



Country Report in Myanmar

Marine and Radar Meteorological
Division Tun Naing Win

**TWCWG & Sixteenth session of the Group of Experts for the Global
Sea Level Observing System (TWCWG & GLOSS GE XVI)**

Busan, Republic of Korea, on 11-13 April 2019

Meteorological Division Organization Chart

Agrometeorological
Meteorological Division

Aviation
Meteorological Division

Weather & Long Range
Meteorological
Division

Aviation
Meteorological
Division

Marine
and Radar
Meteorological
Division

1 Assistance Director
1 Staff Officer
2 Senior Observers
1 Junior Observer

KYAUKPYU
RADAR STATION

1 Staff Officer
1 Assistance forecaster
1 Senior Observer, 2 Junior
Observer, 1 Field man

YANGON
RADAR STATION

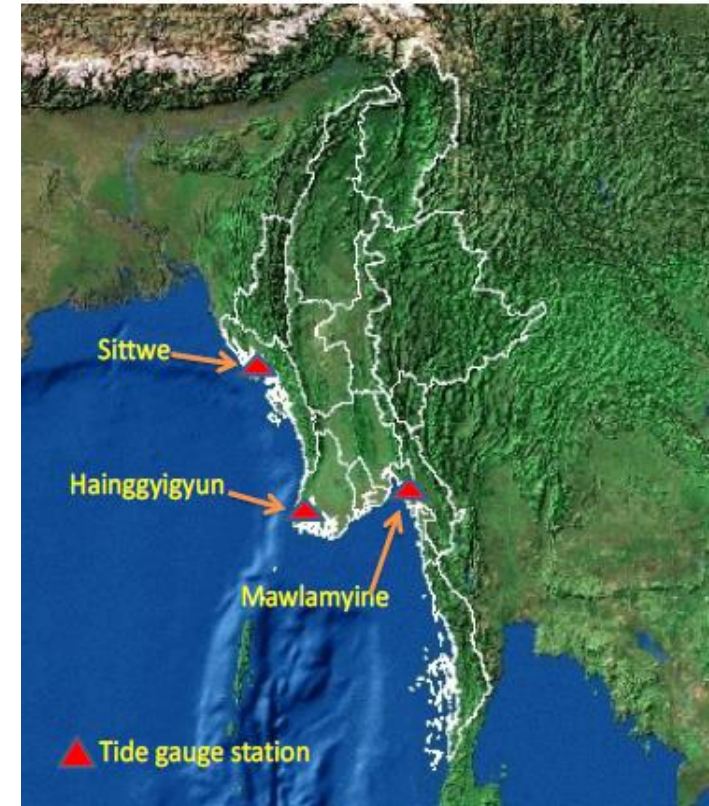
1 Staff Officer
1 Assistance forecaster
1 Senior Observer, 2 Junior
Observer

MANDALAY
RADAR STATION

2 Staff Officer,
3 Senior Observer, 4 Junior
Observer, 1 Field man

Marine and Radar Meteorological Division

- Marine and Radar Meteorological Division established in March, 2013
- 14 staffs (Currently, 4 staffs)
- 3 radar have been installed in Kyaukpyu, Yangon and Mandalay.
- 3 sea level tide gauge (Sittwe, Hainggyigyun and Mawlamyine station)



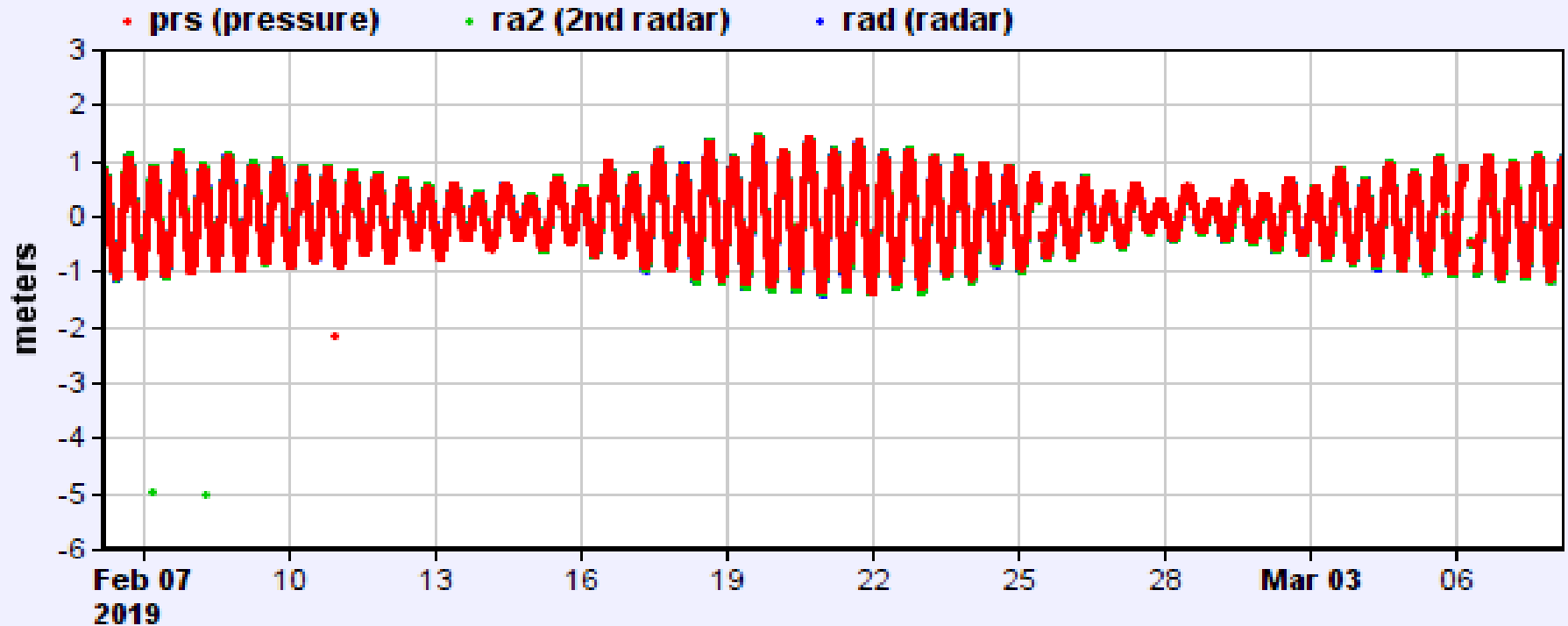
Coastal Observations in Myanmar

- About 2400 km in Myanmar coast
- 12 coastal stations
- No marine stations



Sittwe in Rakhine State

Sealevel at Sittwe station (offset: 5.049 m)

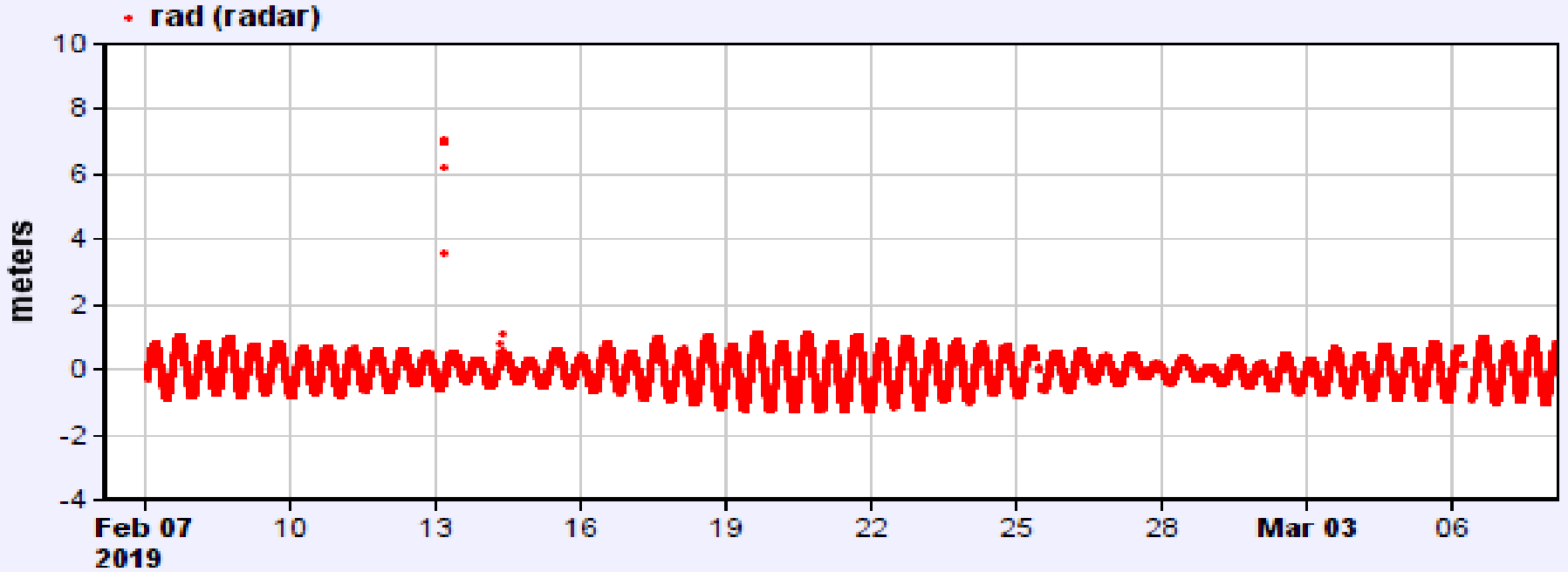


From 2019-02-06 04:40+00:00 to 2019-03-08 04:40+00:00

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Hainggyigyun in Ayeyarwady Region

Sealevel at Haing Gyi Kyun station (offset: 1.237 m)

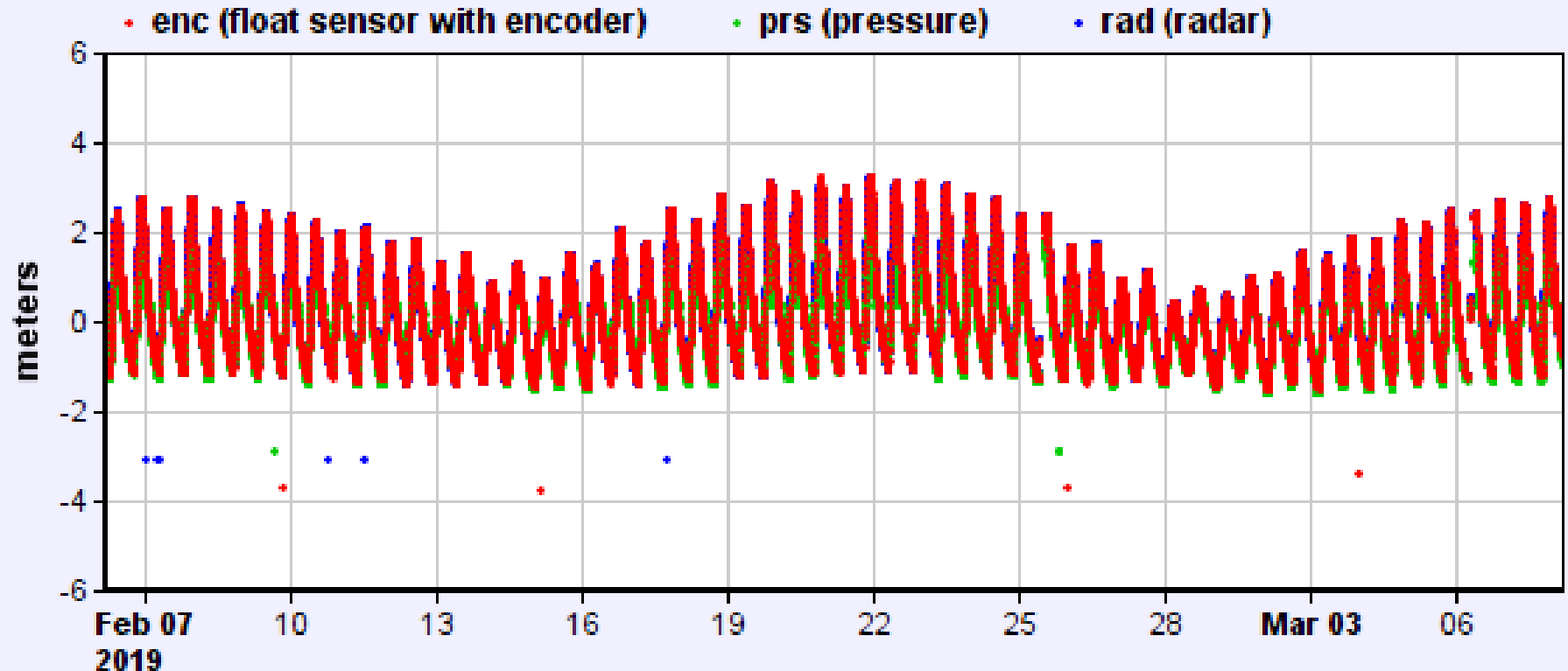


From 2019-02-06 04:43+00:00 to 2019-03-08 04:43+00:00

© IOC-VLIZ

Moulmein in Mon State

Sealevel at Moulmein station (offset: 3.095 m)



From 2019-02-06 04:47+00:00 to 2019-03-08 04:47+00:00

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Marine Monitoring Activities

Currently, DMH issued sea conditions over the Andaman sea and Bay of Bengal.

Squalls with moderate to rough sear are likely attimes off and along Myanmar coasts. Surface wind speed in squall may reach (35) mph. Wave height will be (8-10) feet off and along Myanmar coasts.

DMH issued the marine weather forecast for Bay Bulletins

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အစိုးရ
 ဦးဆောင်ရေးနှင့်ဆက်သွယ်ရေးဝန်ကြီးဌာန
 မိုးဆဲလ်နှင့်စာရေးသွင်းရေးဦးစီးဌာန
 ရန်ကင်း

ရက်စွဲ၊ ၂၀၁၈ ခုနှစ်၊ ဇွန်လ ၂၀ ရက်

သို့

Yangon Radio/Port Wireless/Nautical/Mingaladon

အကြောင်းအရာ Bay Bulletin အစီရင်ခံစာ

အထက်အကြောင်းအရာပါ ကိစ္စနှင့်ပတ်သက်၍ မိုးဆဲလ်နှင့် စာရေးသွင်းရေးဦးစီးဌာနမှ ထုတ်ပြန်သည့် Bay Bulletin ကို အောက်ပါအတိုင်း အစီရင်ခံစာပါသည်။

BAY BULLETIN

ISSUED ON : 20 - 6 - 2018

AT: 13:00 hrs M.S.T

COMPOUND :

PART ONE :

PART TWO :

PART THREE:

FORECAST FOR AREAS BETWEEN LAT. 10.5°N - 16.5°N AND LONG. 92°E

WEATHER :

VISIBILITY :

SURFACE WIND :

SEAS :

WAVE HEIGHT :

FORECAST FOR AREAS BETWEEN LAT. 16.5°N - 20.5°N AND LONG. 92°E

WEATHER :

VISIBILITY :

SURFACE WIND :

SEAS :

WAVE HEIGHT :

HOIST :

ADD :

REPLACE :

For Director General
 (Dr. Zin Mie Mie Sein - Staff Officer)

Department	Ph. No.	Sent by (Time)
W(53) Yangon Radio	056-21507/056-21720 (Fax) 09767344348	
W(54) Wireless	01-3844711(Fax)	
Nautical	01-333084/01-336047/01558902(Fax)	
Mingaladon	01-333048	
Five star	01-202172/203038(Fax)01-297689	
DMA	(Fax)- 411423/ Ph- 411424	
Myanmar Navy	031-31669/031-31647	

Marine Observations and Data Management

DMH have not marine observations in the coastal areas.

DMH have three sea level stations. (Sittwe, Haing Gyi Kyun and Mawlamyine)

Currently, DMH using the NWP output the neighboring website (TMD, IMD, SWFDP, .. Etc)

Future plans:

To promote of Numerical weather Prediction System

To Substitute conventional instruments to advanced instruments.

To install modernize weather radars to cover the coastal regions.

To upgrade DMH's Data collection and processing system with automation.

To enhance Climate Services, Application and Modeling

Dense Meteorological observational networks

To extend Automatic Weather Station (AWS)

Upper air observation facilities (Pilot balloon, wind, moisture, etc)

More instruments to observed radiation, evaporation, sun shine, ozone, upper air,
wind and temperature

High gust anemometer for coastal station

Gaps and Requirements

- **To apply to forecast of Satellite Data and Satellite image**
- **Need to know Satellite data in Now-casting and very Short Range Forecasting**
- **DMH has been installed three radar. After that Need basic Rader information/Analysis of radar . Three radar is not cover in the whole country. We need to more install radar.**
- **Radar training**
- **Need Radar QPE(Quantitative Precipitation Estimation) Techniques**
- **Case study on Radar Data Analysis**
- **NWP product and Verification**
- **We need to install marine observation station in the coastal areas, Myanmar.**

Thanks you