

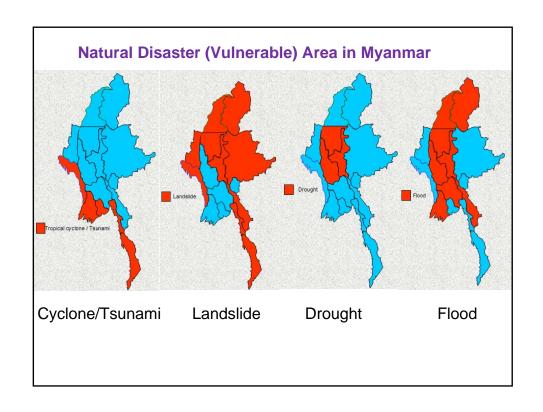




# Applications of Space Technology and GIS for Disaster Risk Reduction and Sustainable Development in Myanmar

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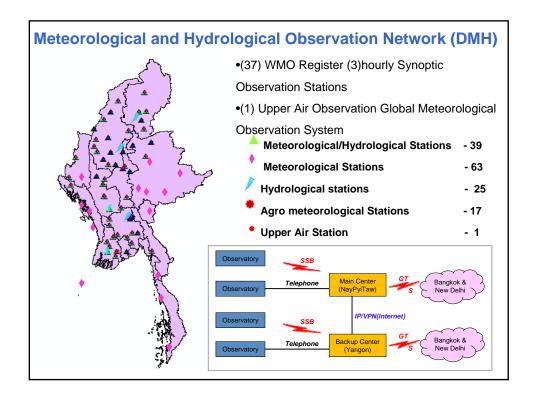




Hazards	J	F	M	A	M	J	J	A	S	0	N	D
Cyclone												
High Temperature												
Low Temperature												
Drought												
Squalls& Thunderstorm												
Flood												
Heavy Rain												
Monsoon Depression												
Hail												

### The Roles and Responsibilities of DMH

- Meteorological Services in 1937
- ♣ Agro-meteorological Services in 1970
- ♣ Hydrological Services in 1964
- ♣ Seismological and Earthquake activities in 1961
- Member of IMO (International Meteorological Organization) in 1938
- ♣ Acid Deposition Monitoring in 2003
- Member of of EANET (Acid Deposition Monitoring Network in Asia ) in 2006
- ♣ Issued Information, Forecasts and Warning
- ♣ Disseminate to decision makers, policy makers, Depts & public
- Early Warning System is main responsibility of DMH in case of Disaster Risk Reduction



## **Responsibilities of DMH**

## Warning, Bulletin, Forecast and News

- Cyclone Warning
- Storm Surge Warning
- Flood Warning
- Untimely Rainfall Warning
- Fog Warning
- Heavy Rain Warning
- Aviation Weather Warning
- Low flow water level
- Tsunami Warning
- Port Warning
- ✓ Agro-meteorological Bulletin
- ✓ Bay Bulletin
- ✓ Flood Bulletin
- ✓ Special Weather Bulletin

- Daily Weather/Water Level
- ❖ 10 Days Weather/Flood
- Monthly Weather/Flood
- Seasonal Weather/River Flood Forecast
- ❖ Aviation Weather Forecast
- Marine Weather Forecast
- Special Forecast
- Earthquake News
- Rainfall / Temperature Records
- Cyclone News

# **Applications of Space Technology and GIS**

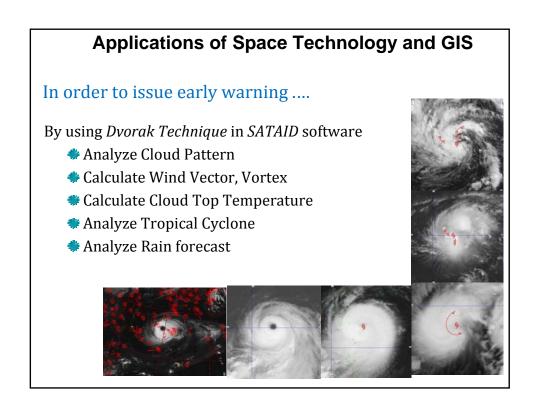
#### **In Meteorological Services**

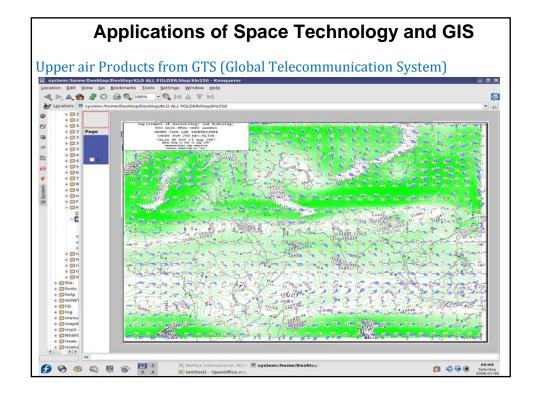


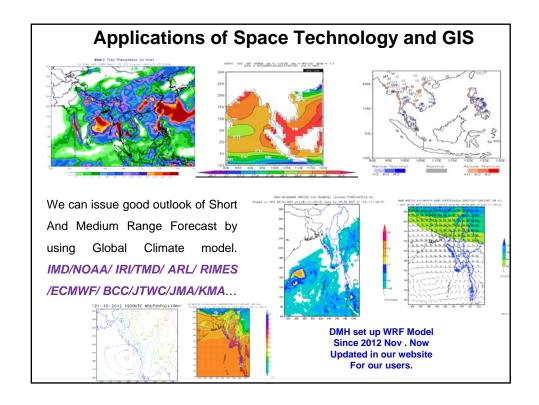
*MTSAT* Data Receiving System installed on 25<sup>th</sup> January, 2011 at Multi-Hazard Early Warning Center, Nay Pyi Taw (donated by JICA)



FY-Cast geostationary meteorological satellite installed at Nay Pyi Taw. (2011) (donated by CMA)







# **Applications of Space Technology and GIS**

#### **In Hydrological Services**

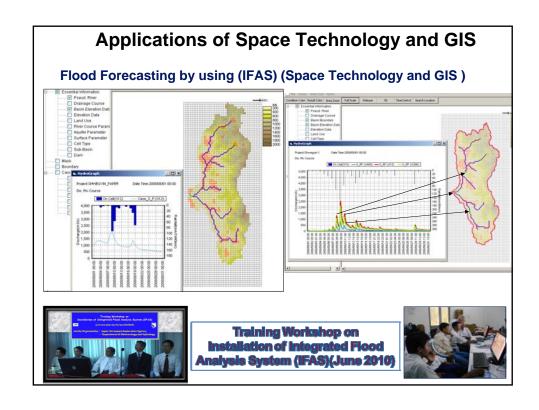
#### For Daily Water Level Forecast

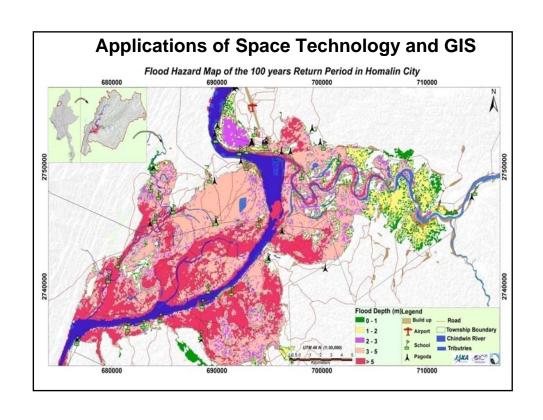
- River Stage Correlation Method
- Empirical Model (based on single and multiple regression analysis)
- Integrated Flood Analysis System (IFAS) (not for operational use)

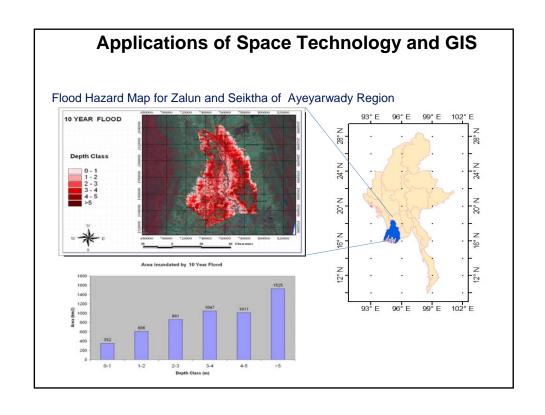
#### For Seasonal Water Level Forecast

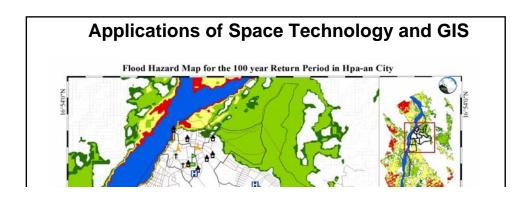
- Based on flood characteristic occurred in Analogue years
- Based on seasonal weather forecast
- Based on comparison of current flow with the individual hydrograph for the last (10) years
- Based on the average flow of the last (10) years
- Based on the Flood frequency analysis

Not Yet Flood Forecasting Method using Space Technology and GIS (for operational use)









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\_6153



