



Ministry of Transportation  
and Telecommunications



# Bahrain Meteorological Directorate

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Acting / Director of Meteorology

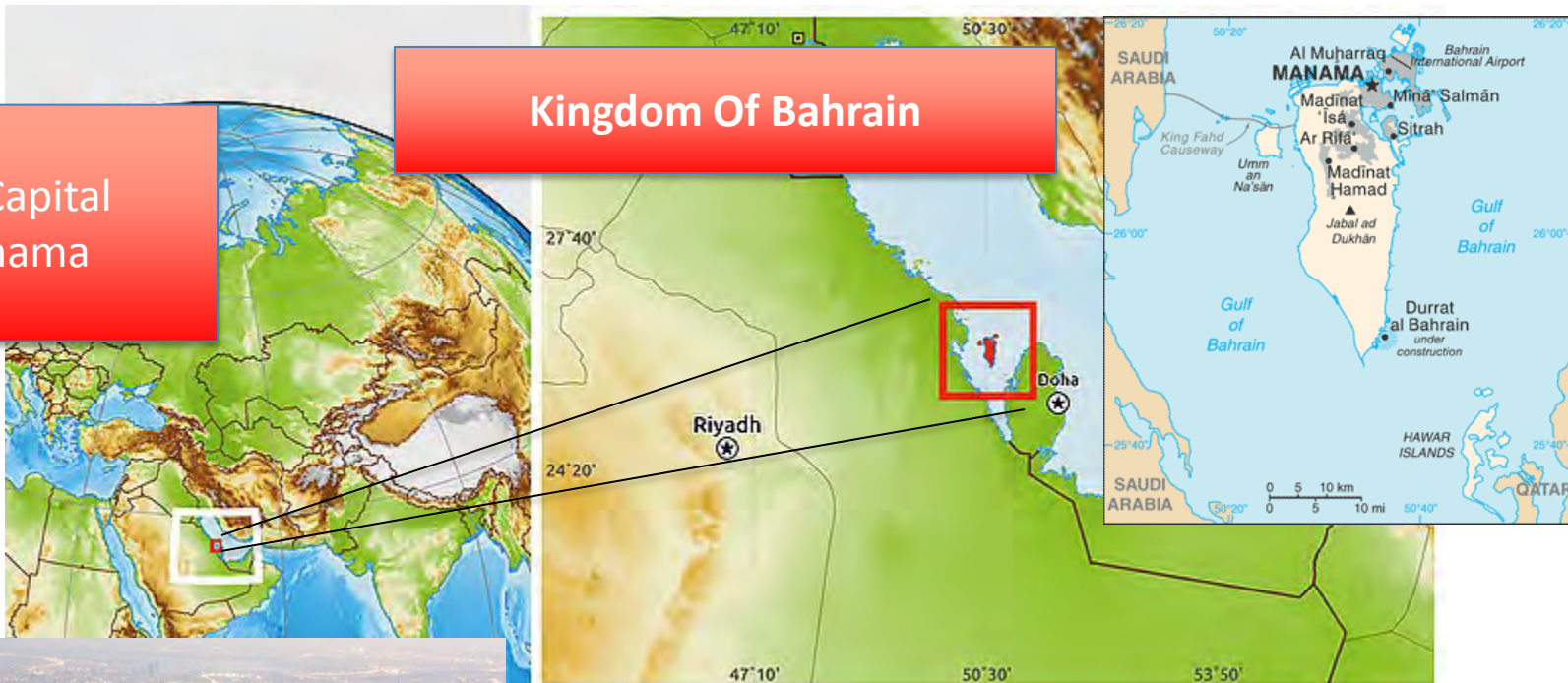
Permanent Representative of Bahrain with WMO

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The Capital  
Manama

## Kingdom Of Bahrain



Population is  
1,425,171 (c. 2016).

Area 765.3  
square kilometers





## DIRECTOR OF METEOROLOGY

- The Ministry Of Transportation and Telecommunications (MTT) - Bahrain Meteorological Directorate (BMD) is the authorized Government Organization for all meteorological activities in the country.
- The history of BMD began in 1902, when the first Meteorological records were made, and our meteorological archives go back to that date.
- The Kingdom joined the world Meteorological Organization (WMO) the specialized Meteorological agency of United Nations in 1980. In 2001, the Kingdom was elected as president of regional Association II (Asia).
- The BMD contributes to Bahrain's national social and economic by providing critical weather services.
- The BMD is responsible for the supply of meteorological advice and information, both historical and of a forecast nature, to the public and private sectors in Bahrain.
- It is also responsible for carrying out research into meteorological and related subjects for Bahrain and the region.



Develop and strengthening of meteorological services to keep up with international standards and developments which will reflect on the **quality of services** to meet the requirements of various sectors in the kingdom and to **achieve public safety** and the **reduction of natural disasters environment**, losses and contributing in the **Bahrain Economic Vision 2030**.

To be at the highest global level to provide excellent services contributes to public safety and promoting sustainable development.



## Safety enhancement

Good Product.  
Systems.

Short staff.  
lack of  
experience.  
Marketing.

Staff & Product  
Improvements.  
Customer  
loyalty.  
Training.  
Projects.

Budgetary.  
Recruitments  
.  
Competitors.

Staff & Product  
(Analysis &  
measurements.  
Training.  
Projects.

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(Analysis &  
measurements.  
Training.  
Projects.

Short contracts with retired Staff.  
Out sources recruitments.  
Partnerships.  
Creativity.  
Events Participation.



## Objectives

The main objectives of the BMD are:

- To operate and maintain **observations**.
- To provide a meteorological service that meets the needs of **aviation**.
- To provide a meteorological service that meets the needs of **mariners**.
- To provide a meteorological service that meets the needs of the **military**.
- Issue and make available weather forecasts to the **general public and media**.
- **Satisfy** the needs of other Government Departments and various companies involved in agriculture, industry, health and the environment.
- Meet the needs of future Bahraini generations for reliable and homogenous **climatological records**.



## Meteorological Directorate Organization Chart

**DIRECTOR OF METEOROLOGY**

**OPERATION AND  
OBSERVATION SECTION**

Observation  
Group

Staff- 12  
out-of 20

Forecasting  
Group

Staff -11  
out-of 18

**CLIMATOLOGY AND  
SIESMOLOGY SECTION**

Climatology  
group

Staff -2 out-  
of 4

seismology  
group

Staff -2 out-  
of 4

**METEOROLOGICAL  
INFORMATION SYSTEM &  
NWP & RESEARCH SECTION**

Met info  
System  
(IT) group

Staff -2  
out-of 4

NWP &  
Research  
group

Staff -2  
out-of 4





Services

Aviation

Marine

Public

Private Sector

Universities & Institutes

Public Sector

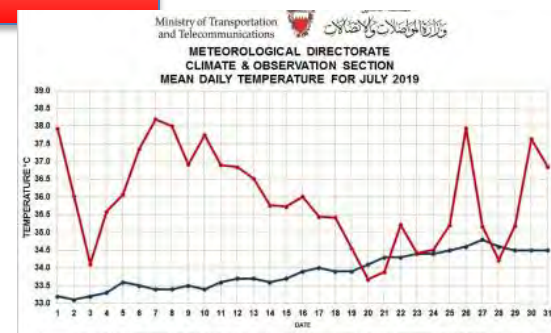


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## Some of our products

الأرصاد الجوية  
Meteorology



الأرصاد الجوية  
Meteorology

Bahrain Weather Forecast Wednesday 05/10/2016

Temperature

Max 35 °C  
Min 25 °C

Humidity

Max 75 %  
Min 30 %

Weather Mainly fine.

Wind Variable 05 to 10kt, but m the day.



Weather Forecast  
THURSDAY 15<sup>th</sup> NOV 2018

Partly Cloudy at times and winds are mainly SE'y 10 to 15kt reaching 18 to 23kt at times later.

Monday 18.3.2019

11:11 AM  
21°C

widspread dust

SUNRISE 05:44 AM  
SUNSET 05:47 PM

1 to 2 ft inshore  
2 to 4 ft offshore

Tide  
9.07m  
3.28m  
0.7m  
2.1m

Ministry of Transportation and Telecommunications

App Store Google play

Bahrain

Weather Forecast

Partly Cloudy at times and winds are mainly SE'y 10 to 15kt reaching 18 to 23kt at times later.

Carrier 9 1:01 PM Manama Change

39°  
Feels like 36°  
Clear Sky

Max 41°  
Min 29°

Carrier 9 1:01 PM Manama Change

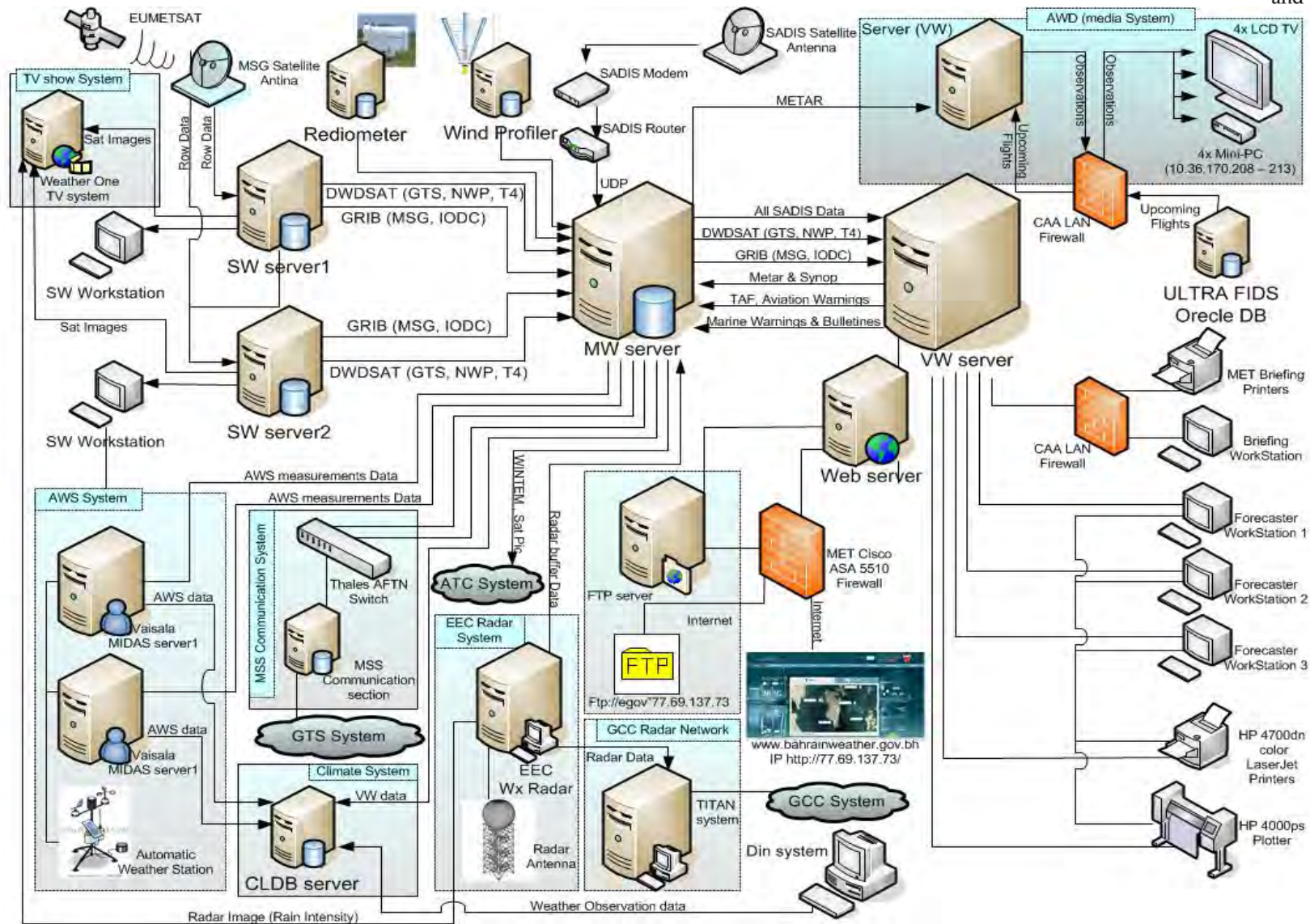
6:58 PM  
High Tide: 2.3m

4:48 AM  
6:21 PM



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## Bahrain Meteorology (TALF) System Network

- ibl system – Vaisala MIDAS System - EEC Radar System – Weather One  
– Radiomatrix – Degreane - DWT



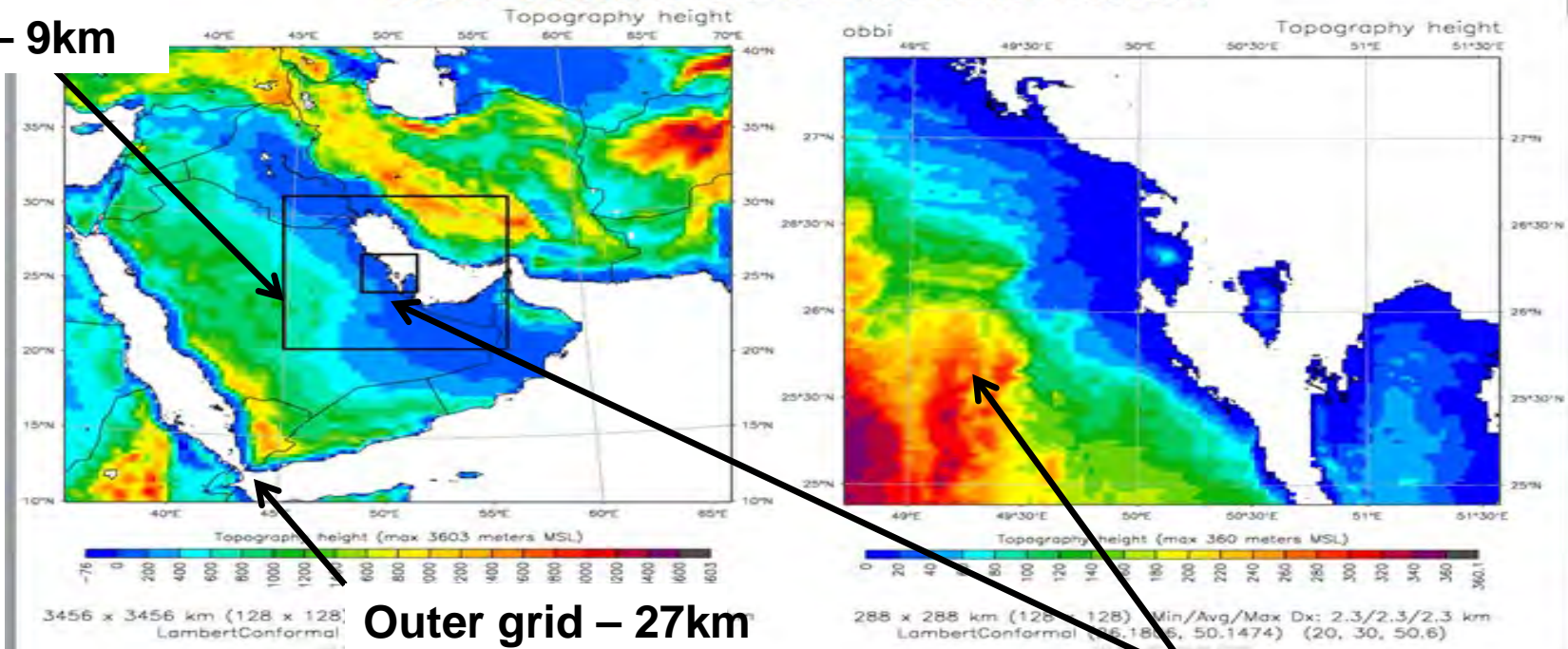


## Near Future Projects

### Bahrain (NWP) project

Intermediate  
grid– 9km

#### Recommended Bahrain Grids





## Aim of the Visit

- ☐ Identify the WMO organization closely
  - Organization distribution.
  - The main responsibilities.
  - Purposes of each sections.
  - The mechanism of the WMO management.
- ☐ WMO Program.
  - How can we contribute in WMO programs positively.
  - How can we benefit from WMO programs.
- ☐ Future directions for development related to (WMO and NMHS).
- ☐ WMO support to NMHS and our responsibility to maximum benefit.



Thank you