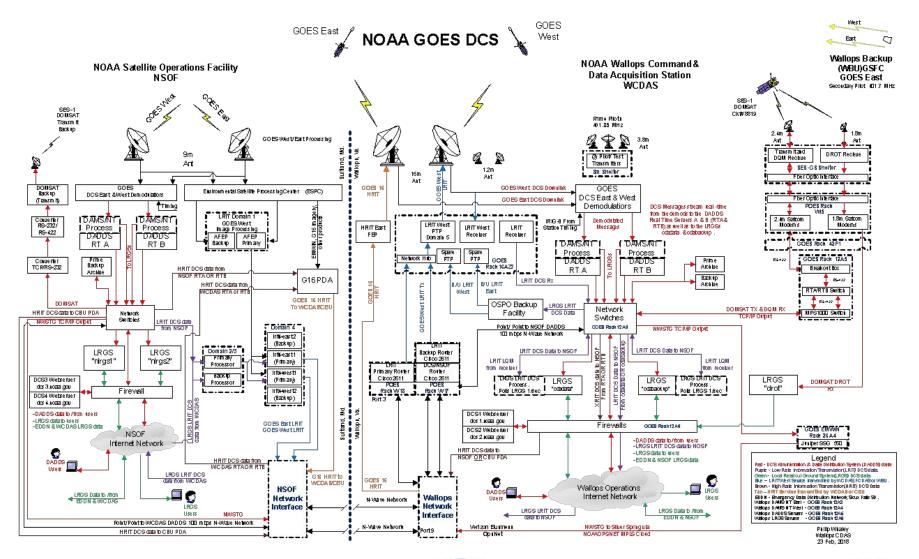
NOAA Command and Data Acquisition Station



GOES DCS Architecture





NOAA Satellite and Information Service 🗸 🗸 🗸

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

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 ended 14 May, 2019)
 - LRGS (Local Readout Ground System)
 - HRIT (High Rate Information Transmission)



How Do We Get All of the Messages?



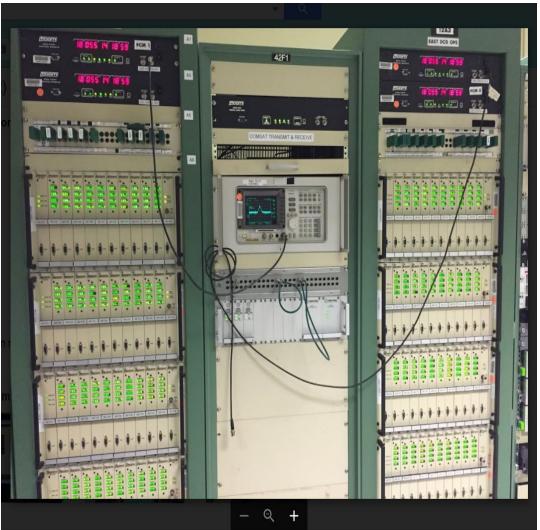


How Do We Get All of the Messages?





The Demods and DCPMs'



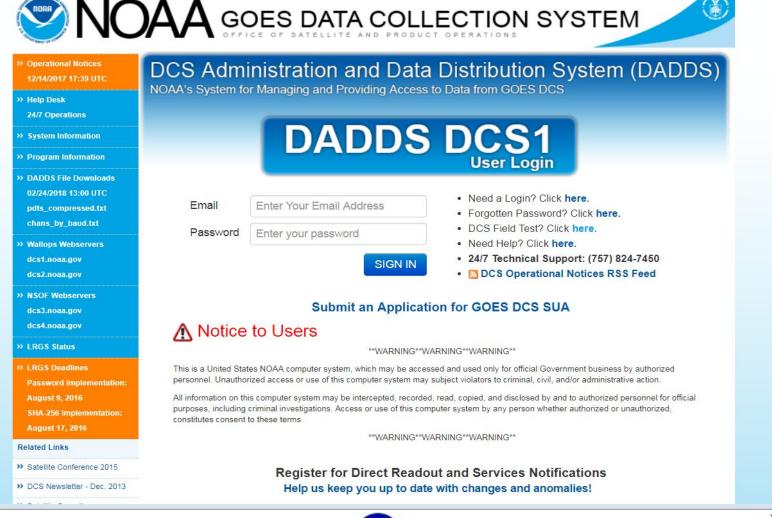


The Servers





LRGS Information





NOAA Satellite and Information Service 🗸 🗸 💙

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

LRGS Information



LRGS Summary Status

UTC: September 23, 2019 18:45:38 (Day 266)

Host Name	Status Time	LRGS Status	Primary Downlink Status	Primary Quality Last Hour	Aggregate Quality Last Hour	Msgs This Hour	Num DDS Clients	Cove LRGS Version
<u>cdadata.wcda.noaa.gov</u>	09/23 18:45:27	OK	DRGS:Active	99.52%	99.52%	28362	<mark>8</mark> 5	9.1
<u>cdabackup.wcda.noaa.gov</u>	09/23 18:45:33	OK	DRGS:Active	99.51%	99.51%	28359	64	9.1
<u>nirgs1 noaa gov</u>	09/23 18:45:19	OK	DRGS:Active	99.48%	99.48%	28277	15	9.1
<u>nirgs2 noaa gov</u>	09/23 18:45:22	OK	DRGS:Active	99.48%	99.48%	28302	16	9.1
<u>lrgseddn1 crusgs.gov</u>	09/23 18:45:34	OK	DDS:Active	99.51%	99.51%	28392	<mark>8</mark> 5	9.1
<u>lrgseddn2 crusgs.gov</u>	09/23 18:45:12	OK	DDS:Active	99.54%	99.54%	30122	36	9.2
<u>lrgseddn3.cr.usgs.gov</u>	09/23 18:45:13	OK	DDS:Active	99.52%	99.52%	28180	27	9.1



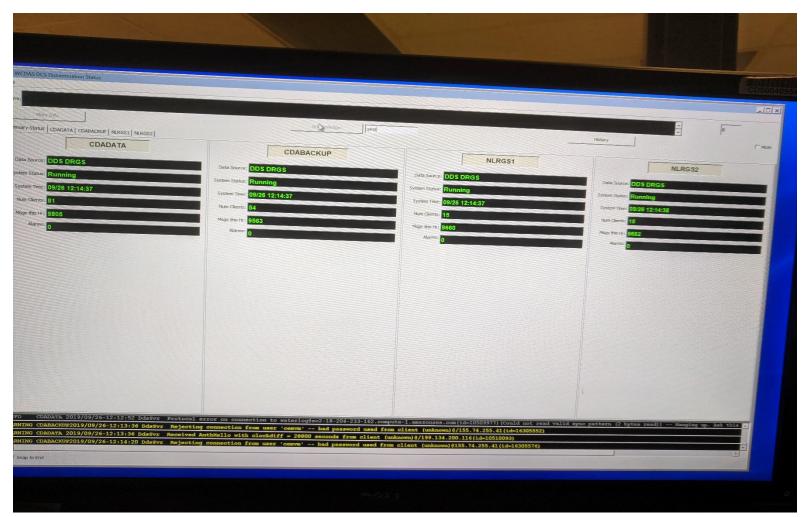
LRGS Servers

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





LRGS Monitoring GUI





User Account Setup

- Call a DCS operator at 757-824-7450 to begin the process for account set up.
- 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 CDADATA. 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 you 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.

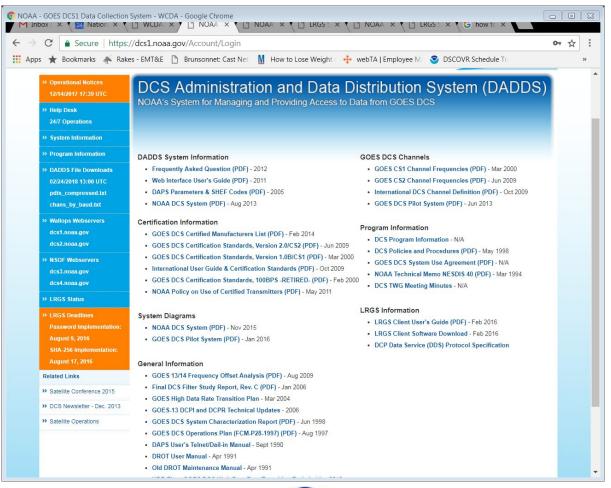


Downloads

- 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

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$\leftarrow \rightarrow \mathbf{C}$ \triangleq Secure https://c	cs1.noaa.gov/Account/Login	• , 0-	☆ :
🗰 Apps ★ Bookmarks Apps + Bookmarks	EMT&E Brunsonnet: Cast Net M How to Lose Weight		»
	GOES CS2 Channel Frequencies (PDF) - Jun 2009		
005	International DCS Channel Definition (PDF) - Oct 200	9	
	GOES DCS Pilot System (PDF) - Jun 2013		
	Program Information		
DF) - Feb 2014	DCS Program Information - N/A		
n 2.0/CS2 (PDF) - Jun 2009	• DCS Policies and Procedures (PDF) - May 1998		
n 1.0B/CS1 (PDF) - Mar 2000	GOES DCS System Use Agreement (PDF) - N/A		
andards (PDF) - Oct 2009	• NOAA Technical Memo NESDIS 40 (PDF) - Mar 1994		
S -RETIRED- (PDF) - Feb 2000 ers (PDF) - May 2011	DCS TWG Meeting Minutes - N/A		
L	RGS Information		
	LRGS Client User's Guide (PDF) - Feb 2016		
	LRGS Client Software Download - Feb 2016		
	DCP Data Service (DDS) Protocol Specification		
)F) - Aug 2009			
) - Jan 2006			
2004			
es - 2006			
t (PDF) - Jun 1998			
7) (PDF) - Aug 1997			
4			•



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.



Questions?

Contact Wallops DCS Help Desk – (757) 824-7450 wdcs@noaa.gov

> Travis Thornton - (757) 824-7316 Joseph.t.Thornton@noaa.gov

Matthew Sullivan - (757) 824-7360 Matt.g.Sullivan@noaa.gov

