





Geo-referenced Information Systems for Disaster Risk Management Activities in DMH

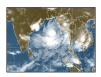
Kyu Kyu Sein Staff Officer Department of Meteorology and Hydrology MYANMAR

Outlines

- Introduction
- Roles and Responsibility of Department of Meteorology and Hydrology (DMH)
- Current Status in Use of Geo-reference Information for DRR
- Identified Gaps
- Expected Collaboration with ESCAP

Introduction

Meteorological, Geological and Hydrological Hazard in MYANMAR



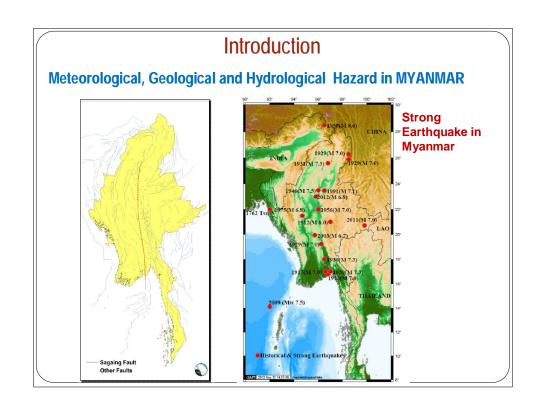
- Tropical storms
- Strong winds
- Heavy rains
- Storm surges
- Continuous rain spell
- Tornadoes
- Thunderstorms
- Continuous dry spell
- Heat and cold waves



- Earthquake
- Land slide
- Tsunami



- River floods
- Flash floods
- Inundations
- Very low River water levels
- Very low ground water levels
- Heavy rain spells
- Droughts





Thabeikkyin Earthquake in Myanmar (2012)





Magnitude 6.8











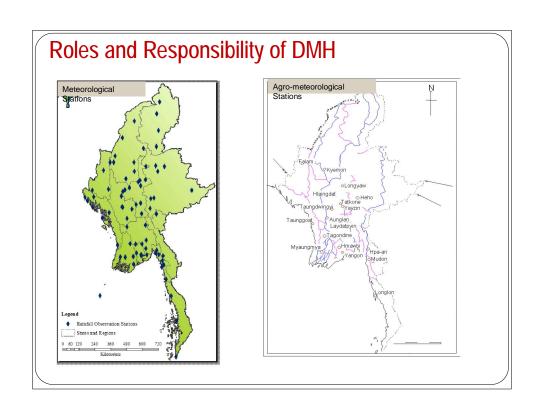


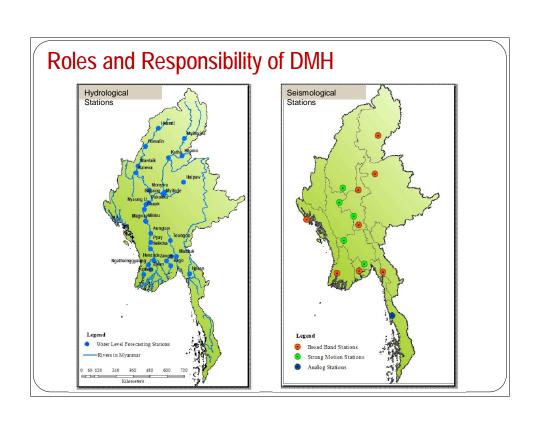




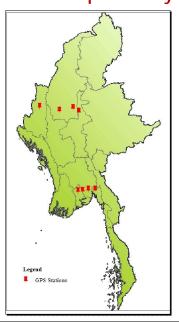
Roles and Responsibility of DMH

- Meteorological Services in 1937
- Agro-meteorological Services in 1970
- Hydrological Services in 1964
- Seismological and Earthquake activities in 1961
- Acid Deposition Monitoring in 2003
- Issued Information, Forecasts and Warning
- Provide to decision makers, policy makers
- Early Warning System is main responsibility of DMH





Roles and Responsibility of DMH GPS Stations for Fault Line



Analysis

GPS installed on 2012

- § Hakha
- § Kani
- § Shwebo
- § Sint Gu

GPS installed on 2011

- § Gyophyu
- § Ingale
- § Waow
- § Kyaikhteeyo

Roles and Responsibility of DMH



♣ Sea Level Gauge (for Tsunami Warning) installed on 2006 (donated by UNESCO-IOC)







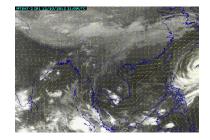
- §Tsunami Drill cooperate with IOC and RTSP's (Regional Tsunami Services Provider for Indian Ocean (India, Austrian, Indonesia)
- §Issue Tsunami Warning for Indian Ocean every 2 year for Regional Drill
- §Issue Tsunami Warning on Disaster day (14, October) every year for National Plan

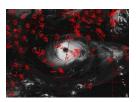
Roles and Responsibility of DMH

 Meteorological Stations 	- 63
 Meteorological & Hydrological Stations 	- 39
Hydrological	- 30
Pilot balloon	- 1
Agro-meteorological	- 17
 Satellite receiving (MTSAT, FY-Cast) 	- 3
 Aviation Met. Offices 	- 6
Seismological	- 14
GPS Station (Manual)	- 8

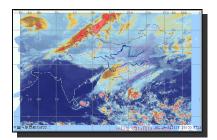
Not yet installed or set up any Automatic Stations such as; (automatic Rain gauge, Flood monitoring and Warning System)

Roles and Responsibility of DMH



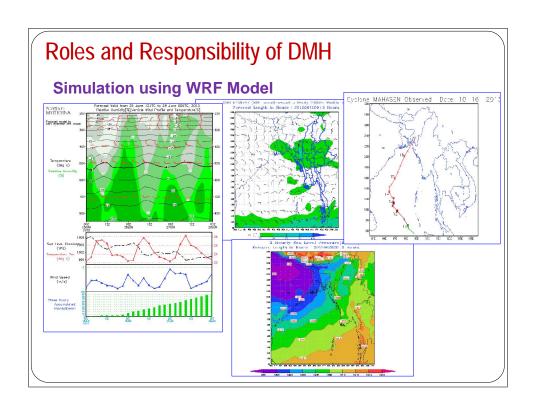






§ MTSAT Data Receiving System (JICA)

§ FY-Cast Receiving System (CMA)



Roles and Responsibility of DMH

For Daily Water Level Forecast

- § River Stage Correlation Method
- § Empirical Model (based on single and multiple regression analysis)
- § Integrated Flood Analysis System (IFAS)

预览已结束,完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5_5483

