

625-EMD-223

## **EOSDIS Maintenance and Development Project**

# **Training Material for the EMD Project Volume 3: Data Pool Ingest**

Revision --

March 2009

Raytheon Information Solutions  
Riverdale, Maryland

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# Training Material for the EMD Project Volume 3: Data Pool Ingest

Revision --

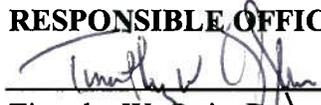
March 2009

Prepared Under Contract NAS5-03098  
CDRL Item # 023

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**Raytheon Information Solutions**  
Riverdale, Maryland

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# Preface

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This document is a formal contract deliverable. It requires Government review and approval within 45 business days. Changes to this document will be made by document change notice (DCN) or by complete revision.

Any questions should be addressed to:

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## Revision History

| <b>Document Number</b> | <b>Status/Issue</b> | <b>Publication Date</b> | <b>CCR Number</b> |
|------------------------|---------------------|-------------------------|-------------------|
| 625-EMD-223            | Original            | March 2009              | 09-0073           |

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# Abstract

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This is Volume 3 of a series of lessons containing the training material for the Earth Observing System Data and Information System (EOSDIS) Maintenance and Development (EMD) Project. This lesson provides a detailed description of the process for configuring and monitoring SIPS data ingested into ECS.

**Keywords:** training, instructional design, course objective, Ingest, Release 7.22

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## Abstract

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# Introduction

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## Identification

Training Material Volume 3 is part of Contract Data Requirements List (CDRL) Item 23, which is a required deliverable under the Earth Observing System Data and Information System (EOSDIS) Maintenance and Development (EMD) Contract (NAS5-03098).

## Scope

Training Material Volume 3 describes the process and procedures for ingest of data into the system. This lesson is designed to provide the operations staff with sufficient knowledge and information to satisfy all lesson objectives.

## Purpose

The purpose of this Student Guide is to provide a detailed course of instruction that forms the basis for understanding Ingest. Lesson objectives are developed and will be used to guide the flow of instruction for this lesson. The lesson objectives will serve as the basis for verifying that all lesson topics are contained within slide presentation material.

## Status and Schedule

This lesson module provides detailed information about training for the current baseline of the system. Revisions are submitted as needed.

## Organization

This document is organized as follows:

- |                        |   |
|------------------------|---|
| Introduction:          | The Introduction presents the document identification, scope, purpose, and organization.  |
| Related Documentation: | Related Documentation identifies parent, applicable and information documents associated with this document.  |
| Student Guide:         | The Student Guide identifies the core elements of this lesson. All Lesson Objectives and associated topics are included. The Student Guide consists of a slide presentation and is used by the instructor during the presentation of this lesson. |

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# Related Documentation

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## Parent Documents

The parent documents are the documents from which the EMD Training Material's scope and content are derived.

|           |   |
|-----------|---|
| 423-41-01 | Goddard Space Flight Center, EOSDIS Core System (ECS) Statement of Work   |
| 423-46-03 | EMD Task 101 Statement of Work For ECS SDPS Maintenance                   |
| 423-46-02 | Contract Data Requirements Document for EMD Task 101 ECS SDPS Maintenance |

## Applicable Documents

The following documents are referenced within this EMD Training Material, or are directly applicable, or contain policies or other directive matters that are binding upon the content of this document:

|           |   |
|-----------|---|
| 420-05-03 | Goddard Space Flight Center, Earth Observing System (EOS) Performance Assurance Requirements for the EOSDIS Core System (ECS)   |
| 423-41-02 | Goddard Space Flight Center, Functional and Performance Requirements Specification for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) (ECS F&PRS)                                |
| 423-46-01 | Goddard Space Flight Center, Functional and Performance Requirements Specification for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) Science Data Processing System (EMD F&PRS) |

## Information Documents

### Information Documents Referenced

The following documents are referenced herein and amplify or clarify the information presented in this document. These documents are not binding on the content of the EMD Training Material.

|             |   |
|-------------|---|
| 609-EMD-220 | Release 7.22 Operations Tools Manual for the EMD Project      |
| 611-EMD-220 | Release 7.22 Mission Operation Procedures for the EMD Project |

## **Information Documents Not Referenced**

The following documents, although not referenced herein and/or not directly applicable, do amplify or clarify the information presented in this document. These documents are not binding on the content of the EMD Training Material.

- 305-EMD-220            Release 7.22 Segment/Design Specification for the EMD Project.
- 311-EMD-220            Release 7.22 INGEST (INS) Database Design and Schema Specifications for the EMD Project.
- 311-EMD-224            Release 7.22 Order Manager Database Design and Database Schema Specifications for the EMD Project.
- 311-EMD-225            Release 7.22 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EMD Project.
- 311-EMD-226            Release 7.22 Data Pool Database Design and Schema Specifications for the EMD Project.
- 311-EMD-227            Release 7.22 Archive Inventory Management (AIM) Database Design and Schema Specifications for the EMD Project

# Ingest Overview

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## Lesson Overview

This lesson provides you with the process for Ingest status monitoring, use of Ingest operator tools and Ingest processing. It provides practical experience in using the tools you need for monitoring the ingest request history, monitoring/controlling current ingest requests status, setting ingest parameters, and managing ingest processing.

## Lesson Objectives

**Overall Objective** - The overall objective of this lesson is for personnel involved in maintenance and operation of the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) to develop proficiency in the procedures that apply to data ingest.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - The student will use the tools to perform ingest in accordance with the prescribed procedures without error.

**Specific Objective 1** - The student will describe the ingest function, providing a general statement of the ingest responsibility in the system and an overview of the ingest process.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - The student will correctly state the ingest role in the system, state at several areas: ingest activities, identify types of ingest automated messages, identify categories of ingest, and identify types of data transfer for ingest.

**Specific Objective 2** - The student will perform the steps involved in logging in to system hosts.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will log in to the specified host using secure shell and the specified user ID.

**Specific Objective 3** - The student will perform the steps involved in launching the DPL Ingest GUI.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will log in to the appropriate host using secure shell and launch the ECS Ingest GUI in the specified mode.

**Specific Objective 4** - The student will perform the steps involved in monitoring and controlling SIPS ingest requests.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Monitoring tab, select the appropriate set of ingest requests to monitor, observe ingest request processing, resume/cancel requests as directed, and respond to questions concerning the current status of ingest requests.

**Specific Objective 5** - The student will perform the steps involved in viewing the history of ingest requests using the Data Pool Ingest GUI.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Historical Requests tab; select the specified time range, data provider, data type, and/or final request status; select the specified type of report (i.e., Detailed Report or Summary Report); and respond to questions concerning the history log report.

**Specific Objective 6** - The student will perform the steps involved in monitoring and controlling Provider Status.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Monitoring tab, select the appropriate set of ingest providers to monitor, observe ingest providers resume/cancel requests as directed, and respond to questions concerning the current status of ingest providers.

**Specific Objective 7** - The student will perform the steps involved in monitoring File System Status.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Monitoring tab, select Files System Status and resume a File System as directed.

**Specific Objective 8** - The student will perform the steps involved in monitoring Transfer Host Status.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Monitoring tab, select and review Transfer Host Status.

**Specific Objective 9** - The student will perform the steps involved in monitoring ECS Service Status.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Monitoring tab, select and review Transfer Host Status and suspend/resume service host.

**Specific Objective 10** - The student will perform the steps involved in reviewing ingest requests with Open Interventions.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Interventions & Alerts tab, select the Alerts.

**Specific Objective 11** - The student will perform the steps involved in reviewing Alerts.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Interventions & Alerts tab, select the Alerts and review/clear alerts. .

**Specific Objective 12** - The student will perform the steps involved in configuring a Data Provider.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing provider or add a new provider.

**Specific Objective 13** - The student will perform the steps involved in configuring a Data Type.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing data type or add a new data type.

**Specific Objective 14** - The student will perform the steps involved in configuring a Transfer Host

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing Transfer Host or add a new Transfer Host.

**Specific Objective 15** - The student will perform the steps involved in configuring a File System.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing File System or add a new File System.

**Specific Objective 16** - The student will perform the steps involved in configuring an ECS service.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing ECS Service or add a new ECS Service.

**Specific Objective 17** - The student will perform the steps involved in performing Global Tuning.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing Global Parameter.

**Specific Objective 18** - The student will perform the steps involved in configuring a Volume Group.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing Volume Group or add a new Volume Group.

**Specific Objective 19** - The student will perform the steps involved in Generating a Report.

**Condition** - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EMD-220, Release 7.22 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-220, Release 7.22 Mission Operation Procedures for the EMD Project.

**Standard** - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Report tab, generate a Report.

## **Importance**

This lesson provides students who will be Ingest Technicians at the Distributed Active Archive Centers (DAACs) with the knowledge and skills needed for effective ingest of data. It ensures development of operational capability that optimizes ingest performance to realize the potential for reliability, availability, maintainability, and security in data receipt and placement in the storage hierarchy. It provides thorough preparation for the following Ingest functions (among others):

- Automated polling ingest.
- Monitoring/controlling ingest request processing.
- Adjusting ingest tunable parameters.
- Troubleshooting and recovering from ingest problems.

# Slide Presentation

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## **Slide Presentation Description**

The following slide presentation represents the slides used by the instructor during the conduct of this lesson.

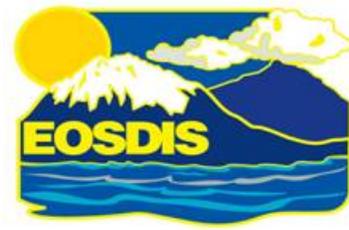
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# Ingest

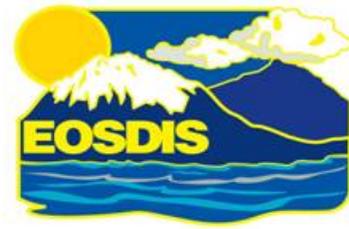
**March 2009**

# Overview



- **Objectives**
- **Ingest Concepts:**
  - System Context Diagram
  - DPL Ingest Subsystem
  - Ingest Activities
  - Logging into System Hosts
  - Launching the Data Pool Ingest GUIs
  - Monitoring Data Pool Ingest
  - Monitoring Data Pool Ingest Status
  - Interventions & Alerts
  - Modifying DPL Ingest Configuration Parameters
  - Understanding Help
  - ECS Collections Groups

# Objectives



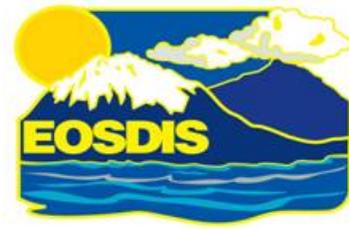
- **OVERALL:**

- To develop proficiency in the procedures that apply to Ingest operations.

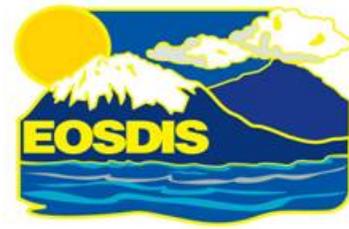
- **SPECIFIC:**

- Describe the Ingest function, including a generalization of the Ingest responsibility in the system and the process overview.
- Perform Ingest related procedural steps for:
  - logging into the system host.
  - launching the DPL Ingest web GUI.
  - monitoring and controlling Ingest requests.
  - viewing the Ingest historical information.
  - verifying the archiving of ingested data.
  - modifying external data provider information.
  - modifying Ingest subsystem parameters.

# Objectives (cont.)



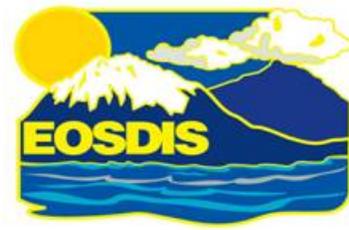
- **STANDARDS:**
  - Lesson content (procedures in the lesson).
  - Mission Operation Procedures for the EMD Project (611-EMD-220).



- **Data Pool Architectural Context**

- **Data Pool Ingest (DPL-Ingest) subsystem is the system's point-of-entry for ingestion of data from external data providers.**
- **The Order Management (OM) Service:**
  - Manages all distribution services.
  - Accepts distribution requests from external interfaces (e.g., ECHO).
  - Implements distribution and staging policies (as configured by DAACs).
- **Data Pool (DPL) Service:**
  - Point-of-entry to the system for data from external data providers.
  - Requests staging operations for data not found in the SAN.
  - Interfaces with on-demand processing services, such as HEG (internal) and HEW (external).
  - Provides a web-based order status interface for users and a web-based Operator interface to manage distribution.

# Ingest Context (cont.)



- **Data Pool Architectural Context (cont.)**

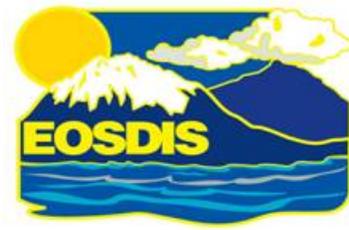
- **Data Pool (DPL) Service (cont.):**

- Accepts and applies Quality Assurance (QA) updates.
    - Maintains and exports collection and granule metadata.
    - Supports discovery, drill down searches, and direct data downloads via the Data Pool Web Application and Anonymous FTP Service.

- **DPL Ingest Service:**

- Implements ingest, archiving and staging policies as configured by the DAAC.
    - Dispatches pre-processing services to perform metadata extraction and format conversions and dispatches subscription services following ingest.
    - Manages all ingest, staging and archiving services.
    - Polls data and processes Ingest requests in accordance with ECS Interface Control Documents (ICDs).

# Ingest Context (cont.)

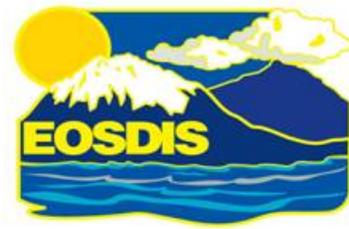


- **Data Pool Architectural Context (cont.)**

- **HEG Service:**

- Accepts requests for subsetting, reformatting, and re-projection via the HEG Tool.
    - Dispatch HEG processes across platforms while performing load balancing and resource management.
    - Used by the DPL Service to perform routine pre-processing (e.g., format conversion) during ingest.
    - Used by the OM Service to perform on-demand processing during distribution.

# Ingest Context (cont.)



- **Data Pool Architectural Context (cont.)**

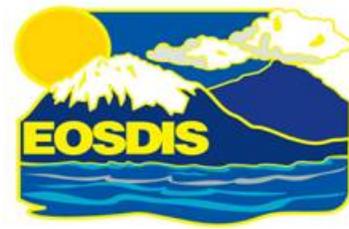
- **Data Pool Storage:**

- consists of a Storage Area Network (SAN) that is accessible to all internal platforms for processing and distribution.
    - Provides a large disk cache for recent inserts and on-going operations, enabling up to several months worth of data to be buffered.
    - Implements data retention and migration policies as configured by the DAAC.

- **Tape Archive:**

- Provides tape storage for all archived data.
    - Accessed only by the DPL Ingest Service during archiving or staging.

# Ingest Context (cont.)

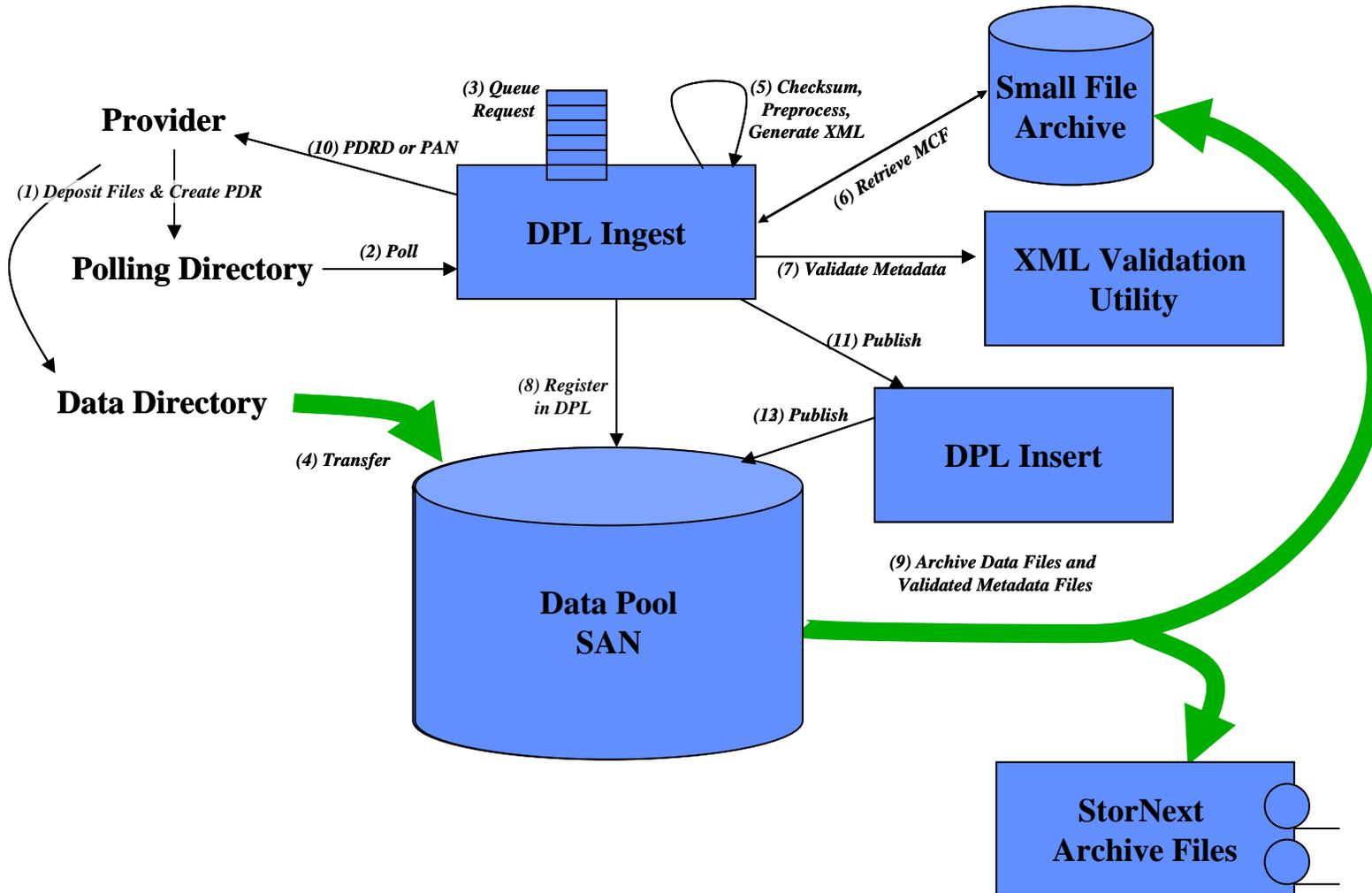
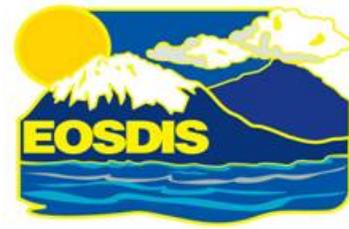


- **Data Pool Architectural Context (cont.)**

- **Inventory Database:**

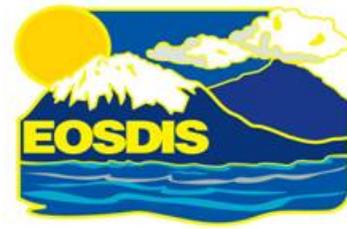
- Tracks all archived granules.
    - Contains a reduced set of metadata (metadata needed only to support Data Pool web) searches and ingest processing.
    - Complete metadata for each granule stored in metadata files in XML.
    - All metadata files are kept on disk.

# DPL Ingest Subsystem



# DPL Ingest Subsystem (cont.)

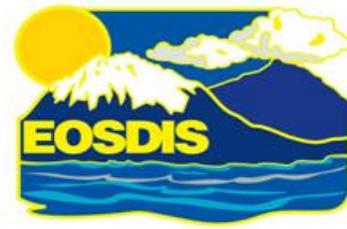
## Functionality



- **The DPL Ingest Subsystem:**
  - **The component used to get data from external data providers into the system via the DPL Ingest GUI.**
  - **Used for SIPS (Science Investigator-Led Processing Systems), S4P, Aster, Secure Copy (SCP) and cross-DAAC ingest.**
  - **Supports the ingest protocol known as ‘Polling with Delivery Record’ and ‘Polling without Delivery Record’.**
  - **SIPS providers place their data and Product Delivery Record (PDR) files into a polling directory.**
    - **The directory can be local, e.g., accessible via a mount point or remote (i.e., accessible via FTP or SCP).**

# DPL Ingest Subsystem

## DPL Ingest Service

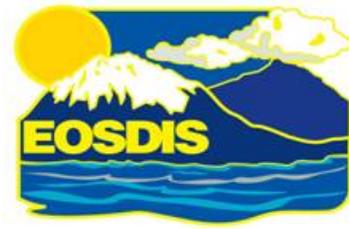


- **DPL Ingest Service:**

- Provide ability for the SIPS providers to utilize the a polling directory either locally or remote, as configured by the DAAC.
- Queues Ingest requests for all PDRs in polling directories and checks available resources to decide order in which valid PDR is processed (based on DAAC configurations).
- Performs granule files copy into the Data Pool SAN, using hidden directories, unless the DAAC requested that the data be published on insert.
- Preprocessing events include checksum verification and translation of ODL files to XML (as needed).
- For non-SIPS ESDTs, Ingest will retrieve the MCF from a configured location in the Small File Archive.

# DPL Ingest Subsystem

## DPL Ingest Service (cont.)

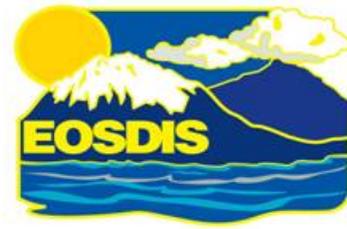


- **DPL Ingest Service (cont.)**

- Validates incoming granule metadata using the XML Validation Utility. The validated science XML metadata will be copied to a location in the StorNext Archive.
- The Data Pool Ingest Utility (DPIU) registers the granule in the DPL database.
- The DPIU then copies the granules to the StorNext Archive. This may involve a copy to both a primary and backup archive depending on how the ESDT is configured for archiving.

# DPL Ingest Subsystem

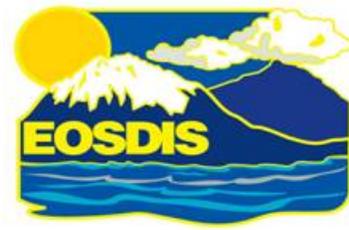
## DPL Ingest Service (cont.)



- **DPL Ingest Service (cont.)**

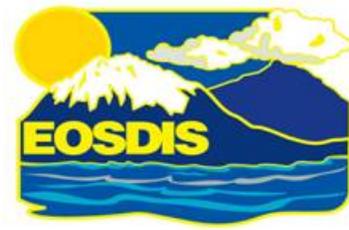
- Once all granules within the PDR are completed, the provider is notified of the outcome, which could be immediately via Product Delivery Discrepancy Report (PDRD) if PDR validation failed, or later via a short or long Product Acceptance Notification (PAN).
- If the ESDT is configured for public Data Pool insert, granule made public in the Data Pool and populates the warehouse tables using the XML version of the metadata.

# Data Pool Ingest web GUI



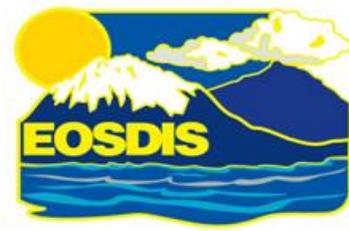
- **Data Pool Ingest web GUI**
  - **Provides capabilities:**
    - Monitor ingest requests and errors.
    - Respond to ingest requests for operator intervention and alerts.
    - Enter configuration information related to providers, polling locations, and the handling of data collections.

# System Hosts Login



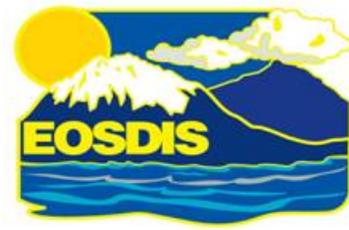
- **Logging in to system hosts is accomplished from a UNIX command line prompt.**
  - It is an initial set of steps that is performed when accomplishing many other Ingest tasks.
- **Procedure:**
  - Access the **command shell**.
  - **Set the DISPLAY** environmental variable.
  - **Log into the specified host** using secure shell and the specified user ID.

# Data Pool Ingest Launching



- **Software applications associated with Data Pool Ingest:**
  - **EcDIIInProcessingService.**
  - **EcDIIInPollingService.**
  - **EcDIIInNotificationService.**
- **Ingest depends on the Data Pool Maintenance GUI to set up the Collection Groups.**

# Data Pool Ingest Launching (cont.)

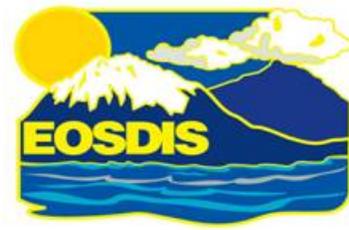


- **Procedure: Launching the DPL Ingest web GUI**
  - Launch **Mozilla Firefox 2.0+** web browser.
  - Type the **URL [http://host:port]** (or retrieve bookmark for the DPL Ingest web GUI):
    - For example: `http://n4dpl01.nsidc.ecs.nasa.gov:25000/Ingest.`

The screenshot shows the "DATA POOL INGEST web GUI" interface. At the top, there is a banner with a satellite image of Earth and the text "DATA POOL INGEST web GUI". Below the banner are the NASA and EOSDIS logos. The main content area contains a login form with the following elements:

- A key icon followed by the text "Login:"
- A "User:" label followed by a text input field.
- A "Password:" label followed by a text input field.
- At the bottom, there are two buttons: "Login" (with a key icon) and "Clear" (with a trash can icon).

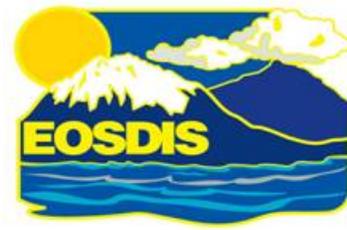
# Data Pool Ingest web GUI Home Page



- The **Navigation** panel is located in the left pane and contains menus that allow the Operator to monitor/control ingest requests.
- The **General System Statistics** section provides general information about current requests and granules in the system, as well as the various services and file systems used in processing.

A screenshot of the Data Pool Ingest web GUI in a Mozilla Firefox browser window. The browser title is 'DPL Ingest GUI (DEV09) - Mozilla Firefox'. The page title is 'DATA POOL INGEST web GUI'. The interface includes a navigation menu on the left, a 'General System Statistics' section, a 'DPL Ingest Status' section, and a 'Service Status' section. Several callout boxes with red arrows point to specific elements: 'You are logged in as &lt;userid&gt; - identifies active login name' points to the user information in the navigation menu; 'change password link' points to a link in the navigation menu; 'show my permissions link' points to a link in the navigation menu; 'reload page - Active link to refresh data/page' points to a 'reload page' button; 'Provider Status - Active link to Monitoring, Provider Status page' points to a link in the 'General System Statistics' section; 'System Alerts - Active link to Interventions &amp; Alerts, Alerts page' points to a warning icon and text in the 'General System Statistics' section; 'Indicators are red, if down' points to a set of green and red status indicators in the 'Service Status' section; and 'Auto Refresh options' points to an 'Auto Refresh OFF' button at the bottom of the page.

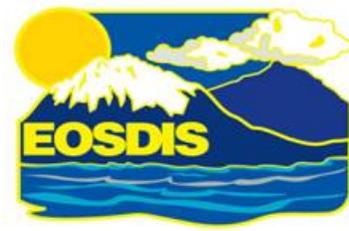
# Data Pool Ingest web GUI Home Page (cont.)



- **The General System Statistics section provides general information about current requests and granules in the system, as well as the various services and file systems used in processing.**

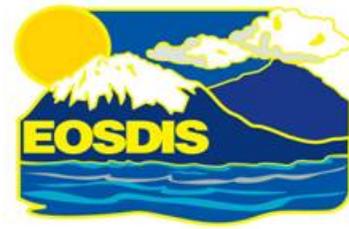
| Field Name                            | Description  |
|---------------------------------------|--|
| Total Volume of Data Queued           | Sum of the size of all files of all granules that have not yet been activated  |
| Total Volume of Data In Processing    | Sum of the size of all files of all granules that are currently active, and not suspended or in a terminal state     |
| Total Ingest Requests Queued          | Total number of requests that have not yet been activated  |
| Total Ingest Requests In Processing   | Total number of requests that are currently active, and not suspended or in a terminal state                         |
| Total Granules Queued                 | Sum of all granules in active or queued requests that have not yet been activated                                    |
| Total Granules In Processing          | Sum of all granules in active or queued requests that are currently active, and not suspended or in a terminal state |
| Num. Suspended Archive File Systems   | Total archive file systems that have been suspended, either automatically by the server or manually by operator      |
| Num. Suspended Data Pool File Systems | Total data pool file systems that have been suspended, either automatically by the server or manually by operator    |
| Num. Suspended ECS Services           | Total ECS service hosts that have been suspended, either automatically by the server or manually by operator         |

# Data Pool Ingest web GUI Home Page (cont.)



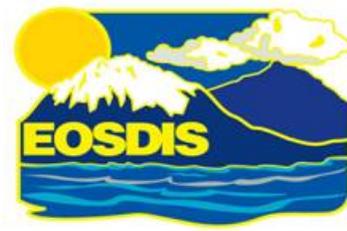
- The **DPL Ingest Status** section enable the user to halt various actions throughout the Data Pool Ingest system.
  - General Ingest Status button stops polling from all polling locations and prevents any new granules from being activated.
  - Email Service Status stops any further email notifications.
- The **Service Status** section provides the status of the three primary services that make up the Data Pool Ingest system:
  - **Notification Service Status** - If down, no notifications will be sent.
  - **Polling Service Status** - If down, PDRs will not arrive from any configured polling location.
  - **Processing Service Status** - If down, no actions on any requests or granules will start.

# Data Pool Ingest web GUI Monitoring



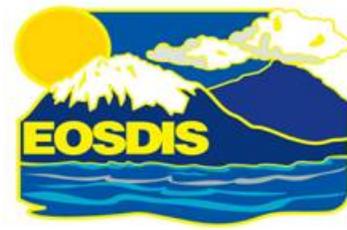
- **The following Data Pool Ingest Statuses can be monitored:**
  - **Requests Status**
  - **Historical Requests**
  - **Provider Status**
  - **File System Status**
  - **Transfer Host Status**
  - **ECS Service Status**
  - **PDR List**

# Monitoring Ingest Requests



- **The Ingest Request Status screen is used to check the status of current active Ingest requests.**
- **The Operator may select any eligible request and perform one of several actions:**
  - **Cancel Requests:** This is an irreversible action, there is no way to ‘un-cancel’ a request.
  - **Suspend Requests:** Performed only if the selected requests are not already suspended or cancelled.
    - Used to stop new granules from being activated
  - **Resume Requests:** This action may be performed only if the selected requests are suspended.
  - **Change Priority** of request(s):
    - Requests in terminal states cannot have their priority changed.
    - A default priority will be assigned to requests based upon the configuration of the request’s provider.

# Monitoring Ingest Requests (cont.)



- **Procedure:**

- Select the DPL Ingest GUI **Monitoring, Requests Status** link.
- Click on a **Request ID**.
  - Displays information about the request

**DATA POOL INGEST web GUI** Tue Sep 11 2007 13:39:09

**Ingest Requests**

Dynamic Auto-Refresh Clock appears if Auto Refresh is on. Indicates next refresh time.

Pagination Arrows moves pages to first, to previous, to next or to last.

page refresh **paused**

Show / Hide Filters

[HELP] Showing 1 - 10 of 16 Page size: 10

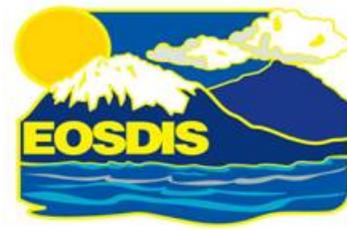
| <input type="checkbox"/> | Request ID | Status | Priority | Provider Name | Size [MB] | Granules | Granules Completed Processing | When Queued         | Last Update         |
|--------------------------|------------|--------|----------|---------------|-----------|----------|-------------------------------|---------------------|---------------------|
| <input type="checkbox"/> | 20523      | Active | VHIGH    | JPL           | 0.252     | 2        | 0                             | 2007-09-10 12:54:01 | 2007-09-10 12:54:03 |
| <input type="checkbox"/> | 20515      | Active | VHIGH    | JPL           | 330.337   | 2        | 1                             | 2007-09-10 12:54:01 | 2007-09-11 13:20:50 |
| <input type="checkbox"/> | 20513      | Active | VHIGH    | JPL           | 330.337   | 2        | 0                             | 2007-09-10 12:54:01 | 2007-09-10 12:54:17 |
| <input type="checkbox"/> | 20511      | Active | VHIGH    | JPL           | 330.337   | 2        | 1                             | 2007-09-10 12:54:01 | 2007-09-11 13:21:05 |
| <input type="checkbox"/> | 20509      | Active | VHIGH    | JPL           | 330.337   | 2        | 0                             | 2007-09-10 12:54:01 | 2007-09-10 12:54:16 |
| <input type="checkbox"/> | 20507      | Active | VHIGH    | JPL           | 1.523     | 1        | 0                             | 2007-09-10 12:54:01 | 2007-09-10 12:54:04 |
| <input type="checkbox"/> | 20503      | Active | VHIGH    | JPL           | 1.523     | 1        | 0                             | 2007-09-10 12:54:01 | 2007-09-10 12:54:04 |
| <input type="checkbox"/> |            | Active | VHIGH    | JPL           | 1.523     | 1        | 0                             | 2007-09-10 12:54:01 | 2007-09-10 12:54:03 |
| <input type="checkbox"/> |            | Active | VHIGH    | JPL           | 1.523     | 1        | 0                             | 2007-09-10 12:54:00 | 2007-09-11 13:20:38 |
| <input type="checkbox"/> |            | Active | VHIGH    | JPL           | 1.523     | 1        | 0                             | 2007-09-10 12:54:00 | 2007-09-11 13:20:38 |

Action Buttons for eligible Ingest Requests:  
Cancel Requests Suspend Requests Resume Requests Change Priority

Auto Refresh OFF  
[off] [20s] [30s] [1m] [5m] [10m] [15m] [30m]

Auto Refresh Control Panel reloads page information defined by seconds or minutes. Each screen has an independent refresh rate.

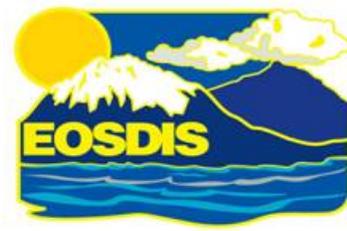
# Monitoring Ingest Requests (cont.)



## • Ingest Requests Page Column Descriptions

| Field Name                    | Description   |
|-------------------------------|---|
| Request ID                    | Unique ID for an ingest request.  |
| Status                        | Status of the request:<br>–New<br>–Validated<br>–Active<br>–Partially_Suspended<br>–Suspending/Suspended<br>–Resuming<br>–Failed<br>–Partial_Failure<br>–Canceling<br>–Partially_Cancelled<br>–Successful |
| Priority                      | The precedence which a request will have for activation and various processing actions.   |
| Provider Name                 | Name of the provider from which the request was obtained.   |
| Size [MB]                     | Sum of the size of all granules in the request.   |
| Granules                      | Total granules included in the request.   |
| Granules Completed Processing | Total granules that have reached a successful state.  |
| When Queued                   | Time the request was encountered by the polling service.  |
| Last Update                   | Time of the last change made by the ingest services to the status of the request or its granules.   |

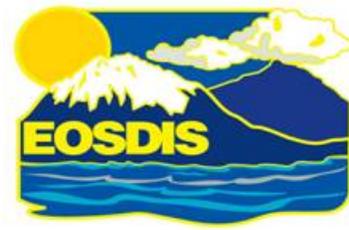
# Monitoring Ingest Requests (cont.)



## • Ingest Requests Status Allowed Actions Descriptions

| Request Status         | Request Actions |                          |        |        |                    |
|------------------------|-----------------|--------------------------|--------|--------|--------------------|
|                        | Suspend         | Cancel / Change Priority | Resume | Cancel | No Actions Allowed |
| New                    |                 | X                        |        | X      |                    |
| Validated              |                 | X                        |        | X      |                    |
| Active                 | X               | X                        |        | X      |                    |
| Partially_Suspended    | X               | X                        |        | X      |                    |
| Suspending / Suspended |                 | X                        | X      | X      |                    |
| Resuming               | X               | X                        |        |        |                    |
| Failed                 |                 |                          |        |        | X                  |
| Partial_Failure        |                 |                          |        |        | X                  |
| Canceling              |                 |                          |        |        | X                  |
| Partially_Cancelled    |                 |                          |        |        | X                  |
| Successful             |                 |                          |        |        | X                  |

# Monitoring Ingest Requests (cont.)



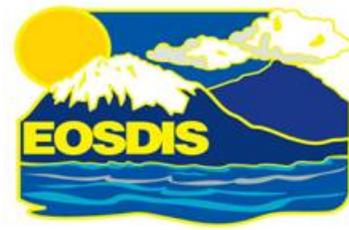
- **Procedure: Changing Request Status Filters**
  - Select the DPL Ingest GUI **Monitoring, Requests Status** link
  - Select the **Show/Hide Filters** button
    - Active Ingest Request List Filter Panel displayed.

A screenshot of the DPL Ingest GUI's 'Criteria Based Filtering' panel. The panel has a light blue background and a title bar with a key icon and the text 'Show / Hide Filters: [HELP]'. Below the title bar, there are two tabs: 'Criteria Based Filtering' (selected) and 'Filter By Request ID'. The 'Criteria Based Filtering' section contains several filter criteria:

- Data Providers:** A dropdown menu with 'MODAPS\_TERRA\_FPROC' selected.
- Request Detail Criteria:** A dropdown menu with 'New' selected.
- Request States:** A dropdown menu with 'Validated' selected. A sub-menu is open, showing 'Validated', 'Active', and '- SHOW ALL -'.
- Target Archives:** A dropdown menu with 'amfs1' selected. A sub-menu is open, showing 'amfs1', 'snfs1', and 'brows'.
- Date Range Criteria:** A dropdown menu with 'Last Updated' selected.

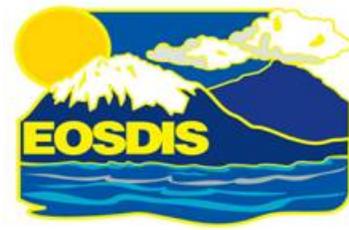
Below these criteria, there is a 'Date Range' section with 'FROM' and 'TO' labels. The 'FROM' date is set to month 10, day 25, yr 2006, hr 1, min 0. The 'TO' date is set to month 10, day 26, yr 2006, hr 23, min 59. At the bottom of the panel, there is a checkbox for 'Save As Default Settings [HELP]', an 'Apply Filter' button, and a 'Load Default Settings' button.

# Monitoring Ingest Requests (cont.)



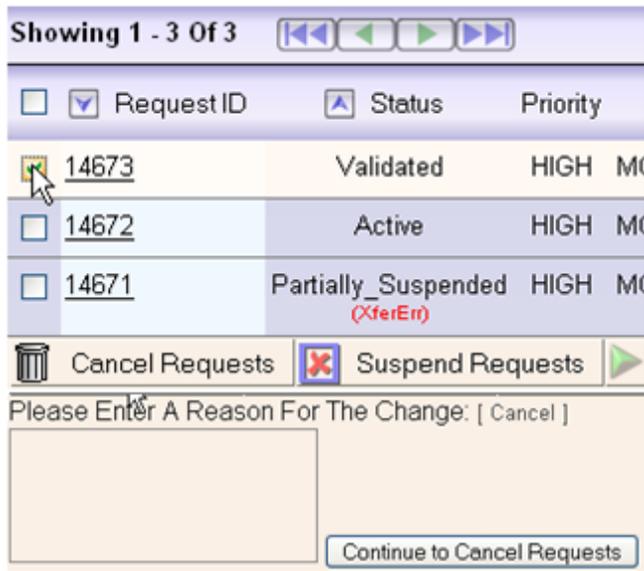
- **Procedure: Changing Request Status Filters**
  - **Criteria Based Filtering**
    - Allows filtering the attributes of various requests
    - If you want to filter a single granule ID select Filter By Request ID
  - **Filter by Data Provider**
  - **Filter by Request State criteria**
    - Selection to filter the Request Detail Criteria to retrieve the requests states
  - **Error Type**
    - Selection to filter the Request Detail Criteria for error types
  - **Filter by Request Detail Criteria**
  - **Filter by Target Archives Criteria**
  - **Filter by Date Range Criteria**

# Monitoring Ingest Requests (cont.)



- **Procedure: Change Priority of Ingest Requests**
  - Click the **checkbox** corresponding to the request to be resumed
  - Click the **Resume, Suspend or Change Priority** button
  - Enter the “...Reason For The Change” in textbox.
  - Click the **OK** button

## ▪ Cancel/Resume



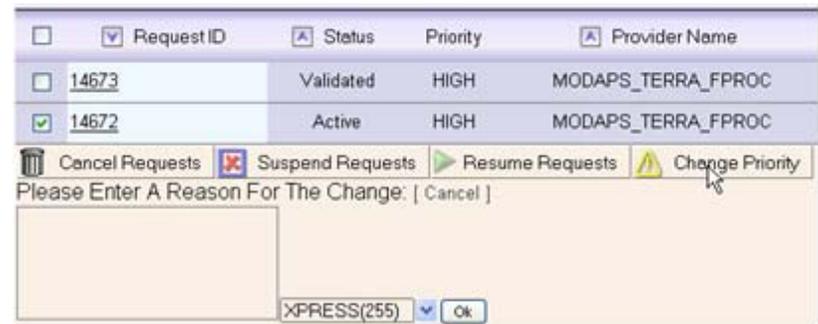
| <input type="checkbox"/>            | Request ID | Status                           | Priority |
|-------------------------------------|------------|----------------------------------|----------|
| <input checked="" type="checkbox"/> | 14673      | Validated                        | HIGH     |
| <input type="checkbox"/>            | 14672      | Active                           | HIGH     |
| <input type="checkbox"/>            | 14671      | Partially_Suspended<br>(XferErr) | HIGH     |

Cancel Requests Suspend Requests Resume Requests

Please Enter A Reason For The Change: [ Cancel ]

Continue to Cancel Requests

## ▪ Change Priority



| <input type="checkbox"/>            | Request ID | Status    | Priority | Provider Name      |
|-------------------------------------|------------|-----------|----------|--------------------|
| <input type="checkbox"/>            | 14673      | Validated | HIGH     | MODAPS_TERRA_FPROC |
| <input checked="" type="checkbox"/> | 14672      | Active    | HIGH     | MODAPS_TERRA_FPROC |

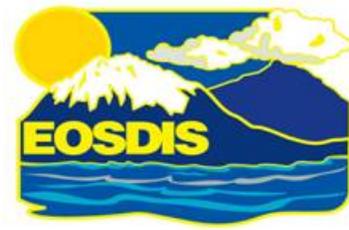
Cancel Requests Suspend Requests Resume Requests Change Priority

Please Enter A Reason For The Change: [ Cancel ]

XPRESS(255) Ok



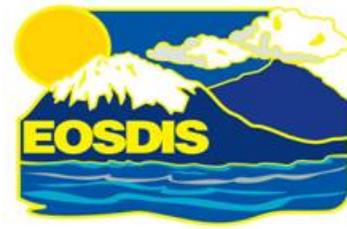
# Monitoring Ingest Requests (cont.)



- **Ingest Request Detail Page (cont.)**

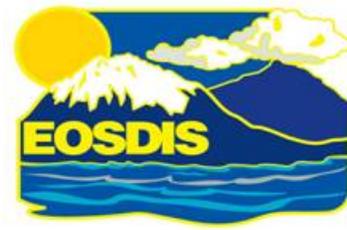
- Any granule(s) encountering problems during any point in their processing are initially flagged as “suspended”
- The following actions may be performed on granules that have been initially suspended:
  - **Retry Selected Granules:** This applies only to granules that are currently suspended
  - **Retry Selected Granules From Start:** This applies only to granules that are currently suspended and retries them from the beginning
  - **Fail Selected Granules:** This applies only to granules that are currently suspended and transitions the granule into the failed state
  - **Cancel Selected Granules:** This applies to granules that are in the New state, Active state, or Suspended state and can be cancelled by selecting this icon
    - If the state is Successful, Failed or any Terminal state, the granule may not be cancelled. This action manually fails the granules and marks them ‘canceled’

# Monitoring Historical Requests



- **The DPL Ingest Historical Requests provides the following information:**
  - **A summary of ingest requests that have been processed.**
  - **Detailed granule information about each completed ingest request.**
  - **Ingest request processing statistics to include time required to perform Transfer, Checksum, Preprocess, DPL Insert and Archive.**
  - **Detailed information about each granule.**
- **Since the Historical Requests are completed requests, no action can be processed from these pages.**

# Monitoring Historical Requests (cont.)



- **Procedure: Historical Ingest Request Pages**
  - Select the DPL Ingest GUI Monitoring, Historical Requests link.
  - Select the **Show/Hide Filters** button

DATA POOL INGEST with EOS

Tue Sep 11 2007 13:45:48

### Historical Ingest Requests

Show/Hide Filters

Showing 1 - 20 of 707 Page size: 20

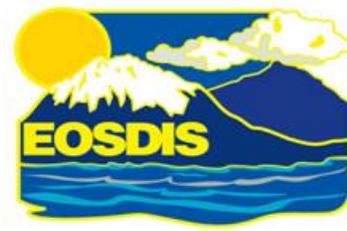
| RequestId | Status                                | Priority | Provider Name | Size    | No. Granules (No. Successful) | Ingest Method | When Queued         | When Proc. Started  | When Proc. Completed |
|-----------|---------------------------------------|----------|---------------|---------|-------------------------------|---------------|---------------------|---------------------|----------------------|
| 18527     | Cancelled<br><small>(Phase 4)</small> | HIGH     | 1@2.3         | 111.125 | 2(0)                          | DPL           | 2007-09-01 16:30:26 | 2007-09-01 16:30:29 |                      |
| 18523     | Failed                                | HIGH     | 1@2.3         | -0.000  | 1(0)                          | DPL           | 2007-08-31 00:56:58 |                     | 2007-08-31 00:56:58  |
| 18563     | Failed                                | HIGH     | 1@2.3         | -0.000  | 1(0)                          | DPL           | 2007-08-31 00:56:57 |                     | 2007-08-31 00:56:59  |
| 18565     | Failed                                | HIGH     | 1@2.3         | -0.000  | 1(0)                          | DPL           | 2007-08-31 00:57:07 |                     | 2007-08-31 00:57:15  |
| 18525     | Failed                                | HIGH     | 1@2.3         | 0.006   | 1(0)                          | DPL           | 2007-08-31 00:57:08 |                     | 2007-08-31 00:57:15  |
| 18567     | Failed                                | HIGH     | 1@2.3         | -0.000  | 1(0)                          | DPL           | 2007-08-31 00:56:58 |                     | 2007-08-31 00:57:15  |
| 18569     | Failed                                | HIGH     | 1@2.3         | -0.000  | 1(0)                          | DPL           | 2007-08-31 00:57:07 |                     | 2007-08-31 00:57:15  |
| 18571     | Failed                                | HIGH     | 1@2.3         | -0.000  | 1(0)                          | DPL           | 2007-08-31 00:57:08 |                     | 2007-08-31 00:57:22  |
| 18565     | Failed                                | HIGH     | 1@2.3         | -0.000  | 1(0)                          | DPL           | 2007-08-31 00:57:08 |                     | 2007-08-31 00:57:22  |

#### Historical Request Related Configuration

| Parameter Name                   | Parameter Description   | Parameter Value |
|----------------------------------|---|-----------------|
| MONTHS_TO_KEEP_HIST_STATS_ALERTS | The retention time in months to keep historic information for requests, alerts and processed statistics | 2               |

Apply Changes  Cancel Changes

# Monitoring Historical Requests (cont.)



- Procedure: Historical Ingest Request Detail Page

Historical Ingest Request Detail for RequestId 18565

Request Info [ Show / Hide ]

RequestID: 18565      Status: Failed      Priority: HIGH  
 Provider: 1@2.3      Size: 0.000 MB      No. Granules: 1 (0 processed)  
 Ingest Method: DPL      No. Files: 2

When Queued: 2007-08-31 00:57:07  
 When Processing Started:  
 When Processing Ended: 2007-08-31 00:57:15

Request Timings

| Time To Xfer | Time To Checksum | Time To Preprocess | Time To DPL Insert | Time To Archive |
|--------------|------------------|--------------------|--------------------|-----------------|
| 0            | -                | 0                  | -                  | 0               |

Status Change History

|                             |                     |
|-----------------------------|---------------------|
| Status Changed to New       | 2007-08-31 00:41:59 |
| Status Changed to Validated | 2007-08-31 00:57:07 |
| Status Changed to Failed    | 2007-08-31 00:57:15 |

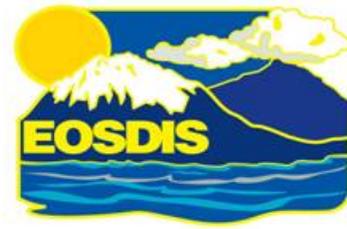
Request Notes

*There are no Request Notes for this request.*

Granule List      Showing 1 - 1 Of 1

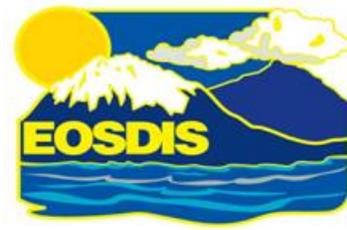
| Seq Number | Ingest Gran. ID | ECS Gran. ID | DPL Gran. ID | Data Type | Version | Status  | Granule Size (MB) | No. Files | Proc. Start | Proc. End | Total Proc. Time | Time To Checksum | Retry Count |
|------------|-----------------|--------------|--------------|-----------|---------|---------|-------------------|-----------|-------------|-----------|------------------|------------------|-------------|
| 1          | 5000000021393   |              |              | AE_RnGd   | 1       | InitErr | 0.085             | 0         |             |           |                  |                  |             |

# Monitoring Provider Status



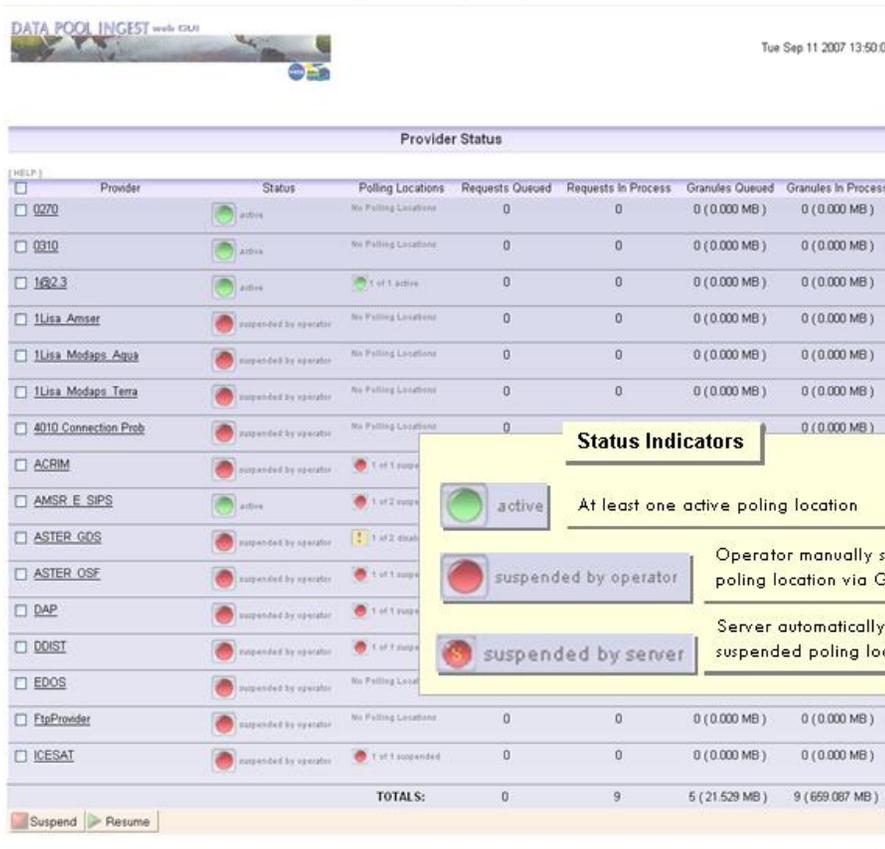
- **The Provider Status link provides access to the status and information about each configured data provider in the Ingest system:**
  - **Provides a list of all configured providers with general statistics for each provider.**
  - **Provides the status of the provider (i.e. Active, Suspended by Server, or Suspended by Operator).**
    - This is the only changeable field on this page. From this page a provider can be Resumed or Suspended.
  - **Provides individual status for polling locations (i.e., total number of active or suspended polling location).**
  - **Provides access to detailed provider status that shows individual status of each polling location associated with a provider.**
    - From this page, an individual polling location can be suspended or resumed, accordingly.

# Monitoring Provider Status (cont.)



- **Procedure:**

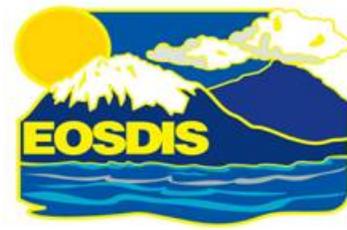
- Select the DPL Ingest GUI **Monitoring, Provider Status** link.
  - Provider Status Page displays.



| Provider Status      |                       |                      |                 |                     |                      |                       |  |
|----------------------|-----------------------|----------------------|-----------------|---------------------|----------------------|-----------------------|--|
| Provider             | Status                | Polling Locations    | Requests Queued | Requests In Process | Granules Queued      | Granules In Process   |  |
| 0270                 | active                | No Polling Locations | 0               | 0                   | 0 (0.000 MB)         | 0 (0.000 MB)          |  |
| 0310                 | active                | No Polling Locations | 0               | 0                   | 0 (0.000 MB)         | 0 (0.000 MB)          |  |
| 1023                 | active                | 1 of 1 active        | 0               | 0                   | 0 (0.000 MB)         | 0 (0.000 MB)          |  |
| 1Lisa_Amsar          | suspended by operator | No Polling Locations | 0               | 0                   | 0 (0.000 MB)         | 0 (0.000 MB)          |  |
| 1Lisa_Medaps_Aqua    | suspended by operator | No Polling Locations | 0               | 0                   | 0 (0.000 MB)         | 0 (0.000 MB)          |  |
| 1Lisa_Medaps_Terra   | suspended by operator | No Polling Locations | 0               | 0                   | 0 (0.000 MB)         | 0 (0.000 MB)          |  |
| 4010 Connection Preb | suspended by operator | No Polling Locations | 0               | 0                   | 0 (0.000 MB)         | 0 (0.000 MB)          |  |
| ACRIM                | suspended by operator | 1 of 1 suspended     |                 |                     |                      |                       |  |
| AMSR_E_SIPS          | active                | 1 of 2 suspended     |                 |                     |                      |                       |  |
| ASTER_GDS            | suspended by operator | 1 of 2 disabled      |                 |                     |                      |                       |  |
| ASTER_OSF            | suspended by operator | 1 of 1 suspended     |                 |                     |                      |                       |  |
| DAP                  | suspended by operator | 1 of 1 suspended     |                 |                     |                      |                       |  |
| DDIST                | suspended by operator | 1 of 1 suspended     |                 |                     |                      |                       |  |
| EDOS                 | suspended by operator | No Polling Locations |                 |                     |                      |                       |  |
| FileProvider         | suspended by operator | No Polling Locations | 0               | 0                   | 0 (0.000 MB)         | 0 (0.000 MB)          |  |
| ICESAT               | suspended by operator | 1 of 1 suspended     | 0               | 0                   | 0 (0.000 MB)         | 0 (0.000 MB)          |  |
| <b>TOTALS:</b>       |                       |                      | <b>0</b>        | <b>9</b>            | <b>5 (21.529 MB)</b> | <b>9 (669.087 MB)</b> |  |

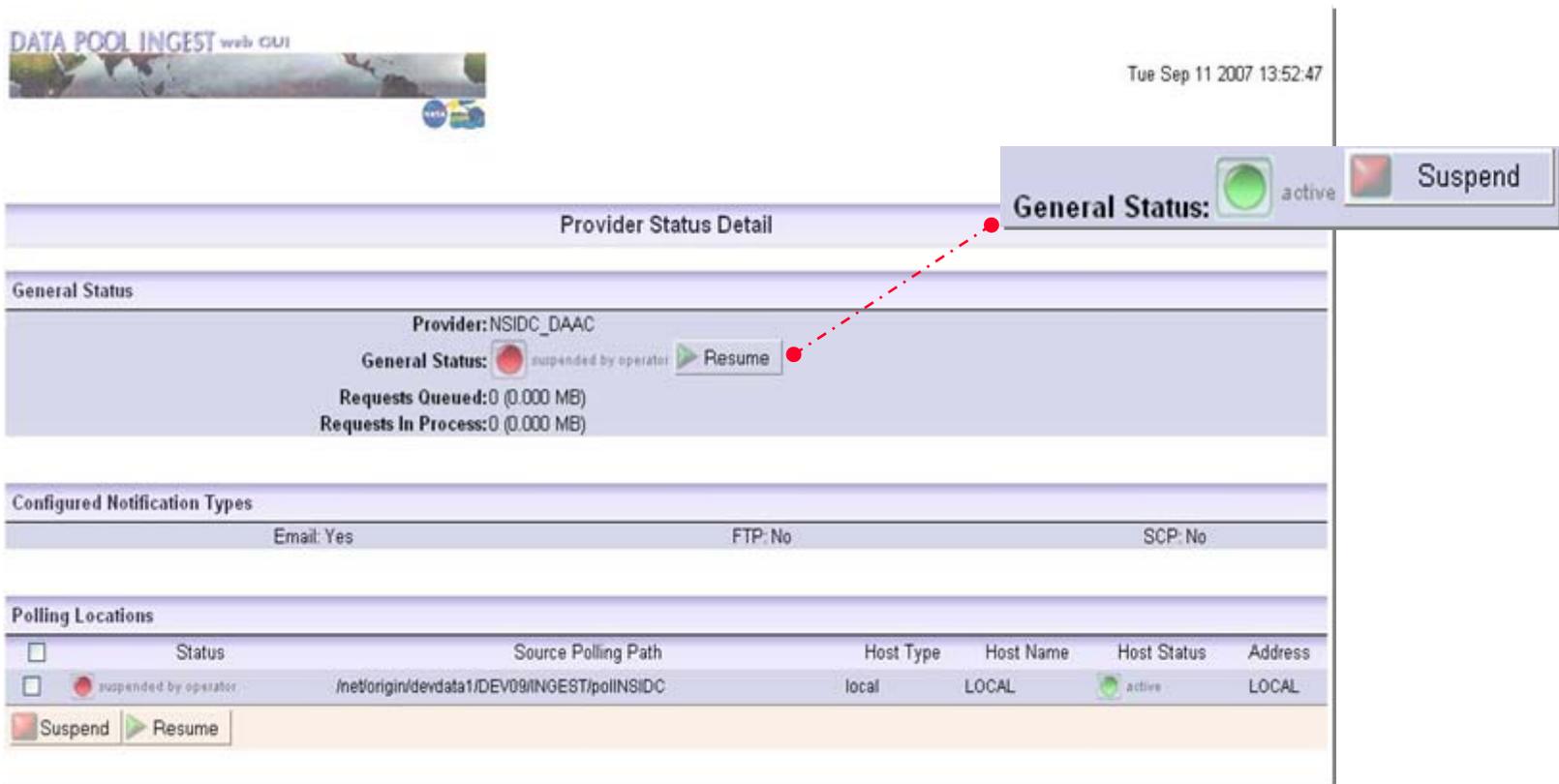
Suspend Resume

# Monitoring Provider Status (cont.)



- **Procedure: (cont.)**

- Click on any **Provider ID** to display **Provider Status Detail** page.



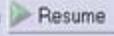
DATA POOL INGEST web GUI Tue Sep 11 2007 13:52:47

**Provider Status Detail**

**General Status:**  active  Suspend

**General Status**

Provider: NSIDC\_DAAC

**General Status:**  suspended by operator 

Requests Queued: 0 (0.000 MB)  
Requests In Process: 0 (0.000 MB)

**Configured Notification Types**

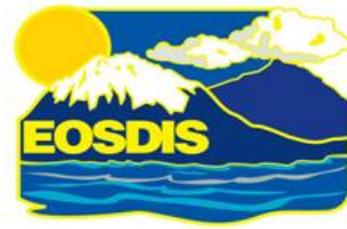
Email: Yes      FTP: No      SCP: No

**Polling Locations**

| <input type="checkbox"/> | Status  | Source Polling Path                         | Host Type | Host Name | Host Status  | Address |
|--------------------------|---|---|-----------|-----------|--|---------|
| <input type="checkbox"/> |  suspended by operator | /net/origin/devdata1/DEV09/INGEST/pollNSIDC | local     | LOCAL     |  active | LOCAL   |

 Suspend  Resume

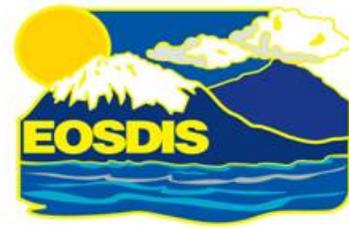
# Monitoring Provider Status (cont.)



- **Suspend/Resume Provider:**

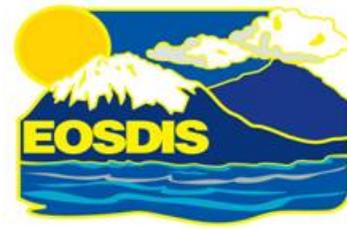
- **A Provider may be Suspended or Resumed from the Provider Status page.**
  - Suspending a Data Provider will stop the activation of Ingest Requests from that Provider.
    - **Ingest Requests that are already active will be completed.**
  - Ingest will also stop polling any of the Polling Locations associated with that Data Provider.
    - **No new Requests from that suspended Data Provider will be queued.**
    - **If a polling cycle is in progress, the cycle will be completed.**
  - Resuming a Provider will activate Ingest Requests from that provider.

# Monitoring Provider Status (cont.)



- **Suspend/Resume Polling Location:**
  - **A provider may be suspended or resumed from the Provider Status page.**
    - Suspending a Polling Location will stop the activation of Ingest Requests from location.
      - **Ingest Requests that are already active will be completed.**
    - Resuming a Polling Location will activate Ingest Requests from location.

# Monitoring File System Status



- **The File System Status page displays information on the Data Pool Archive File Systems and Data Pool File Systems:**
  - **Displays name(s) and directory paths for Archive and Data Pool File Systems.**
  - **Provides statuses of the Archive and Data Pool File Systems:**
    - Active, Suspended by Operator or Suspended by Server.
    - This is the only changeable field on this page.
    - From this page Archive and Data Pool File Systems can be Resumed or Suspended.
  - **Provides File System space threshold metrics.**

# Monitoring File System Status (cont.)



- **Procedure:**

- Select the DPL Ingest GUI Monitoring, File System Status link

DATA POOL INGEST web GUI Tue Sep 11 2007 13:54:34

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**File System Status**

[HELP]

**Data Pool File Systems**

| <input type="checkbox"/> | Name<br>Path                                    | Status | Free Space | Used Space<br>(Updated)        | Cache Used Alert Threshold | Queued Granules<br>Volume | Granules Processing<br>Volume |
|--------------------------|---|--------|------------|--------------------------------|----------------------------|---------------------------|-------------------------------|
| <input type="checkbox"/> | <b>DEFAULT</b><br>/data-pool/DEFAULT/ingest/FS1 | active | 175GB      | 52%<br>2007-09-11 13:49:20.908 | 92%                        | 5<br>21,829 MB            | 9<br>898,087 MB               |
| <input type="checkbox"/> | <b>FS2</b><br>/data-pool/FS2/ingest/FS2         | active | 232GB      | 36%<br>2007-09-11 13:49:20.892 | 92%                        | 0<br>0.000 MB             | 0<br>0.000 MB                 |

Suspend  Resume

---

**Archive File Systems**

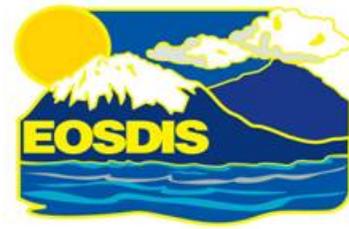
| <input type="checkbox"/> | Name<br>Path                                 | Status | Free Space | Used Space<br>(Updated)        | Cache Used Alert Threshold | Cache Used Suspend Threshold | Queued Granules<br>(Min-Max)<br>Volume (Min-Max) | Granules Processing<br>(Min-Max)<br>Volume (Min-Max) |
|--------------------------|--|--------|------------|--------------------------------|----------------------------|------------------------------|--|--|
| <input type="checkbox"/> | <b>ARCHIVES</b><br>/data-pool/archives       | active | 203GB      | 18%<br>2007-09-11 13:49:20.95  | 95%                        | 100%                         | 0 - 0<br>0.000 - 0.000MB                         | 0 - 0<br>0.000 - 0.000MB                             |
| <input type="checkbox"/> | <b>ARCHIVE8</b><br>/data-pool/archives/8     | active | 62GB       | 74%<br>2007-09-11 13:49:20.863 | 95%                        | 100%                         | 0 - 0<br>0.000 - 0.000MB                         | 0 - 0<br>0.000 - 0.000MB                             |
| <input type="checkbox"/> | <b>Archive1</b><br>/data-pool/archives/1     | active | 60GB       | 75%<br>2007-09-11 13:49:20.858 | 80%                        | 99%                          | 5 - 5<br>21,829 - 21,829MB                       | 9 - 9<br>898,087 - 898,087MB                         |
| <input type="checkbox"/> | <b>XMLArchive</b><br>/data-pool/archives/xml | active | 231GB      | 9%<br>2007-09-11 13:49:20.908  | 95%                        | 100%                         | 0 - 0<br>0.000 - 0.000MB                         | 0 - 0<br>0.000 - 0.000MB                             |

Suspend  Resume

---

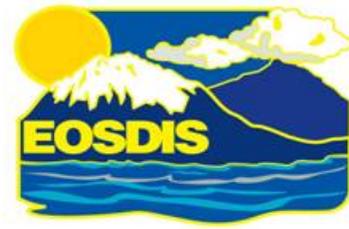
**Auto Refresh**  
OFF  
[off] [1m] [5m] [10m] [15m] [30m]

# Monitoring File System Status (cont.)



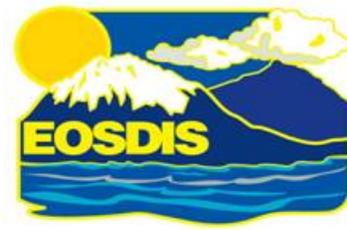
- **Procedure: Suspend/Resume File Systems**
  - **Data Pool File System and Archive File System can be suspended or resumed from the File System Status page.**
    - Suspending a File System will prevent the occurrence of any activity on the selected File System.
    - Resuming a File System will allow activity on a File System to resume.

# Monitoring Transfer Host Status



- **The Transfer Host Status page shows the statuses of each configured FTP and SCP hosts and status of Local transfers.**
  - These hosts can be suspended or resumed manually.
  - These hosts can be suspended or resumed by the Data Pool Ingest service.
  - An undefined host is generated when the system does not recognize the node name contained in the PDR.

# Monitoring Transfer Host Status (cont.)

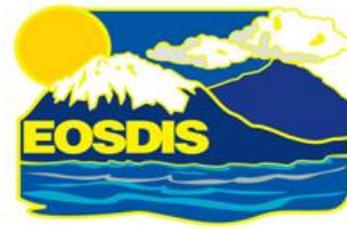


## • Procedure

- Select the DPL Ingest GUI **Monitoring, Transfer Host Status** link.
  - Displayed, Transfer Host Status Page and Field Descriptions.

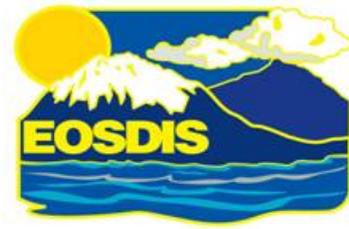
| Field Name          | Description   |
|---------------------|---|
| Host Label          | Label assigned to the host on which the polling location is found   |
| Address             | The I.P. address or the canonical name and port number of the host  |
| Read Status         | Whether or not read actions (such as polling location listings) are active, suspended by operator, or suspended by server on the host   |
| Write Status        | Whether or not write actions (such as transferring notifications) are active or suspended on the host   |
| Status by Provider: | <ul style="list-style-type: none"> <li>• <i>Provider Name</i>: Name of a provider with a polling location configured on the host.</li> <li>• <i>Read Status</i>: Whether or not read actions are active or suspended for a specific provider</li> <li>• <i>Write Status</i>: Whether or not write actions are active or suspended for a specific provider.</li> </ul> |

# Monitoring ECS Service Status



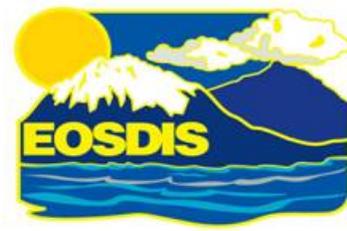
- **Non-host Services** - services that run on the same host as the Ingest processing service. Operator cannot suspend or resume these services.
- **The status columns show a green (active) or red (inactive) icon.**
  - **XML Validation Utility (XVU)** - service that validates incoming granule metadata files.
  - **Inventory Insert Utility (IIU)** - inserts granule metadata information into the AIM database.
  - **Data Pool Insert Utility (DPIU)** - registers granule metadata into the DPL database.

# Monitoring ECS Service Status (cont.)



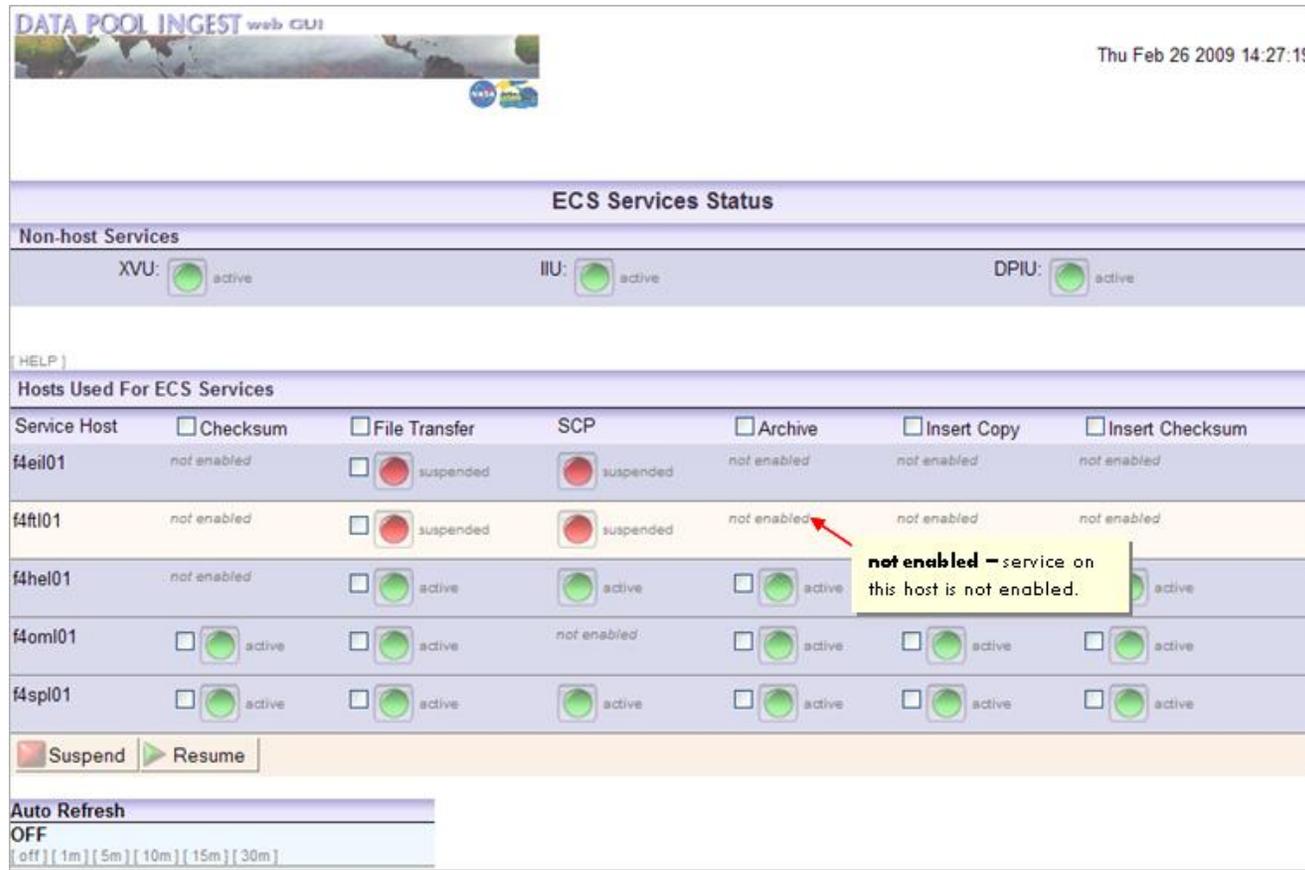
- **Host Used For ECS Services displays services tied to a specific host, of which each service can suspend or resume on that particular host:**
  - Checksum
  - File Transfer
  - Archive
  - Insert Copy
  - Insert Checksum
- **ECS Services can be configured to run on any number of hosts.**
- **The service on each host is independent of the same type of service on the other hosts.**

# Monitoring ECS Service Status (cont.)



- **Procedure:**

- Select the DPL Ingest GUI Monitoring, ECS Service Status link.



DATA POOL INGEST web GUI Thu Feb 26 2009 14:27:19

### ECS Services Status

Non-host Services

XVU:  active      IIU:  active      DPIU:  active

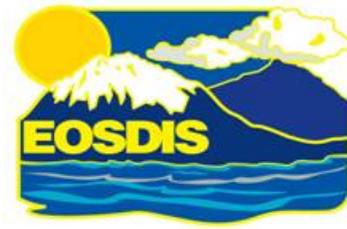
[ HELP ]

### Hosts Used For ECS Services

| Service Host | <input type="checkbox"/> Checksum                                   | <input type="checkbox"/> File Transfer                                 | SCP   | <input type="checkbox"/> Archive                                    | <input type="checkbox"/> Insert Copy                                | <input type="checkbox"/> Insert Checksum                            |
|--------------|---|--|---|---|---|---|
| f4eil01      | not enabled   | <input type="checkbox"/> <input checked="" type="checkbox"/> suspended | <input checked="" type="checkbox"/> suspended | not enabled   | not enabled   | not enabled   |
| f4ftl01      | not enabled   | <input type="checkbox"/> <input checked="" type="checkbox"/> suspended | <input checked="" type="checkbox"/> suspended | not enabled   | not enabled   | not enabled   |
| f4hel01      | not enabled   | <input type="checkbox"/> <input checked="" type="checkbox"/> active    | <input checked="" type="checkbox"/> active    | <input type="checkbox"/> <input checked="" type="checkbox"/> active | <input type="checkbox"/> <input checked="" type="checkbox"/> active | <input type="checkbox"/> <input checked="" type="checkbox"/> active |
| f4oml01      | <input type="checkbox"/> <input checked="" type="checkbox"/> active | <input type="checkbox"/> <input checked="" type="checkbox"/> active    | not enabled                                   | <input type="checkbox"/> <input checked="" type="checkbox"/> active | <input type="checkbox"/> <input checked="" type="checkbox"/> active | <input type="checkbox"/> <input checked="" type="checkbox"/> active |
| f4spl01      | <input type="checkbox"/> <input checked="" type="checkbox"/> active | <input type="checkbox"/> <input checked="" type="checkbox"/> active    | <input checked="" type="checkbox"/> active    | <input type="checkbox"/> <input checked="" type="checkbox"/> active | <input type="checkbox"/> <input checked="" type="checkbox"/> active | <input type="checkbox"/> <input checked="" type="checkbox"/> active |

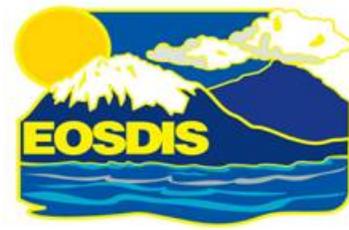
Auto Refresh  
OFF  
[ off ] [ 1m ] [ 5m ] [ 10m ] [ 15m ] [ 30m ]

# Monitoring PDR Lists



- **The PDR List page displays information retrieved from the Ingest database, listed by Polling Location Name and PDR File Name.**
  - **Once a provider removes the PDR for the provider polling server, the PDR list will be updated to reflect this change.**
  - **Selecting a PDR from the PDR List allows the operator to re-ingest the data from the selected polling location.**

# Monitoring PDR Lists (cont.)



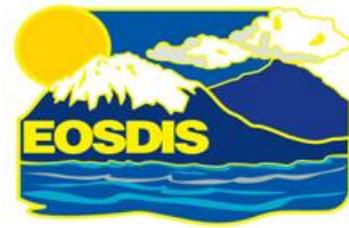
- **Procedure: Re-Ingest a PDR**

- Select the DPL Ingest GUI **Monitoring, PDR List** link
- Select the **PDR(s)** to be re-ingested, then click the **Ingest Selected PDRS Again** button.

The screenshot shows the "DATA POOL INGEST web GUI". At the top, there is a header with the text "DATA POOL INGEST web GUI" and a small NASA logo. Below the header is a purple bar with the text "PDR List". Underneath is a "PDR Filter Settings" section with a dropdown menu for "Data Providers" set to "ASTER" and an "Apply Filter" button. Below the filter settings, it says "showing 4 entries." and "PDR information retrieved from Ingest database". A table with 2 columns, "Polling Location Name" and "PDR File Name", contains 4 rows of data. At the bottom of the table is a button labeled "Ingest Selected PDRS Again" with a red 'X' icon. A red arrow points from a text box below to this button.

Click to re-ingest PDR information  
(corresponding to checked PDRs).

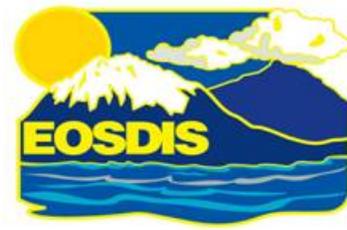
# Interventions & Alerts



- **The Interventions & Alerts link provides Operator access to Ingest Requests with open interventions.**
  - The operator may select any eligible request and either cancel or resume the request(s).
- **The Interventions & Alerts link displays Data Pool System Alerts as they are raised in the DPL database:**
  - Warns the Operator when the Ingest Service runs into a problem believed to be associated with a resource or service it is using.
  - After raising an alert, the Ingest Service will check in regular intervals whether the problem has been resolved and clear the alert.
  - An alert may also be cleared manually once the Operator determined that the problem has been resolved.
  - Manually restoring service helps Operator to avoid waiting until the next auto-retry of resources.

# Interventions & Alerts

## Open Interventions



- **Procedure**

- Select the **Interventions and Alerts, Interventions** link.

The screenshot displays the "Open Interventions" web interface. At the top, there is a "Combined Filter Settings" section with dropdown menus for "Data Provider", "Intervention Type", and "Target Archive", all set to "SHOW ALL". Below this are buttons for "Apply Filter" and "Load Default Settings".

The main section is "Open Intervention Management", which includes a table of interventions. The table has columns for "Request ID", "Provider", "Intervention Type", "Worker", "When Created", and "When Acknowledged". Two rows are visible: one for Request ID 16605 (PreprocErr) and one for Request ID 14918 (XferErr). Below the table are buttons for "Cancel Requests", "Resume Requests", and "Restart Requests".

Below the table is the "Intervention Related Configuration" section, which contains a table of parameters and their values. The parameters are "NOTIF\_INTERV\_EMAIL\_ADDRESS" (value: cmshared@Neil01.hitc.c) and "SEND\_INTERVENTION\_EMAILS" (value: checked). There are buttons for "Apply Changes" and "Cancel Changes".

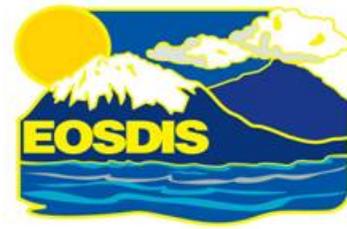
At the bottom left, there is an "Auto Refresh" section with a dropdown menu set to "OFF".

Annotations in the image include:

- A callout box pointing to the "When Created" column header: "Click to sort in (▲)Ascending or (▼)Descending on this column by creation date – for this session only."
- A callout box pointing to the "Restart Requests" button: "Click to apply action to 'active' requests."
- A callout box pointing to the "Cancel Requests" button: "This box appears to capture reason for status change (i.e., 'Cancel Requests' for Request ID 14918)."
- A callout box pointing to the "Continue to Cancel Requests" button: "File size error needs review. Request will be cancelled and resubmitted later."

# Interventions & Alerts

## Open Interventions (cont.)

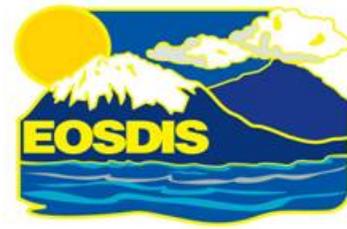


- **Open Interventions Management Field Descriptions**

| Field Name                                | Description  |
|---|--|
| Request ID                                | Unique Data Pool Ingest identifier assigned to the request in intervention   |
| Provider                                  | Name of the provider from which the request was obtained   |
| Intervention Type                         | Type of error encountered during processing of at least one of the request granules (if there are multiple error types encountered in a single request, the type will be "MULTIPLE")         |
| Worker                                    | Name of a worker assigned to address the intervention  |
| When Created                              | Time the intervention was generated (which may have been after several retries after the error was first encountered)  |
| When Acknowledged                         | Time the intervention was first viewed by an operator  |
| <b>Intervention Related Configuration</b> |  |
| Parameter Name                            | SEND_INTERVENTION_EMAIL. Indicates whether to send an Email for Intervention NOTIFY_INTERV_EMAIL_ADDRESS. Email address for sending Operator Intervention and Alerts.                        |
| Parameter Description                     | Indicates whether to send an Email for Intervention. Email address for sending Operator Intervention and Alerts.   |
| Parameter Value                           | SEND_INTERVENTION_EMAIL. Contains a checkbox to apply or change this parameter NOTIFY_INTERV_EMAIL_ADDRESS. Textbox to enter an Email address for sending Operator Interventions and Alerts. |

# Interventions & Alerts

## Open Interventions (cont.)



- **Procedure: Change E-mail Configuration**

- Enter the e-mail address in the **NOTIFY\_INTERV\_EMAIL\_ADDRESS**.
- Click in **SEND\_INTERVENTION\_EMAIL** checkbox, then click the **Apply Changes** button.

| Intervention Related Configuration |   |  |
|------------------------------------|---|--|
| Parameter Name                     | Parameter Description                                       | Parameter Value                                  |
| NOTIF_INTERV_EMAIL_ADDRESS         | Email address for sending operator interventions and alerts | <input type="text" value="cmops_edf@yahoo.com"/> |
| SEND_INTERVENTION_EMAILS           | Indicates whether to send an email for interventions        | <input checked="" type="checkbox"/>              |

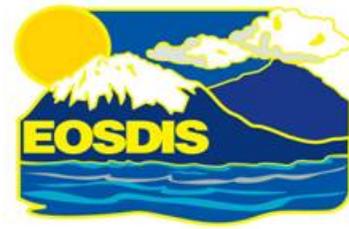
Apply Changes  Cancel Changes

- **Procedure: Cancel/Resume Request**

- In the **Open Intervention Management** section, click checkbox of the request to be resumed/cancelled.
- Click the **Resume** button.
  - Processing for all granules currently suspended will be resumed.
- Click the **Cancel** button
  - Processing for all granules will be terminated, which is irreversible.

# Interventions & Alerts

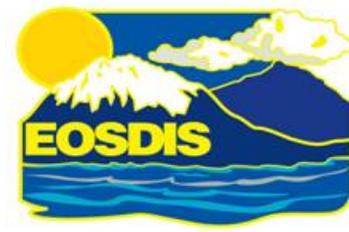
## Open Interventions (cont.)



- **The Interventions Detail page allows the Operator to take action on specific granules that have been intervened.**
  - **In the Open Intervention Management section, after Operator clicks the request to be resumed/cancelled:**
    - The Request information contained in the Open Intervention page is listed at the top of the page
    - A list of granule(s), with detailed information is displayed at the page bottom.
  - **An Operator Intervention remains open as long as there are suspended granules.**
  - **Once all granules issues have been resolved, the Operator Intervention status will automatically be removed.**

# Interventions & Alerts

## Open Interventions (cont.)



- **Procedure: Detail Page Display**

- Select the **Interventions and Alerts, Interventions** link.
- Click a **Request ID** to display the **Open Interventions Details Page**

**Open Intervention Detail**

**Intervention Info** [ Show / Hide ]

RequestID: 14921 [ view details ]      Status: Suspended      Priority: NORMAL  
 Provider: JPL      Size: 24 586 MB      No. Granules: 4 (0% complete)  
 Intervention Type: MULTIPLE  
 Worked By: James Pino [ ok ] Update Worker

[ Show / Hide ] link to display or collapses the Intervention Info section of the details page.

Intervention Creation Date/Time: 2006-10-30 11:53:51  
 Intervention Acknowledgement Date/Time: 2006-10-30 11:54:58  
 When Queued: 2006-10-30 11:53:42  
 When Processing Started: 2006-10-30 11:53:44

**Ingest Request Detail**

Request ID: 10390      Status: Suspended      Priority: HIGH  
 PDR Path and file name: /datapool/OPS/user/FS1/ingest/14921/1500000006388/4096\_3

[ view details ]

Operator Notes

Added 2006-10-30 11:56:05 by IngAdmin  
 Multiple errors encountered during request processing. Assigned to James Pino for analysis. Granules will be cancelled and resubmitted pending approval by supervisor.

Added 2006-10-30 12:06:20 by IngAdmin  
 It has been decided that the granules cannot be processed and will be failed instead of cancelled.

[ Add annotation... ] link to display a time stamped (with OperatorID) annotation textbox for Notes.

Request Notes [help]  
 There are no Request Notes for this request.

**Granule action buttons:**

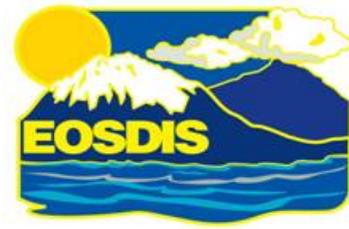
Retry Selected Granules    Retry From START Selected Granules    Fail Selected Granules    Cancel Selected Granules

| File Detail   | Seq Number | Ingest Gran. ID | Data Type | Version | Status              | Granule Size (MB) | No. Files | Processing Start    | Processing End      |
|---|------------|-----------------|-----------|---------|---------------------|-------------------|-----------|---------------------|---------------------|
| [showhide]  | 1          | 1500000006388   | MOD29P1D  | 86      | Suspended (DataErr) | 6.148             | 2         | 2009-02-03 17:04:38 | 2009-02-03 17:04:45 |
| Error executing the following copy command: /usr/ecs/OPS/CUSTOM/bin/DPL/ECDCopyExec /home/cmshared/PDRS/scripts/TEMP/OPS/Critena_1420_MOD_01_1162227189_55036_RGEN.hdf.met /datapool/OPS/user/FS1/ingest/14921/1500000006388/4096_3 |            |                 |           |         |                     |                   |           |                     |                     |
| [showhide]  | 3          | 1500000006390   | MOD29P1D  | 86      | Successful          | 6.148             | 2         |                     |                     |
| [showhide]  | 4          | 1500000006391   | MOD29P1D  | 86      | Successful          | 6.144             | 2         |                     |                     |
| [showhide]  | 2          | 1500000006389   | MOD29P1D  | 86      | PreprocErr          | 6.144             | 2         | 2009-02-03 17:12:46 |                     |
| Metadata validation failed with error: Metadata validation failed with reason: Error obtaining INVENTORYMETADATA from the descriptor, Failed by Operator  |            |                 |           |         |                     |                   |           |                     |                     |

[showhide] link to display or hide details of granules that have not reached terminal state for action.

# Interventions & Alerts

## Open Interventions (cont.)

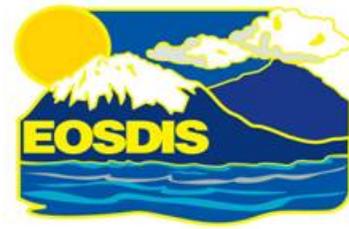


- **Changing Granule Status:**

- A list of granule(s) along with detailed information is displayed at the bottom of the Open Intervention page.
- An Operator Intervention remains open as long as there are suspended granules.
- The operator can take one of several actions to ‘close’ interventions:
  - Suspended granules can be failed.
  - Suspended granules can be retried in one of two ways:
    - **Retry Granules:** granule is retried from the last point of processing.
    - **Retry Granules From Start:** granule is retried from the start of processing, no matter where in the processing chain it failed.
  - Suspended granule(s) can be canceled.

# Interventions & Alerts

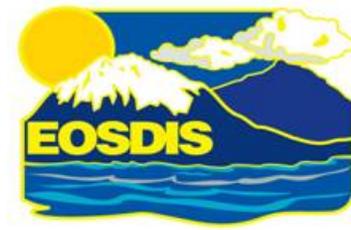
## Open Interventions (cont.)



- **Procedure: Changing Granule Status**
  - Select the **Interventions and Alerts, Interventions** link.
  - Click a **Request ID** to display the **Open Interventions Details Page**.
  - Click on the appropriate button:
    - **Fail Selected Granules.**
    - **Retry Selected Granules.**
    - **Retry Selected Granules From the Start.**
    - **Cancel Selected Granules.**

# Interventions & Alerts

## Alerts



- Procedure: Viewing System Alerts
  - Select the **Interventions and Alerts, Alerts** link

DATA POOL INGEST web GUI Thu Feb 5 2009 13:21:56

---

**Alerts**

This panel shows the current filter settings.

**Combined Filter Settings**

Alert Type: -- SHOW ALL --

Resource Type: -- SHOW ALL --

Save as default settings [ HELP ]

**Alert Management**

| <input type="checkbox"/> | Alert Details | Alert Description                      | Alert Type          | Resource | Resource Type | Server Name | Creation Time       |
|--------------------------|---------------|--|---------------------|----------|---------------|-------------|---------------------|
| <input type="checkbox"/> | [show/hide]   | Failure to connect with an ECS service | SRVC_CANNOT_CONNECT | HH01     | FILE_TRANSFER | Processing  | 2007-01-30 16:21:54 |

Clears selected Alert.

**Alert Related Configuration**

| Parameter Name      | Parameter Description                            | Parameter Value                     |
|---------------------|--|-------------------------------------|
| ALERT_EMAIL_ADDRESS | Email address to which alert emails will be sent | cmshared@Heil01.hitc.d              |
| SEND_ALERT_EMAILS   | Indicates whether sending alert emails is active | <input checked="" type="checkbox"/> |

**Alert Details**

| Alert Details            | Alert Description | Alert Type  | Resource    | Resource Type | Creation Time   |
|--------------------------|-------------------|---|-------------|---------------|-----------------|
| <input type="checkbox"/> | [ Show / Hide ]   | The error response indicates that the file system is down | DPL_FS_DOWN | FS3           | DPL_FILE_SYSTEM |

Symptom : Error DPL file system: /datapool/DEV01/user/FS3/ is down.

Impact :

- Data Providers affected : None
- Number of PDRs : 0
- Number of granules : 0
- Total amount of data queued : 0.000 MB
- Total amount of data processing : 0.000 MB

If Resource Type is an archive or file system, link displays/toggles additional details related by the alert condition.

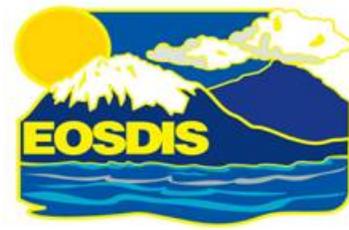
**Auto Refresh**

OFF

[ off ] [ 20s ] [ 30s ] [ 1m ] [ 5m ] [ 10m ] [ 15m ] [ 30m ]

# Interventions & Alerts

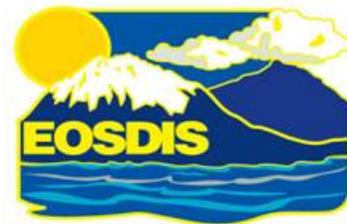
## Alerts (cont.)



- **Procedure: Viewing System Alerts (cont.)**
  - **Alert Management section of page:**
    - **Alert Details** – Show/Hide link to display alert information.
    - **Alert Description** – describes error that generated alert.
    - **Alert Type** – unique name for error type.
    - **Resource** – resource name affected by alert.
    - **Resource Type** – such as SCP/FTP Host, Polling Location or Archive.
    - **Server Name** – server affected by alert.
    - **Creation Time** – time alert was generated.
  - **Alert Related Configuration section of page:**
    - Parameter Name
    - Parameter Description
    - Parameter Value

# Interventions & Alerts

## Alerts (cont.)

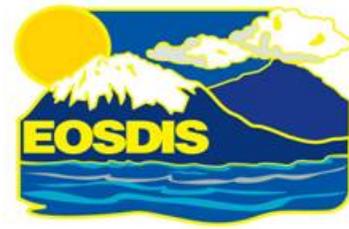


- **Procedure: Change Alert Email Configuration**
  - Enter the email address in the **ALERT\_EMAIL\_ADDRESS**.
  - Click on **SEND\_ALERTS\_EMAIL** field, then click **Apply Changes** button.
- **Procedure: Viewing Detail System**
  - Select the **Interventions and Alerts, Alerts** link
  - Click **Show/Hide** button display **Detailed Alert Information:**  
NOTE: If Resource Type is an archive or file system, these alert details are displayed:
    - Symptom
    - Data Providers affected
    - Number of PDRs
    - Number of Granules
    - Total amount of data queued
    - Total amount of data processing

| Alert Details                             | Alert Description  | Alert Type  | Resource | Resource Type   | Creation Time       |
|---|--|-------------|----------|-----------------|---------------------|
| <input type="checkbox"/> <b>Show/Hide</b> | The error response indicates that the file system is down<br>Symptom : Error DPL file system: /datapool/DEV01/user/FS3/ is down.<br>Impact :<br>Data Providers affected : None<br>Number of PDRs : 0<br>Number of granules : 0<br>Total amount of data queued : 0.000 MB<br>Total amount of data processing : 0.000 MB | DPL_FS_DOWN | FS3      | DPL_FILE_SYSTEM | 2006-10-27 08:44:21 |

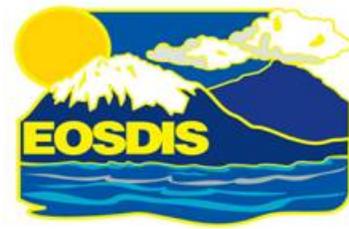
# Interventions & Alerts

## Alerts (cont.)



- **Procedure: Clearing an Alert**
  - Select the **Interventions and Alerts, Alerts** link.
  - Click **Alert(s)** to be cleared.
  - Click the **Close Alert** button.
  - Click **OK** at the Confirmation prompt.

# DPL Ingest Configuration



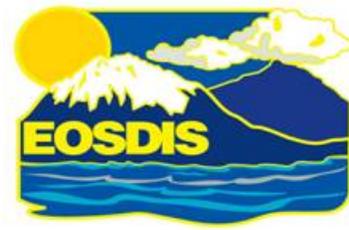
- The DPL Ingest Configuration pages provide the full-capability Operator the ability to modify, if necessary, values assigned to DPL Ingest configuration parameters:
  - Providers
  - Data Types
  - Transfer Hosts
  - File Systems
  - ECS Services
  - Global Tuning
  - Volume Groups
  - Operators

The screenshot shows the "DATA POOL INGEST web GUI" interface. At the top right, the date and time "Thu Feb 1 2007 13:52:43" are displayed. The main content area is titled "Provider Configuration" and contains a table with the following columns: Provider, Checksum Mandatory, % Files To Checksum, Default Priority, and Notification Method. Each row represents a different provider with its corresponding settings. At the bottom of the table, there are two buttons: "Remove Selected Providers" and "Add A Provider..."

| <input type="checkbox"/> | Provider                             | Checksum Mandatory                  | % Files To Checksum | Default Priority | Notification Method |
|--------------------------|--------------------------------------|-------------------------------------|---------------------|------------------|---------------------|
| <input type="checkbox"/> | <a href="#">AMSR_E_SIPS</a>          | <input checked="" type="checkbox"/> | 100%                | NORMAL           | FTP                 |
| <input type="checkbox"/> | <a href="#">ASTER_GDS</a>            | <input checked="" type="checkbox"/> | 100%                | VHIGH            | EMAIL               |
| <input type="checkbox"/> | <a href="#">ASTER_OSF</a>            | <input checked="" type="checkbox"/> | 100%                | NORMAL           | FTP                 |
| <input type="checkbox"/> | <a href="#">DDIST</a>                | <input checked="" type="checkbox"/> | 100%                | NORMAL           | EMAIL               |
| <input type="checkbox"/> | <a href="#">ECSBulkExport</a>        | <input checked="" type="checkbox"/> | 0%                  | VHIGH            | EMAIL               |
| <input type="checkbox"/> | <a href="#">EDOS</a>                 | <input checked="" type="checkbox"/> | 100%                | VHIGH            | EMAIL               |
| <input type="checkbox"/> | <a href="#">ICESAT</a>               | <input checked="" type="checkbox"/> | 100%                | NORMAL           | FTP                 |
| <input type="checkbox"/> | <a href="#">JPL</a>                  | <input checked="" type="checkbox"/> | 100%                | NORMAL           | FTP                 |
| <input type="checkbox"/> | <a href="#">MODAPS_AQUA_FPROC</a>    | <input checked="" type="checkbox"/> | 100%                | NORMAL           | EMAILFTP            |
| <input type="checkbox"/> | <a href="#">MODAPS_COMBINE_FPROC</a> | <input checked="" type="checkbox"/> | 100%                | NORMAL           | FTP                 |
| <input type="checkbox"/> | <a href="#">MODAPS_TERRA_FPROC</a>   | <input checked="" type="checkbox"/> | 100%                | NORMAL           | EMAIL               |
| <input type="checkbox"/> | <a href="#">NSIDC_DAAC</a>           | <input checked="" type="checkbox"/> | 100%                | NORMAL           | EMAIL               |
| <input type="checkbox"/> | <a href="#">S4POD</a>                | <input checked="" type="checkbox"/> | 100%                | NORMAL           | EMAIL               |

# DPL Ingest Configuration

## Modify Configuration Providers

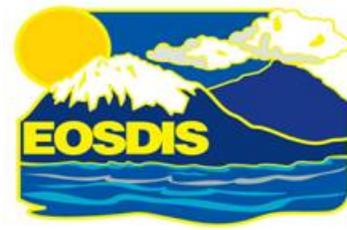


- The Provider Configuration page lists all of the Data Providers for the DPL Ingest System, with the following selected attributes for each Provider
  - Checksum Mandatory
  - % Files To Checksum
  - Default Priority
  - Notification Method
- Providers parameters can be selected, edited and removed:

| Field Name          | Entry    | Description  |
|---------------------|----------|--|
| Name                | Required | Name for an external data provider   |
| ProviderType        | Required | Indicates the type of the provider (such as Polling with DR, Polling without DR, EDOS) |
| Checksum Mandatory  | Optional | Indicates that the Data Provider <i>must</i> provide checksum information in the PDR.  |
| % Files to Checksum | Required | Percent of requests to checksum for this provider                                      |
| Default Priority    | Required | Default priority for ingest requests for this provider                                 |

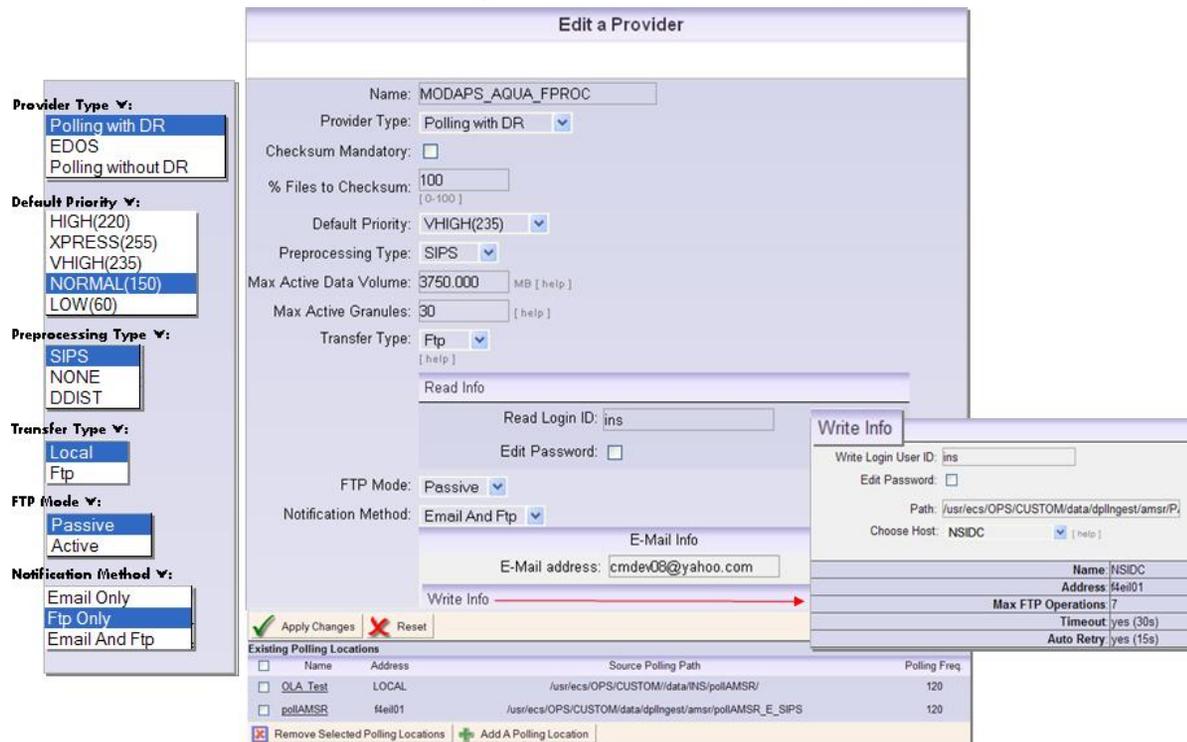
# DPL Ingest Configuration

## Modify Configuration Providers (cont.)



- **Procedure: Edit Provider**

- Select the **Configuration, Providers** link.
- Click the **Provider ID** on the Provider Configuration page.
- Click the **parameter**, make change, then click **Apply Changes** button.
- Select **OK**.



**Provider Type** ▼:

- Polling with DR
- EDOS
- Polling without DR

**Default Priority** ▼:

- HIGH(220)
- XPRESS(255)
- VHIGH(235)
- NORMAL(150)
- LOW(60)

**Preprocessing Type** ▼:

- SIPS
- NONE
- DDIST

**Transfer Type** ▼:

- Local
- Ftp

**FTP Mode** ▼:

- Passive
- Active

**Notification Method** ▼:

- Email Only
- Ftp Only
- Email And Ftp

**Edit a Provider**

Name: MODAPS\_AQUA\_FPROC

Provider Type: Polling with DR

Checksum Mandatory:

% Files to Checksum: 100 [0-100]

Default Priority: VHIGH(235)

Preprocessing Type: SIPS

Max Active Data Volume: 3750.000 MB [help]

Max Active Granules: 30 [help]

Transfer Type: Ftp [help]

**Read Info**

Read Login ID: ins

Edit Password:

FTP Mode: Passive

Notification Method: Email And Ftp

E-Mail Info

E-Mail address: cmdev08@yahoo.com

**Write Info**

Write Login User ID: ins

Edit Password:

Path: /usr/ecs/OPS/CUSTOM/data/dplngest/amsr/P/

Choose Host: NSIDC [help]

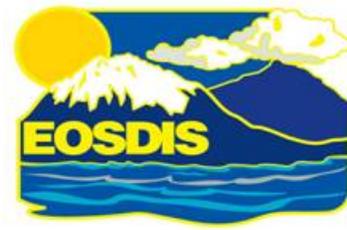
| Name     | Address | Source Polling Path                                    | Polling Freq |
|----------|---------|--|--------------|
| OLA_Test | LOCAL   | /usr/ecs/OPS/CUSTOM/data/INS/pollAMSR/                 | 120          |
| pollAMSR | file01  | /usr/ecs/OPS/CUSTOM/data/dplngest/amsr/pollAMSR_E_SIPS | 120          |

Apply Changes  Reset

Remove Selected Polling Locations  Add A Polling Location

# DPL Ingest Configuration

## Modify Configuration Providers (cont.)



- **Procedure: Edit Polling Location**
  - Select the **Configuration, Providers** link.
  - Click on the **Provider ID**.
  - At bottom of information panel, click the **Polling Location Name**.
  - Update information and click the Apply Changes button
  - Select **OK** at the Confirmation prompt.

The screenshot displays the 'Edit a Polling Location' web interface. The main form is titled 'Edit a Polling Location' and contains the following fields:

- Parent Provider: AMSR\_E\_SIPS
- Polling Location Name: OLA\_Test
- Source Polling Path: /usr/ecs/OPS/CUSTOM/data/INS/pc
- Polling Frequency: 120 (seconds)
- DPL Ingest Enabled:
- Polling Method: FTP Host
- Host Name: Define New Host...

Below these fields is the 'New Host Parameters' section with the following fields:

- Label: [ ]
- Address: [ ]
- Max. Operations: 5
- Timeout:  (enable host timeout)
- Expected Throughput: 3.000 (Minimum expected throughput, in MB/s)
- Pad Time: 30 (seconds)
- Auto Retry:  (enable automatic retry when Host is suspended)
- Retry Interval: 120 (seconds)

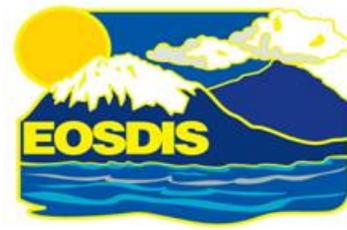
At the bottom of the main form are 'Apply Changes' and 'Reset' buttons. An inset window titled 'Existing Host Parameters' is overlaid on the main form, showing the parameters for the selected host:

| Existing Host Parameters |           |
|--------------------------|-----------|
| Host Name:               | NSIDC     |
| Name:                    | NSIDC     |
| Address:                 | f4eil01   |
| Max FTP Operations:      | 7         |
| Timeout:                 | yes (30s) |
| Auto Retry:              | yes (15s) |

The inset window also has 'Apply Changes' and 'Reset' buttons at the bottom.

# DPL Ingest Configuration

## Modify Configuration Providers (cont.)



- New Providers are added by clicking the Add Provider button.
- Procedure: Add a Provider

Provider Configuration page, at bottom – options to Remove or Add a Provider

Remove Selected Providers Add A Provider...

### Add a Provider

**Provider Type:** Polling with DR  
EDOS  
Polling without DR

**Default Priority:** HIGH(220)  
XPRESS(255)  
VHIGH(235)  
NORMAL(150)  
LOW(60)

**Preprocessing Type:** SIPS  
NONE  
DDIST

**Transfer Type:** Local  
Ftp  
Scp using F-Secure and no cipher  
Scp using OpenSSH and cipher aes128  
Scp using OpenSSH and cipher des

**FTP Mode:** Passive  
Active

**Notification Method:** Email Only  
Ftp Only  
Email And Ftp  
Scp Only  
Email And Scp

Name: \_\_\_\_\_

Provider Type: Polling with DR

Checksum Mandatory:

% Files to Checksum: 0 [0-100]

Default Priority: VHIGH(235)

Preprocessing Type: SIPS

Max Active Data Volume: 0.000 MB [help]

Max Active Granules: 0 [help]

Transfer Type: Local [help]

FTP Mode: Passive

Notification Method: Email Only

**Write Info**

Write Login User ID: \_\_\_\_\_

Write Login Password: \_\_\_\_\_

Confirm Write Login Password: \_\_\_\_\_

Path: \_\_\_\_\_

Choose Host: Define New Host [help]

**New Host Parameters**

Label: Hcp01 [the label for this host]

Address: \_\_\_\_\_ [the DNS name or IP address and port]

Max. Operations: 5 [max. concurrent Operations]

Timeout:  enable host timeout

Expected Throughput: 3 000 [Minimum expected throughput, in MB/s]

Pad Time: 30 [seconds]

Auto Retry:  enable automatic retry when host is suspended

Retry Interval: 120 [seconds]

**Read Info**

Read Login ID: \_\_\_\_\_ [help]

Read Login Password: \_\_\_\_\_ [help]

Confirm Read Login Password: \_\_\_\_\_

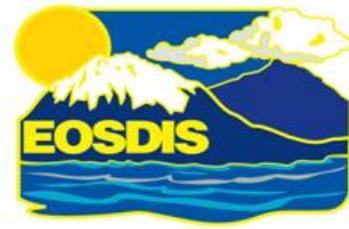
**E-Mail Info**

E-Mail address: \_\_\_\_\_

Add This Provider Reset

# DPL Ingest Configuration

## Modify Configuration Providers (cont.)

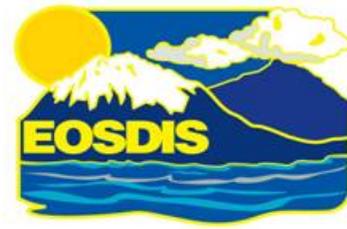


- **Procedure: Add a Provider (cont.)**

- At **Add a Provider** page, populate fields:
  - Enter a unique **Name**.
  - Select **Provider Type** from list. Automatic updates parameters fields.
  - Click **Checksum Mandatory** checkbox.
  - Enter **% Files To Checksum**.
  - Enter **Default Priority**:
    - Low, Normal, High, VHigh, Xpress
  - Select **Preprocessing Type**:
    - NONE
    - SIPS
    - DDIST
- Enter **Max Active Data Volume**
- Enter **Max Active Granules**

# DPL Ingest Configuration

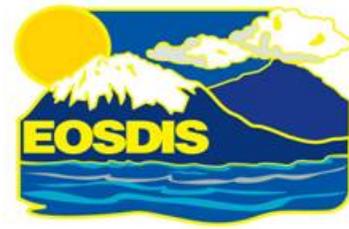
## Modify Configuration Providers (cont.)



- **Procedure: Add a Provider (cont.)**
  - Select **Transfer Type**.
  - Select **FTP Mode**.
  - Select **Notification Method**:
    - Email Only
    - FTP Only or SCP Only
    - FTP Host
    - Local
  - Enter **E-Mail address**.
  - Click the **Add This Provider** button.
  - Click **OK** to confirm input.

# DPL Ingest Configuration

## Modify Configuration Providers (cont.)

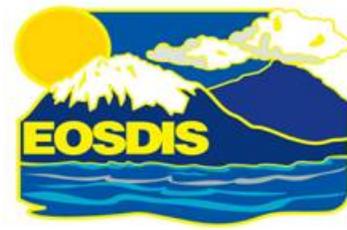


- **Procedure: Add a Polling Location**

- Select the Provider name
- Scroll to the bottom of the page and select the Add A Polling Location button
- Enter the Polling Location Name
- Enter the Source Polling Path
- Enter the Polling Frequency
- Choose the Polling Method
  - Local Disk, FTP Host, SCP Host
- Enter New Host Parameters
  - Label, Address
- Select Add Polling Location button
- Select OK to the Confirmation prompt

# DPL Ingest Configuration

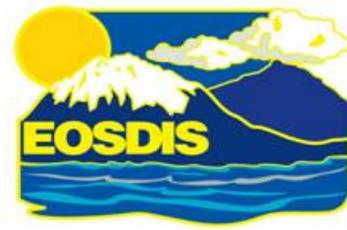
## Data Type Configuration



- Any ECS collection is eligible for DPL ingest.
- Ability to configure whether to publish the granules for collection and/or to ignore XML metadata validation warnings during ingest.
- Data Type Configuration page field descriptions:

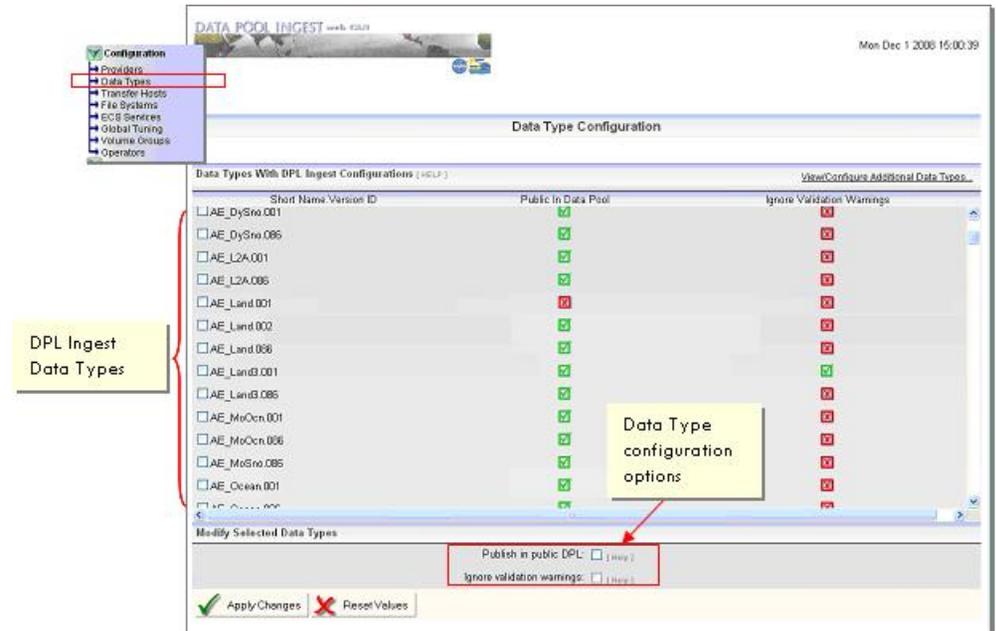
| Field Name                 | Entry        | Description  |
|----------------------------|--------------|--|
| Short Name.Version ID      | Not Editable | Data Type identifier. Version number of the data type (the identifier and version id is separated by a period)   |
| Public In Data Pool        | Optional     | Indicates whether or not to “publish data” for this data type in the public Data Pool following successful Ingest.   |
| Ignore Validation Warnings | Optional     | If a granule of a given data type has metadata validation warnings, indicates whether or not to send email notifications and save metadata file to a holding directory.. |

# DPL Ingest Configuration Data Type Configuration



- **Procedure: Managing Data Type Attributes**

- Select the **Configuration, Data Types** link.
- Click the checkbox of the **Short Name Version ID**.
- At page bottom, make the desired parameter changes:
  - Select **Publish in public DPL**.
  - Select **Ignore validation warnings**, if XML validation warnings are to be ignored .
- Select **Apply Changes** button.
- Select **OK** at the confirmation **prompt**.



The screenshot displays the 'DATA POOL INGEST' Data Type Configuration interface. The main table lists various data types with their respective configurations. A sidebar on the left shows the navigation menu with 'Data Types' selected. A yellow box highlights the 'DPL Ingest Data Types' section. A red box highlights the 'Publish in public DPL' and 'Ignore validation warnings' options at the bottom. A yellow box highlights the 'Data Type configuration options' section.

| Short Name/Version ID                 | Public in Data Pool                 | Ignore Validation Warnings          |
|---------------------------------------|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> AE_DySno.001 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_DySno.005 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_L2A.001   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_L2A.005   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Land.001  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Land.002  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Land.008  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Land3.001 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Land3.005 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_MoOcn.001 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_MoOcn.006 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_MoSno.005 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.001 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.002 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.003 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.004 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.005 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.006 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.007 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.008 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.009 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.010 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.011 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.012 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.013 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.014 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.015 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.016 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.017 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.018 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.019 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> AE_Ocean.020 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Modify Selected Data Types

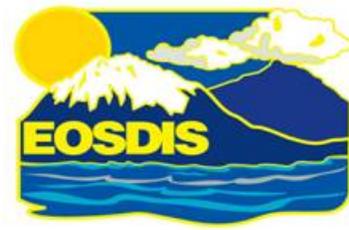
Publish in public DPL:  (help)

Ignore validation warnings:  (help)

Apply Changes | Reset Values

# DPL Ingest Configuration

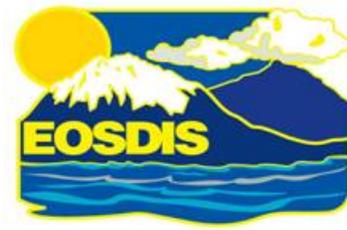
## Transfer Host Configuration



- **The Configuration Transfer Host link allows the Operator to manage SCP and FTP hosts for general use in the Data Pool Ingest system.**
- **If the host IP addresses are referenced within PDRs as the source locations for granule files, DPL Ingest will automatically refer to their definition to obtain time out and retry parameters**
- **The Ingest Operator is able to define default time-out and retry parameters for SCP or FTP hosts**
- **If a request is sent through processing with a host configured in the PDR that does not show up on the GUI, a new host will automatically be added**
  - **Default host configuration parameters will be applied to the new host until the operator chooses to modify them**

# DPL Ingest Configuration

## Transfer Host Configuration (cont.)



- **Host Configuration Page:**

| Host Configuration   |         |                 |                     |  |                     |
|--|---------|-----------------|---------------------|--|---------------------|
| <a href="#">HELP</a>   |         |                 |                     |  |                     |
| Existing FTP Hosts   |         |                 |                     |  |                     |
| <input type="checkbox"/>   | Label   | Address         | Max. FTP Operations | Timeout (Expected Throughput + Pad Time) | Auto Retry Interval |
| <input type="checkbox"/>   | NSIDC   | f4eil01         | 7                   | 3.000MB/s + 30s                          | 15s                 |
| <input type="checkbox"/>   | f4dpl01 | f4dpl01.htc.com | 10                  | 3.000MB/s + 30s                          | 120s                |
| <input type="checkbox"/>   | f4eil01 | f4eil01.htc.com | 5                   | 3.000MB/s + 30s                          | 120s                |
| <input checked="" type="checkbox"/> Remove Selected Hosts <input type="checkbox"/> Add A FTP Host... |         |                 |                     |  |                     |
| <a href="#">HELP</a>   |         |                 |                     |  |                     |
| Existing SCP Hosts   |         |                 |                     |  |                     |
| <input type="checkbox"/>   | Label   | Address         | Max. SCP Operations | Timeout (Expected Throughput + Pad Time) | Auto Retry Interval |
| <input type="checkbox"/>   | f4dpl01 | f4dpl01         | 10                  | 3.000MB/s + 30s                          | 15s                 |
| <input type="checkbox"/>   | f4eil01 | f4eil01         | 25                  | 3.000MB/s + 30s                          | 20s                 |
| <input type="checkbox"/>   | f4eil01 | f4eil01         | 25                  | 3.000MB/s + 30s                          | 15s                 |
| <input checked="" type="checkbox"/> Remove Selected Hosts <input type="checkbox"/> Add A SCP Host... |         |                 |                     |  |                     |
| Default FTP Host Configurations  |         |                 |                     |  |                     |
| Max. FTP Operations: 5   |         |                 |                     |  |                     |
| Timeout (Expected Throughput + Pad Time): 3.000MB/s + 30s  |         |                 |                     |  |                     |
| Auto Retry Interval: 120s  |         |                 |                     |  |                     |
| <a href="#">Edit</a>   |         |                 |                     |  |                     |
| Default SCP Host Configurations  |         |                 |                     |  |                     |
| Max. SCP Operations: 5   |         |                 |                     |  |                     |
| Timeout (Expected Throughput + Pad Time): 3.000MB/s + 30s  |         |                 |                     |  |                     |
| Auto Retry Interval: 120s  |         |                 |                     |  |                     |
| <a href="#">Edit</a>   |         |                 |                     |  |                     |
| Local Host Configurations  |         |                 |                     |  |                     |
| Max. Local Operations: 5   |         |                 |                     |  |                     |
| Timeout (Expected Throughput + Pad Time): 3.000MB/s + 30s  |         |                 |                     |  |                     |
| Auto Retry Interval: 120s  |         |                 |                     |  |                     |
| <a href="#">Edit</a>   |         |                 |                     |  |                     |

# DPL Ingest Configuration

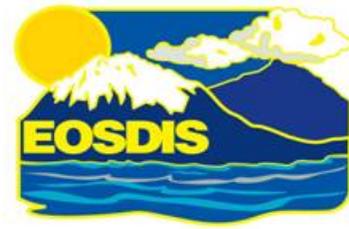
## Add SCP or FTP Host



- **Procedure: Add SCP or FTP Host**
  - Select the **Configuration** link.
  - Select **Transfer Host** link.
  - In the **Existing FTP Host** or **Existing SCP Hosts** section, Select **Add A [FTP/SCP] Host** button.
  - Enter **Unique Name** in the **Label** field.
  - Enter the **IP Address** in the **Address** field.
  - Enter the **Max. Operations** parameter.
  - If **Timeout** is selected, enter the **Expected Throughput** and **Pad Time** parameters.
  - If **Auto Retry** is selected, enter the **Retry Interval**
  - Click **Add This Host** button.

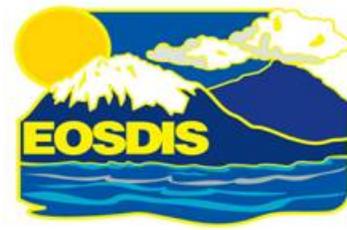
# DPL Ingest Configuration

## File System



- **The File System Configuration page allows:**
  - **The Operator to configure warning thresholds for regular file system or archive file systems.**
  - **The Operator to configure suspension thresholds for regular file system or archive file systems.**
  - **File Systems displays these thresholds:**
    - Cache Warning Threshold
    - Cache Full Threshold
    - Cache Warning Low Watermark
    - Cache Full Low Watermark
    - Warning Threshold (Data Pool System)
    - Warning Low Watermark (Data Pool System)

# DPL Ingest Configuration File System (cont.)



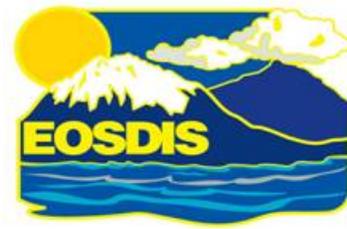
- **Procedure**

- Select the **Configuration Link, File System** link.
- Make changes, then click the **Update** button.

| File System Configuration                  |   |                                 |           |
|--|---|---------------------------------|-----------|
| [ HELP ]                                   |   |                                 |           |
| XMLArchive /stormext/smallfiles            |   |                                 |           |
| Cache Warning Threshold                    | The percentage of cache used which will trigger an operator alert                                     | <input type="text" value="88"/> | [percent] |
| Cache Full Threshold                       | The percentage of cache used which will trigger an operator alert and suspend the Archive File System | <input type="text" value="99"/> | [percent] |
| Cache Warning Low Watermark                | The percentage of cache used that will clear the Archive Cache Warning Alert                          | <input type="text" value="85"/> | [percent] |
| Cache Full Low Watermark                   | The percentage of cache used that will clear the Archive Cache Full Alert                             | <input type="text" value="95"/> | [percent] |
| Amfs1 /stormext/amfs1/                     |   |                                 |           |
| Cache Warning Threshold                    | The percentage of cache used which will trigger an operator alert                                     | <input type="text" value="76"/> | [percent] |
| Cache Full Threshold                       | The percentage of cache used which will trigger an operator alert and suspend the Archive File System | <input type="text" value="80"/> | [percent] |
| Cache Warning Low Watermark                | The percentage of cache used that will clear the Archive Cache Warning Alert                          | <input type="text" value="60"/> | [percent] |
| Cache Full Low Watermark                   | The percentage of cache used that will clear the Archive Cache Full Alert                             | <input type="text" value="70"/> | [percent] |
| Browfs /stormext/browfs/                   |   |                                 |           |
| Cache Warning Threshold                    | The percentage of cache used which will trigger an operator alert                                     | <input type="text" value="90"/> | [percent] |
| Cache Full Threshold                       | The percentage of cache used which will trigger an operator alert and suspend the Archive File System | <input type="text" value="99"/> | [percent] |
| Cache Warning Low Watermark                | The percentage of cache used that will clear the Archive Cache Warning Alert                          | <input type="text" value="88"/> | [percent] |
| Cache Full Low Watermark                   | The percentage of cache used that will clear the Archive Cache Full Alert                             | <input type="text" value="95"/> | [percent] |
| Snfs1 /stormext/snfs1/                     |   |                                 |           |
| Cache Warning Threshold                    | The percentage of cache used which will trigger an operator alert                                     | <input type="text" value="90"/> | [percent] |
| Cache Full Threshold                       | The percentage of cache used which will trigger an operator alert and suspend the Archive File System | <input type="text" value="99"/> | [percent] |
| Cache Warning Low Watermark                | The percentage of cache used that will clear the Archive Cache Warning Alert                          | <input type="text" value="88"/> | [percent] |
| Cache Full Low Watermark                   | The percentage of cache used that will clear the Archive Cache Full Alert                             | <input type="text" value="95"/> | [percent] |
| <input checked="" type="checkbox"/> Update | <input checked="" type="checkbox"/> Reset   |                                 |           |
| [ HELP ]                                   |   |                                 |           |
| DataPool File System                       |   |                                 |           |
| Warning Threshold                          | The percentage of cache used which will trigger an operator alert                                     | <input type="text" value="90"/> | [percent] |
| Warning Low Watermark                      | The percentage of cache used that will clear the File System Warning Alert                            | <input type="text" value="81"/> | [percent] |
| <input checked="" type="checkbox"/> Update | <input checked="" type="checkbox"/> Reset   |                                 |           |

# DPL Ingest Configuration

## ECS Services



- **ECS Services Configuration page allows the Operator to:**
  - **Configure the parameters of ECS services on a specific host**
    - A default checksum type and algorithm can also be set for use by the checksumming service hosts
  - **The ECS Services Configuration page contains two sections:**
    - Checksum Type and Algorithm
    - Host Used For ECS Service

**ECS Services Configuration**

Checksum Types And Algorithms [ Help ]

| <input type="checkbox"/> | Type  | Algorithm                           | Default                          |
|--------------------------|-------|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | CKSUM | /usr/bin/cksum                      | <input checked="" type="radio"/> |
| <input type="checkbox"/> | MD5   | /usr/ecs/OPS/CUSTOM/bin/COM/smd5sum | <input type="radio"/>            |

Remove Add Update Reset

Add Checksum Type

New Checksum Type Information:

Type: [ ] Algorithm: [ ] [ok]

Hosts Used For ECS Services

| <input type="checkbox"/> | Name    | Address | Comments           | Checksum (Num. Slots) | File Transfer (Num. Slots) | SCP | Archive (Num. Slots) | Max. Insert Checksum Operations (Num. Slots) | Max. Insert Copy Operations (Num. Slots) |
|--------------------------|---------|---------|--------------------|-----------------------|----------------------------|-----|----------------------|--|--|
| <input type="checkbox"/> | f4e01   | f4e101  | External Interface | 0                     | 8                          | 8   | 0                    | 0  | 0  |
| <input type="checkbox"/> | f4e101  | f4e101  | External Interface | 0                     | 8                          | 8   | 0                    | 0  | 0  |
| <input type="checkbox"/> | f4e101  | f4e101  | no comment         | 0                     | 8                          | 8   | 0                    | 0  | 0  |
| <input type="checkbox"/> | f4om101 | f4om101 | no comment         | 0                     | 8                          | 8   | 0                    | 0  | 0  |
| <input type="checkbox"/> | f4sp101 | f4sp101 | no comment         | 0                     | 8                          | 8   | 0                    | 0  | 0  |

Remove Selected Hosts Add ECS Service Host...

The page at http://f44p01.hitc.com:25010 says:

WARNING: THIS SHOULD ONLY BE DONE IF THE SERVER IS DOWN! Are you sure you want to remove the selected ECS Service hosts?

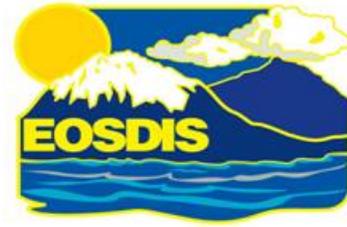
OK Cancel

Default checksumming service

Available number of ECS service slots

# DPL Ingest Configuration

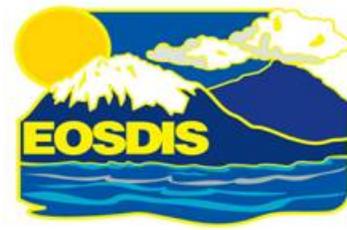
## ECS Services (cont.)



- ECS Services Configuration Add Service Host Fields:**

| Field Name                          | Entry               | Description  |
|-------------------------------------|---------------------|--|
| Label                               | Required            | A unique name for the ECS Service host, preferably based on the actual host name.  |
| Address                             | Required            | The IP address (e.g., 127.5.2.88) or canonical name (e.g., f4eil01.hitc.com) of the host.  |
| Port                                | Required            | The port number associated with this service. Hint: the port can be determined by looking at the quickserver's configuration file. |
| Auto Retry                          | Optional            | Whether or not to automatically retry processing of actions for all services enabled on this host.                                 |
| Comment                             | Optional            | The description of the host and its services.  |
| Checksum:                           |                     |  |
| Enable this service                 | Optional            | Whether or not to use this service.  |
| Max. Concurrent Checksum Operations | Required if enabled | The maximum number of concurrent checksum operations that may be performed on this host at any one time.                           |
| Expected Throughput                 | Required if enabled | The expected data throughput for checksum operations. This is to identify stuck operations,  |
| Checksum Timeout Pad Time           | Required if enabled | The additional delay for a checksum operation before it is considered timed-out.   |

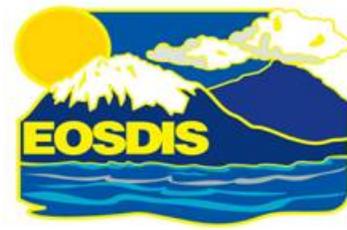
# DPL Ingest Configuration ECS Services (cont.)



## • ECS Services Configuration Add Service Host Fields: (cont.)

| File Transfer:                              |                     |  |
|---|---------------------|--|
| Enable this service                         | Optional            | Whether or not to use this service.  |
| Enable SCP                                  | Optional            | Whether or not to use SCP as the file transfer method.   |
| Max Concurrent File Transfers               | Required if enabled | The maximum number of concurrent file transfers that may be executed on this host.             |
| Archiving:                                  |                     |  |
| Enable this service                         | Optional            | Whether or not to use this service.  |
| Max Concurrent Archive Operations           | Required if enabled | The maximum number of concurrent archive operations that may be executed on this host.         |
| Expected Throughput                         | Required if enabled | The expected data throughput for archive operations. This is to identify stuck operations.     |
| Archive Timeout Pad Time                    | Required if enabled | The additional delay for an archive operation before it is considered timed-out.               |
| Insert Checksum:                            |                     |  |
| Max. Concurrent Insert Checksum Operations: | Optional            | The maximum number of concurrent Insert Checksum operations that may be executed on this host. |
| Insert Copy                                 |                     |  |
| Max. Concurrent Insert Copy Operations      | Required            | The maximum number of concurrent Insert Copy operations that may be executed on this host.     |
| Expected Throughput                         | Required            | The expected data throughput for Insert Copy operations. This is to identify stuck operations. |
| Insert Timeout Pad Time                     | Required            | The additional delay for an Insert Copy operation before it is considered timed-out.           |

# DPL Ingest Configuration ECS Services (cont.)

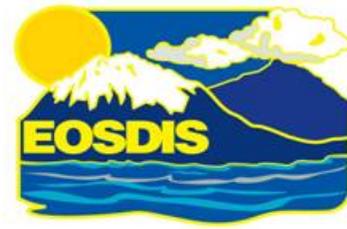


- **Procedure: Add Checksum Type**
  - Select the **Configuration Link**
  - Select **ECS Services** Link.
  - In the Checksum Types and Algorithms, click the **Add** button.
  - Click in the **Type** textbox and enter the **Checksum Type**.
  - Click in the input box next to **Algorithm** and enter the Algorithm location.
  - Select the **OK** button.

The screenshot shows the 'ECS Service Configuration: Add Service Host' dialog box. It is divided into several sections: 'Global Parameters' with fields for Label, Address, Port, Auto Retry, and Comments; 'Checksum' with an 'Enable this service' checkbox, 'Max. Concurrent Checksum Operations' (1), 'Expected throughput' (MB/s), and 'Checksum Timeout Pad Time' (seconds); 'File Transfer' with an 'Enable this service' checkbox, 'Enable SCP' checkbox, and 'Max. Concurrent File Transfers' (1); 'Archiving' with an 'Enable this service' checkbox, 'Max. Concurrent Archive Operations' (1), 'Expected Throughput' (MB/s), and 'Archive Timeout Pad Time' (seconds); 'Insert Checksum' with 'Max. Concurrent Insert Checksum Operations' (1); and 'Insert Copy' with 'Max. Concurrent Insert Copy Operations' (1), 'Expected Throughput' (MB/s), and 'Insert Copy Timeout Pad Time' (seconds). At the bottom, there are 'Add This Service Host' and 'Cancel' buttons.

# DPL Ingest Configuration

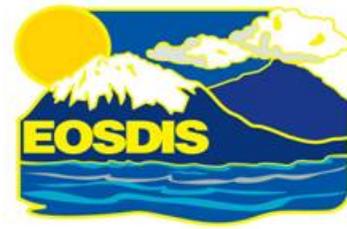
## ECS Services (cont.)



- **Procedure: Add ECS Service Host Type**
  - Select the **Configuration Link, ECS Services** Link.
  - In the **Hosts Used For ECS Services** section, click on the **Add ECS Service Host** button.
  - Enter the **Global Parameters**.
  - Enter the **Checksum** parameters.
  - Enter the **File Transfer** parameters.
  - Enter the **Archiving** parameters.
  - Enter the **Insert Checksum** parameter
  - Enter the **Insert Copy** parameters
  - Select the **Add This Service Host** button
  - **Note: An existing service host may be edited by clicking on the [Name] of the desired host located in the Hosts Used For ECS Services section.**

# DPL Ingest Configuration

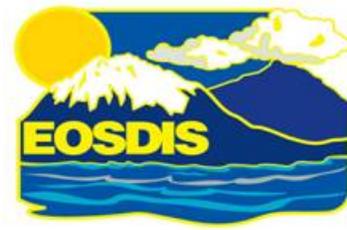
## Global Tuning Configuration



- **The Global Tuning link allows the operator to configure the Parameter Name and Value of the global tuning parameters in the Data Pool Ingest database**
- **Three sections for Global Tuning**
  - **Global Admin Tuning Parameters**
    - Requires Ingest Admin Tuning privileges
  - **Global Tuning Parameter Configuration**
    - Requires Tuning privileges
  - **Database Connection Configuration**
    - Requires Tuning privileges
- **Dynamic parameters are those that are applied to the Ingest Service without having to restart the Ingest Service**
- **Static parameters are those that require the Ingest Service to be restarted**

# DPL Ingest Configuration

## Global Tuning Configuration (cont.)



- **Procedure: Change Global Tuning**
  - Reminder: Must have special **Ingest Admin** or **Tuning** permissions
  - Select the **Configuration** link
  - Select the **Global Tuning** link
  - In the **Value** field of the Parameter to be changed enter the new value
  - Click the **Apply Changes** button
  - Select **OK**

Dynamic parameters indicators (green curled arrow)

| Parameter Name                       | Description  | Value                    |
|--------------------------------------|--|--------------------------|
| ARCHIVE_CACHE_CHECK_INTERVAL         | Number of seconds between checks of archive cache  | 120                      |
| DAYS_TO_KEEP_COMPLETED_NOTIFICATIONS | Number of days to keep completed notifications in notification table                       | 2                        |
| DEFAULT_ALERT_RETRY_SECS             | Default number of seconds to wait in between retrying a situation that caused a suspension | 60                       |
| ENABLE_NOTIFICATION_PERFORMANCE_LOG  | Indicates whether notification performance log has been enabled                            | <input type="checkbox"/> |
| ENABLE_POLLING_PERFORMANCE_LOG       | Indicates whether polling performance log has been enabled                                 | <input type="checkbox"/> |
| Apply Changes Reset                  |  |                          |

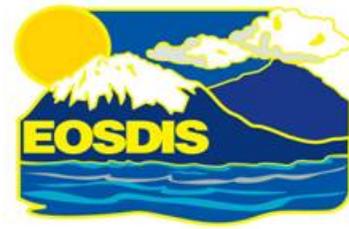
| Parameter Name                 | Description  | Value                               |
|--------------------------------|--|-------------------------------------|
| CUSTOM_DATA_LOG_FULL_THRESHOLD | The percentage of space used which will trigger an operator warning alert on CUSTOM data log directory | 93                                  |
| DEFAULT_NUM_RETRIES            | Default number of retries for an error condition where no error-specific number exists                 | 3                                   |
| DEFAULT_RETRY_INTERVAL         | Default retry interval (seconds) where no error-specific interval exists                               | 30                                  |
| EDOS_SUCCESSFUL_PAN_DIR        | EDOS directory in which successful PANs are to be stored   | /usr/ecs/OPS/CUSTOM/d...            |
| FAILED_CHECKSUM_HOLDING_DIR    | Location of files that failed checksum verification  | /usr/ecs/OPS/CUSTOM/d...            |
| IGNORE_ARCHIVE_ALERT           | Still archive requests independent of archive status   | <input checked="" type="checkbox"/> |
| Apply Changes Reset            |  |                                     |

| Parameter Name      | Description   | Value |
|---------------------|---|-------|
| MAX_AIM_DB_CONN     | Maximum database connection pool size for AIM DB    | 10    |
| MAX_DPL_DB_CONN     | Maximum database connection pool size for DPL DB    | 10    |
| MAX_INGEST_DB_CONN  | Maximum database connection pool size for Ingest DB | 40    |
| MAX_SSS_DB_CONN     | Maximum database connection pool size for SSS DB    | 10    |
| Apply Changes Reset |   |       |

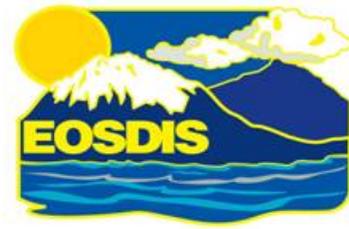
# DPL Ingest Configuration

## Volume Groups Configuration

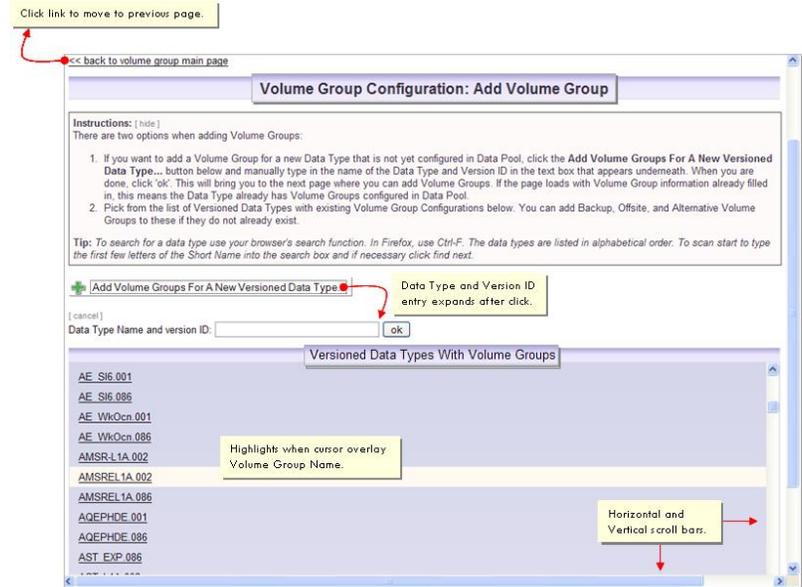
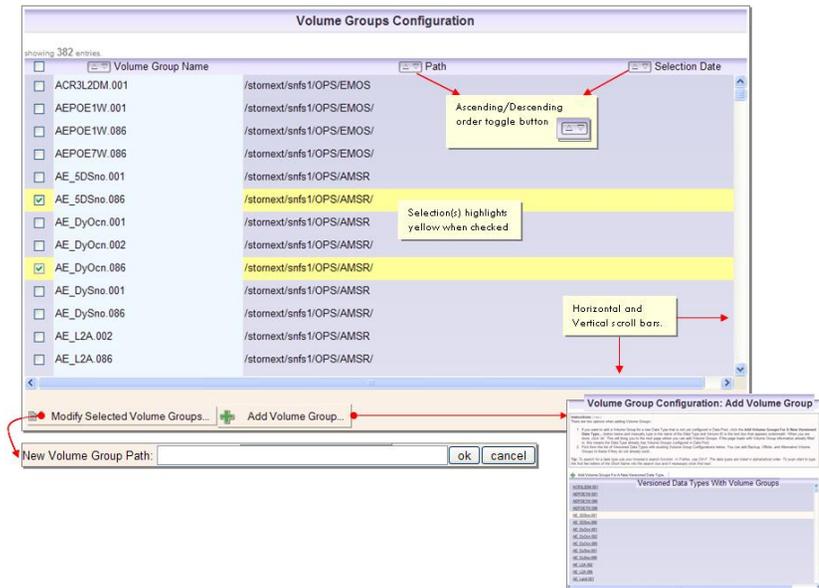


- **The Volume Group configuration in the DPL Ingest GUI was developed to duplicate the functionality in the decommissioned STMGT GUI tab with minor refinements and enhancements.**
- **The Volume Groups Configuration page is divided into four distinct columns**
  - **Volume Group name**
  - **Path**
  - **Selection Date**
  - **New Volume Group Path**

# DPL Ingest Configuration Volume Groups Configuration (cont.)

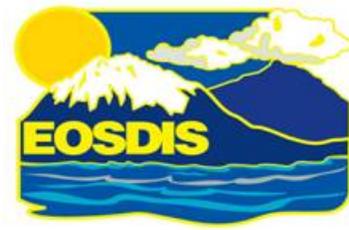


- **Procedure: Add Volume Groups for New Data Type**
  - Select the **Configuration, Volume Group** link.
  - Click the **Add Volume Group** button.
  - Click **Add Volume Groups For A New Versioned Data Type** button.
  - Enter the **Name** and **Version ID** data in edit window, then click **OK**.
  - **Volume Group Configuration: Add a Volume Group** window appear.



# DPL Ingest Configuration

## Volume Groups Configuration (cont.)



- **Procedure: Add Volume Groups for New Data Type (cont.)**
  - If Alternate Volume Group specified, click the **Alternate VG** checkbox.
  - If adding Alternate Volume Group history set, click the **Reprocessing** or **Forward Processing** button.
  - If adding Alternate Volume Group history set, select appropriate **Date** to set for storing/retrieving data.

Click link to move to previous page.

[< back to data type list](#)

**Volume Groups Configuration: Add a Volume Group**

Add Volume Groups

Data Type and Version ID: AE\_5DSno.001

Alternative VG Options:

Expands after checked

Reprocessing  Forward Processing

Selection Date for alternative Volume Groups:

month: 1 day: 1 year: 1

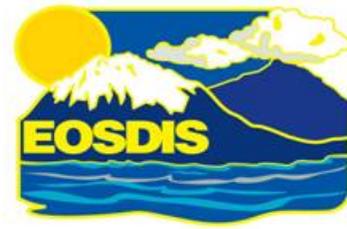
|                               |                                  |
|-------------------------------|----------------------------------|
| Primary Volume Group          | Primary Alternative Volume Group |
| Path:/stornext/snfs1/OPS/AMSR | Path: _____                      |
| Backup Volume Group           | Backup Alternative Volume Group  |
| Path: _____                   | Path: _____                      |
| Offsite Volume Group          | Offsite Alternative Volume Group |
| Path: _____                   | Path: _____                      |

The page at http://f4dpl01.hitc.com:25100 says:

Are you sure you want to cancel? This will take you to the main Volume Group configuration page.

# DPL Ingest Configuration

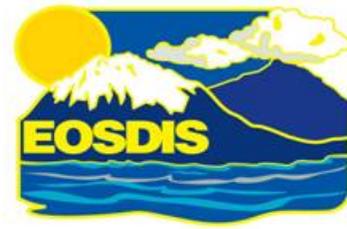
## Volume Groups Configuration (cont.)



- **Procedure: Add Volume Groups for New Data Type (cont.)**
  - Enter the fully qualified Unix path to the **Primary Archive**.
  - Enter the fully-qualified Unix path for the **Primary Alternate Archive**.
  - Enter the fully-qualified Unix path for the **Backup Archive**.
  - Enter the fully-qualified Unix path for the **Backup Alternate Archive**.
  - Enter the fully-qualified Unix path for the **Offsite Archive**.
  - Enter the fully-qualified Unix for the **Offsite Alternate Archive**.
  - Click the **Apply** button, then click **OK**.

# DPL Ingest Configuration

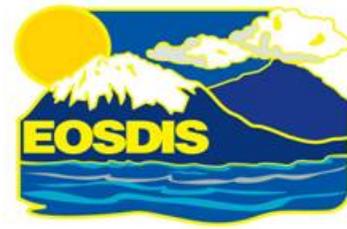
## Volume Groups Configuration (cont.)



- **Procedure: Volume Groups Existing Data Type**
  - Select the **Configuration, Volume Group** link.
  - Select the **Add Volume Group** button.
  - Click on **Versioned Data Type**.
  - **Volume Group Configuration: Add a Volume Group** window is displayed.
  - If Alternate Volume Group was specified, click on **Alternate VG** textbox.
  - If adding Alternate Volume Group history set, click the **Reprocessing** or **Forward Processing** button.
  - If adding Alternate Volume Group history set, select appropriate **Date** to set for storing/retrieving data.

# DPL Ingest Configuration

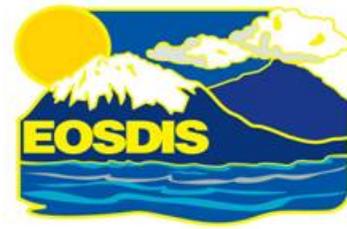
## Volume Groups Configuration (cont.)



- **Procedure: Volume Groups Existing Data Type (cont.)**
  - Enter the fully qualified UNIX path to the **Primary Archive**.
  - Enter the fully-qualified UNIX path for the **Primary Alternate Archive**.
  - Enter the fully-qualified UNIX path for the **Backup Archive**.
  - Enter the fully-qualified UNIX path for the **Backup Alternate Archive**.
  - Enter the fully-qualified UNIX path for the **Offsite Archive**.
  - Enter the fully-qualified UNIX for the **Offsite Alternate Archive**.
  - Click the **Apply** button, then click **OK**.

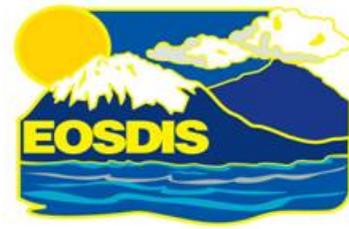
# DPL Ingest Configuration

## Volume Groups Configuration (cont.)



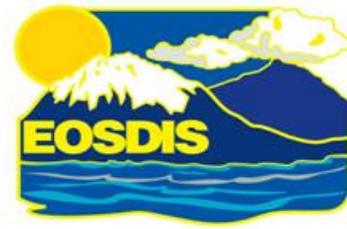
- **Procedure: Modify Volume Groups**
  - Select the **Configuration** link.
  - Select the **Volume Group** link.
  - Click the **Volume Group Name** checkbox
  - Click the **Modify Selected Volume Groups** button.
  - Enter the new **Volume Group Path**.
  - Click **OK**.

# DPL Ingest Configuration Operator Configuration



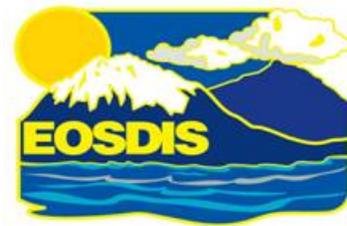
- **There are five permission levels for which an Operator may be assigned multiple permissions other than view only.**
- **The following are the Data Pool Ingest GUI permission levels:**
  - **View Only** – The operator cannot alter or modify anything on the GUI, nor can he/she take actions .
    - All textboxes, checkboxes, drop-down lists, etc. are disabled
  - **Ingest Control**- The operator can manage Ingest requests and interventions.
    - Can suspend or resume requests, place on hold and close interventions, fail or resume granules.
  - **Ingest Admin** - The operator can alter general configuration parameters such as SCP/FTP Host configuration, providers, data types
    - This level of operator cannot modify tuning parameters.
  - **Ingest Tuning** - The operator can alter global and host-specific tuning configuration parameters.
  - **Security Admin** - The operator can maintain security-related information like passwords and operators.

# DPL Ingest Configuration Operator Configuration (cont.)



- **Procedure: Modify Operator Permission Settings**
- **Operator must have Security Admin access to perform:**
  - Select the **Configuration, Operators** link.
  - Click the checkbox of the **name of the operator** requiring changes.
  - Click the checkbox of the desired **permissions** change.
  - Click the **Update Operators** button, then click **OK**.

# DPL Ingest Configuration Operator Configuration (cont.)



- Procedure: Modify Operator Permission Settings (cont.)

DATA POOL INGEST web GUI  
Wed Feb 25 2009 17:28:04

### Operator Configuration

Note:  
Changes to an existing operator's permissions will not take effect until the next login for that particular operator.

HELP → What do these permissions mean?  
Hover your mouse over any permission icon for a detailed explanation of each permission level.

| Operator Name                             | Permissions  |
|---|--|
| <input type="checkbox"/> IngAdmin         | <input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input checked="" type="checkbox"/> ingest security |
| <input type="checkbox"/> JoniR            | <input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input checked="" type="checkbox"/> ingest security |
| <input type="checkbox"/> Matt's Test      | <input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input type="checkbox"/> ingest admin <input type="checkbox"/> ingest tuning <input checked="" type="checkbox"/> ingest security                       |
| <input type="checkbox"/> TomR             | <input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input checked="" type="checkbox"/> ingest security |
| <input checked="" type="checkbox"/> V0000 | <input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input type="checkbox"/> ingest tuning <input type="checkbox"/> ingest security                       |
| <input type="checkbox"/> V000A            | <input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input type="checkbox"/> ingest admin <input type="checkbox"/> ingest tuning <input checked="" type="checkbox"/> ingest security                       |
| <input type="checkbox"/> V00T0            | <input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input checked="" type="checkbox"/> ingest security            |
| <input type="checkbox"/> V00TA            | <input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input type="checkbox"/> ingest security            |

Update Operators  Remove Operators

#### Add Operator

Operator Name:   
Password:   
Verify Password:   
Permissions:  view only  ingest control  ingest admin  ingest tuning  ingest security

Add Operator

Legend: Operator Permissions and related context-sensitive Help Tips.

view only

The operator can only view pages in this application and **can not** manage (such as suspend or resume requests) or make changes to configuration parameters. A view-only operator will see most text boxes, buttons, and checkboxes disabled.

ingest control

The operator can manage requests and interventions - actions like suspend, resume, and change priority. The operator can also clear alerts and fail or retry granules associated with any request and enter operator annotations.

ingest admin

The operator can configure Providers, Data Types, Remote Hosts, Archive File Systems, and ECS Services.

ingest tuning

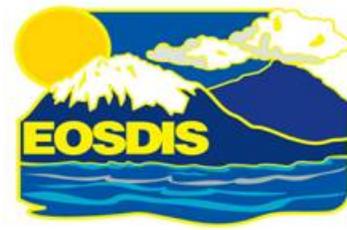
The operator can modify global tuning parameters.

ingest security

The operator can manage (add, delete, modify) operators.

# DPL Ingest Configuration

## Add Operator Permission Settings

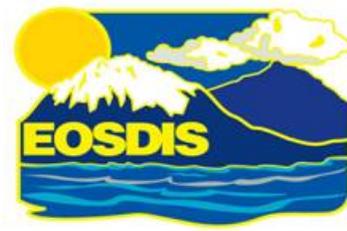


- **Procedure: Add Operator Permission Settings**
  - Select the **Configuration, Operators** link.
  - Locate the **Operator Configuration** page, **Add Operator** section.
  - Perform the following to settings:
  - Enter the **Operator Name** .
  - Enter the **Password**, then **Verify Password**.
  - Select the **Permissions**.
  - Click the **Add Operators** button, then click **OK**.

A screenshot of the 'Add Operator' configuration form. The form has a light purple header with the title 'Add Operator'. Below the header, there are four input fields: 'Operator Name' with the value 'DavidH', 'Password' with six asterisks, and 'Verify Password' with six asterisks. Below these fields is a 'Permissions' section with a list of checkboxes and icons. The 'view only' checkbox is unchecked. The 'ingest control' checkbox is checked, with a red 'X' icon to its left. The 'ingest admin' checkbox is unchecked, with a grey key icon to its left. The 'ingest tuning' checkbox is unchecked, with a grid icon to its left. The 'ingest security' checkbox is checked, with a yellow lightning bolt icon to its left. At the bottom left of the form, there is a green plus icon and the text 'Add Operator'.

# Reports

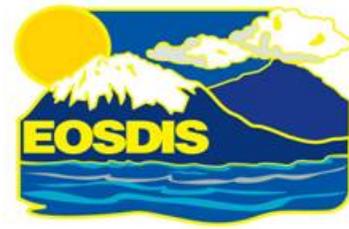
## Generating Reports



- **The reporting capability of the Ingest GUI offers the ability to view detailed reports on data providers, data types, request summary and granule summary reports**
- **The report pages display the information across data providers or data types**
- **Due to the large volume of data that may be in the database, reports can sometime take a while to process and be displayed**
- **Reports**
  - **Detailed**
  - **Request Summary**
  - **Granule Summary**
  - **Volume Group**

# Reports

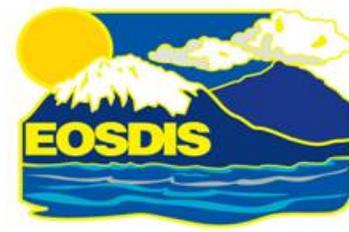
## Generating Reports (cont.)



- **Procedure: Detailed, Report Summary or Granule Summary**
  - Select the **Reports** link.
  - Select **Detailed, Request Summary** or **Granule Summary** link.
  - Enter the **Start Date/Time** and **End Date/Time**.
  - Select the **Data Providers**, **Data Types**, one or more **Final Request Statuses**, and the **Ingest Method** (ie, DPL or Non-DPL).
  - Click the **Generate Report** button.

# Reports

## Generating Reports (cont.)



### Detailed Report

#### Date/Time Criteria

Start Date/Time: month: 1, day: 1, year: 2009, hour: 12, min: 8  
 End Date/Time: month: 1, day: 30, year: 2009, hour: 12, min: 8  
 Presets: Last 24 hours, Last 48 hours, Previous criteria runs.

#### Data Criteria

Data Provider: --ALL PROVIDERS-- (ArchiveOnline selected)  
 Data Type: --ALL DATA TYPES-- (ACR3L0.001 selected)  
 Final Request Status: Successful (Terminated selected)  
 Ingest Method: DPL (NON-DPL selected)



Generate Report

Report Output  
 No report generated yet.

#### Current Report Criteria:

Data Provider(s): [ArchiveOnline]  
 Data Type(s): [ALL]  
 Final Request Status: [ALL]  
 Start Date/Time: 1/1/2009 12:8  
 End Date/Time: 1/30/2009 12:8

"Report Output" if criteria not met.

Generates "Report Output"

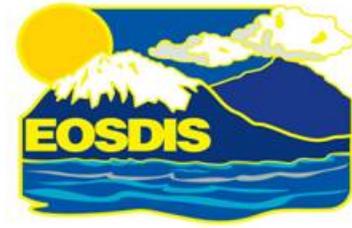
#### Report Output

| Req.ID | Data Provider | Ingest Type  | Ingest Method | Request Status | Start Date/Time     | End Date/Time       | Tot.# grans. | # Succ. grans. | Vol (MB) | File Count | Time to xfer (secs) | Time to preproc (secs) | Time to Archive (secs) | Priority | Restart Flag |
|--------|---------------|--------------|---------------|----------------|---------------------|---------------------|--------------|----------------|----------|------------|---------------------|------------------------|------------------------|----------|--------------|
| 274518 | ArchiveOnline | Polling_w/DR | DPL           | Successful     | 2009-01-07 10:17:13 | 2009-01-07 10:17:17 | 1            | 1              | 0.125    | 2          | 0                   | 3                      | 0                      | HIGH     |              |
| 274519 | ArchiveOnline | Polling_w/DR | DPL           | Successful     | 2009-01-07 10:17:13 | 2009-01-07 10:17:17 | 1            | 1              | 0.360    | 2          | 0                   | 5                      | 0                      | HIGH     |              |
| 274704 | ArchiveOnline | Polling_w/DR | DPL           | Successful     | 2009-01-13 08:13:59 | 2009-01-13 08:14:05 | 1            | 1              | 0.125    | 2          | 0                   | 3                      | 0                      | HIGH     |              |
| 274705 | ArchiveOnline | Polling_w/DR | DPL           | Successful     | 2009-01-13 08:13:59 | 2009-01-13 08:14:05 | 1            | 1              | 0.360    | 2          | 0                   | 5                      | 0                      | HIGH     |              |

Highlights on cursor overlay.

# Reports

## Generating Reports (cont.)



### Request Summary Report

#### Date/Time Criteria

Start Date/Time: month: 12, day: 1, year: 2008, hour: 12, min: 28  
 End Date/Time: month: 2, day: 26, year: 2009, hour: 12, min: 28  
 Presets: Last 24 hours, Last 48 hours, Previous criteria runs.

#### Data Criteria

Data Provider: ASTER\_GDS, ASTER\_OSF, ArchiveOnline, BMGT, DDIST, ECSBulkExport, EOS  
 Data Type: --ALL DATA TYPES--  
 Final Request Status: --ALL STATUSES--  
 Ingest Method: DPL, NON-DPL



Generate Report

Report Output  
**No report generated yet.**

#### Current Report Criteria:

Data Type(s): [ALL]  
 Start Date/Time: 12/1/2008 12:28  
 Final Request Status: [ALL]  
 End Date/Time: 2/26/2009 12:28

Generates "Report Output"

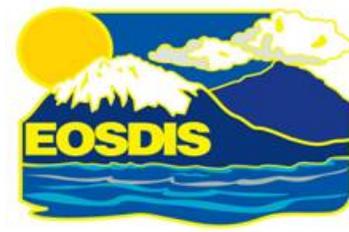
"Report Output" if criteria not met.

#### Report Output

| Data Provider  | Ingest Type  | Ingest Method | Ttl. Reqs | Ttl. Errors | Ttl. Volume (GB) | Gran Avg | Gran Max | File Avg | File Max | Size Avg (MB) | Size Max (MB) | Xfer time Avg (secs) | Xfer time Max (secs) | Preproc time Avg (secs) | Preproc time Max (secs) | Archive Time Avg (secs) | Archive Time Max (secs) |
|----------------|--------------|---------------|-----------|-------------|------------------|----------|----------|----------|----------|---------------|---------------|----------------------|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| QAUU_SIPS      | Polling_w/DR | DPL           | 60        | 0           | 0.164            | 1.000    | 1        | 2.000    | 2        | 2.801         | 7.869         | 0.833                | 6                    | 28.517                  | 35                      | 0.417                   | 2                       |
| ArchiveOnline  | Polling_w/DR | DPL           | 96        | 4           | 0.082            | 1.021    | 2        | 2.021    | 3        | 0.878         | 8.971         | 0.240                | 2                    | 4.083                   | 24                      | 0.208                   | 2                       |
| <b>TOTALS:</b> |              |               | 156       | 4           | 0.246            | 1.013    | 2        | 2.013    | 3        | 1.617         | 8.971         | 0.468                | 6                    | 13.481                  | 35                      | 0.288                   | 2                       |

Highlights on cursor overlay.

# Reports Generating Reports (cont.)



### Granule Summary Report

**Date/Time Criteria**

Start Date/Time: month: 1, day: 1, year: 2008, hour: 2, min: 10  
 End Date/Time: month: 1, day: 1, year: 2009, hour: 1, min: 2

Presets: Last 24 hours, Last 48 hours, **Previous criteria runs.**

**Data Criteria**

Data Provider: --ALL PROVIDERS--  
 Data Type: --ALL DATA TYPES--  
 Final Request Status: --ALL STATUSES--  
 Ingest Method: DPL

**Current Report Criteria**

Data Provider(s): [ALL]      Data Type(s): [ALL]  
 Final Request Status: [ALL]      Start Date/Time: 1/1/2008 2:10  
 End Date/Time: 1/1/2009 1:2

**Report Output**

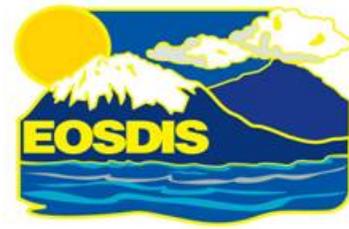
| Data Provider    | Ingest Type  | Ingest Method | Data Type | Ttl. Grans | Ttl. Errors | Ttl. Volume (GB) | File Avg | File Max | Size Avg (MB) | Size Max (MB) | Xfer time Avg (secs) | Xfer time Max (secs) | Preproc time Avg (secs) | Preproc time Max (secs) | Archive Time Avg (secs) | Archive Time Max (secs) |   |
|------------------|--------------|---------------|-----------|------------|-------------|------------------|----------|----------|---------------|---------------|----------------------|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|---|
| JPL              | Polling_w/DR | DPL           | MOD29P1D  | 124        | 0           | 0.025            | 2.000    | 2        | 0.205         | 0.535         | 1.427                | 90                   | 15.524                  | 34                      | 0.161                   | 2                       |   |
| BMGT_CRIT_30_L1A | Polling_w/DR | DPL           | MYD13A3   | 3          | 3           | 0.003            | 2.000    | 2        | 1.157         | 1.189         | 0.667                | 1                    | 0.000                   | 0                       | 0.000                   | 0                       |   |
| MODAPS_COMBINE   | Polling_w/DR | DPL           | MOD29P1D  | 4          | 0           | 0.024            | 2.000    | 2        | 6.110         | 6.110         | 0.000                | 0                    | 0.000                   | 0                       | 0.000                   | 0                       |   |
| Bender           | Polling_w/DR | DPL           | DAP       | 2          | 1           | 0.002            | 2.000    | 2        | 1.250         | 1.2           | 0.000                | 0                    | 0.000                   | 1                       | 0.000                   | 0                       |   |
| JPL              | Polling_w/DR | DPL           | AE_DySno  | 1          | 0           | 0.002            | 2.000    | 2        | 2.055         | 2.0           | 0.000                | 0                    | 25.000                  | 25                      | 1.000                   | 1                       |   |
| Bender           | Polling_w/DR | DPL           | MYD14     | 213        | 2           | 0.052            | 2.000    | 2        | 0.249         | 0.745         | 0.901                | 21                   | 4.803                   | 12                      | 0.643                   | 4                       |   |
| JPL              | Polling_w/DR | DPL           | AE_Si25   | 1          | 0           | 0.020            | 2.000    | 2        | 20.954        | 20.954        | 0.000                | 0                    | 11.398                  | 45.500                  | 91                      | 1.000                   | 0 |
| MODAPS_TERRA     | Polling_w/DR | DPL           | MOD29     | 2          | 1           | 0.022            | 2.000    | 2        | 11.398        | 11.398        | 45.500               | 91                   | 1.000                   | 2                       | 0.000                   | 0                       |   |
| NSIDC_DAAC       | Polling_w/DR | DPL           | MOD29P1D  | 5190       | 25          | 1.063            | 2.000    | 2        | 0.210         | 0.850         | 1.028                | 60                   | 8.545                   | 367                     | 0.840                   | 18                      |   |
| pchen            | Polling_w/DR | DPL           | AST_L1A   | 1          | 1           | 0.108            | 1.000    | 1        | 110.922       | 110.922       | 2.000                | 2                    | 0.000                   | 0                       | 0.000                   | 0                       |   |
| BMGT             | Polling_w/DR | DPL           | MYD29P1N  | 10         | 0           | 0.001            | 2.000    | 2        | 0.124         | 0.291         | 0.100                | 1                    | 11.000                  | 13                      | 0.200                   | 1                       |   |
| LeoProvider      | Polling_w/DR | DPL           | MOD14     | 10         | 0           | 0.002            | 2.000    | 2        | 0.198         | 0.412         | 0.500                | 4                    | 45.900                  | 50                      | 0.400                   | 2                       |   |
| BMGT_CRIT_30_L1A | Polling_w/DR | DPL           | MOD11A2   | 3          | 3           | 0.003            | 2.000    | 2        | 1.151         | 1.163         | 0.667                | 2                    | 0.000                   | 0                       | 0.000                   | 0                       |   |
| <b>TOTALS:</b>   |              |               |           | 120179     | 881         | 248.778          | 1.719    | 98       | 2.120         | 307.082       | 2.004                | 1059                 | 16.665                  | 50531                   | 1.378                   | 1076                    |   |

**Report Output**  
No report generated yet.

“Report Output” if criteria not met.

Generates “Report Output”

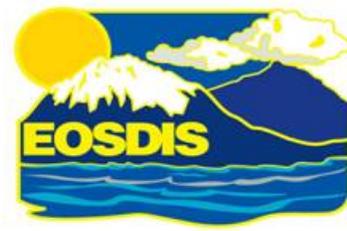
# Help



- **The Help section, contains information the operator can have readily available while operating the Data Pool Ingest GUI**
- **Three links**
  - **General Topics**
  - **Context Help**
  - **About**

# Help

## General Topics



- **Procedure**

- Select the **Help** link.
- Select the **General Topics** link.
- Click on **Request State Transition** link.

The screenshot shows a web browser window titled "DPL Ingest GUI (REV09) - Mozilla Firefox". The page content includes a navigation menu on the left with "Help" and "General Topics" highlighted. The main content area is titled "Request State Transition" and contains several sections: "Index", "Request State Transition" (with a note about stuck requests), "Possible Request Paths" (with sub-sections for Normal Transition, Cold Restart, and Validation Failed), "Possible Request Paths (cont.)" (with sub-sections for Failed Granules, Suspended Granules, and Operator Cancellation), and "Granule State Transition". The "Possible Request Paths" section contains three tables of state transitions. The "Granule State Transition" section is partially visible at the bottom.

**Request State Transition**

Requests go through various states as they are processed by the DPL Processing Service. Below are the paths that a request can take during its processing lifecycle. Some things to note:

- If a requests is "stuck" and does not move to the next state after a reasonable amount of time, then the Processing Service may be down. This is normally, but not always, indicated on the GUI's home (Ingest Status) page under the Processing Service Status.
- If requests are being submitted and not being picked up, it is possible the Polling Service or Quick Sender may down or suspended.

**Possible Request Paths:**

| Normal Transition   | Cold Restart                         | Validation Failed             |
|---|--------------------------------------|-------------------------------|
| 1. New  | 1. New                               | 1. New                        |
| 2. validated - validation successful                      | 2. validated - validation successful | 2. Failed - validation failed |
| 3. Active - dispatched                                    | 3. Terminated - user input           |                               |
| 4. Successful - all granules successful, PMD work, loaded |                                      |                               |

**Possible Request Paths (cont.):**

| Failed Granules   | Suspended Granules  | Operator Cancellation   |
|---|---|---|
| 1. New  | 1. New  | 1. New  |
| 2. validated - validation successful  | 2. validated - validation successful  | 2. validated - validation successful  |
| 3. Active - dispatched  | 3. Active - dispatched  | 3. Active - dispatched  |
| 4. one of: <ul style="list-style-type: none"><li>Partial Failure - not all granules failed</li><li>Failed - all granules failed</li></ul> | 4. One of: <ul style="list-style-type: none"><li>Partially Suspended - at least one granule suspended, one active</li><li>Suspended - at least one suspended, none active</li></ul>       | 4. Cancelling - operator normal request   |
|   | 5. Operator resumes granule from checkpoint, at which point the states would go to: <ul style="list-style-type: none"><li>Resuming - at least one granule suspended, one active</li></ul> | 5. one of: <ul style="list-style-type: none"><li>Partially_Canceled - not all granules cancelled</li><li>Cancelled - all granules cancelled</li></ul> |

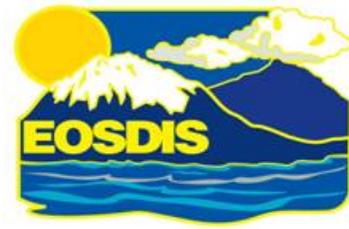
**Granule State Transition**

Granules also go through various states as they are processed by the DPL Processing Service. Below are the paths that a granules can take during its processing lifecycle.

**Possible Granules Paths:**

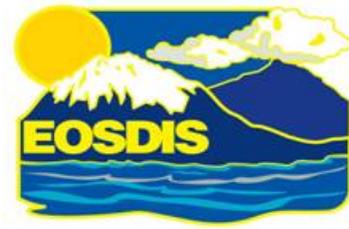
| Normal Transition     | Possible Error States |
|-----------------------|-----------------------|
| 1. Processing (START) |                       |
| 2. Transforming       |                       |

# Data Pool Management



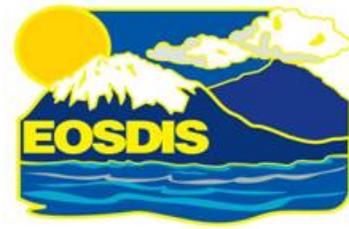
- **Features of the Data Pool Maintenance GUI**
  - **Most Archive or support personnel tasks for monitoring and maintaining the Data Pool require the use of the Data Pool Maintenance (DPM) GUI.**
  - **The DPM GUI permits an Ingest operator to perform tasks in the following general areas:**
    - **Managing Data Pool Collection Groups.**
    - **Managing Data Pool Collections within Collection Groups.**

# Data Pool Management (cont.)



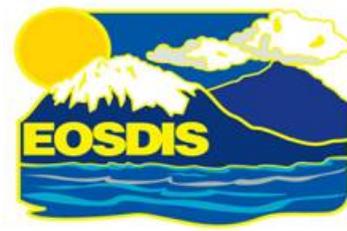
- **Features of the Data Pool Maintenance GUI (cont.)**
  - **New operator GUI security standards require the following two levels of permissions for the DPM GUI:**
    - Full Capability
    - Limited Capability
  - **Full-capability operators have the ability to configure parameters and perform all other actions that can be accomplished with the DPM GUI.**
  - **Limited-capability operators are able to view a lot of information:**
    - However, on the limited-capability GUI some buttons and links have been disabled so it is not possible to perform certain actions or access certain pages.

# Data Pool Management (cont.)



- **Features of the Data Pool Maintenance GUI (cont.)**
  - **This lesson provides instruction in the full-capability version of the DPM GUI:**
    - However, the functions that are available to limited-capability Operators, as well as the functions that are not available to the limited-capability Operators are identified.

# DPM GUI Home Page



**Data Pool Maintenance GUI -- OPS MODE - Mozilla Firefox**

File Edit View History Bookmarks Tools Help

http://f4dpl01.hitc.com:22101/DataPool.html

Customize Links Free Hotmail Windows Marketplace Windows Media Windows

Functionality Lab Status Data Pool Maintenance GUI -- OPS MO... Data Pool Maintenance GUI -- OP...

## Data Pool Maintenance

OPS

[Home Page](#)    [Batch Summary](#)    [List Insert Queue](#)    [Collection Groups](#)    [Themes](#)    [Data Pool File Systems](#)  
[Cloud Cover](#)    [Configuration Parameters](#)    [Aging Parameters](#)    [Help](#)    [End Session](#)

[Refresh Home Page](#)

**Screen Refresh Rate**  (in Secs)  Last Screen Refresh on Mon Aug 18 12:17:17 EDT 2008  
**Active Insert Processes**  rows   
**Active Insert Status Filter**  Pending  Validated  Copied  Checksummed  Extracted

### Summary of Data Pool File System(s)

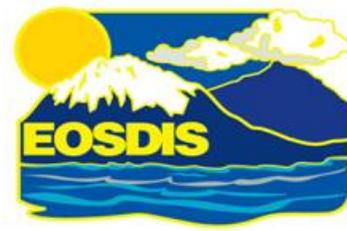
| File System Path                          | Ingest Status                           | DPL Insert Status                       | Free Space | Used Space Updated                | Free Space Flag                               | Availability               | Min Freed Space |
|---|---|---|------------|-----------------------------------|---|----------------------------|-----------------|
| <b>DEFAULT</b><br>/datapool/OPS/user/FS1/ | <input checked="" type="radio"/> active | <input checked="" type="radio"/> active | 972 GB     | <b>11%</b><br>Aug 18 2008 12:15PM | State : Y<br>Last Changed: Apr 3 2008 11:22AM | State : Y<br>Last changed: | 10              |
| <b>FS2</b><br>/datapool/OPS/user/FS2/     | <input checked="" type="radio"/> active | <input checked="" type="radio"/> active | 1087 GB    | <b>1%</b><br>Aug 18 2008 12:15PM  | State : Y<br>Last Changed:                    | State : Y<br>Last changed: | 10              |

### Summary of Active Processes

|   |       |
|---|-------|
| <b>Maximum allowed processes</b>                    | 20000 |
| <b>Maximum allowed processes from archive cache</b> | 20    |

http://f4dpl01.hitc.com:22101/cgi-bin/EcDlDpmHomePage.pl

# DPM GUI Collection Groups



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dpl01.hitc.com:22101/cgi-bin/EcDlDpmManageCollGroups.pl

**Data Pool Maintenance** OPS

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) **[Collection Groups](#)** [Themes](#) [Data Pool File Systems](#)  
[Cloud Cover](#) [Configuration Parameters](#) [Aging Parameters](#) [Help](#)

You can manage the collections of a group by clicking on the groupid

| Data Source | Group ID<br>(Click for managing collections) | Display Name | Description  |
|-------------|--|--------------|--|
| ECS         | <u>1</u>                                     | 1            | Funky, new collection group.                             |
| ECS         | <u>ACRM</u>                                  | ACRM         | All collections/granules from the ACRIM mission          |
| ECS         | <u>AIRA</u>                                  | AIRA         | AIRS/AMSU/MHS collections/granules from the Aqua mission |
| ECS         | <u>AMSA</u>                                  | AMSA         | AMSR-E collections/granules from the Aqua mission        |
| ECS         | <u>ASTT</u>                                  | ASTT         | ASTER collections/granules from the Terra mission        |
| ECS         | <u>BRWS</u>                                  | BRWS         | Browse collections/granules                              |
| NON-ECS     | <u>CZCSGROUP</u>                             | CZCSGROUP    | This is my awesome group.                                |
| ECS         | <u>DASP</u>                                  | DASP         | Data Assimilation System Products                        |

# DPM GUI Collection Groups (cont.)



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dpl01.hitc.com:22101/cgi-bin/EcDlDpmManageCollections.pl?GroupId=CZCSGROUP

Search

Home Radio My Netscape Search Bookmarks

## Data Pool Maintenance

OPS 

[Home Page](#)
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Data Source:NON-ECS Group ID:CZCSGROUP Display Name:CZCSGROUP Description:This is my awesome group.

File System

**List Of Collections**

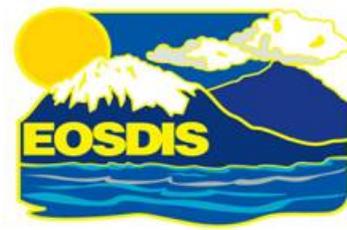
| Collection<br>(Click for<br>Detail<br>Information) | Version | Science<br>Granules<br>and/or<br>Metadata | Data<br>Pool<br>Insertion | HEG<br>Processing | Export<br>Urls to<br>ECHO | Quality<br>Summary<br>Url | Spatial<br>Search<br>Type | Global<br>Coverage | Day/Night<br>Coverage | 24 Hour<br>Coverage | Cloud<br>Coverag |
|--|---------|---|---------------------------|-------------------|---------------------------|---------------------------|---------------------------|--------------------|-----------------------|---------------------|------------------|
| <a href="#">CZCS</a>                               | 001     | science<br>and<br>metadata                | valid for<br>Data<br>Pool | Enabled           | No                        |                           | Not<br>supported          | Yes                | Yes                   | No                  | No               |

[Add New Collection](#)    [Return to previous page](#)

You can view the detail information of a collection by clicking on the collection link

# DPM GUI

## Collection Groups (cont.)



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dp101.hitc.com:22101/cgi-bin/EcDIDpmManageCollections.pl?collAction=38&VersionId=186

Search

Mail AIM Home Radio My Netscape Search Bookmarks

Data Pool Maintenance GUI -- OPS ...

### Data Pool Maintenance

OPS

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) **[Collection Groups](#)** [Themes](#) [Data Pool File Systems](#)

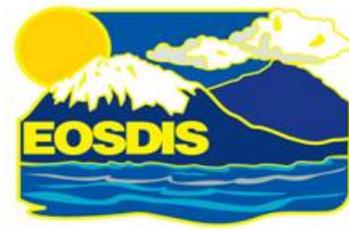
[Cloud Cover](#) [Configuration Parameters](#) [Aging Parameters](#) [Help](#)

Group ID:ACRM: Display Name:ACRM Description:All collections/granules from the ACRM mission

| Detail Information               |   |
|----------------------------------|---|
| Collection                       | ACR3L0  |
| Version                          | 1   |
| Description                      | This file contains Level 0 total solar irradiance data gathered by the ACRM instrument on the ACRIMSAT satellite. |
| File System                      | DEFAULT   |
| Science Granules and/or Metadata | Science and Metadata  |
| Data Pool Insertion              | Valid for Data Pool Inserts   |
| HEG Processing                   | Enabled   |
| Export Urls to ECHO              | No  |
| Quality Summary Url              |   |
| Spatial Search Type              | NotSupported  |

Done

# DPM GUI Collection Groups (cont.)



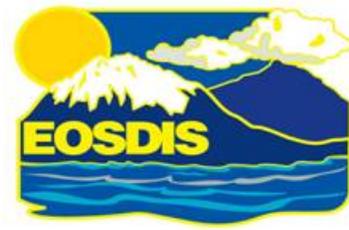
- **Procedure: Modifying Collection Groups**
  - Select the DPM GUI **Collection Groups** link.
  - Select the **Modify Collection Group** link.
  - Make desired changes to the **Display Name** and **Description**.
  - Select checkbox at the end of the row.
  - Click the **Apply Changes** button.

A screenshot of a Netscape browser window titled "Data Pool Maintenance GUI -- DEV08 MODE - Netscape". The browser's address bar shows the URL "http://f4e011.hitc.com:22181/cgi-bin/EcDpmManageCollGroups.pl?collection=2". The page content includes a header with the "Data Pool Maintenance" title and a "DEV08" label. Below the header is a navigation menu with links for "Home Page", "Batch Summary", "List/Insert Queue", "Collection Groups", "Themes", "Data Pool File Systems", "Cloud Cover", "Configuration Parameters", "Aging Parameters", and "Help". The main content area is titled "Modify Collection Group" and contains a table with the following data:

| Data Source | Group ID<br>(Click to manage<br>collection) | Display Name | Description  |
|-------------|---|--------------|--|
| ECS         | <a href="#">ACRM</a>                        | ACRM         | All collections/granules from the ACRM mission           |
| ECS         | <a href="#">AIRA</a>                        | AIRA         | AIRS/AMSU/MHS collections/granules from the Aqua mission |
| ECS         | <a href="#">AMSA</a>                        | AMSA         | AMSP/E collections/granules from the Aqua mission        |
| ECS         | <a href="#">ASTT</a>                        | ASTT         | ASTER collections/granules from the Terra mission        |
| ECS         | <a href="#">BRWS</a>                        | BRWS         | Browse collections/granules                              |
| ECS         | <a href="#">DASP</a>                        | DASP         | Data Assimilation System Products                        |
| ECS         | <a href="#">DASP2</a>                       | DASP2        | DASP2  |

# DPM GUI

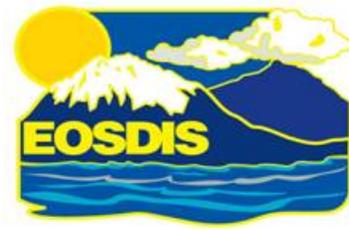
## Collection Groups (cont.)



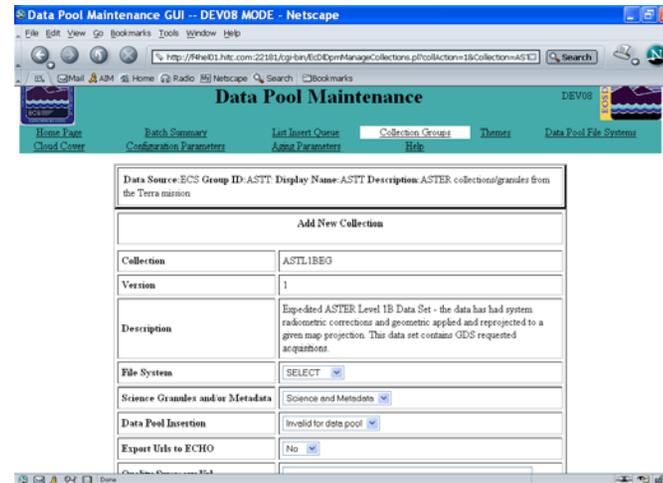
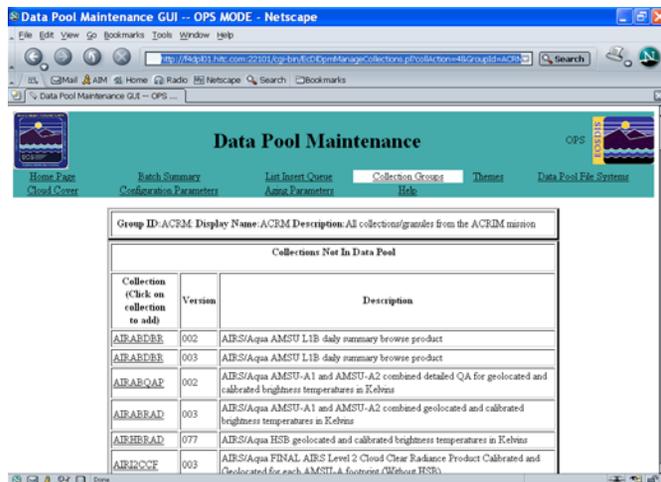
- **Procedure: Add a Collection Group**
  - Select the DPM GUI **Collection Groups** link.
  - Select the **Add Collection Group** link.
  - Enter **Display Source**, **Group ID**, **Display Name** and **Description**.
  - Click on the **Apply Change** button.
- **Note: Once entered, the Collection Group cannot be deleted.**

A screenshot of a Netscape browser window displaying the "Data Pool Maintenance GUI -- DEV08 MODE". The browser's address bar shows the URL: http://fheh1d1.htr.com:22181/cgi-bin/EOD/DpmManageCollGroups.pl?collection=1. The page has a green header with the title "Data Pool Maintenance" and "DEV08" on the right. Below the header is a navigation menu with links: Home Page, Batch Summary, List Insert Queue, Collection Groups (highlighted), Themes, and Data Pool File Systems. Under "Collection Groups", there are sub-links: Cloud Cover, Configuration Parameters, and Help. The main content area is titled "Add Collection Group" and contains a form with four columns: "Data Source", "Group ID", "Display Name (Optional)", and "Description". The "Data Source" column has a dropdown menu with "ECS" selected. Below the form is a "Return to previous page" link and an "Apply Change" button. A note at the bottom states: "NOTE: The Display Name will default to the GroupID unless specifically set to something else."

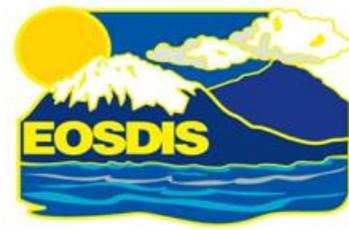
# DPM GUI Collection Groups (cont.)



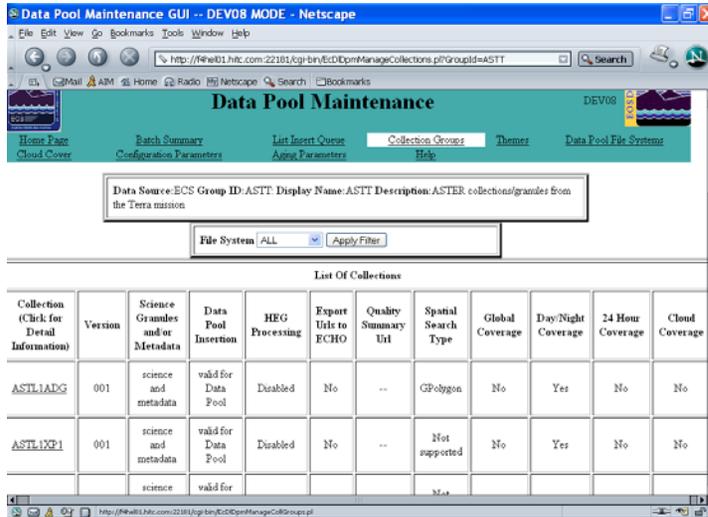
- **Procedure: Add ECS Collections to a Collection Group**
  - Select the **DPM GUI Collection Groups** link.
  - Select the **Group ID** link.
  - Select the **Add New Collection** link.
  - From the **Collections Not in Data Pool** page, select collection to add.
  - Complete all **appropriate fields**.
  - Click on the **Apply Change** button.



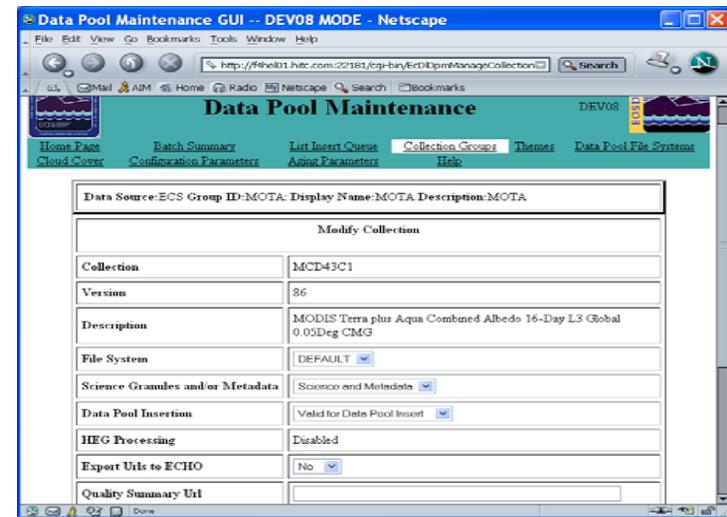
# DPM GUI Collection Groups (cont.)



- **Procedure: Modify an ECS Collection Group**
  - Select the DPM GUI **Collection Groups, Group ID** link.
  - From the **List of Collections** page, select collection to modify.
  - From the **Detailed Information** page, select **Modify Collection** link.
  - From the **Modify Collection** page, complete desired fields.
  - Click the **Apply Change** button.



| Collection (Click for Detail Information) | Version | Science Granules and/or Metadata | Data Pool Insertion | HEG Processing | Export Utils to ECHO | Quality Summary Util | Spatial Search Type | Global Coverage | Day/Night Coverage | 24 Hour Coverage | Cloud Coverage |
|---|---------|----------------------------------|---------------------|----------------|----------------------|----------------------|---------------------|-----------------|--------------------|------------------|----------------|
| ASTLIADG                                  | 001     | science and metadata             | valid for Data Pool | Disabled       | No                   | --                   | GPolygon            | No              | Yes                | No               | No             |
| ASTLIXP1                                  | 001     | science and metadata             | valid for Data Pool | Disabled       | No                   | --                   | Not supported       | No              | Yes                | No               | No             |
|   |         | science                          | valid for           |                |                      |                      | Not supported       | No              | Yes                | No               | No             |



| Modify Collection                |  |
|----------------------------------|--|
| Collection                       | MCD43C1  |
| Version                          | 86   |
| Description                      | MODIS Terra plus Aqua Combined Albedo 16-Day L3 Global 0.05Deg CMG |
| File System                      | DEFAULT  |
| Science Granules and/or Metadata | Science and Metadata   |
| Data Pool Insertion              | Valid for Data Pool Insert   |
| HEG Processing                   | Disabled   |
| Export Utils to ECHO             | No   |
| Quality Summary Util             |  |