



All Weather, Inc. AWOS Case Summary



Sultan Iskandar Muda International Airport

Banda Aceh, Indonesia

The Sultan Iskandar Muda International Airport, also called Banda Aceh International Airport, is located at the Northern tip of Sumatra. After being hit by a devastating tsunami on December 26, 2004, the airport has been completely renovated. The airport served and still serves as a delivery point for goods from all over the world for victims of the Tsunami in Aceh.

As part of this important renovation, a state-of-the-art AWI **MetObserver AWOS** was installed at the airfield to enhance flight operations with accurate and timely aviation grade weather information. The airport serves many air traffic carries from both international and domestic locations.

Both runway ends have installed the AWI high quality sensors for complete ICAO CAT II operations for takeoffs and landings.

The system as specified by the Indonesian government, who are also fully trained in operations and maintenance of the system from our Sacramento facility, was installed and overseen by our Indonesian partner, TWS which is headed up by Mr. Steven Alexander and a fine technical crew.

The airport runway has a full suite of weather instruments covering both ends of the runway and also a met garden.



The following is a summary of the equipment improvements to the airport.

Sensor Stations

The sensor stations, located at the touchdown zone of the runway, measure a full array of meteorological parameters, including, wind speed and direction, air pressure, temperature, dew point temperature, relative humidity, rainfall, present weather, visibility, runway visual range, and solar radiation. The stations consist of the following sensors and auxiliary equipment.

Runway 17

Tower-Mounted Sensors

The following sensors are mounted on a 30-foot stacked tower:

Model 2040	Ultrasonic Wind Speed and Direction Sensor
Model 11901	Dual Digital Barometer
Model 5190-F	Temperature/Relative Humidity Probe housed within a Model 8190-01 Motor-Aspirated Radiation Shield (MARS)

Pad-Mounted Sensors

The remaining sensors are installed on concrete pads near the tower.

Model 8339-G	Laser Ceilometer
Model 8365-A	Dual Technology Visibility Sensor with M488171-01 Ambient Light Sensor

Runway 35

Tower-Mounted Sensor

The following sensor is mounted on a 30-foot stacked tower:

Model 2040	Ultrasonic Wind Speed and Direction Sensor
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Pad-Mounted Sensors

The remaining sensors are installed on concrete pads near the tower.

Model 8339-G	Laser Ceilometer
Model 8365-A	Dual Technology Visibility Sensor

Met Garden

Tower-Mounted Sensors

The following sensors are mounted on a 30-foot stacked tower:

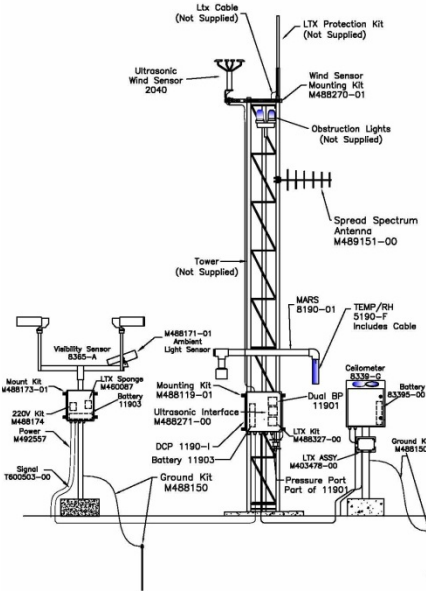
Model 2040	Ultrasonic Wind Speed and Direction Sensor
Model 11901	Dual Digital Barometer
Model 3022	First Class Pyranometer
Model 5190-F	Temperature/Relative Humidity Probe within a Model 8141-D Self-Aspirated Radiation Shield (SARS)

Pad-Mounted Sensor

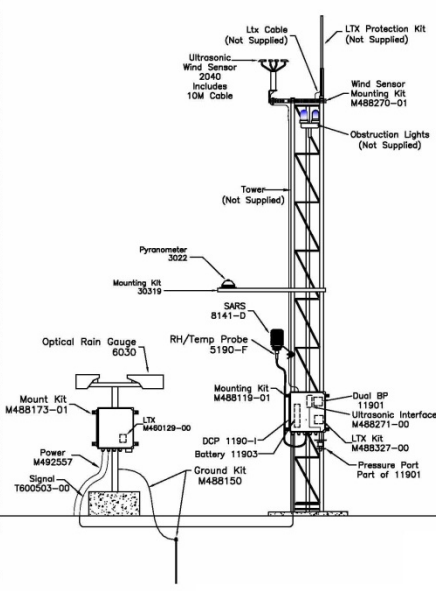
The remaining sensor is installed on one concrete pad near the tower.

Model 6030	Optical Precipitation Gauge
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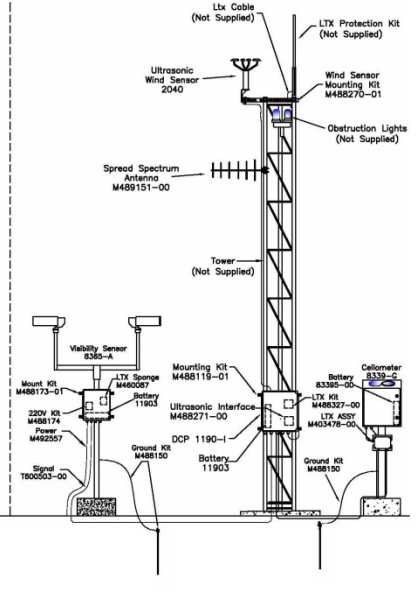
Runway 17



Met Garden



Runway 35



File Edit View Manual Observations Logs Reports System Status Help

29/10/2009
SULTAN ISKANDAR WITT
19:04:20

Winds 17 - knots

Wind Direction: 120°

Wind Speed: 13

Speed	Direction	Min	Max
21	360	160	160
2 Min.	9	090	0 18

MOR 17 - meters

Average	Min	Max
1 Min.	1900	1300 2500
2 Min.	1900	1300 2800
10 Min.	2200	1900 2700

RVR 17 - meters

Average	Min	Max
1 Min.	P2000	1800 P2000
2 Min.	P2000	1600 P2000
10 Min.	P2000	P2000 P2000

Trend: N RLS: 5

Present Weather

HZ

Sky Condition - 100s of feet

OVC060

Temperature - celsius

Air Temp. Dew Point RH

15.6 C -7.7 C 14 %

Air Pressure - hPa

QNH QFE

1015.6 1013.2

Density Altitude:

Precipitation - mm

1 Hour 6 Hour 12 Hour 24 Hour

0.2 1.7 1.7 1.7

Solar Radiation - W/m2

670

Winds 35 - knots

Active

Wind Direction: 080°

Wind Speed: 09

Speed	Direction	Min	Max
25	020	130	130
2 Min.	10	070	0 25

MOR 35 - meters

Average	Min	Max
1 Min.	2400	1200 5000
2 Min.	2300	1100 5000
10 Min.	2300	2000 2800

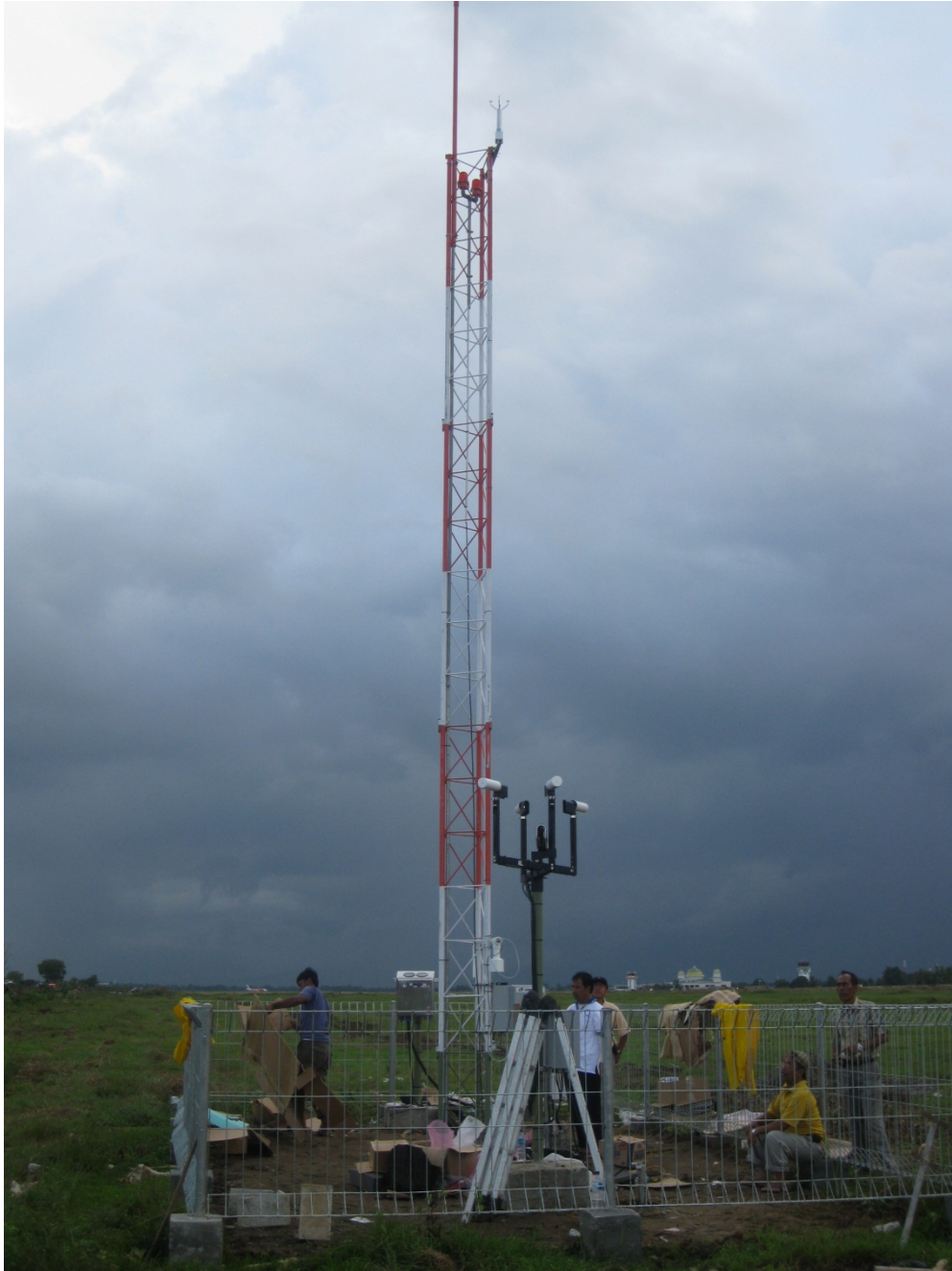
RVR 35 - meters

Average	Min	Max
1 Min.	P2000	1800 P2000
2 Min.	P2000	1500 P2000
10 Min.	P2000	P2000 P2000

Trend: N RLS: 5

METAR / SPECI METAR WITT 291900Z AUTO 09010G26KT 010V160 2100NDV HZ OVC065 16/M08 Q1015

Air traffic at the Banda Aceh International airport is significantly increasing each year and the need for accurate and timely weather information has never been greater. The weather data and reports generated by the new state-of-the-art AWI AWOS system is providing the needed information to properly coordinate the increasing flight activities for take offs and landings while mitigating risk and enhancing critical decision making. When every decision counts, airport professionals choose AWI AWOS systems.



Installation in Progress