

Modernization of Forecasting and Warning System for Natural Disaster in Myanmar



Project Background

The Department of Meteorology and Hydrology (DMH) of the Ministry of Transport of Myanmar has established a master plan for the advancement of the national meteorological system in Myanmar with the support of the Korea Meteorological Administration during the period of 2014-2016.

The master plan provides action plans for the national meteorological advancement by suggesting institutional and infrastructural improvement in the overall meteorological process, such as weather observation, communication, forecasting, applied meteorology, climate statistics and data management. Its road map consists of three phases depending on priority and urgency.

Establishing a real-time weather observation and analysis system by automatizing national observation networks was selected as a priority project from the master plan. It is because observation is the most basic and important step in providing accurate and reliable data for forecasts and analysis. In this regard, the DMH has decided to implement a pilot project titled "Modernization of Forecasting and Warning System for Natural Disaster in Myanmar" with the support of the Korea Meteorological Administration and the Korea Meteorological Institute.

Project Objectives

The objective of the project is to improve the response capacity to natural disasters and reduce damage to residents by building a real-time meteorological disaster monitoring system and providing early warnings in Myanmar.

Project Summary

Duration: 2017-2019 (3 years)

Management Agency:
Korea Meteorological Administration (KMA)

Implementing Agency:
Korea Meteorological Institute (KMI)

Beneficiary Agency:
Department of Meteorology and Hydrology (DMH)

Funding Source: KMA

Target Location: 40 weather stations in Myanmar

Project Budget: 4 M USD

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Key Activities

- Investigating the meteorological status and relevant infrastructure conditions in Myanmar
- Installing auxiliary power systems (solar cells and rechargeable batteries) at the observation sites
- Supporting the operation of the systems through training programs
- Developing a data analysis and display system to support weather forecasting
- Conducting field investigations on weather stations in Myanmar

Where We Work

The project sites of the project were 40 weather stations in Myanmar

- 40 weather stations: Myingyan, Nyaung Oo, Kyeik-Kha-me, Yay, Myeik, Shwesaryan, Hlaing-dat, Yezin, Hlaing-bwe, Myawady, Dagon University, Nay Pyi Taw Council, ELA Airport, Homalin, Katha, Tada-U,

Kalaywa, Naung Cho, Ye U, Shwebo, Myinmu, Sagaing, Kyaukse, Pyinoolwin, Pakokku, Mogaung, Meikhtila, Nyaung Shwe, Minbu, Taungdwingyi, Yamethin, Pinlaung, Phyu, Theinzayet, Khayan, Thaton, Belin, Kawkayeik, Kyun Chan Kone, Launglone

Outputs

- Installed 40 ASOS equipment and systems
- Good quality observation data from ASOS equipment and systems
- Trained 22 meteorological professionals in Myanmar

Outcomes

- Improved response capacity to natural disasters and reduced damage by building a real-time meteorological disaster monitoring system
- Enhanced capacity of meteorological professionals in Myanmar for forecasting and natural disaster response



▲ AWS installation site in Homalin



“We hope that this project will be of great help to Myanmar, an agricultural country, and continue to cooperate in technological exchange and education so that the people of Myanmar can better understand and use the data produced by DMH.”

- Daw Khin Cho Cho Shein, Deputy Director General of DMH -

Automatic Weather Station (AWS)

AWS



Observe weather every minute with AWS sensors (temperature, humidity, air pressure, wind direction/speed, precipitation, aspirator)

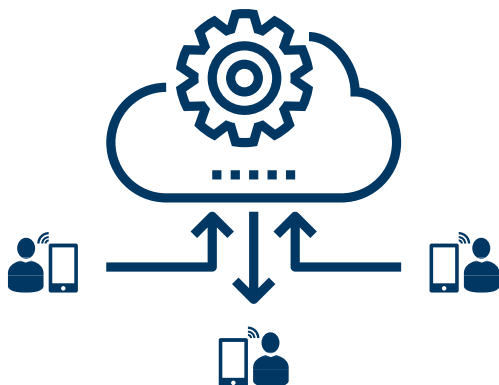
Department of Meteorology and Hydrology (DMH)



Transfer weather information to DMH in Myanmar



People in Myanmar



Provide weather forecast to public through Media, SNS etc.

Analysis / Display / Monitoring system

