DCS (GOES Data Collection System)

- DCS receives a combined 34K messages an hour from our GOES-16 (East) and GOES-17 (West) satellites.
- DCS has several different mechanisms for data retrieval provide by NOAA.
  - DADDS (DCS Administration and Data Distribution System)
  - NWSTG (National Weather Service Telecommunication Gateway)
  - DOMSAT (Service ending 14 May, 2019)
  - LRGS (Local Readout Ground System)
  - HRIT (High Rate Information Transmission)
How Do We Get All of the Messages?
How Do We Get All of the Messages?
The Demods and DCPMs’
The Servers
LRGS Information

Notice to Users

**WARNING**

This is a United States NOAA computer system, which may be accessed and used only for official Government business by authorized personnel. Unauthorized access or use of this computer system may subject violators to criminal, civil, and/or administrative action.

All information on this computer system may be intercepted, recorded, read, copied, and disclosed by and to authorized personnel for official purposes, including criminal investigations. Access or use of this computer system by any person whether authorized or unauthorized constitutes consent to these terms.

**WARNING**

Register for Direct Readout and Services Notifications

Help us keep you up to date with changes and anomalies!
## LRGS Summary Status

UTC: April 12, 2019 17:10:15 (Day 102)

<table>
<thead>
<tr>
<th>Host Name</th>
<th>Status Time</th>
<th>LRGS Status</th>
<th>Primary Downlink Status</th>
<th>Primary Quality Last Hour</th>
<th>Aggregate Quality Last Hour</th>
<th>Msgs This Hour</th>
<th>Num DDS Clients</th>
<th>Cove LRGS Version</th>
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<tbody>
<tr>
<td>cdadatna.wcdn.noaa.gov</td>
<td>04/12 17:10:01</td>
<td>OK</td>
<td>DRGS:Active</td>
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<td>5880</td>
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<td>nigrs1.noaa.gov</td>
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<td>null (none)</td>
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<td>0%</td>
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<td>?</td>
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LRGS Servers

- There are several LRGS Servers. They are at different locations across the country.

<table>
<thead>
<tr>
<th>cdadata.wceda.noaa.gov</th>
</tr>
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<tbody>
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<tr>
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</tr>
</tbody>
</table>
LRGS Monitoring GUI
User Account Setup

• Call a DCS operator at 757-824-7450 to begin the process for account setup.

• Have available the following:
  – Name
  – Email Address
  – Organization
  – Telephone Number
  – Preferred 6-character user name
Important Note

• Your DADDS account and your LRGS account are different.
• DADDS and LRGS are two separate systems and the usernames are not interchangeable.
User Account Set Up

• Must be a unique username.
  – We will check to see if you username is available.
  – Currently, once you establish your password there is no requirement to change it.
  – Once your account is established, it will be immediately available on CDADAT. Your credentials will propagate to the other LRGS machines within 30 minutes.
Password Convention

• An initial password is generated by a GUI interface located at Wallops.
• The DCS operator will provide your new password over the phone.
• You may choose to keep this password or change it at your leisure.
• IT security requirements will not let us email you the password at this time.
Password Convention

• **NOAA CITR-021 Password Requirements**
  - Passwords must contain at least 12 non-blank characters
  - Password must contain 3 of the following four character classes: upper case letters, lower case letters, digits, special characters.
  - Passwords cannot contain the user name or any dictionary word or acronym that is 5 characters or longer
  - When changing a password, you cannot reuse any of the last 8 passwords, or any password that was set in the past 2 years.
Password Convention

- Users can change their passwords if so desired.
- The instructions are found in the Client User Guide provided on the download page.
- Additionally, we cannot see your password once it has been initially created. If you forget, you will have to call the Wallops DCS help desk to have a new one created.
Downloads

• You do not need to login to your DADDS account to download the client
• Go to our web page for the download link
  DCS1.NOAA.gov, DCS2.NOAA.gov
• Download the user manual first and read the particulars for your particular application
• Download the client software
LRGS Downloads
LRGS Downloads

![LRGS Downloads Page]

**Program Information**
- DCS Program Information - N/A
- DCS Policies and Procedures (PDF) - May 1998
- GOES DCS System Use Agreement (PDF) - N/A
- NOAA Technical Memo NESDIS 40 (PDF) - Mar 1994
- DCS TWG Meeting Minutes - N/A

**LRGS Information**
- LRGS Client User’s Guide (PDF) - Feb 2016
- LRGS Client Software Download - Feb 2016
- DCP Data Service (DDS) Protocol Specification

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

• Wallops has very limited support for LRGS
• It’s a free OpenDCS suite developed to give users another option for data retrieval.
• At Wallops we issue passwords for the system, keep the interface servers running and ensure DCS data is flowing to the LRGS’s.
LRGS Support

• Wallops staff does not help with installation of the client software. We provide a secure download of the latest client and user guides.

• Users should coordinate with their system administrator for installation help.
LRGS Support

• If you have detailed LrgsClient questions, contact Cove Software, LLC for specific application support. Cove’s phone number is listed in the last page of the user manual.