



GEONETCast Americas

A GEOSS Environmental Data Dissemination System

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Delivering Environmental Data to Users Worldwide



GEONETCast is a GEO Task

Establish GEONETCast as a distribution system for GEOSS related data, information and products using communications satellites and low cost, self contained, stand alone off-the-shelf reception stations.

FZNT23 KNHC 121458
OFFNT3
OFFSHORE WATERS
FORECAST FOR THE SW AND TROPICAL N
ATLANTIC AND
CARIBBEAN SEA
NWS TPC/NATIONAL HURRICANE CENTER MIAMI
FL
1130 AM EDT SUN JUL 12 2009
OFFSHORE WATERS FORECAST FOR THE SW AND
TROPICAL N ATLC FROM 07N
TO 22N BETWEEN 55W AND 65W

U. S. NOAA National Weather Service



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What is GEONETCast?

- Worldwide information dissemination system by which satellite and *in situ* data, products and services are transmitted to users through commercial communications satellites.
- Receiving stations use low-cost, off the shelf DVB-S broadcast technology – Receive station cost ~ \$2,000 - \$4,000.
- Information includes climate, weather, agriculture, air quality, disasters, and more, in support of GEOSS Societal Benefit Areas.
- No internet connection required by users
- No format restriction for providers or users. Components will be standard commercial off-the-shelf components to keep user costs lower

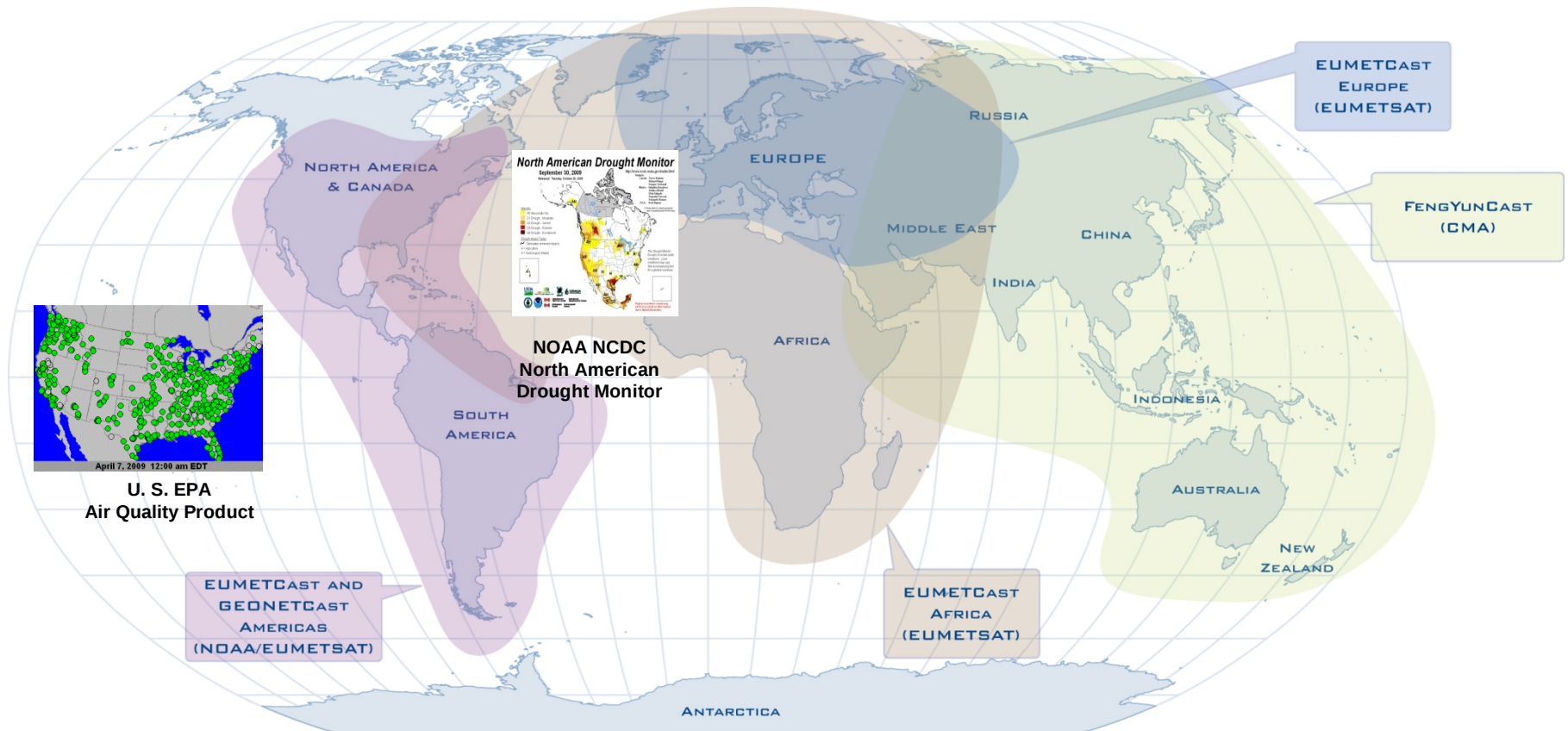


CATHALAC/SERVIR
Antenna Installation



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Global Coverage

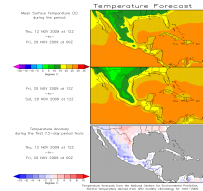


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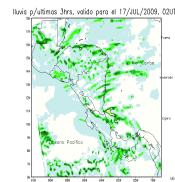


GNC-A Providers and Offerings

- **Brazil National Institute for Space Research (INPE)**
 - Derived regional products including *fire monitoring, lightning, rainfall nowcasting, UV Index, vegetation*
- **NASA/USAID SERVIR Project**
 - *MODIS fire images* over Guatemala, and *short-term rainfall forecasts* from WRF and MM5 models
- **National Space Activities Commission (CONAE)**
 - SAC-C Imagery products in .gif format
- **National Meteorological Institute of Costa Rica**
 - Flash Flood Alert Products
- **U.S. Environmental Protection Agency**
 - Hourly animated *air quality maps* of ozone and particulates over U.S.
- **USAID/NOAA RANET Project**
 - Developmental set of products supporting several societal benefit area
- **NOAA/NCDC**
 - North American Drought Monitor
- **NOAA-NESDIS/NWS**
 - Several environmental products
 - Alerts, Watches and Warnings



NCEP Forecast from
RANET Broadcast

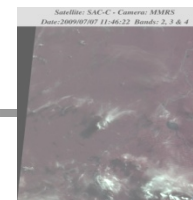


CATHALAC/SERVIR
Precipitation



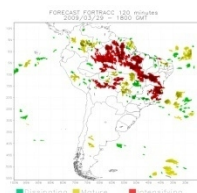
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2009/2010 Plans



CONAE – SAC-C

- User Engagement and Expansion
 - GNC Americas Coordination Group Outreach
 - Regional leadership – expert cadres at CATHALAC (Panama), INPE (Brazil), IMN (Costa Rica), CONAE (Argentina)



INPE – FORTRACC
Convective Storms

- Pilot Projects: Leveraging Existing Regional Partnerships
 - Costa Rica Flash Flood Alert – VCP Program in coop w/ NWS
 - STAR CREST Partnerships- Bowie State, University of Puerto Rico
 - CAFTA-DR Training Workshops



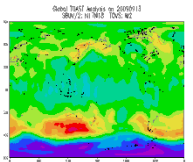
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Summary



- Regional operational capability over the Americas.
- We welcome partnerships with partners, data providers and especially end users to provide a service for global environmental information users and decision makers



U.S. NOAA
Satellite
Service
Ozone Product

- GEONETCast America: <http://geonetcastamericas.noaa.gov>
- GEO's GEONETCast Web Page
<http://www.earthobservations.org/geonetcast.shtml>



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