



# DCS Data on GEONETCast Americas (GNC-A)

**Version 080122**

National Environmental Satellite,  
Data, and Information Service

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Prepared by: Seth Clevestine  
Operations Branch Chief



# Training Outline

- DCS Data on GEONETCast Americas
  - GOES DCS System w/ GNC-A
  - Latency Test Results
- Overview of GEONETCast Americas
  - NESDIS Satellite Rebroadcasts
  - Broadcast Community
  - Broadcast Characteristics
  - GNC-A User Receive Systems
  - Ground Architecture
  - GNC-A Product Groups
  - SHOWCast Visualization Software

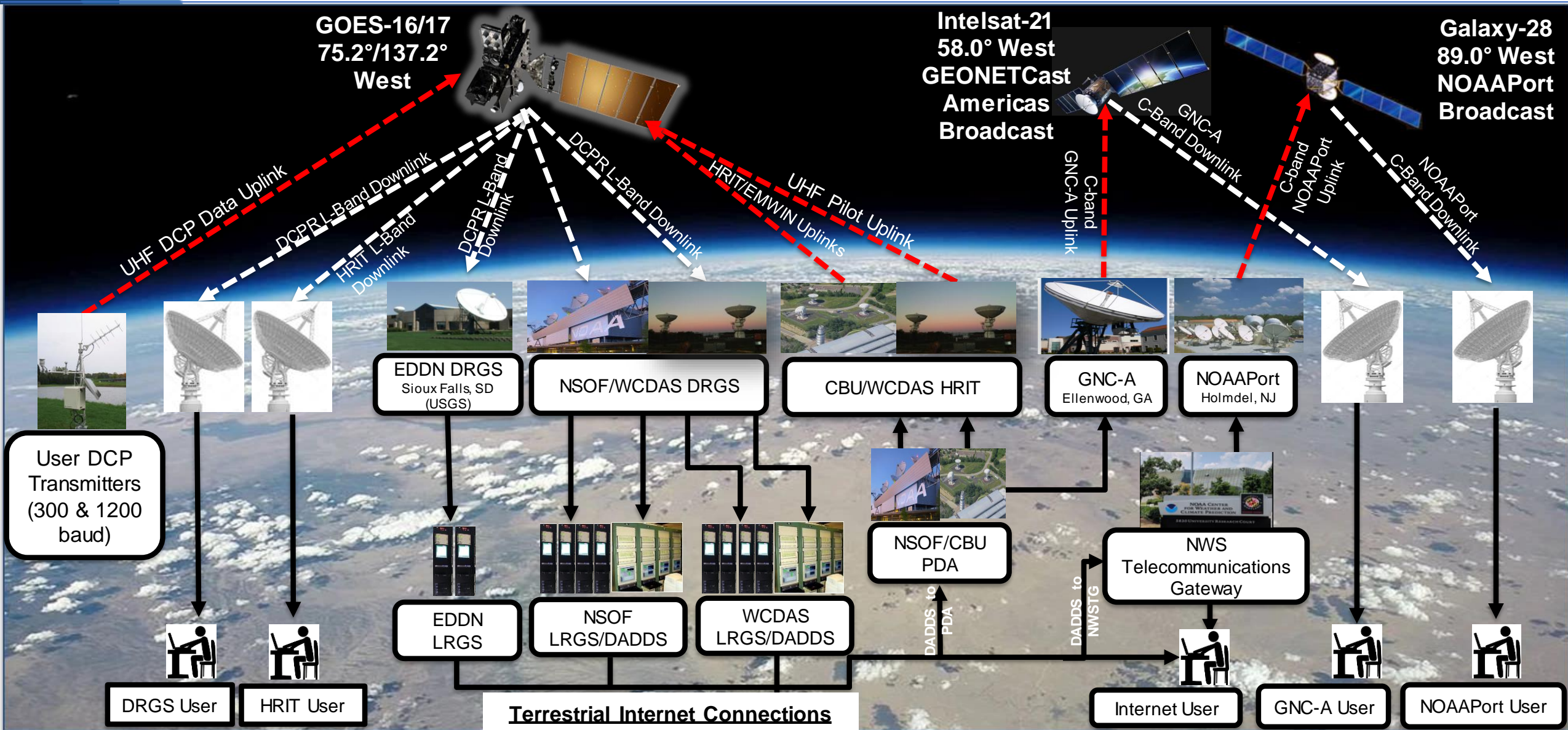


# GOES DCS to GNC-A

- NESDIS started to disseminate DCS data over GNC-A
  - Started on June 1<sup>st</sup>, 2022
  - This is a secondary DCS source of data for users, primary DCS recommendations are still DRGS and HRIT/EMWIN for high reliable data retrieval
  - Data will be available on the “GOES-R-DCS” labeled channel and given a high priority of broadcast distribution
  - 8KB sized .dcs files, same frequency of distribution and format provided to PDA
    - Format is unchanged over the broadcast
      - HRIT format specifications can be found on any one the DCS servers under the “System Information” hyperlink.

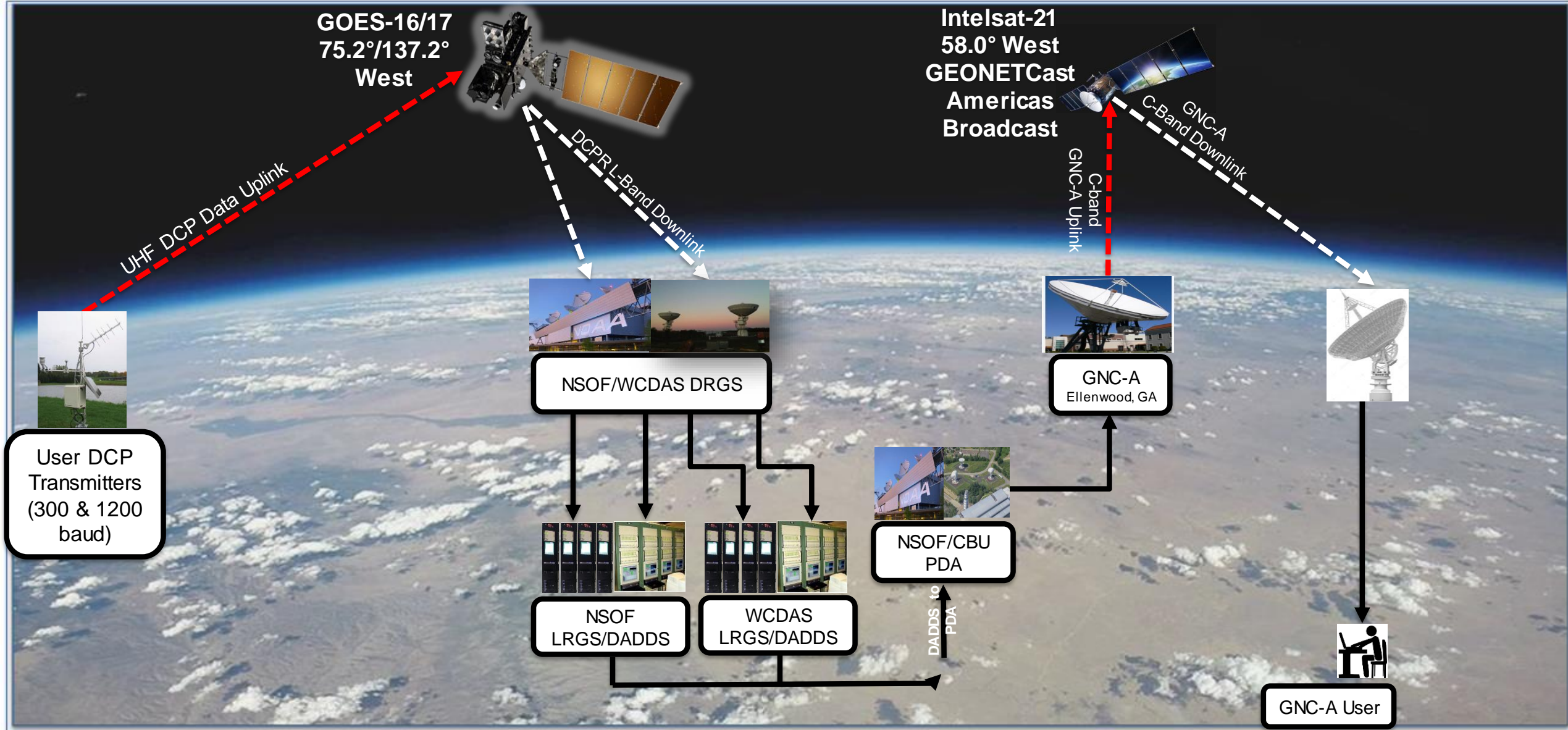


# GOES Data Collection System

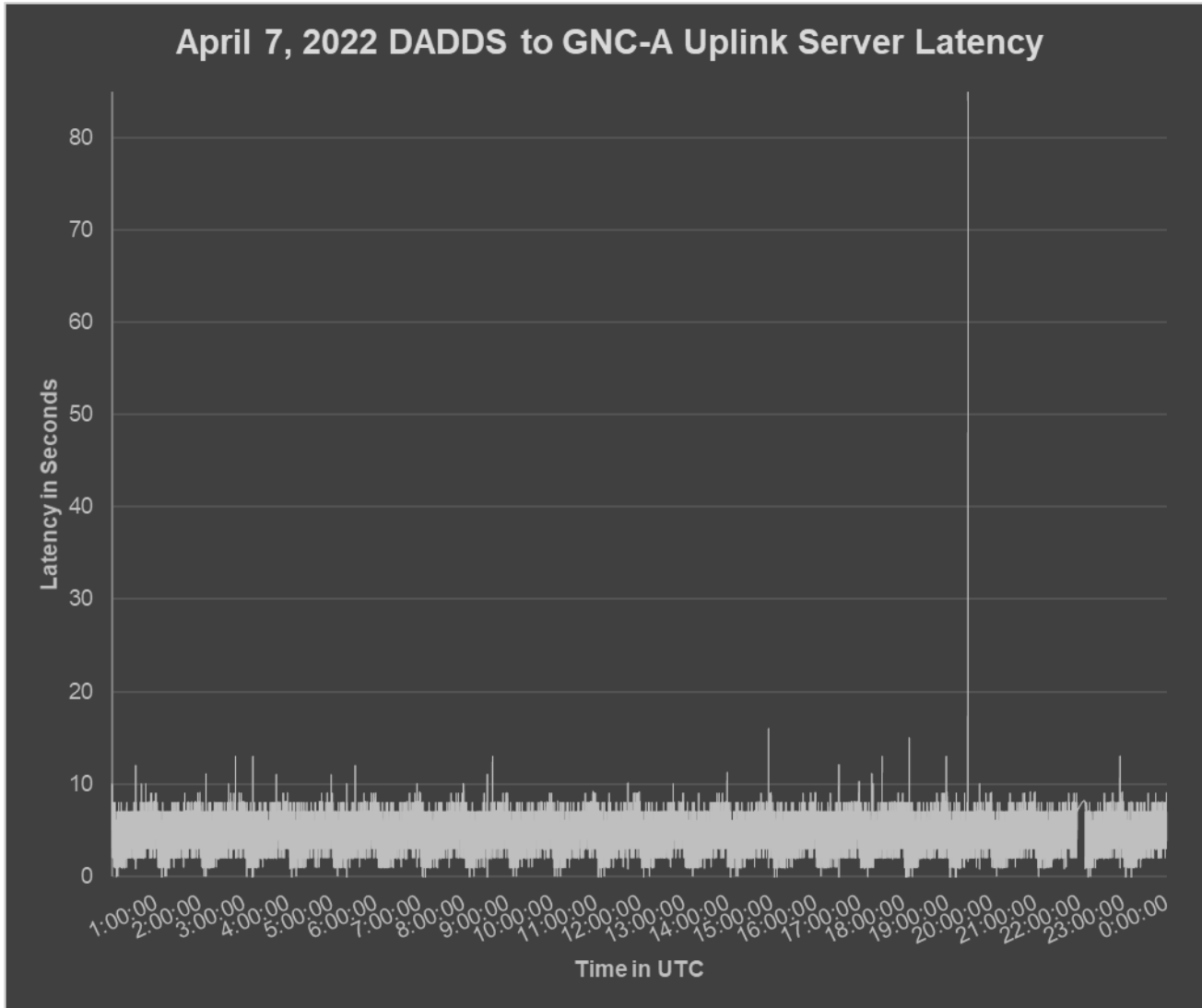




# GOES DCS to GNC-A Datapath



# DCS on GNC-A Latency 24-Hour Test



## GNC-A Data Latency on 4/7/2022

Average DADDS to GNC-A Uplink Server	4.457113
Average GNC-A Uplink Server to User	1.702794
Average DADDS to GNC-A User	6.159907
Maximum DADDS to GNC-A User	85
Files Received over 24-Hours	19517

## HRIT/EMWIN Data Latency on 4/7/22

Average DADDS to HRIT Queue	4.422864
Average HRIT Queue to HRIT User	4.529072
Average DADDS to HRIT User	8.951736
Max DADDS to HRIT User	90.033
Files Received over 24-Hours	19517

- There was a 24-hour test ran on April 7<sup>th</sup>, 2022 where latency statistics were gathered for both broadcasts. GNC-A's broadcast made DCS data a higher priority, but not less than ISCS Warnings and GOES GLM data.
- No issues observed during transmission, only select sites received the DCS data.
- Note - data collection platform transmission and DADDS file data aggregation times not included in analysis



# NESDIS Satellite Broadcast Data Access Overview

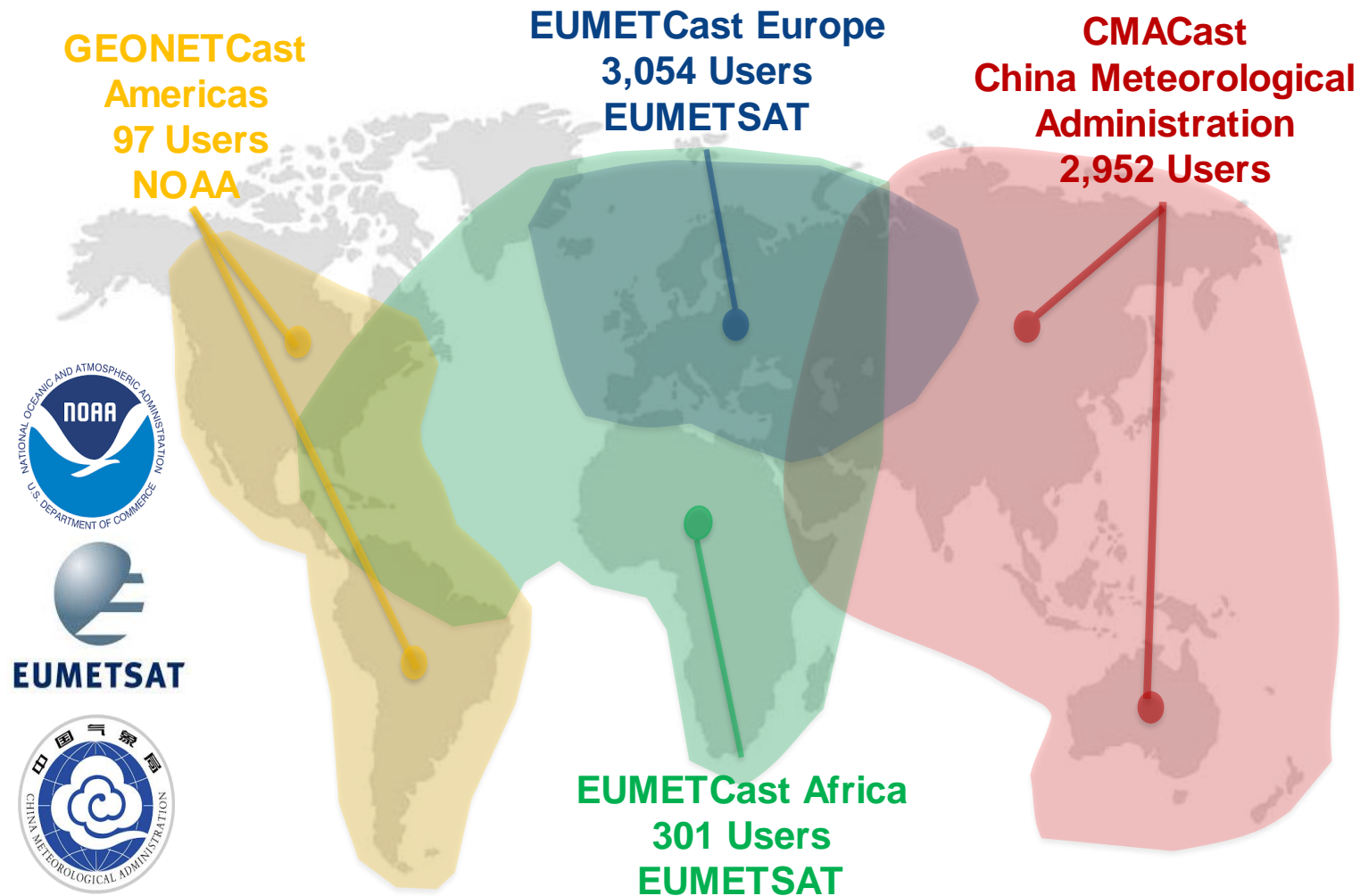
Acronym	System Name	Description	Satellite & Location
GRB	GOES Rebroadcast	The primary relay of full resolution, calibrated, near-real-time broadcast of GOES-R for Level 1b data products (Advanced Baseline Imager L1b, Space Weather L1b, and Geostationary Lightning Mapper L2). This data is available to all users with GRB receivers in view of a GOES-R series satellite at the East or West operational footprints.	GOES-16 @ 75.2° W GOES-17 @ 137.2°W
HRIT/ EMWIN	High Rate Information Transmission/ Emergency Managers Weather Information Network	The HRIT/EMWIN service is a high data rate (400 Kbps) broadcast for GOES-R satellite imagery and selected products to remotely-located user terminals. Combines LRIT and the EMWIN direct broadcast service that provides users with weather forecasts, warnings, graphics and other information directly from the NWS in near real-time. Also included is a copy of GOES-DCS.	GOES-16 @ 75.2° W GOES-17 @ 137.2°W
DCS	Data Collection System	Remote data collection platforms (DCP) within the footprint of the NOAA geostationary East and West satellites that collect vast array of environmental observational data (river, tidal, seismic, meteorological, etc..) are transmitted to the GOES satellites and broadcasted down to users for processing, visualization and decision making.	GOES-16 @ 75.2° W GOES-17 @ 137.2°W
GNC-A	GEONETCast Americas	GEONETCast Americas is the Western Hemisphere component of GEONETCast, a near real time, global network of satellite-based data dissemination systems designed to distribute space-based, air-borne and in situ data, metadata and products to diverse communities. This is a NOAA funded, NESDIS managed commercial rebroadcast service.	Intelsat-21 @ 58°W
JPSS HRD	High Rate Data	The HRD direct broadcast is a continuous real-time downlink of JPSS mission environmental data to users on the ground that are equipped with the ground resources necessary to capture the broadcast when the polar orbiting satellite is within view. HRD data content is a full set of science and calibration data from the mission instruments, as well as the spacecraft attitude and ephemeris data necessary for data product generation.	S-NPP and NOAA-20 polar orbiting satellites





# GEONETCast Global Network

- GEONETCast is a global network of sustained and cost-effective satellite-based dissemination systems based on collaboration between China (CMA), EUMETSAT and the US (NOAA), but open to all other. It delivers Earth observation (EO) data and products to and from GEO community activities, initiatives and flagships on a routine basis.
- GEONETCast Americas (GNC-A) is the Western Hemisphere component of GEONETCast. Which is a near real time, global network of satellite-based data dissemination system designed to distribute space-based, air-borne and in situ data, metadata and products to diverse communities. Contribution of data is via various data providers both internal and external to NOAA.
- GNC-A is a NOAA funded commercial rebroadcast via geostationary satellite Intelsat-21 located @ 58° West





# GNC-A Community Map



(7) GNC-A stations planned to be installed in 2022:

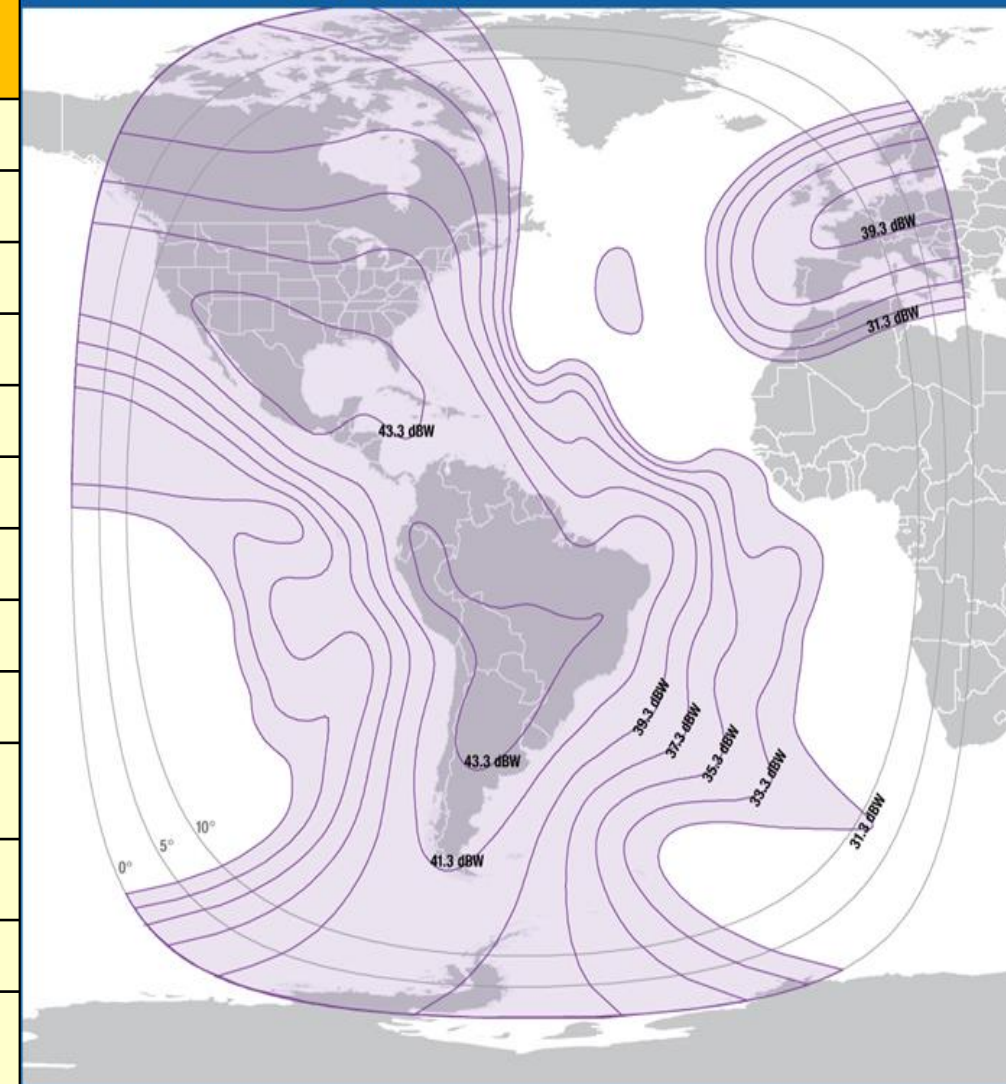
- Antigua & Barbuda
- Barbados
- Dominica
- Grenada
- St. Kitts & Nevis (installed)**
- Saint Vincent and The Grenadines
- University of La Punta – Argentina
- Martinique (MeteoFrance)
- Canada (CMC)
- Puerto Rico, (UPRM) installed**



# GNC-A Broadcast Characteristics

GEONETCast Americas Broadcast Parameter	Parameter Value
Satellite	IS-21 (Intelsat)
Location	58 ° West or 302° East
PID	4201
Transponder	19C (DVB-S2)
Radio Frequency Band	C-band
Frequency	4080 MHz
Frequency Range	3700 – 4200 MHz
Symbol Rate:	30.00 Msym
Polarization	Linear – Vertical
Effective Isotropic Radiated Power Coverage	> 31.3 dBW
Datacasting Client Software (Required)	Kencast FAZZT Professional Client
Forward Error Correction – Kencast FAZZT	5/6
Peak G/T (antenna gain-to-noise-temperature)	Up to 2.5 dB/K

C-band West Hemi Beam Peak up to 44.3 dBW



# GNC-A Architecture

## GNC-A Data Providers



Logos of GNC-A Data Providers:

- UCAR
- INPE
- NOAA
- CONAE
- MARN (Ministerio de Medio Ambiente y Recursos Naturales)
- UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
- EUMETSAT
- CIMSS
- CIRA
- imn (Instituto Meteorológico Nacional de Costa Rica)



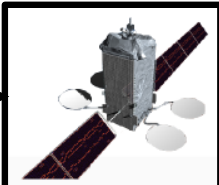
Data Management System Server & Datacast Software

IP Encapsulator MPEG-2 Encoder

DVB-S2 Modulator

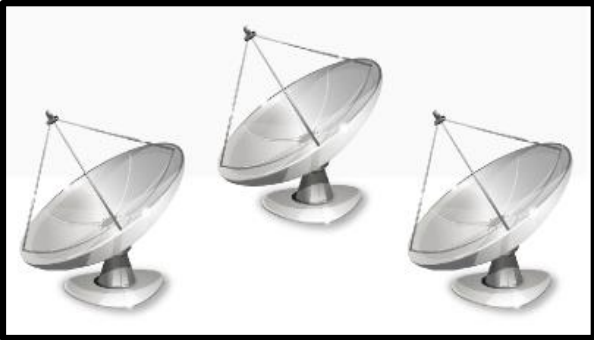


IS-21 Teleport (Ellenwood, GA)



Geostationary Satellite IntelSat-21 @ 58° W 19C Transponder

4080 MHz Downlink

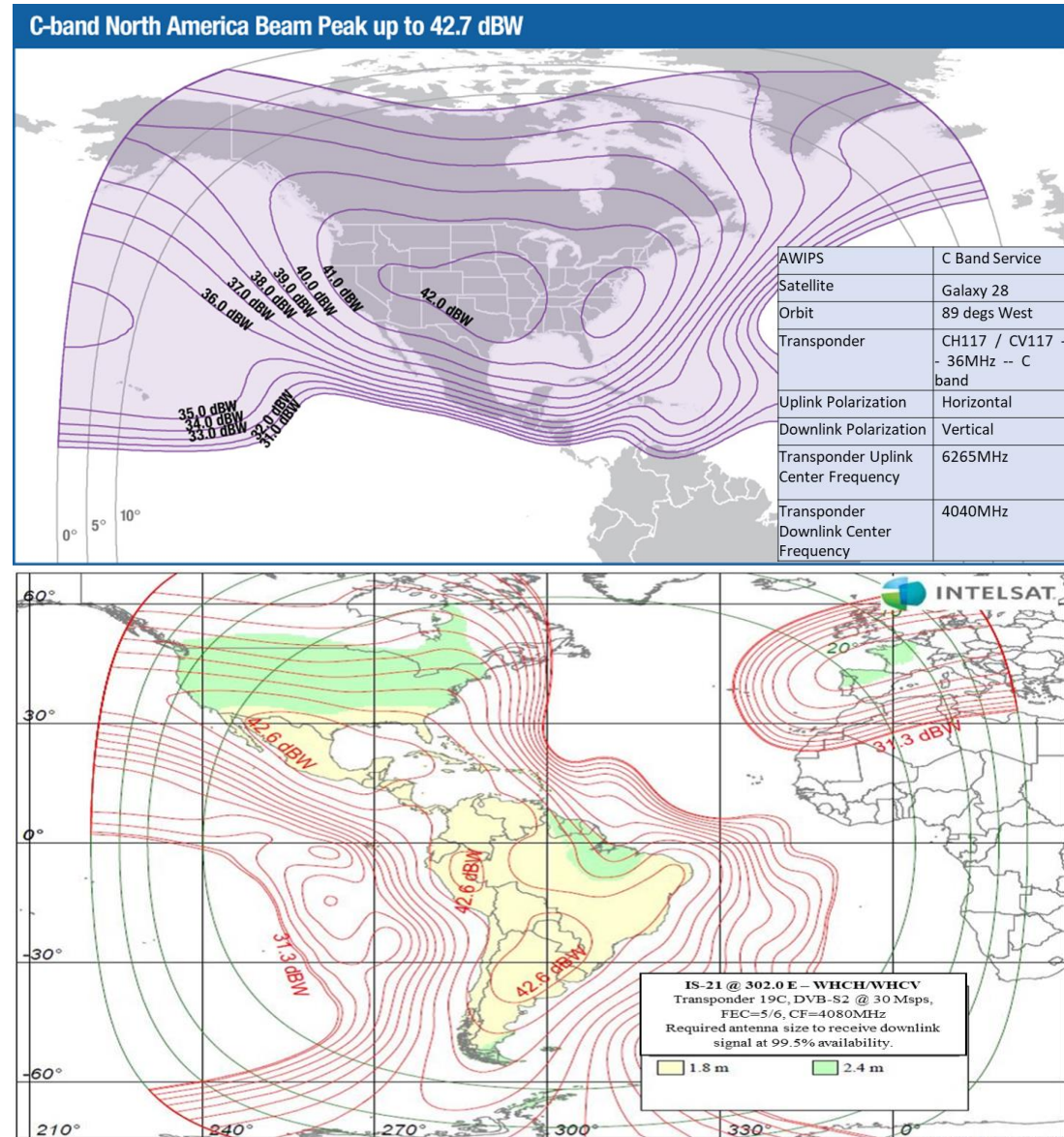


User Receive Terminals



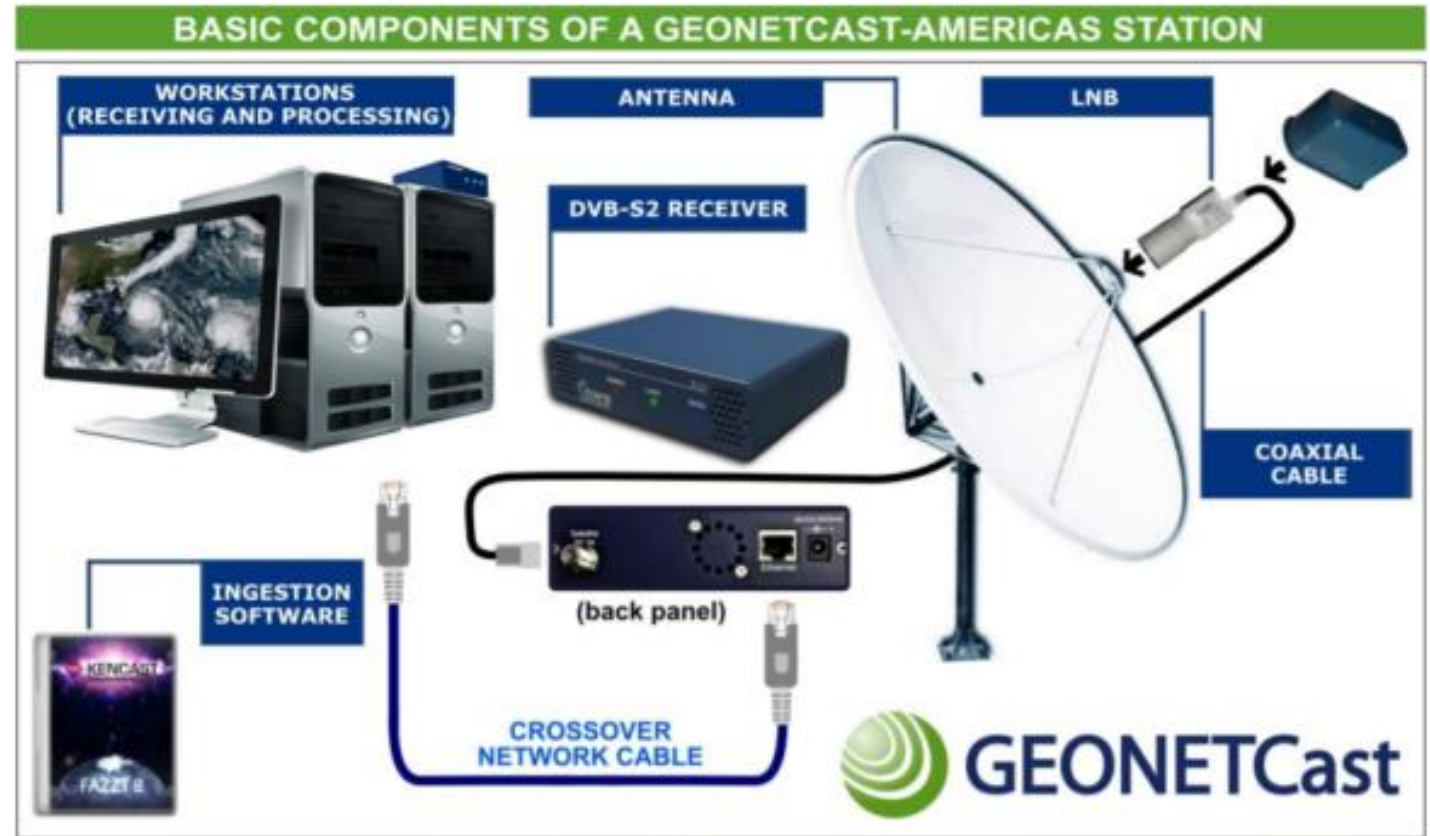
# Why DCS on GEONETCast?

- Available bandwidth for DCS data distribution
- It's broadcast bandwidth is scalable, allowing for more products if needed
- GNC-A's area coverage is much larger than NOAAPort's N. American C-band beam coverage. This gives users outside of NOAAPort the ability to capture DCS data
- A portion of the GNC-A community is also DCS data users
- C-band receive hardware more readily available and less expensive than L-band.
- Both CMACast and EUMETCast contain DCS data from their regions



# What's Needed to Obtain GEONETCast

- Users will need the following hardware to obtain GNC-A:
- Antenna – 1.8 – 2.4m,
- Low Noise Block (LNB)
- DVB-S2 compatible receiver
- Kencast FAZZT software
- CPU workstation for receiving and processing the data



For more details, please visit the GNC-A blog at the following URL:  
<https://geonetcast.wordpress.com/where-to-buy-gnc-a-equipment/>

# Kencast FAZZT Software

- GNC-A's satellite uplink uses Kencast datacasting client requiring all users to purchase Kencast FAZZT software in order to receive/ingest GNC-A's data content
- One time fee for license (~\$600)
- Data formats are unchanged over the broadcast
- Data is separated via channels where users can “subscribe or unsubscribe” from the various channels
- Provides NOAA the ability to provide products to select Kencast ID's users

<input type="checkbox"/>	<input type="checkbox"/>	Channel ▲	Type	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">100. GOES-R-CMI-Imagery/Band13</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">315. Main</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">316. NOAA-NESDIS</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">317. IMN-CostaRica</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">318. KnightSky</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">319. ISCS-GRIB1</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">320. NOAA-NESDIS-GEOTIFFS/IMAGERY</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">335. EUMETSAT</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">346. ISCS-FCAST</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">347. ISCS-ADMIN</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">348. ISCS-SAT</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">349. JPSS/EVENTS</a>	IP Receive (Multicast)	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Reload</a> <a href="#">Disable</a>





# GNC-A GOES-R Level II Products

GOES-16 ABI Cloud Moisture Imagery  
Full Disk Scan Start Time Availabilities

Band 1	:00	:10	X	:30	:40	X
Band 2	:00	:10	:20	:30	:40	:50
Band 3	:00	:10	X	:30	:40	X
Band 4	:00	:10	X	:30	:40	X
Band 5	:00	:10	X	:30	:40	X
Band 6	:00	:10	X	:30	:40	X
Band 7	:00	:10	:20	:30	:40	:50
Band 8	:00	:10	:20	:30	:40	:50
Band 9	:00	:10	:20	:30	:40	:50
Band 10	:00	:10	:20	:30	:40	:50
Band 11	:00	:10	X	:30	:40	X
Band 12	:00	:10	X	:30	:40	X
Band 13	:00	:10	:20	:30	:40	:50
Band 14	:00	:10	:20	:30	:40	:50
Band 15	:00	:10	:20	:30	:40	:50
Band 16	:00	:10	X	:30	:40	X

GOES-16 ABI Level II Derived Imagery Full Disk Data Time  
Availabilities

Aerosol Detection	:00	:10	X	:30	:40	X
Aerosol Optical Depth	:00	:10	X	:30	:40	X
Clear Sky Masks	:00	:10	X	:30	:40	X
Cloud Optical Depth	:00	:10	X	:30	:40	X
Cloud Particle Size	:00	:10	X	:30	:40	X
Cloud Top Height	:00	:10	X	:30	:40	X
Cloud Top Pressure	:00	:10	X	:30	:40	X
Cloud Top Temperature	:00	:10	X	:30	:40	X
Derived Winds	:00					
Derived Stability Indices	:00	:10	X	:30	:40	X
Downward Shortwave Radiation	:00					
Geostationary Lightning Mapper	Continuous ~20 seconds					
Fire/Hotspot Detection	:00	:10	:20	:30	:40	:50
Land Surface Temperature	:00					
Reflective Shortwave Radiation	:00					
Rainfall Rate/QPE	:00	:10	:20	:30	:40	:50
Sea Surface Temperature	:00					
Snow Cover	:00	:10	X	:30	:40	X
Total Precipitable Water	:00	:10	:20	:30	:40	:50

## Legend

X	Product Unavailable
:00	Product Available
	Hourly Product

GOES-17 ABI Cloud Moisture Imagery  
Full Disk Scan Start Time Availabilities

Band 2	X	X	X	X	X	:50
Band 9	X	X	X	X	X	:50
Band 13	X	X	X	X	X	:50

- GOES West bands 2, 9 and 13 and the equivalent MSG-4 bands are available once an hour for satellite mosaics and GOES-16 ABI imagery contingencies



GOES West Footprint



GOES East Footprint

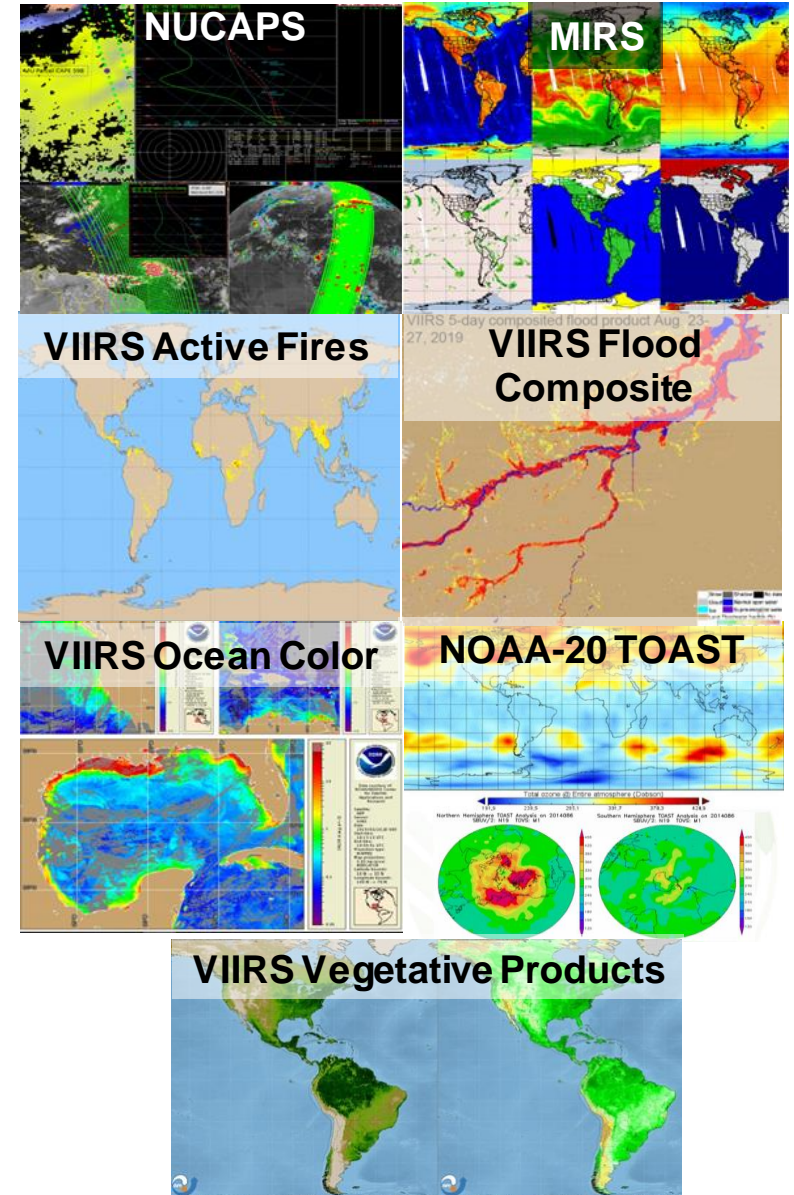
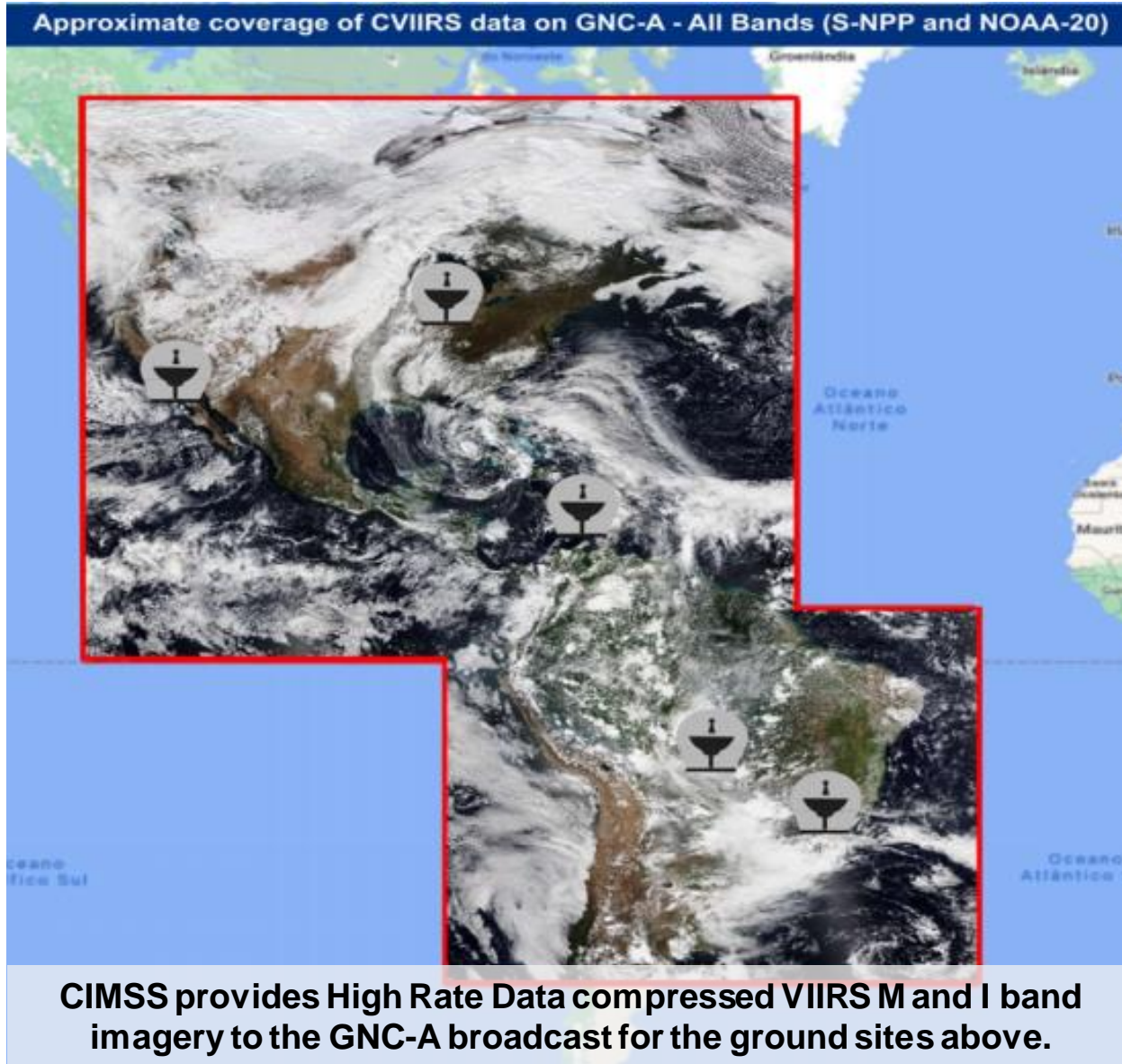
- GNC-A carries a large majority of GOES East imagery due to the fact of GOES West's footprint does not cover a majority of South America and Caribbean.



For more product detail please visit: <https://geonetcast.wordpress.com/gnc-a-product-catalog/>

# GNC-A JPSS Products

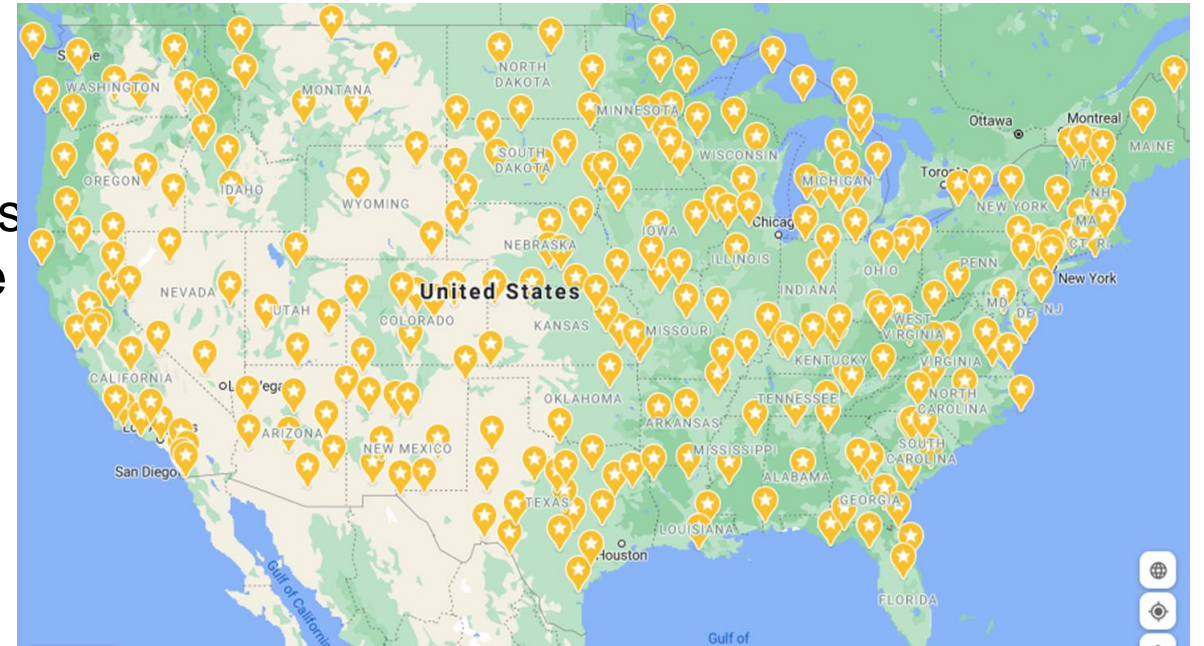
S-NPP & NOAA-20 HRD VIIRS M and I Bands	
I - 1 Band	✓
I - 2 Band	✓
I - 3 Band	X
I - 4 Band	X
I - 5 Band	✓
M - 1 Band	✓
M - 2 Band	X
M - 3 Band	✓
M - 4 Band	✓
M - 5 Band	✓
M - 6 Band	X
M - 7 Band	✓
M - 8 Band	X
M - 9 Band	✓
M - 10 Band	✓
M - 11 Band	X
M - 12 Band	✓
M - 13 Band	X
M - 14 Band	✓
M - 15 Band	✓
M - 16 Band	X





# National Weather Service ISCS Data

- **ISCS Surface** – METARS and other surface observations
- **ISCS Forecast** – Forecast summaries/TAF's
- **ISCS Warning** – Watches/Warnings/Advisories
- **ISCS Climate** – Weather summaries & climate
- **ISCS BUFR** – BUFR atmospheric/oceanic products
- **ISCS RADAR** – Radar PNG/GIF products
- **ISCS Upper Air** – Upper Air products
- **ISCS GRIB** – GRIB GFS forecast products
- **ISCS SAT** – Multiple graphic format products
- **ISCS PIC** - Multiple graphic format products



Example of surface METAR's captured and their location on GNC-A broadcast

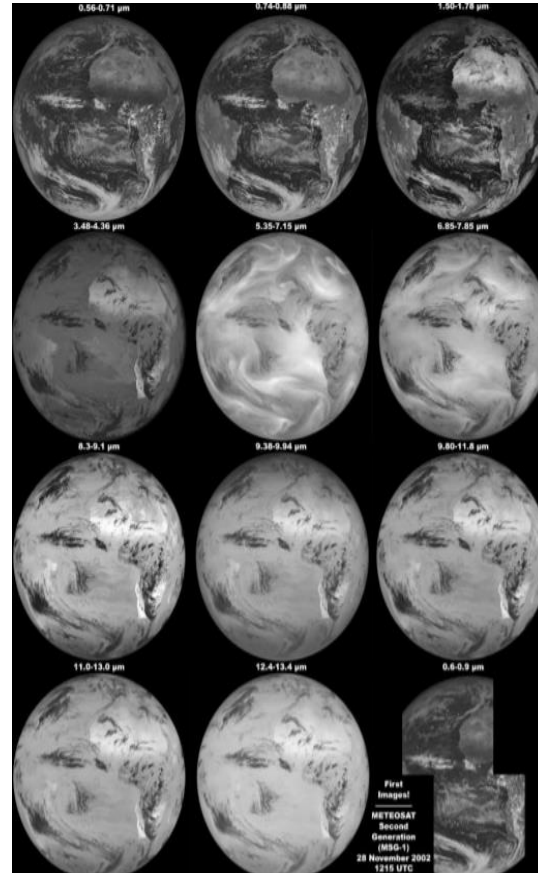
For more product detail please visit: <https://www.weather.gov/iscs/baseline>





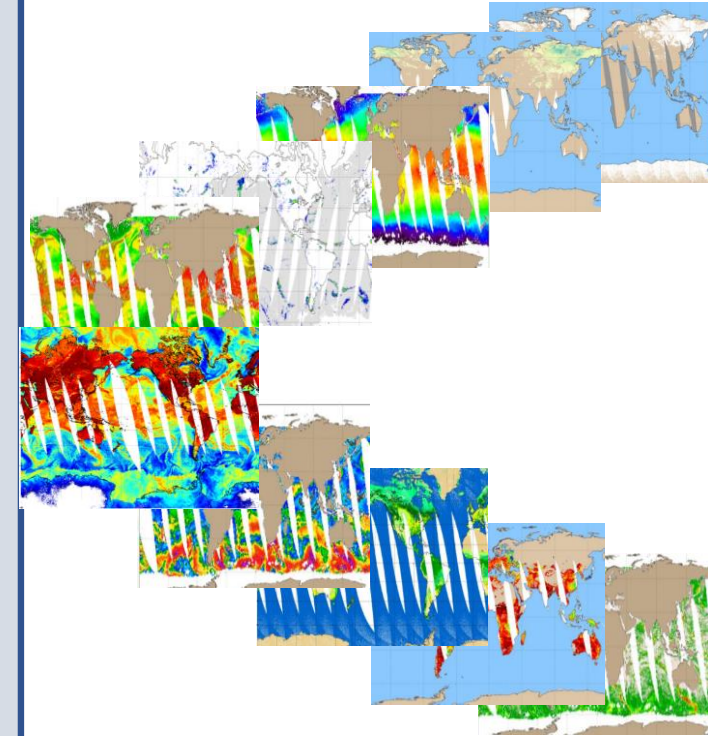
# EUMETSAT & JAXA Products

- Active Fire Monitoring
- Atmospheric Motion Vectors
- Cloud Mask
- Cloud Top Height
- Global Instability Index
- Accumulated Precipitation
- METOP/NOAA-19 ATOVS Sounder Products
- ASCAT Coastal Winds 12.5km
- ASCAT Coastal Winds 25km
- Medium/Low Resolution METOP Sea Ice Drift
- Medium/Low Resolution METOP Sea Ice Concentration
- Global Sea Ice Emissivity
- METOP SST IASI
- METEOSAT 0° SST



3-Hourly Seviri Data from MSG4

- AMSR2 Brightness Temps
- Precipitation (Rain Rate, Convective and Probability)
- Soil Moisture
- Land Cover Type
- Snow Cover, Depth, Water Equivalent
- Ocean Products (SST, Ocean Wind speed, Ocean TPW and Ocean Cloud Liquid Water)
- Artic Sea Ice Concentration

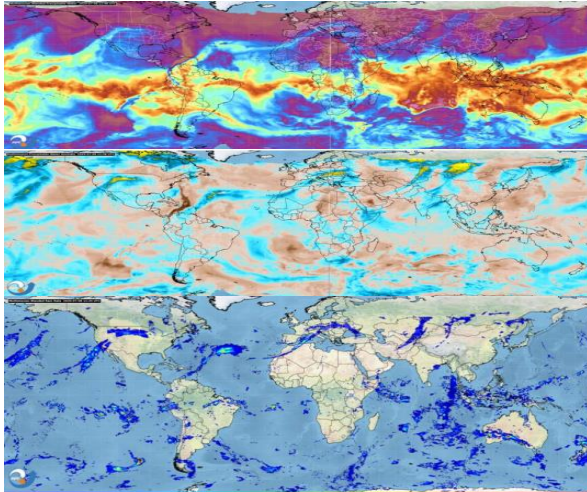


GCOM-W1 Orbital Data

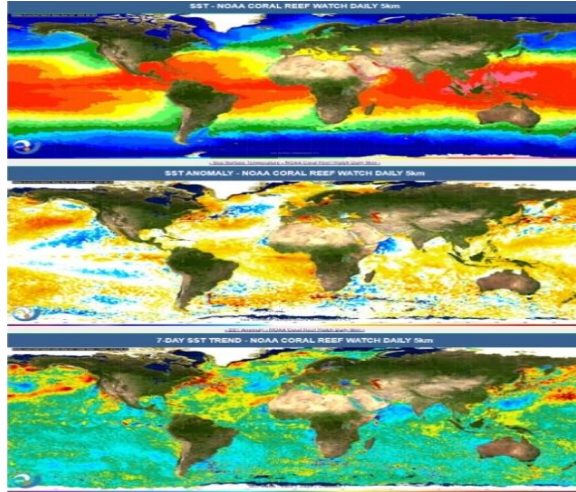


# Multiple Satellite Blended GNC-A Products

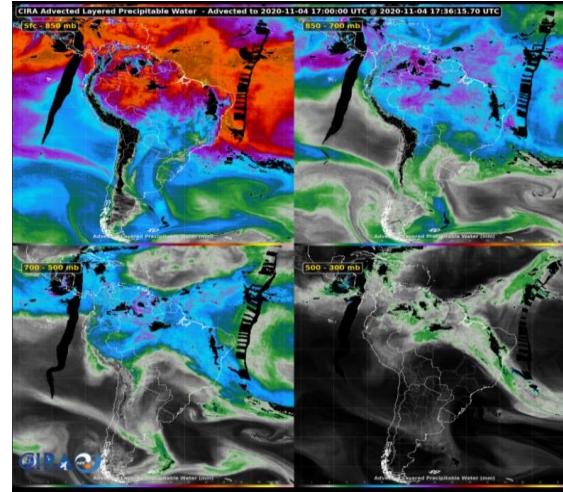
Blended TPW, TPW Anomaly and Rain Rate



Blended SST, 7-Day SST Average and SST Anomaly



CIRA Advected Layered Precipitable Water



Monitoring of Vegetative Fires



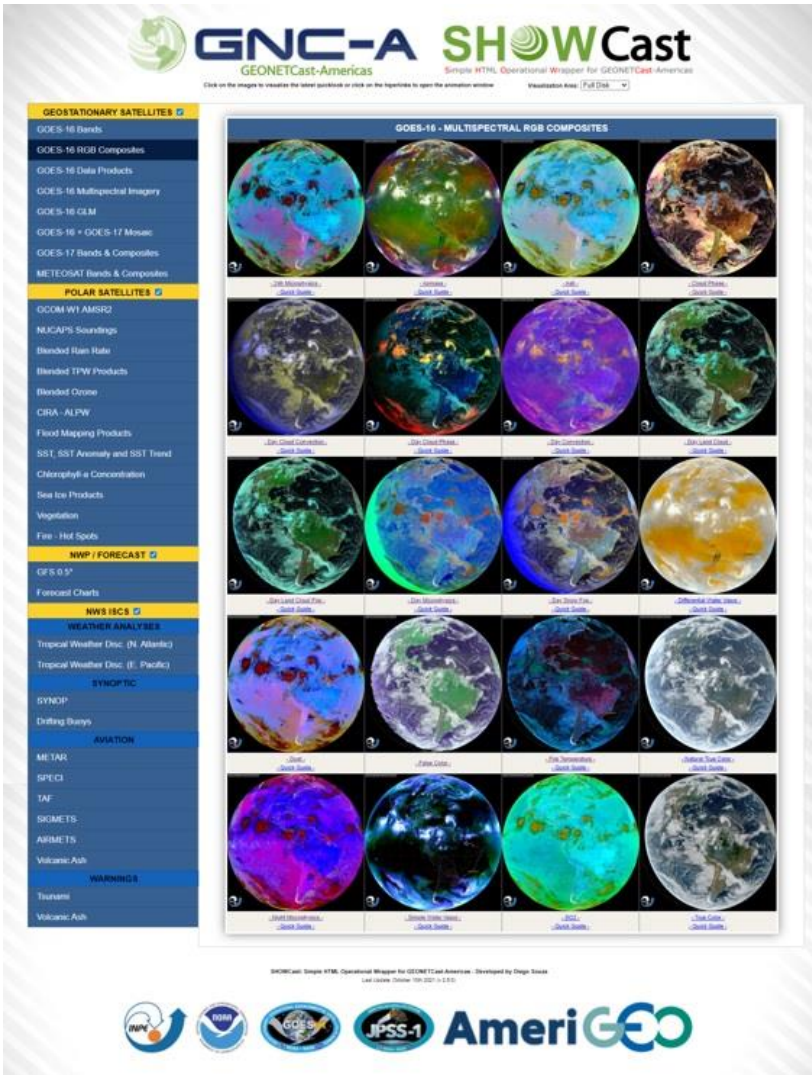
For more product detail please visit: <https://geonetcast.wordpress.com/gnc-a-product-catalog/>





# Open Source Visualization Software

- SHOWCast stands for Simple HTML Operational Wrapper for GEONETCast Americas.
  - First introduced by INPE in 2019 as an open-source GNC-A data visualization tool
- Current version is 2.5.1
  - Capable of displaying 150+ different products
  - Users can supplement terrestrial data sources in lieu of satellite data as an alternative
- INPE introduced a new installation manual in 2021 that provides guidance to users on installation of SHOWCast software
- Users can visit the INPE GNC-A blog at the following URL: <https://geonetcast.wordpress.com/>
- \*Note\* - DCS data visualization is not available via SHOWCast.





# GNC-A User Group

- Four user group webinars occur quarterly similar to HRIT, GRB and HRD user group meetings
- Items that are covered are:
  - NESDIS satellite updates
  - GNC-A Programmatic updates
  - GNC-A Product updates
  - SHOWCast version updates/training
  - Future training events
  - Specific GNC-A product application training
  - User case studies

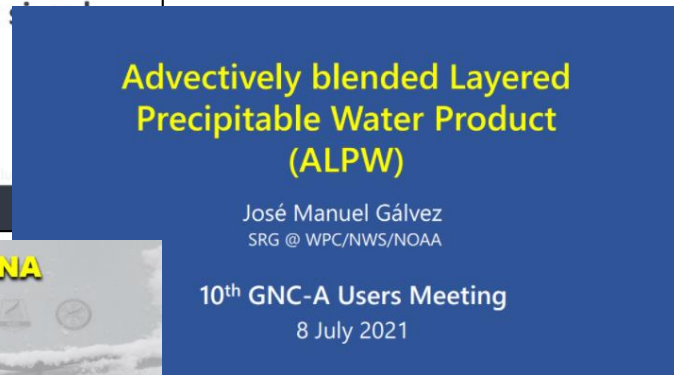


**GNC-A Seminar: VIIRS Ocean Color Near-Real Time Products**

Dr. Sheekela Baker-Yeboah,  
NOAA/NESDIS/OSPO

February 10, 2022

NOAA  
Office of Satellite Products and Operations  
Satellite Products and Services Division



**Advectionally blended Layered Precipitable Water Product (ALPW)**

José Manuel Gálvez  
SRG @ WPC/NWS/NOAA

10<sup>th</sup> GNC-A Users Meeting  
8 July 2021



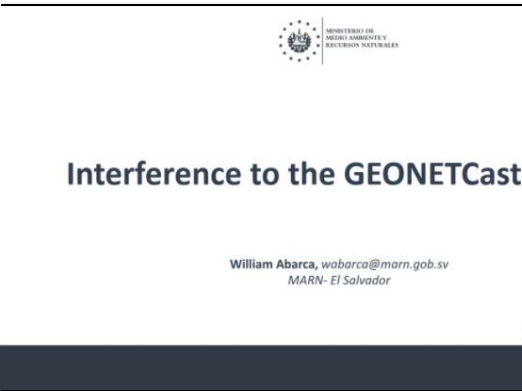
**GNC-A User Group Webinar #12**

10 February 2022

Seth Clevenstine / Diego Souza

Send ALL questions on the WebEx Chat  
Please mute WebEx microphones during presentation  
All questions will be answered at the end of the presentation

NOAA  
GEONETCast



Interference to the GEONETCast

William Abarca, wabarca@marn.gob.sv  
MARN- El Salvador



**FUERZA AÉREA ARGENTINA  
V BRIGADA AÉREA**

GEONETCAST STATION N° 92 -  
08 JUL 21  
My. Ricardo C. Valentí



# Points of Contact

<https://noaasis.noaa.gov/ORGANIZATION/contacts.html>

## Office of Satellite and Product Operations

- 24/7 Help Desk: [ESPCOperations@noaa.gov](mailto:ESPCOperations@noaa.gov)  
Data Access: [NESDIS.Data.Access@noaa.gov](mailto:NESDIS.Data.Access@noaa.gov)  
Website: <https://www.ospo.noaa.gov/Organization/About/access.html>

## Satellite Products and Services Division (SPSD) User Services

- SPSP Services: [SPSD.UserServices@noaa.gov](mailto:SPSD.UserServices@noaa.gov)

## SPSD Direct Services Branch (DSB)

Branch Chief: Mark Turner

- Email: [Mark.W.Turner@noaa.gov](mailto:Mark.W.Turner@noaa.gov)

**Direct Readout** (GVAR, GRB, APT, HRPT, and HRD):  
Vacant

- Email: [Mark.W.Turner@noaa.gov](mailto:Mark.W.Turner@noaa.gov)

**GEONETCast Americas (GNC):** Vacant

- Email: [Mark.W.Turner@noaa.gov](mailto:Mark.W.Turner@noaa.gov) or  
[gnc.americas@noaa.gov](mailto:gnc.americas@noaa.gov)

**HRIT/EMWIN Broadcast:** Ian Avruch

- Email: [Ian.Avruch@noaa.gov](mailto:Ian.Avruch@noaa.gov) (HRIT) or  
[Bob.Gillespie@noaa.gov](mailto:Bob.Gillespie@noaa.gov) (EMWIN)

**Argos Data Collection System:** Scott Rogerson

- Email: [Scott.Rogerson@noaa.gov](mailto:Scott.Rogerson@noaa.gov)

**GOES Data Collection System:** William Dronen

- Email: [William.Dronen@noaa.gov](mailto:William.Dronen@noaa.gov) or [dcs@noaa.gov](mailto:dcs@noaa.gov)

