

MEMBER REPORT

ESCAP/WMO Typhoon Committee
8th Integrated Workshop/2nd TRCG Forum

DPR of Korea

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I. Overview of tropical cyclone which have affected / impacted DPRK's area since the last typhoon committee session

1. Meteorological Assessment

DPRK, which is located at seasonal wind zone of East Asia, is often affected by natural disasters due to climatic changes. However, no typhoon directly heated to our country in this year. This is the first appearance after 1996. Recent in 2010, 2011 and 2012, DPRK has been largely affected by 9 typhoons. But in this year, there is no typhoon heated, this is a rare case.

This is due to that the Western North Pacific Ocean high was not so strengthened and located at the south of Korean peninsula, also extended westward to china continent this year.

So that, typhoons formed over tropical oceans doesn't move northward to our country and it moves toward to China south coast and Japan.

2. Hydrological Assessment

There is no hydrological disaster by typhoons in DPRK this year, because no typhoons directly affect to our country.

3. Socio-Economic Assessment

Last year DPRK was continuously affected by typhoons, so suffered a great deal of damage. But typhoon damages were immediately repaired under the control of the government of the DPRK.

This year no typhoons directly affect to DPRK, so there is no socio-Economic damage.

4. Regional Cooperation Assessment

Typhoon information issued in RSMC Tokyo typhoon center and numerical weather prediction products of ECMWF, CMA, NCEP have been received via GTS and CMA Cast from Beijing, China, and then

they are used in analysis and forecasting of typhoon.

Also, observation data of neighboring countries are received every 3 hours and it is used for effective typhoon warning.

In the cooperation with CMA China, one project for building twenty of AWSs over the basin of Amnok and Tuman Rivers is in progressing now.

As a result, two AWSs at Sinuizu and Uizu stations are already built and in test at the lower reach of the Amnok River.

At present, raising the correctness and ensuring promptness of typhoon information issued in typhoon warning center is essential.

And also the cooperation is important in order that we can wholly use in time of the NWP's of neighbor countries for typhoon forecasting.

II. Summary of progress in Key Result Area

➤ Improvement of Typhoon Forecasting

The government of the DPRK has paid a great attention to the typhoon forecasting and made its unceasing efforts to the further more modernization and scientification of typhoon forecasting.

We made the data base of past 63-years typhoon data so that we could analyze and estimate any typhoon past data.

In order to improve the typhoon forecast, we developed the Typhoon Forecast Supporting System (TFSS) which helps forecasters to make decision about the track of typhoon by monitoring the typhoon forecasting information of main Numerical Weather Prediction Centers.

Considering the TFSS, it can be analyzed and estimated the tendency of typhoon track forecasting of NWP Centers.

And also it can show the statistic error chart of typhoon track forecasting of NWP Centers, so that forecasters can make decision on the track of typhoon more timely and accurately.

In the future, SHMA of the DPRK will continue to make scientific researches on the tracks of typhoon.

KRA =	1	2	3	4	5	6	7
Meteorology						✓	
Hydrology							
DRR							
Training and research						✓	
Resource mobilization or regional collaboration							

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➤ Improvement of Typhoon Warning System

The government of the DPRK has paid a great attention to inform the typhoon warning timely and accurately.

Early warning system on heavy rain and tidal wave, high wind caused by typhoon was already established, and according to it, typhoon related disasters are informed the Local governments and residents via TV, radio and computer network 5 days before typhoon affects to region.

In the future, SHMA of the DPRK will continue improve the capacity of effective warning on typhoon related disasters.

KRA =	1	2	3	4	5	6	7
Meteorology						✓	
Hydrology						✓	
DRR							
Training and research							
Resource mobilization or regional collaboration							

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➤ Activity for enlightening about typhoon

The government of the DPRK brings the popular masses to have a correct understanding of typhoon related disasters using mass medias such as TV, newspapers, radio.

It is very important to prevent the typhoon related disasters.

SHMA of the DPRK have done the research of estimating the climatic changes of typhoon activity and awoke the popular masses to have a correct understanding of characteristics of typhoon activity.

And also, the Government of the DPRK propagated the damage and loss caused by typhoon which directly affects to the DPRK in the past, and experience and the measurement for prevention of typhoon-related disasters.

As a result, the more peoples have correct understanding of typhoon, and can take part in the work for prevention of typhoon-related disasters

KRA =	1	2	3	4	5	6	7
Meteorology							
Hydrology							
DRR				✓		✓	
Training and research				✓			
Resource mobilization or regional collaboration							

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➤ Improvements of Flood forecasting (caused by typhoon)

The Government of the DPRK has a great attention to forecast the rain amounts and flood correctly, when the typhoon directly affects to the regions.

When a typhoon moves forward to the DPRK, SHMA forecasts the track of typhoon and its rain amount, and issues the warning of heavy rain and flood.

This year, we have taken all the necessary measures to prevent damage from flooding at the basin of main rivers such as Taedong, Chongchen, Amnok, Tuman rivers.

When it issues the typhoon warning, according to the hydrological analysis, flood warning is informed and anti-flood measures are taken at the flood damage region.

Real time observation system of rain amount is established all over the country and it is used to prevent typhoon-related disasters.

This is done under the unified leadership of nationwide Typhoon Committee.

KRA =	1	2	3	4	5	6	7
Meteorology						✓	
Hydrology				✓		✓	
DRR							
Training and research						✓	
Resource mobilization or regional collaboration							

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➤ Improved Typhoon-related Disaster Risk Management

In order to improve typhoon-related disaster risk management in various sectors, the government of the DPRK organized the National Anti-Flood Management Committee, non permanent organization, and offered unified guidance to typhoon-related disasters managements.

This National Anti-Flood Management Committee includes various sectors such as agriculture, land and environment, water resource, electric power industry and human health.

It gives unified control and direction over all affairs.

And also, land management campaign is organized every spring and autumn, and necessary measures including tree-planting and river-management are taken at national level.

KRA =	1	2	3	4	5	6	7
Meteorology							
Hydrology							
DRR				✓			
Training and research							
Resource mobilization or regional collaboration				✓			

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➤ **Strengthened Resilience of Communities to typhoon-related disasters**

Under the unified control of the government of the DPRK, resilience capacity of Local communities has been remarkably strengthened and the work for prevention of typhoon-related disasters has been accelerated thorough hazard mapping, evacuation drills and public awareness.

As a result, dangerous areas affected by high wind, flood, landslide and tidal wave were remarkably reduced all over the country.

KRA =	1	2	3	4	5	6	7
Meteorology							
Hydrology							
DRR					✓		
Training and research							
Resource mobilization or regional collaboration					✓		

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➤ **Enhanced international collaboration**

This year, Asia Typhoon Committee makes an important contribution to prevent typhoon-related disasters at the DPRK.

Under the efforts of Asia Typhoon Committee, typhoon information issued in the various forecasting center such as CMA, RSMC Typhoon center are timely used to forecast and prevent typhoon-related disasters at the DPRK.

Also, many countries under the control of the Asia Typhoon Committee make important contribution to collaborate and cooperate in order to prevent typhoon-related disasters at the DPRK.

This year, the DPRK regularly transmit the meteorological observation data in our country via GTS.

Theme of Typhoon Committee is very important for each government of countries to prevent typhoon-related disasters and international cooperation is necessary.

In the future, the Government of the DPRK hopes much help of Typhoon Committee.

KRA =	1	2	3	4	5	6	7
Meteorology							
Hydrology							
DRR							
Training and research							
Resource mobilization or regional collaboration							✓

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➤ Improvement of Expert Training

Many experts are trained from many universities and colleges at the DPRK.

And also the government of the DPRK provides conditions necessary.

KRA =	1	2	3	4	5	6	7
Meteorology							
Hydrology							
DRR							
Training and research						✓	
Resource mobilization or regional collaboration						✓	

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➤ **State apparatus for prevention of Flood, Typhoon-related disasters**

During the rainy season, the government of the DPRK organized the National Anti-Flood Management Committee and this committee gives unified guidance to the Local Committee.

And this committee takes necessary measures in dangerous areas affected by typhoons and floods.

From July to September, SHMA of the DPRK is monitoring the situation of the rivers and reservoirs all over the country and issuing the warning of typhoon and flood.

KRA =	1	2	3	4	5	6	7
Meteorology							
Hydrology							
DRR				✓			
Training and research							
Resource mobilization or regional collaboration							

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