



Instruments
in
Department of Meteorology and Hydrology
MYANMAR

Htay Lwin
Myanmar Participant



Observation Stations

Full-time basic Stations

1. *Meteorological Stations*
2. *Hydrological Stations*
3. *Meteorological and Hydrological Stations*
4. *Agro-meteorological Stations*
5. *Seismological Stations*
6. *Aviation meteorological Stations*

Part-time Stations

1. *Rainfall Stations*
2. *Climate Stations*
3. *Water level Stations*

Special Measurement Stations

1. *Upper Air Stations*
2. *Radiosonde Stations*
3. *Storm detection radar Station*
4. *Satellite Receiving Stations*

Types of observations

1. *Rainfall*
2. *Maximum Temperature*
3. *Minimum Temperature*
4. *Solar Radiation*
5. *Sunshine hour*
6. *Evaporation*
7. *Humidity*
8. *Wind Force*
9. *Wind Direction*
10. *Atmospheric Pressure*
11. *Water Level*
12. *Water Temperature*
13. *Water Discharge*
14. *Sediment Discharge*
15. *Soil Temperature*
16. *Soil Moisture*
17. *Earthquake Intensity*
18. *Earthquake Epicenter*
19. *Storm Movement*



Types of Issues

1. *Daily Weather Forecast*
2. *Dakad and monthly Weather Forecast*
3. *Sea route Forecast*
4. *Aviation Forecast*
5. *Special Weather Forecast*
6. *Water level Forecast*
7. *Lowest Water level Forecast*
8. *Water level Bulletin*
9. *General Forecast for Southwest Monsoon*
10. *Pre-, Mid-, Post-monsoon Weather Forecast*
11. *Analysis of Pre-, Mid-, Post-monsoon Rainfall condition*
12. *Hydrological Summary*
13. *Special Weather Condition*
14. *Technical Report for Southwest monsoon*
15. *Seismological News*

Types of Warnings

1. *Storm Warning*
2. *Storm Surge Warning*
3. *Strong Wind Warning*
4. *Port Warning*
5. *Heavy Rainfall Warning*
6. *Untimely Rainfall Warning*
7. *Flood Warning*
8. *Significant Weather Report for the Airport (SIGMET)*
9. *Special Weather Report for the Airport (SPECI)*
10. *Fog Warning*
11. *Tsunami Warning*

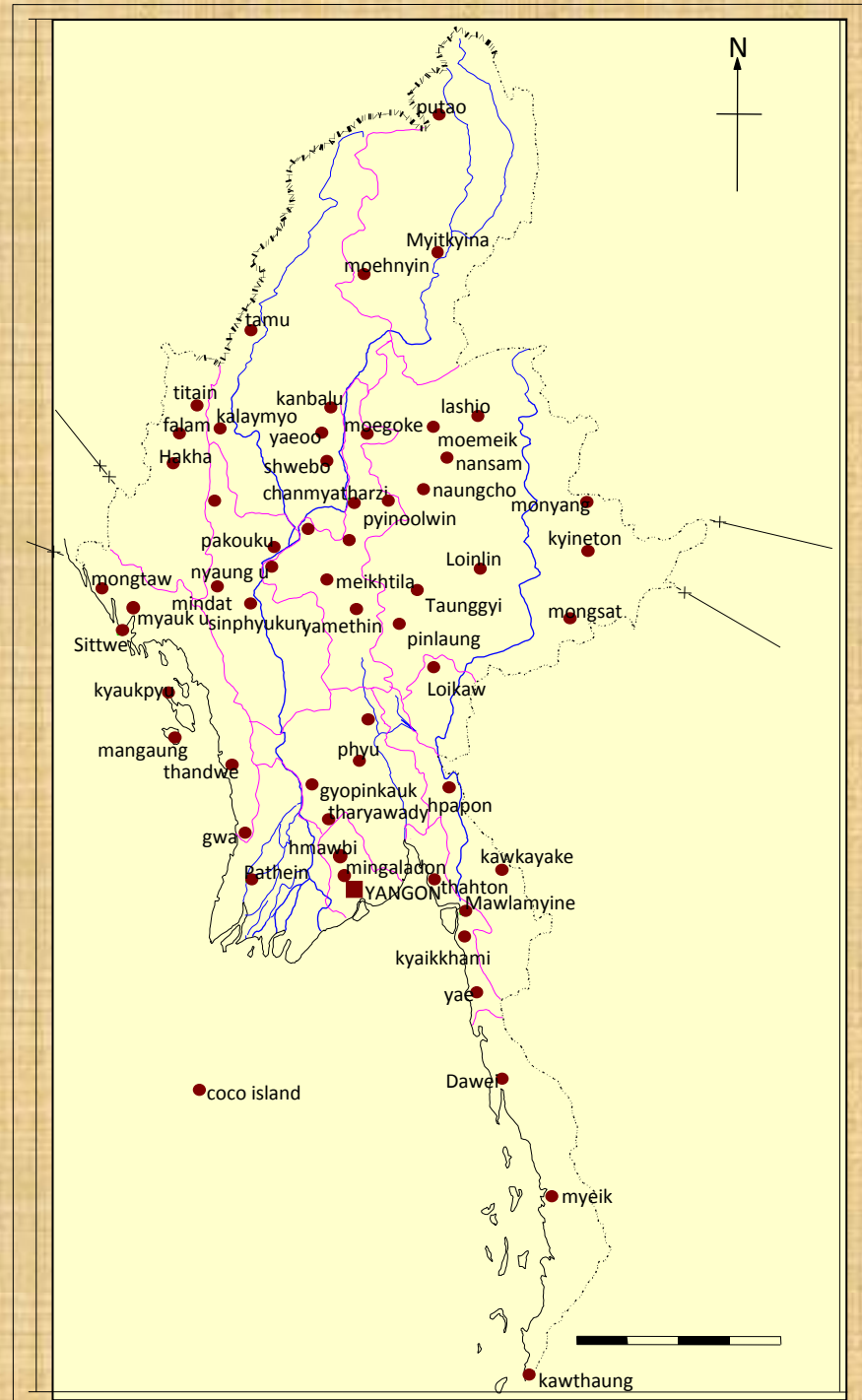


Observation Stations

Meteorological	- 63
Meteorological & Hydrological	- 39
Hydrological	- 30
Agromet	- 17
Seismological	- 16
Aviation Met. Offices	- 6

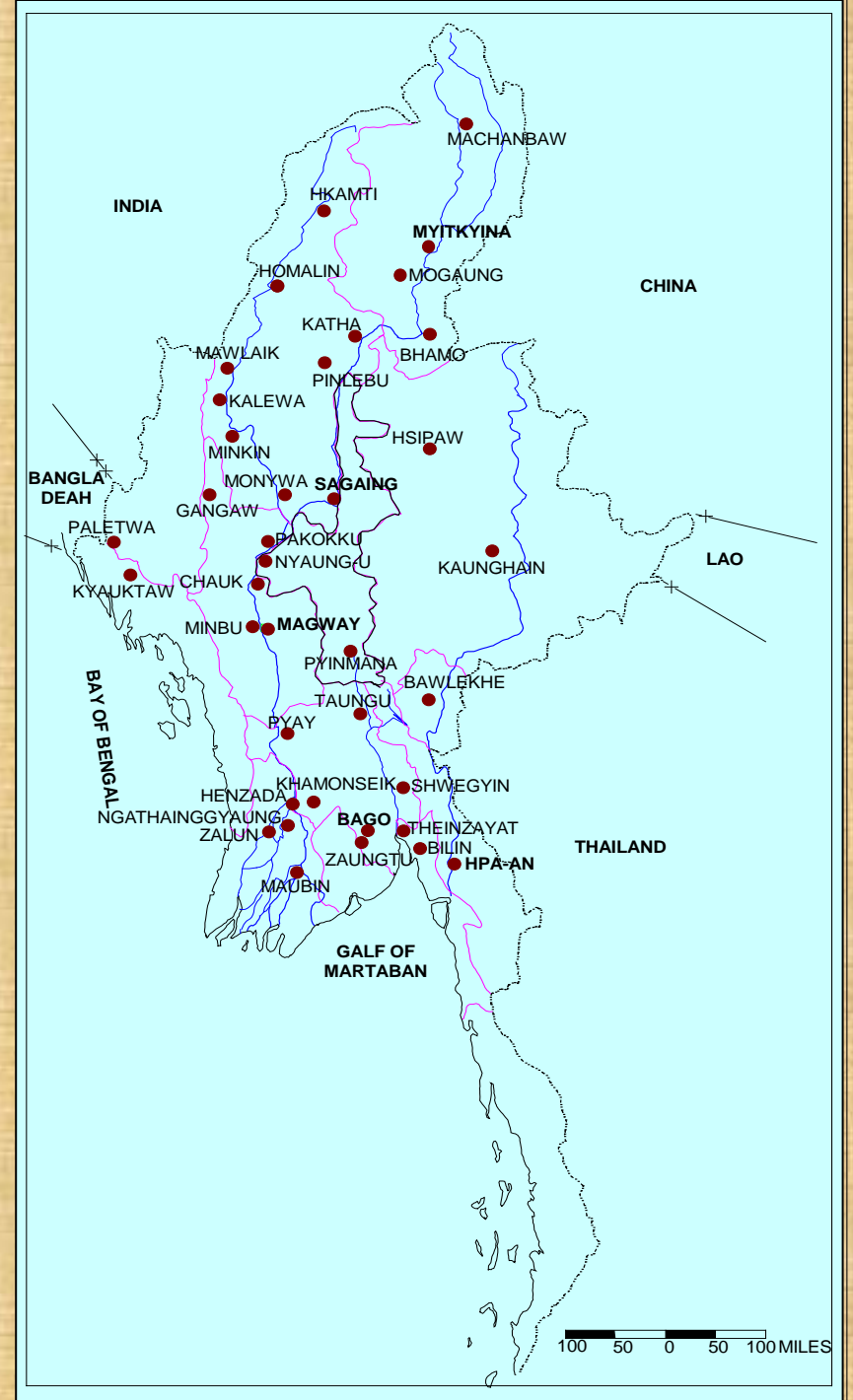


Meteorological Stations in MYANMAR





Met & Hyro Stations in MYANMAR





Data Observation and Processing





Existing Data Receiving System

Satellite Receiver	MTSAT satellite
PCVSAT	GTS data from China
GTS Link	(YGN - New Delhi & YGN - BKK)
UHF Radio Communication	
AWOS (Yangon, Sittwe, Dawei)	
GPS (Yangon, Sittwe, Dawei)	
Automatic Rainauge (6 stations)	
SSB (37 stations)	
Internet Facilities	
Very Broad Band Digital Seismographs (CEA, CHINA)	
Strong Motion Accelerograph (JICA)	

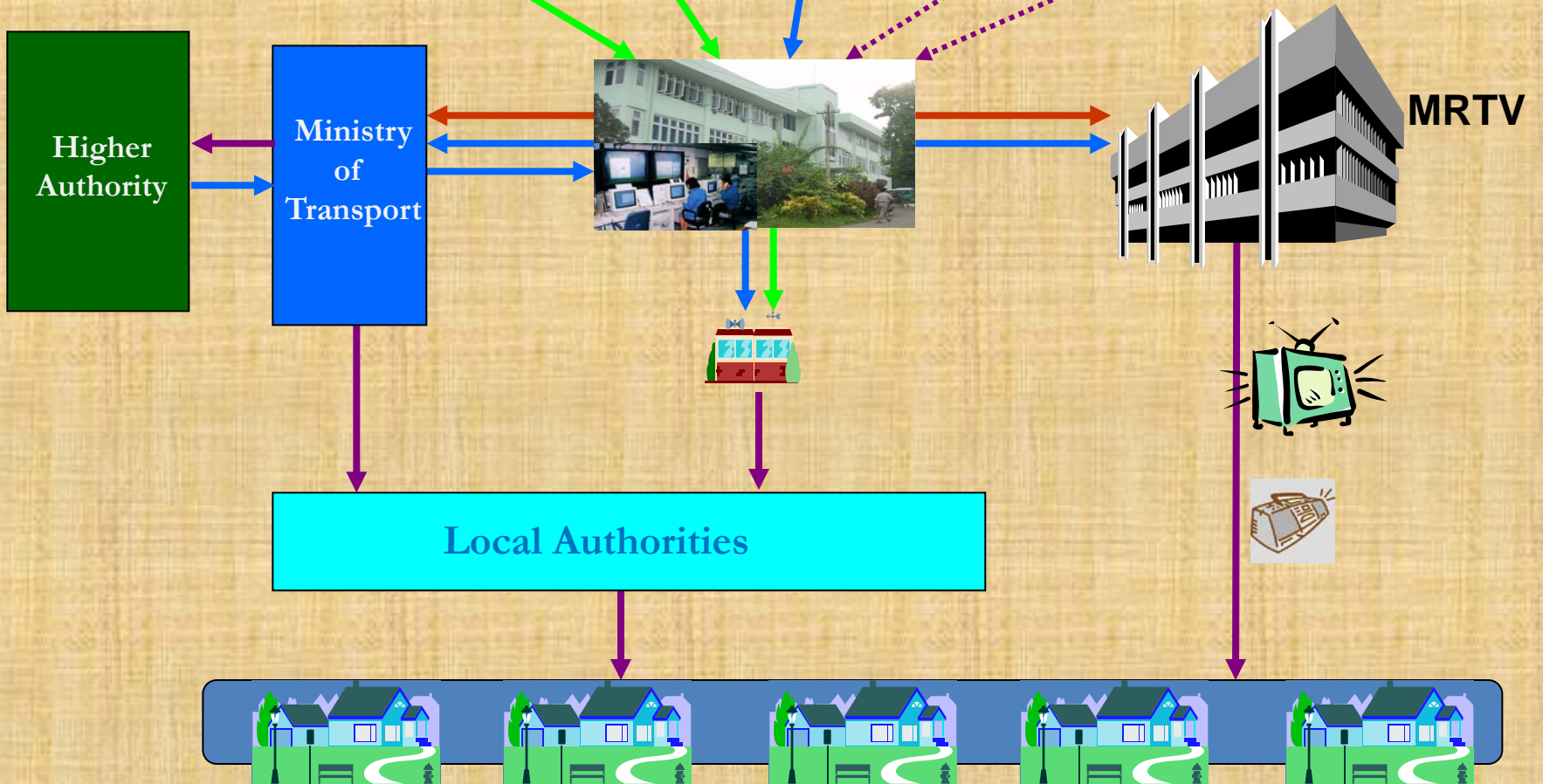


Meteorological Forecast

Satellite

Observation stations

Internet



→ Fax

→ Phone

→ SSB

→ Email

→ Other



Delivering Forecasts

- *Higher and Local Authorities*
- *NDMC (National Disaster Management Committee) members*
- *NRCC (National Risk Communication Committee) members*
- *Ministry of Relief and Resettlement*
- *UN agencies*
- *Governmental Offices*
- *TV and Radio*



Communication System

- *Telephone*
- *Fax*
- *GTS (Global Telecommunication System)*
- *Email*
- *SSB (Single Side Band)*
- *Mobile phone*



Observation Instruments





Observation Instruments





Observation Instruments




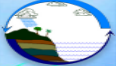


Observation Instruments





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 **မိုးလေဝသနှင့် ဇလဗေဒညွှန်ကြားမှုဦးစီးဌာန**
Department of Meteorology and Hydrology (Myanmar) 


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(8.1.2013): Weather is cloudy in the South-west Bay and partly cloudy in the Andaman Sea and elsewhere in th

Latest News

- Decade Weather Forecast
- Sea Route Forecast
- Significant Water Level Bulletin
- Monthly Water Level Forecast
- Minimum Water Level Bulletin

Thursday, 05 January 2012 00:00



Last Updated on Thursday, 05 January 2012 03:32


32.5°C NayPyi Taw

REPORTS

- Monthly Weather
- DAILY FORECAST
- Monthly Met/Hydro Forecast Video

Photo Gallery

- NMHSS
- Regional City Weather
- Glossary


WORLD METEOROLOGICAL ORGANIZATION

SEVERE WEATHER

El Nino & LaNina

FLOOD

CYCLONE

EARTHQUAKE

RAINFALL

TSUNAMI

QUIZ PROGRAM

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Department of Meteorology and Hydrology (Myanmar)
COUNTER Since 1 January 2011 20230 visitors by web directory
Public weather call: 067-411252/01-667766

30 sets of AWS which are covered
With 3 Doppler Radars
will be installed by JICA.



Constraints

- **convectional/manual instruments**
- **some are over 40 years old**
- **Budget limitation**
- **Needed maintenance and Poor Interesting**

Requirements

- **More AWS by solar power**
- **To learn and share advanced knowledge and information among international , regional and local**
- **To make estimated amount in budget for fiscal year by year**
- **Maintenance in 2 times per year**
- **To teach local staff for how do they use and maintain with calibration and correction**

Thanks for your kind attention!