System (FFAS), Frequency Analysis for Rainfall Data (FARD), Application of radar for urban flood warning, and Soil Erosion Model for Mountainous Area (SEMMA) including WGTCDIS

AOP3: Promote the international cooperation research by dispatching the experts of Korea and TCS to Philippines for installing the Flash Flood Alert System (FFAS) and AWS

AOP4: Promote and extend the dissemination of warnings and alerts by Members through SWIC (Severe Weather Information Center)

AOP5: Set up community weather stations for raising public awareness on climate change and extreme weather

AOP6: Benefit Evaluation of Typhoon Disaster Prevention and Preparedness

AOP7: Support Synergized Standard Operation Procedure (SSOP) project related to disaster risk management

AOP8: Research media response how to build the trust with media

AOP9: Increase public awareness by making the information more understandable to the public and making them react

AOP10: Providing the message on two events namely AMCDRR (exhibition booth and side event) in Bangkok on 22-26 June 2014 and 3<sup>th</sup> UN World Conference on Disaster Risk Reduction in 2015

#### 1.2 Main Discussion of WGDRR

During parallel session, Working Group on Disaster Risk Reduction reported the activities of TC and WGDRR, WGTCDIS, and results of 2013 WGDRR workshop and expert mission. Also, the participants of WGDRR mainly discussed: i) review of AOPs for 2013; ii) 2014 AOPs and budget of WGDRR; iii) effective dissemination of disaster information to the public; iv) damage assessment of Typhoon Haiyan in Philippines.

#### 1.3 Confirmed Budget Proposal for WGDRR in 2014

WGDRR proposed the requests of US\$ 33,000 allocated TCTF in 2014 to support WGDRR activities including:

- i) to allocate US\$ 8,000 budget of TCTF in 2014 for supporting WGDRR participating in next TC Integrated Workshop.
- ii) to allocate US\$ 6,000 budget of TCTF in 2014 for supporting community based weather station pilot project offering expert to visit interested members of DPR Korea and Viet Nam to install the weather stations and to provide technical documentation on installation, maintenance and data processing and display.
- iii) to allocate US\$ 4,000 budget of TCTF in 2014 for supporting TCS, UNESCAP and WMO participating on WGDRR Expert Mission.
- iv) to allocate US\$ 2,000 budget of TCTF in 2014 for supporting benefit evaluation of Typhoon disaster prevention and preparedness project.
- v) to allocate US\$ 3,000 budget of TCTF in 2014 for supporting the research about media response to build the trust with media.
- vi) to allocate US\$ 6,000 budget of TCTF in 2014 for increasing public awareness by making the information more understandable to the public and making them react.
- vii) to allocate US\$ 4,000 budget of TCTF in 2014 for supporting the exhibition booth in 2014 AMCDRR meeting in Bangkok, Thailand

### **Conclusions of WGDRR:**

On the basis of the information provided by the Members and findings of the parallel session on WGDRR, the following conclusions were reached:

- j. The WGDRR recognized the necessity of continuous collection of disaster information from Member countries for WGTCDIS. Collection of disaster information from Member countries will be continued in 2014.
- k. National Disaster Management Institute (NDMI) will continue the upgrade of WGTCDIS in 2014.
- l. Expert mission will be continued in 2014. It will provide training on the operation of WGTCDIS by NDMI and TCS. 2014 Expert Mission will also provide the training program for disaster prevention technologies and policies. The contents of the expert mission program will consist of Flash Flood Alert System (FFAS), Frequency Analysis for Rainfall Data (FARD), application of radar for urban flood warning, and Soil Erosion Model for Mountainous Area (SEMMA).

#### **※ Note**

- 1) With reference to the contents of 2014 expert mission, Member countries can select and request the training program.
- 2) Member countries for expert mission will be discussed in 46<sup>th</sup> session in Bangkok, Thailand
- m. 2013 Northern Mindanao Project for Philippines lead by NDMI will be continued in 2014. In project, it will expand the installation of ARWS (Automatic Rainfall Warning System) in Cagayan de Oro and enhance the function of FFAS (Flash Flood Alert System). ※ Note : NDMI proposed to all TC members if they want to join this project
  - similar to Philippines and suggested TC members who are interested in the project to submit their proposal before May 2014.
- n. Hong Kong (China) had made preparations for the installation of automated weather stations for the pilot project for Community Weather Station in 2012. With regarding this, Hong Kong Observatory (HKO) will coordinate with interested members DPR Korea and Viet Nam to set up the community weather stations in their country in 2014.
- o. CMA will continue 2013 project namely "Benefit Evaluation of Typhoon Disaster Risk Reduction" proposed in 44<sup>th</sup> TC session. Also, NDMI will start the research related to benefic evaluation of disasters.
- p. The 9<sup>th</sup> WGDRR Workshop will be held in Seoul, Republic of Korea on 22-23 May or 26-27 May 2014. Korea will send the information to member countries to confirm the date.
- q. HKO proposed the project for increasing public awareness by making information more understandable to the public (by means of short video). This project is included in AOP9 of WGDRR.
- r. In WGDRR parallel session, it was discussed about media response to disaster. Member countries agreed the importance of the role of the media during the disaster. The research for media response to build the trust with media will be conducted by NDMI in 2014.

### **Recommendations of WGDRR:**

On the basis of the information provided by the Members and deliberations, the WGDRR made the following recommendations:

- i. To allocate US\$33,000 budget of TCTF in 2014 for i) supporting WGDRR participating in next TC Integrated Workshop, ii) supporting community based weather station pilot project offering expert to visit interested members to install the weather stations and to provide technical documentation on installation, maintenance and data processing and display, iii) supporting WGDRR Expert Mission, iv) supporting benefic evaluation of Typhoon disaster, v) supporting the building the trust with media, vi) supporting the exhibition booth in 2014 AMCDRR meeting in Bangkok, Thailand.
- j. To collect the disaster information from TC Members for extending TCDIS, the continuity of such collection should be maintained and this project will be continued in 2013.
- k. To conduct expert mission for WGTCDIS, disaster prevention technologies, and policies in 2014.
- l. To start new project for increasing public awareness led by HKO
- m. To begin the new research for building the trust with media
- n. To make the plan for the exhibition booth and side event in 2014 AMCDRR meeting in Bangkok, Thailand
- o. To continue the benefit evaluation of Typhoon disaster led by CMA and start new research of benefit evaluation of disasters led by NDMI
- p. To set up automatic weather stations for the community based weather station project in the 2 interested Members of DPR Korea and Viet Nam in 2014