GOES DCS Update

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NOAA Satellite and Information Service
National Environmental Satellite, Data, and Information Service (NESDIS)

What is GOES DCS?

- Data Relay System for Government Environmental Use
- Near-Real time data transmissions
- Used for monitoring environmental events
  - Tsunamis
  - Floods
  - Fires
  - Synoptic Observations
- 28,000+ stations reporting in footprint of GOES
- Used by government agencies in U.S., Central America, South America, Canada, Pacific and Caribbean
- Data Communications for most emergency warning systems in the Western Hemisphere (footprint of GOES)

Requirements

- Can transmit any environmental parameter that can be measured
- Must be government or government sponsored
- Must apply for a System Use Agreement (SUA) and be approved before transmitting
- Must use Certified Transmitters (determined by NOAA to not interfere with satellite or other users)
- Must conform to NOAA System Use Policies
- Must be a “good neighbor” to all other users

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System Use Agreement

- Application can be submitted from website
  - https://dcs1.noaa.gov
  - https://dcs2.noaa.gov
  - https://dcs3.noaa.gov
  - https://dcs4.noaa.gov
  - Complete online and submit electronically
- Must be renewed regularly
  - 5 years for government agencies
  - 1 year for transmitter manufacturers
- Signatory on System Use Agreement must have authority to correct transmitter or interference problems for the program identified
  - Must be registered in DCS Administration and Data Distribution System (DADDS)
- Can have multiple users under a single System Use Agreement

DADDS

- DCS Administration and Data Distribution System
  - Manages user and platform information
    - Channel and time assignments
    - User contact information
    - User logins
    - System Use Agreements
  - Data monitoring and download
    - New network list capability will make downloads (exports) easier
  - Dissemination to other circuits
    - NWSTG
    - DOMSAT

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DADDS

- Tables have fields that users must update
  - platform location
  - maintenance contact
  - Group Manager (to authorize other users)
- Self-Registering of assigned Contact allows access to tables
- Can be used to download (export) data
- Use of “WMO Header” allows routing on GTS
  - WMO Header SOxx10 specially formulated for Tsunami Users
- Users can verify assignments before equipment is deployed
  - New DCS Field Test easily accessed and bookmarked from a cell phone
  - Currently shows received data for a platform, soon will display assignment information

DADDS Updates

- What's Coming
  - Improved Network List
  - Bulk Download (by Network List or by query)
    - Use of Web Technology means no software client to install
    - Same Technology used for streaming videos (youtube)

- Still Need Tables Populated: PDT, Contact Information, Group Contacts
- Access at:
  - https://dcs1.noaa.gov
  - https://dcs2.noaa.gov
  - https://dcs3.noaa.gov
  - https://dcs4.noaa.gov

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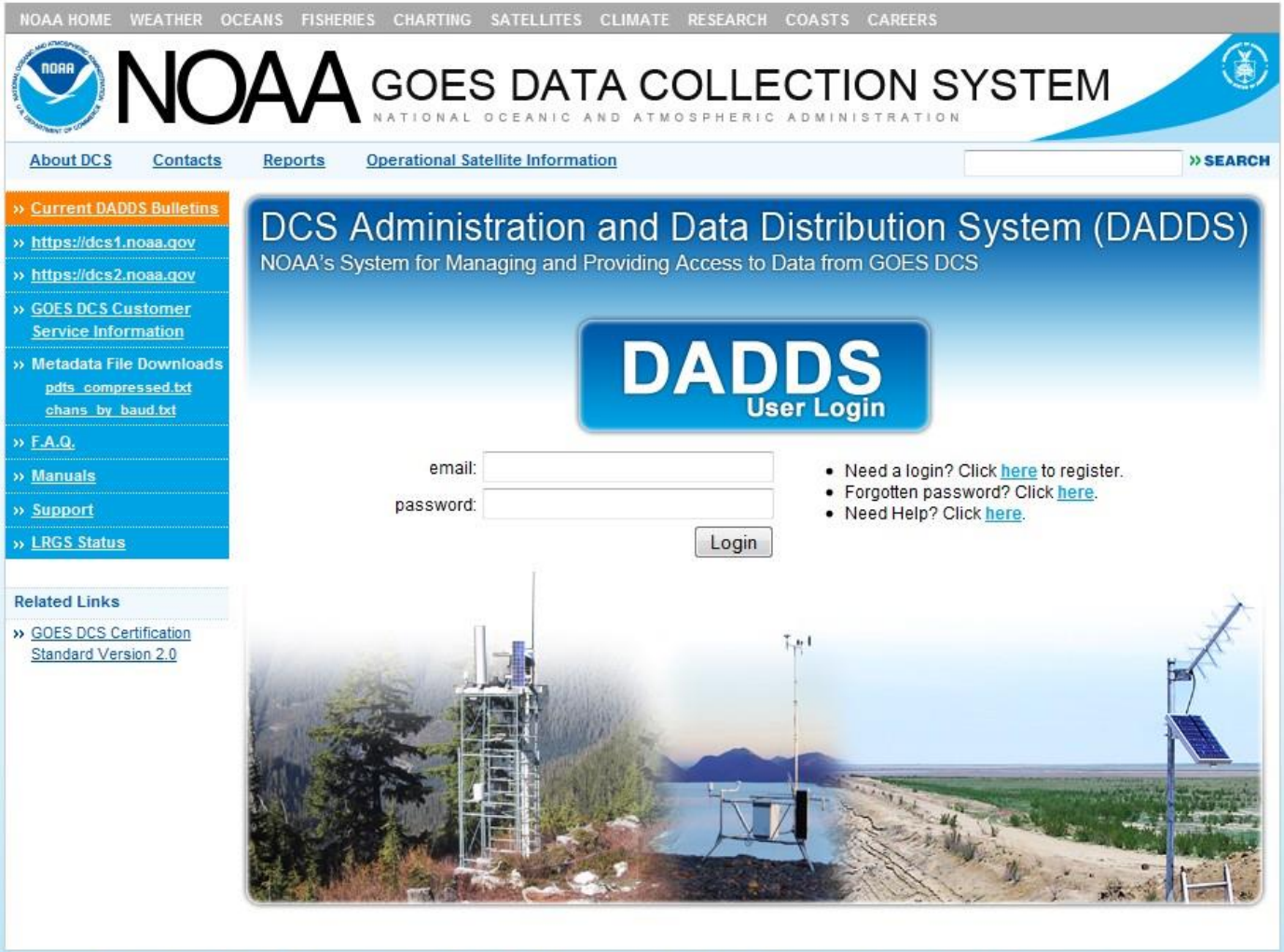
NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS
NOAA GOES DATA COLLECTION SYSTEM
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
About DCS Contacts Reports Operational Satellite Information
SEARCH
Current DADDS Bulletins
https://dcs1.noaa.gov
https://dcs2.noaa.gov
GOES DCS Customer Service Information
Metadata File Downloads
pdts_compressed.txt
chans_by_baud.txt
F.A.Q.
Manuals
Support
LRGS Status
Related Links
GOES DCS Certification Standard Version 2.0
DCS Administration and Data Distribution System (DADDS)
NOAA's System for Managing and Providing Access to Data from GOES DCS
DADDS
User Login
email:
password:
Login
Need a login? Click here to register.
Forgotten password? Click here.
Need Help? Click here.
Privacy Policy | FOIA | Information Quality | Disclaimer | Commerce.gov | USA.gov | Ready.gov | User Comments | Contact Webmaster

DADDS Updates

- What's Coming
  - System Use Agreement Processing and Tracking System (GOES, Argos and DRO)
  - Bulk Download (Network List?)

- Still Need Tables Populated: PDT, Contact Information, Group Contacts
- Access at:
  - https://dcs1.noaa.gov
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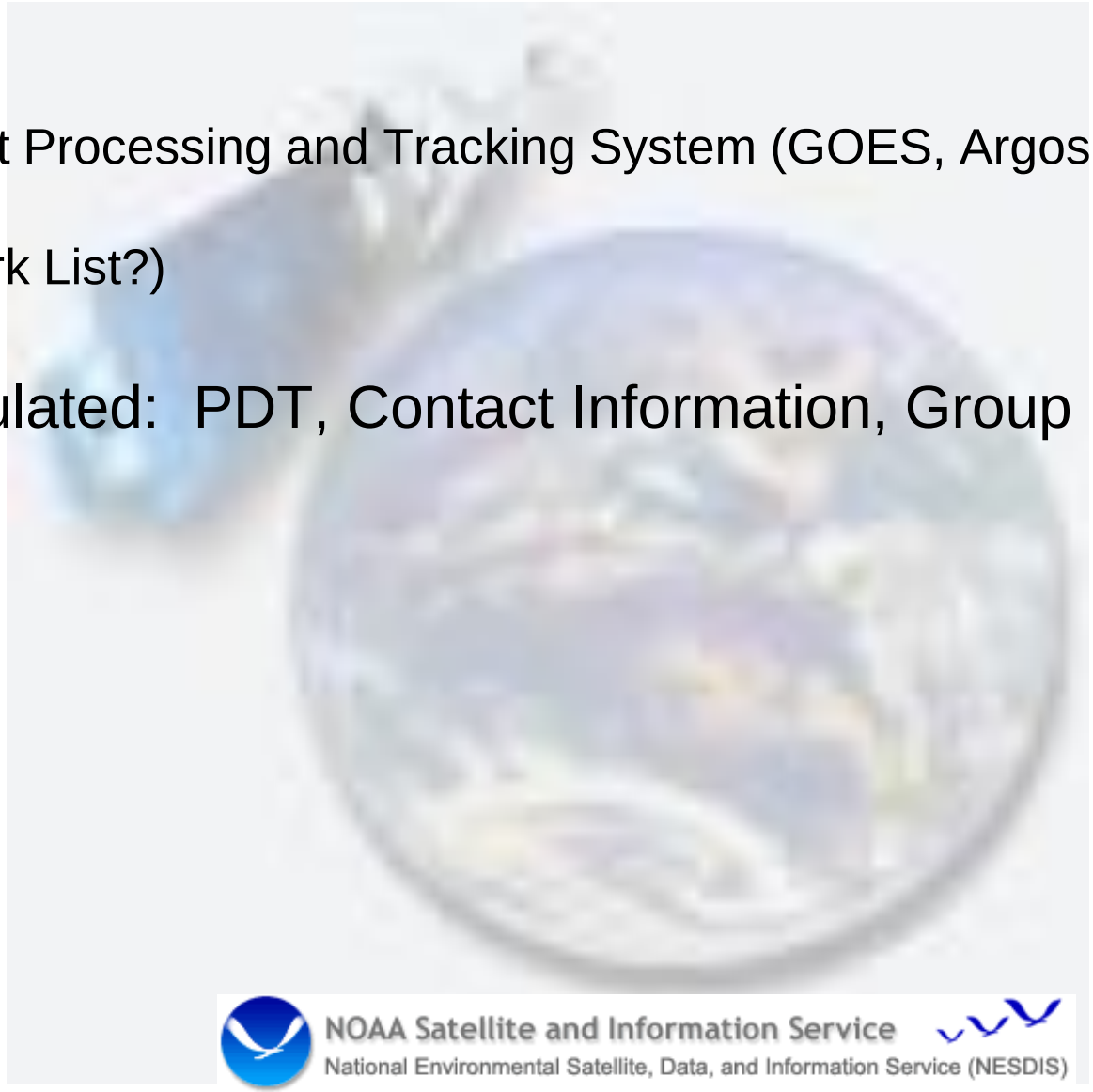
  - https://dcs4.noaa.gov



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TSUNAMI PLATFORMS

- 135 Stations Report Every 5 minutes
- 581 Stations Report Every 6 minutes (NOAA/NOS)
- 55 Stations Report Every 15 minutes
- 6 Channels Used for General Tsunami Use
- 6 Channels Used by NOAA/NOS
- Report Rate Request Submitted to the Tsunami Warning Program Managers (Christa Von Hillebrand and Stuart Weinstein) who will recommend Rate (5 or 15 minutes)
- NOAA will try to accommodate the recommendation
- If Resources are limited NOAA will go back to Christa and Stuart and let them know

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System Changes

- Version II Transmitters (also known as Certification Standard 2 or CS2) required for all new deployments
  - Smaller channels, allow for doubling system capacity
- Can No Longer Deploy CS1 Equipment
- Depending on Vendor may be upgradeable to CS2
- All Existing CS1 Equipment can be used until May 31 2026
- More than 8000 CS2 transmitters already deployed
- When enough are deployed we can claim new channels between the existing channels
- Additional Demodulators Purchased to support new channels

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Contact Us

- GOES DCS Customer Service
  - Letecia Reeves (letecia.reeves@noaa.gov)
- GOES DCS Program Manager
  - Kay Metcalf (kay.metcalf@noaa.gov)
- 24 Hour Troubleshooting Assitance (WCDA)
  - 757-824-7450
- http://noaasis.noaa.gov/DCS
- DADDS Login:
  - https://dcs1.noaa.gov
  - https://dcs2.noaa.gov
  - https://dcs3.noaa.gov
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