



## 2014 GOES-R/JPSS OCONUS R20 TIM

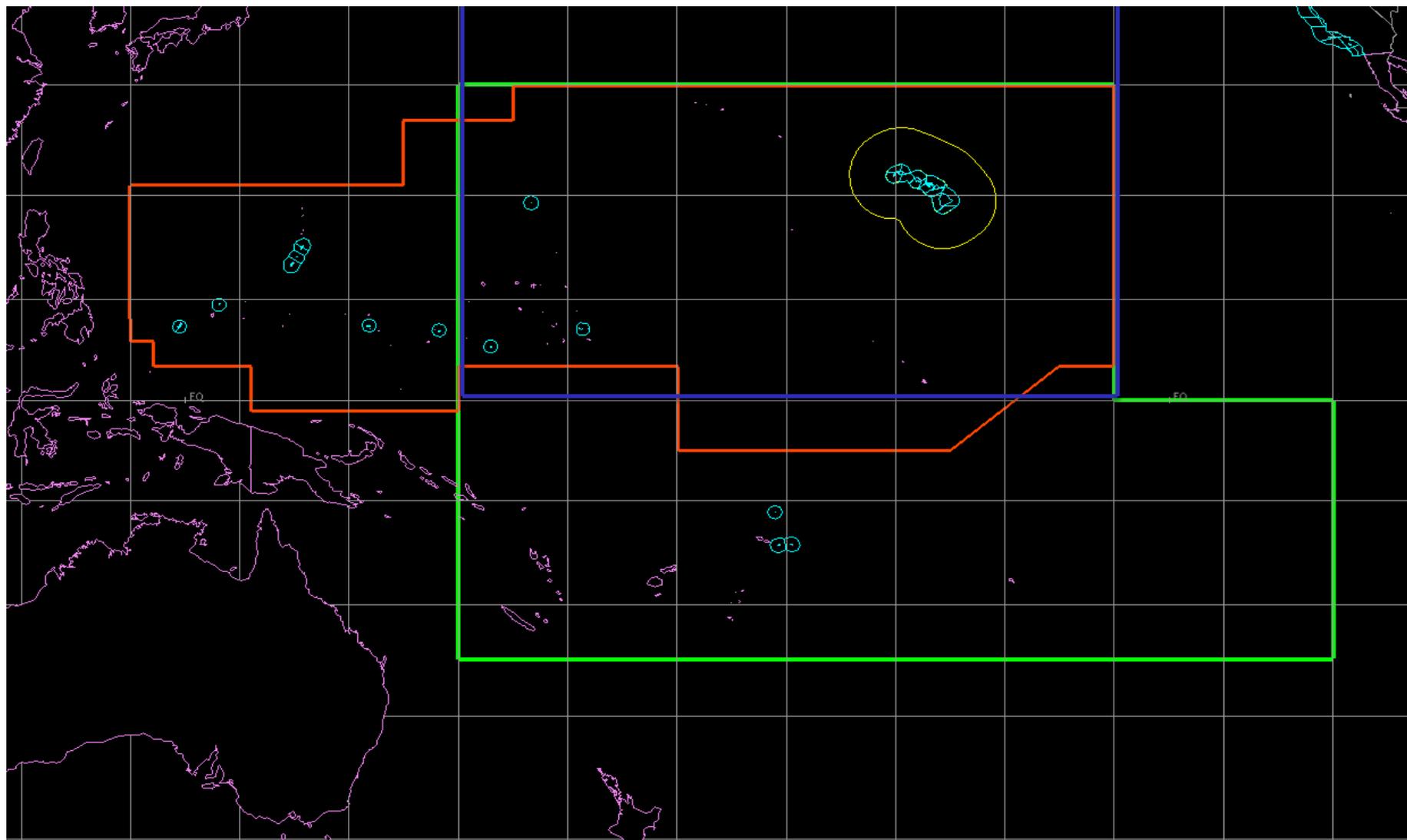


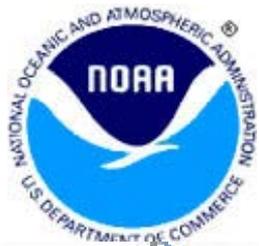
# Pacific Region's Satellite Products, Programs and Requirements

Pacific Region Headquarters  
Honolulu, Hawaii  
July 2014

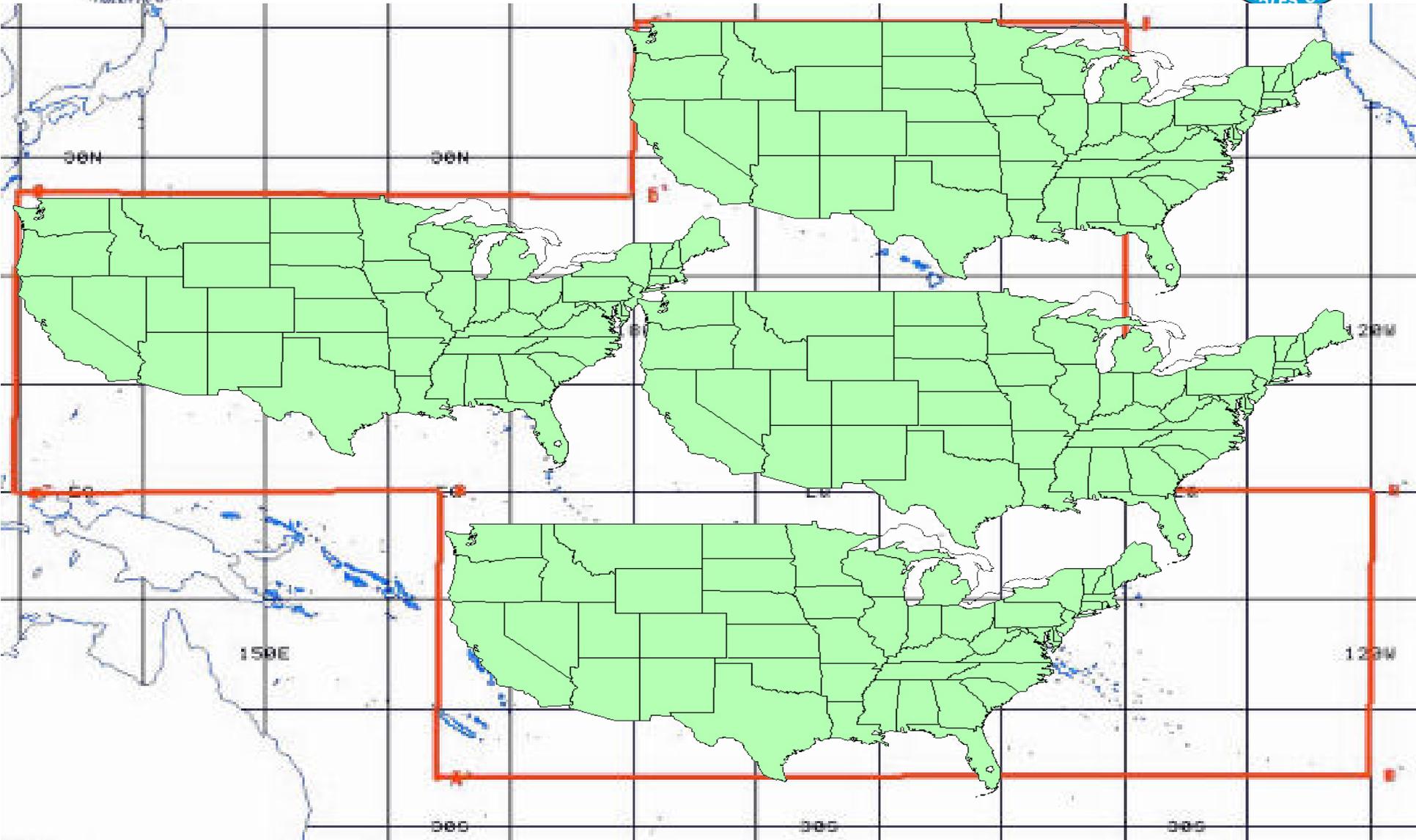


# Area of Responsibility





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- Pacific Region
  - covering > 30 million square miles
  - 2 Weather Forecast Offices
    - Honolulu and Guam
  - 6 Weather Service Offices\*
    - Palau, Yap, Pohnpei, Majuro, Chuuk
    - \*WSO Pago Pago operates like WFO.
  - 2 Data Collection Offices
    - Hilo (Big Island) and Lihue (Kauai)
  - Central Pacific Hurricane Center
    - Collocated with WFO Honolulu
  - Pacific Tsunami Warning Center
  - International Tsunami Information Center



# PR Observing Program



- NWS PR supports numerous islands, such as Hawaii, American Samoa, Guam, CNMI, and Micronesia
  - Satellite Ground Stations (including L/X-band antenna)
  - Surface and upper air in-situ observations
  - GPS Sensors
- These provide:
  - Invaluable assistance for our Watch, Warning and Advisory programs
  - Verification
  - Support for our daily forecast services



# PR Observing Program



- Challenges
  - Communications and infrastructure
  - Limited resources for operations and maintenance
  - Highly corrosive environments
  - Time to travel to remote destinations (limited air and boat service)
  - High costs for equipment, contracts, travel and shipping
  - Limited personnel



# Satellite Ground Stations

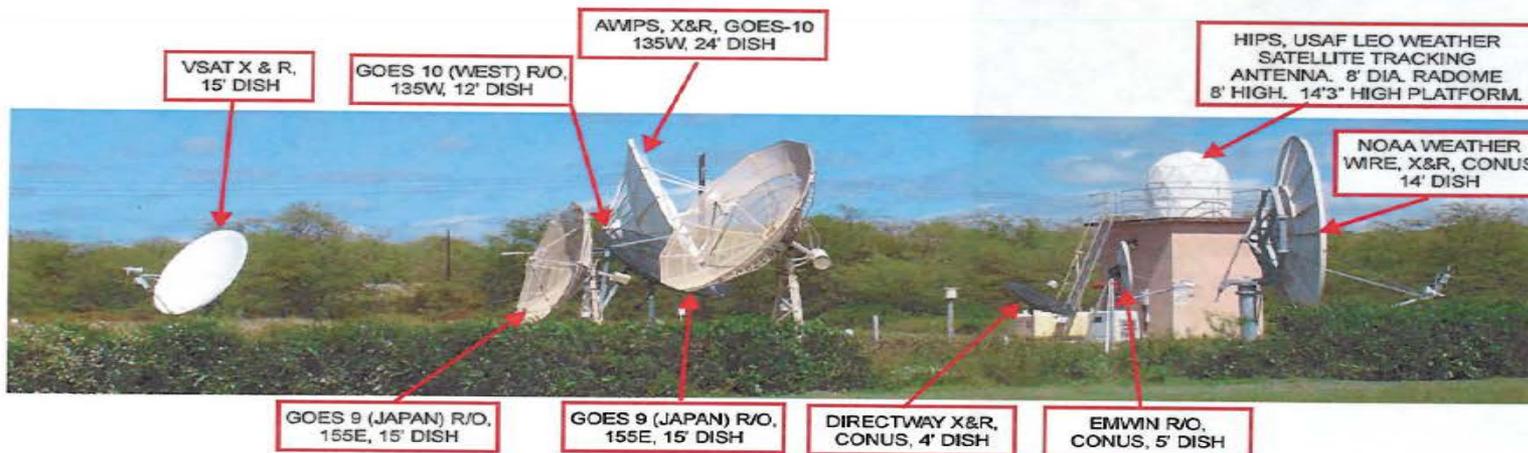
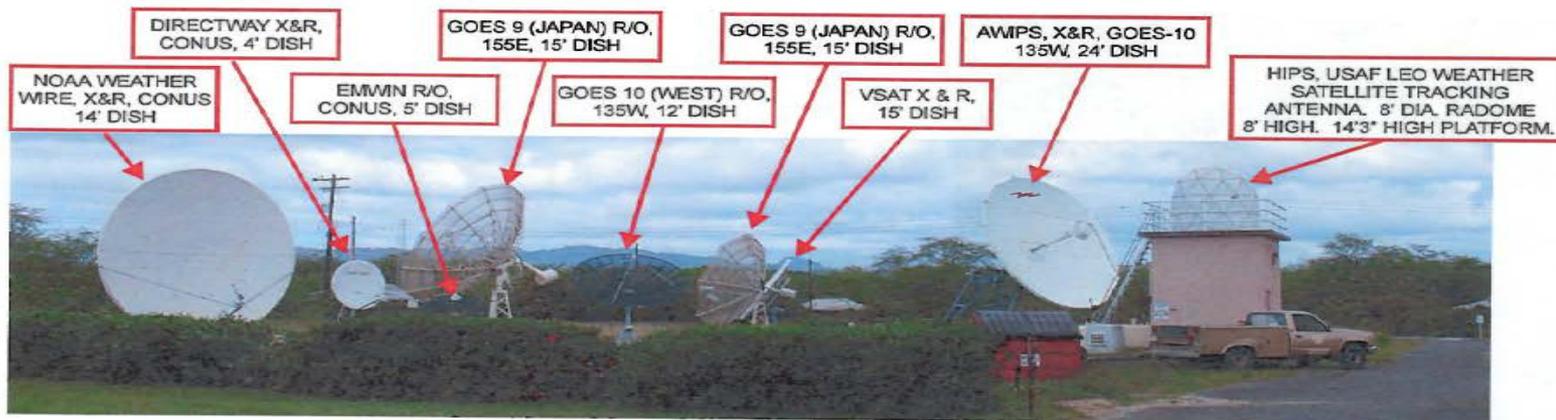


Pacific Region Satellite Ground Stations  
Ewa Beach, Oahu Hawaii  
Pacific Tsunami Warning Center (PTWC)

Future— Inouye Regional Center (IRC)

# Satellite Ground Stations

PACIFIC TSUNAMI WARNING CENTER SATELLITE ANTENNAS

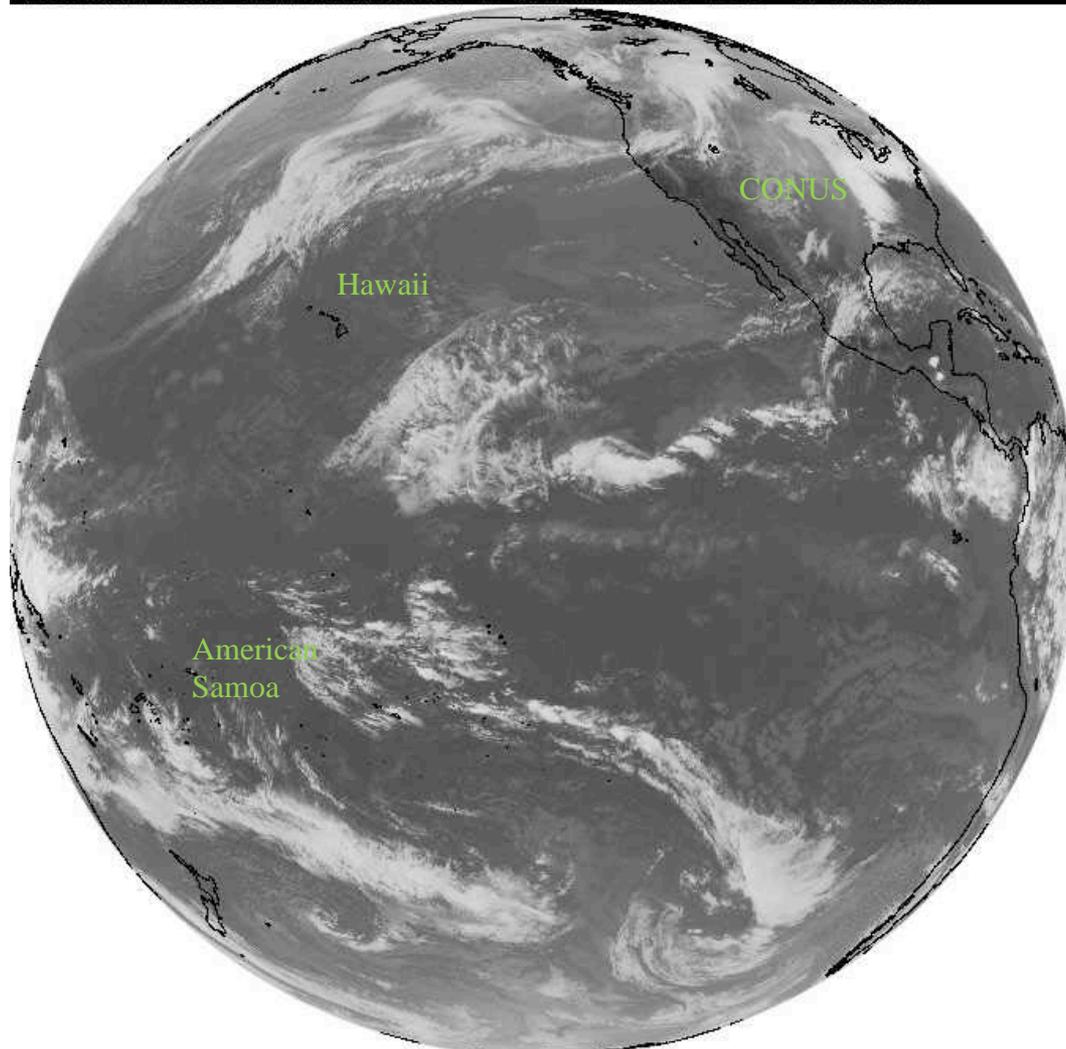




# GOES-W Footprint

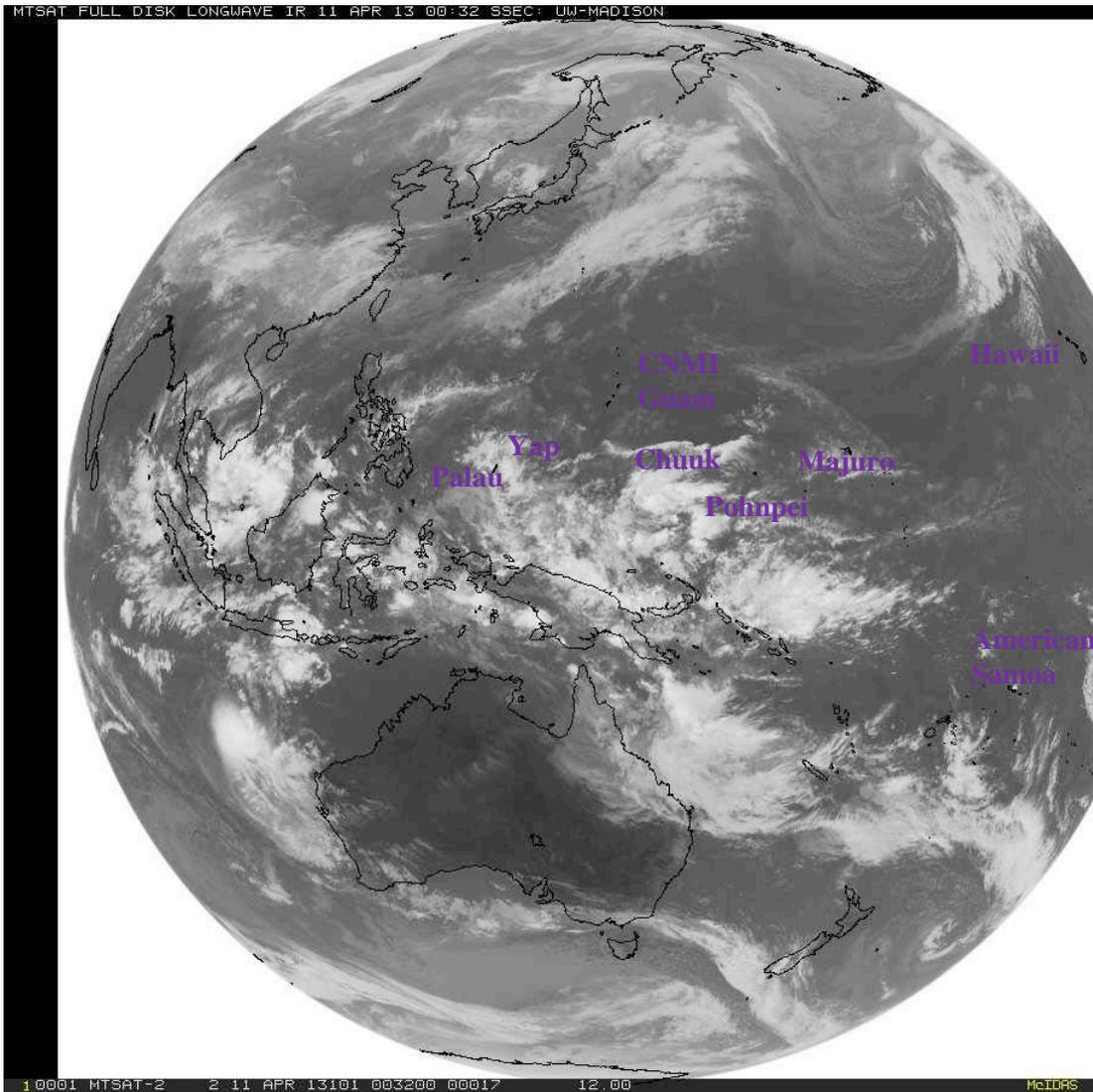


GOES WEST FULL DISK LONGWAVE IR 11 APR 13 00:00 SSEC: UW-MADISON





# MTSAT Footprint

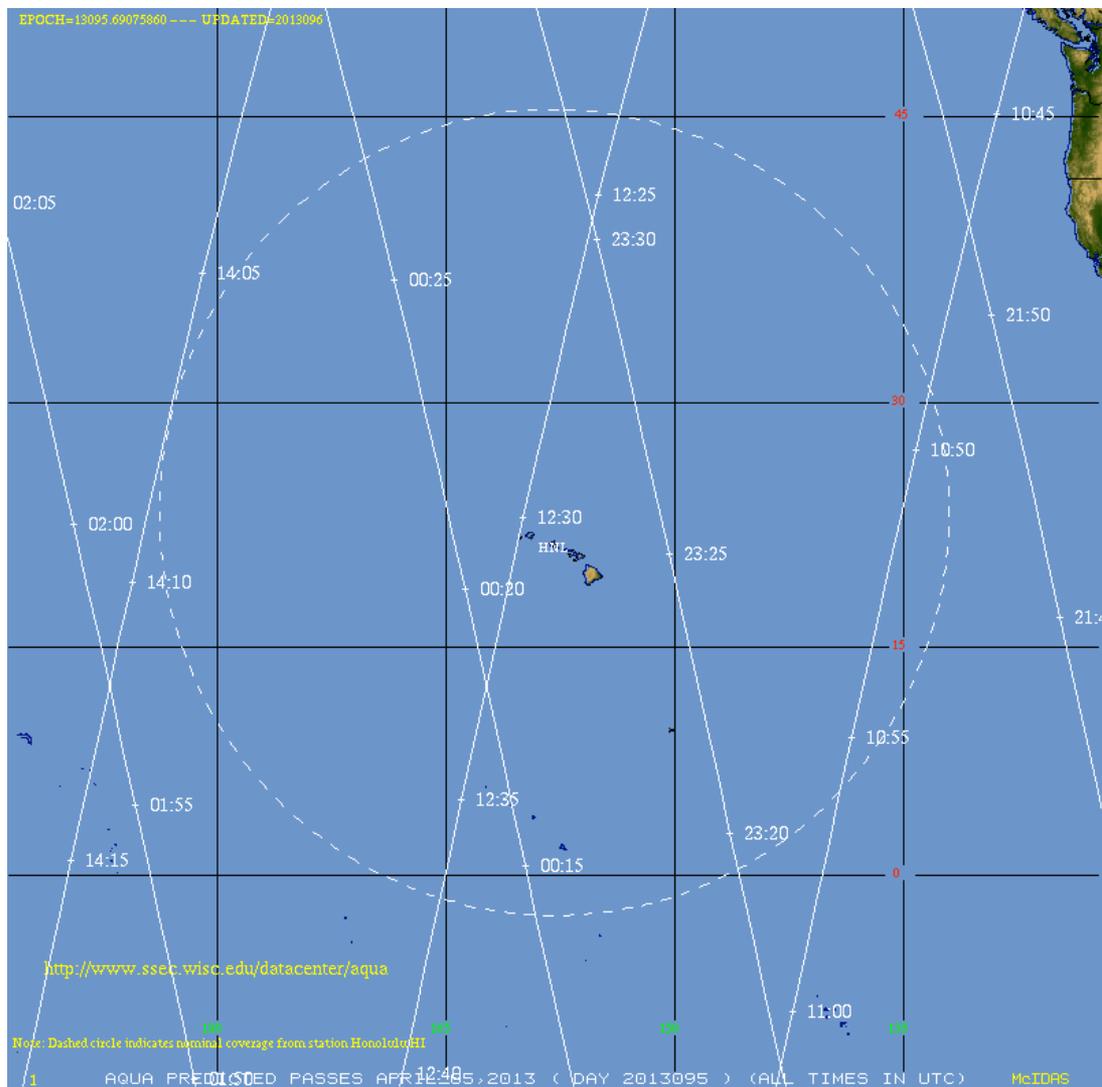




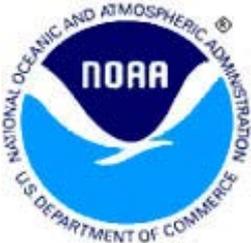
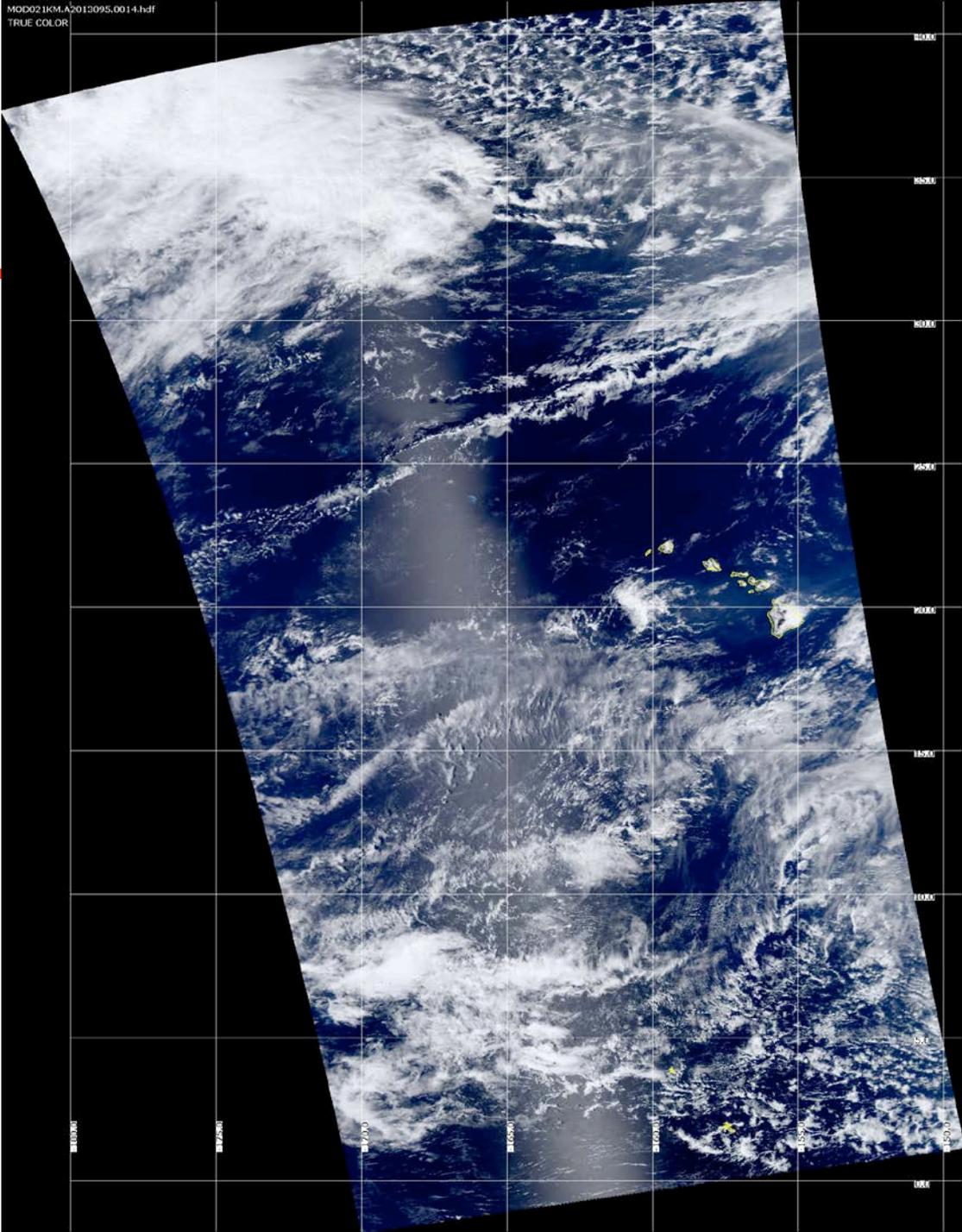
# L/X Band Antenna, Range



- Honolulu Community College



MOD021KM.A2013095.0014.hdf  
TRUE COLOR



April 5, 2013  
00:14 UTC  
Aqua MODIS



# PR's Satellite Future



- **GEOSTATIONARY**

- NWS Integrated Dissemination Program, Ground Readiness Project (IDP-GRP)
  - Himawari 8/9 data reception uncertainties
    - Commercial Satellite Reception
    - Direct Internet Reception via NESDIS over NWAWE
  - GOES-R (as GOES-West!)
    - Data delivery to American Samoa forecasters (Bandwidth???)
    - GOES-15 coverage of southern Pacific post GOES-R?

- **POLAR ORBITING**

- L/X Band antenna at WFO Guam (Bandwidth???)
- Model and forecast supplements a very data sparse region
- Additional valuable data
  - OSVW, Altimetry, tropical, etc...



# Summary



- Pacific Region covers a vast area void of observations
  - Satellite data is vital to our mission
    - Ground stations located in Hawaii and Guam
- Unique region in the NWS in diversity of comms and variety of offices/services
- Complex resources reflect a customized and innovative approach to meeting mission requirements



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# Questions