

## 4.8.10 Data Pool Maintenance GUI

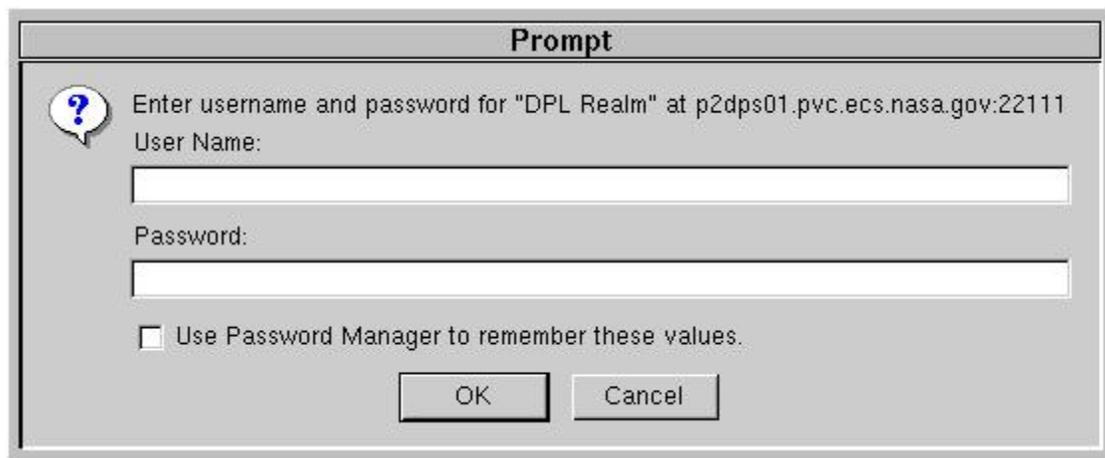
The Data Pool Maintenance (DPM) GUI provides an operator interface to monitor the current status of Data Pool Inserts and to maintain specific Data Pool parameters. This GUI manages ECS and Non-ECS data collections. Specifically, the DPM GUI provides the following capabilities:

- Monitor the active insert processes
- Monitor the Data Pool Insert Queue
- Manage existing Data Pool Collection Groups
- Add new Data Pool Collection Groups (includes ECS and Non-ECS )
- Manage existing Data Pool Collection Themes
- Add new Data Pool Collection Themes
- Suspend and Resume Data Pool Inserts
- Turn the NoFreeSpace Flag on or off
- Configure parameters used by the Data Pool Action Driver (DPAD) and the Data Pool Insert Utility (DPIU)

### 4.8.10.1 Quick Start Using the Data Pool Maintenance GUI

Bring up the Web Browser and then access the URL for the DPM GUI web page. The operator may be prompted by a dialogue box similar to that shown in Figure 4.8.10-1. The requested information must be entered to continue.

For example, <http://<host name location>:22111/DataPool.html>



The image shows a standard Windows-style dialog box with a title bar that says "Prompt". Inside the dialog, there is a question mark icon in a speech bubble. To the right of the icon, the text reads: "Enter username and password for "DPL Realm" at p2dps01.pvc.ecs.nasa.gov:22111". Below this text, there are two input fields. The first is labeled "User Name:" and the second is labeled "Password:". At the bottom left of the dialog, there is a checkbox with the text "Use Password Manager to remember these values." To the right of the checkbox are two buttons: "OK" and "Cancel".

**Figure 4.8.10-1. Login Prompt**

#### 4.8.10.1.1 DPM Home Page

The DPM Home Page screen shown in Figure 4.8.10-2 gives the operator current status of Data Pool Inserts. The screen is refreshed automatically. The operator is shown the current screen

refresh rate, the current chunk size for the list of active insert processes. Minimum values for screen refresh rate is 60 seconds and Active Insert Process List row size is 1. Maximum value for Active Insert Process List row size is 100. The operator must click on the adjacent **Apply** button to initiate changes. Summary of Data Pool File System table displays current status of the FreeSpace Flag, Availability Flag, and amount of desired free space in megabytes for each file system. Summary of Active Processes table displays configured number of Maximum Allowed Processes, the Maximum Allowed Processes from ARCHIVE cache, the Maximum Allowed Processes from ARCHIVE tape, the total number of active insert processes running, the number of active insert processes using ARCHIVE cache, the number of active insert processes using ARCHIVE tape. The list of Active Insert Processes table displays the current status of the active insert processes. The screen can be immediately refreshed by clicking on the **Refresh Home Page** link. Use the tab buttons at the top to navigate to the Home Page, Batch Summary, List Insert Queue, Collection Groups, Themes, Data Pool File System, Compression Algorithm, Cloud Cover, Configuration Parameters, Aging Parameters, and End Session screens. See Table 4.8.10-1 for descriptions of the Home Page elements.

**Data Pool Maintenance**

DEV01

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: 300 (in Secs) [Apply] Last Screen Refresh on Tue Mar 13 14:36:01 EDT 2007

Active Insert Processes: 4 rows [Apply]

Active Insert Status Filter:  Pending  Validated  Copied  Checksummed  Extracted [Apply]

File System Label	Free Space Flag	Availability	Min Freed Space in MB
CVD	State : Y Last changed:	State : Y Last changed:	10
DEFAULT	State : Y Last changed: May 24 2005 10:55AM	State : Y Last changed:	10
FS2	State : Y Last changed:	State : Y Last changed: Feb 27 2007 11:20AM	10

Maximum allowed processes	20000
Maximum allowed processes from archive cache	3
Maximum allowed processes from archive tape	3
Total number of active insert processes running	85
Total number of validated active insert processes running	0
Total number of pending active insert processes running	85
Number of active insert processes using archive cache	85
Number of active insert processes using archive tape	0

List of Active Insert Processes ( Rows 1-4 out of 85 )

**Figure 4.8.10-2. Data Pool Maintenance Home Page**

**Table 4.8.10-1. DPM Home Page Field Descriptions (1 of 2)**

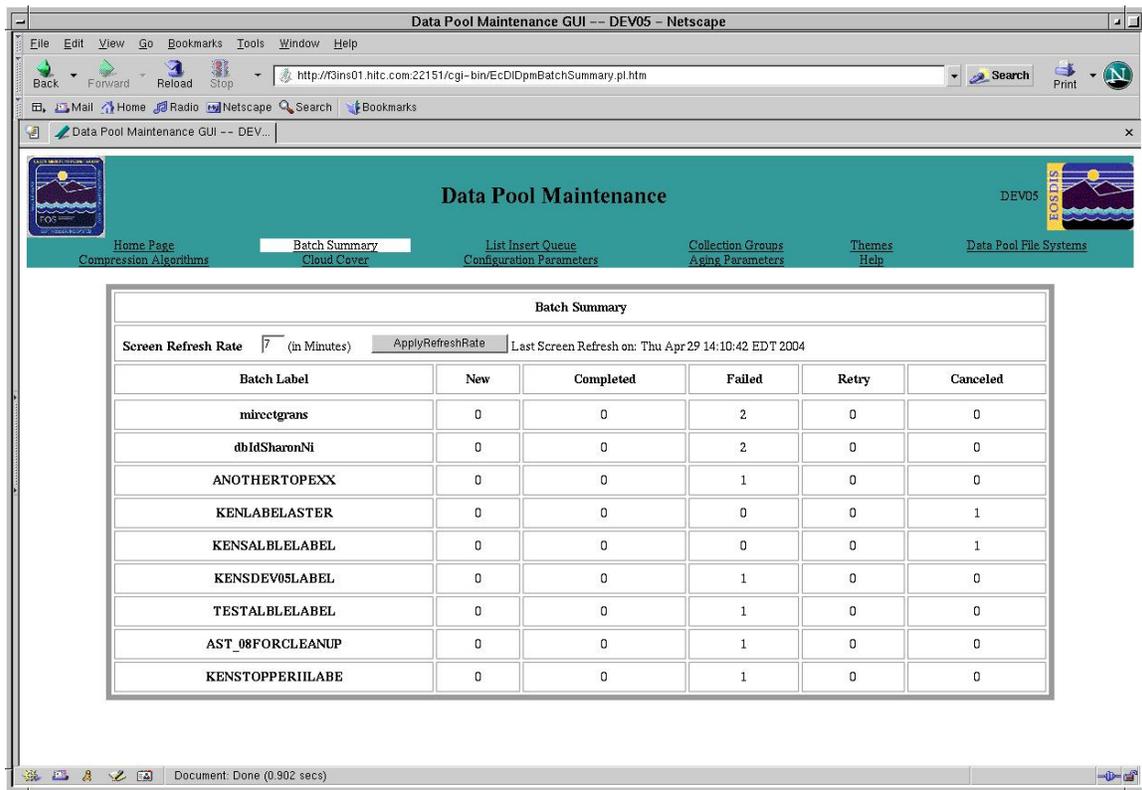
Field Name	Data Type	Size	Entry	Description
Screen Refresh Rate	Integer	4	Optional	Allows the operator to adjust the Screen Refresh Rate in seconds.
Active Insert Processes	Integer	4	Optional	Chunk size to set for the list of active insert processes. Default is 100
Active Insert Process Filter	Check box	5	Optional	Filters Active Insert Processes based on process status
File System Label	char	10	Required	File System Label. Limited to 10 characters.
Free Space Flag	char	1	Optional	Indicates if space is available for Data Pool insert. 'ON' value indicates that space is available. Default is 'ON'.
Availability	char	1	Optional	File system available for insert. Value 'YES' indicate it is available and value 'NO' it is not available. The default value is 'YES'.
Min Freed Space in MB	int	4	Optional	Amount space must be freed in order to make the file system available
Maximum allowed processes	int	4	System Generated	Maximum allowed processes for Data Pool
Maximum allowed processes from ARCHIVE cache	int	4	System Generated	Maximum allowed processes from ARCHIVE cache
Maximum allowed processes from ARCHIVE tape	int	4	System Generated	Maximum allowed processes from ARCHIVE tape
Total number of active insert processes running	int	4	System Generated	Total number of active insert processes running
Number of active insert processes using ARCHIVE cache	int	4	System Generated	Number of active insert processes using ARCHIVE cache
Number of active insert processes using ARCHIVE tape	int	4	System Generated	Number of active insert processes using ARCHIVE tape
Unix Process ID	char	10	System Generated	Unix Process ID
ECS ID	char	10	System Generated	ECS ID number
Collection	char	20	System Generated	Name of collection
Version	int	4	System Generated	Version number
Start Time	char	10	System Generated	Process start time
Status Time	char	10	System	Process status time

**Table 4.8.10-1. DPM Home Page Field Descriptions (2 of 2)**

Field Name	Data Type	Size	Entry	Description
Status	char	10	System Generated	Status of the process
ARCHIVE Cache	char	1	System Generated	Indicates if the process belongs to ARCHIVE cache or not
Retries	int	4	System Generated	Number of retries in case of failures

### 4.8.10.1.2 Batch Summary Tab

The Batch Summary Screen shown in Figure 4.8.10-3 displays a summary of the status of Data Pool inserts for each batch label. Status includes new, completed, failed, retried, and cancelled inserts. Minimum refresh rate is 1 minute. The **Apply Refresh Rate** button will refresh the screen with any updated information in the fields within a specified amount of time. See Table 4.8.10-2 for a description of the Batch Summary's entries.



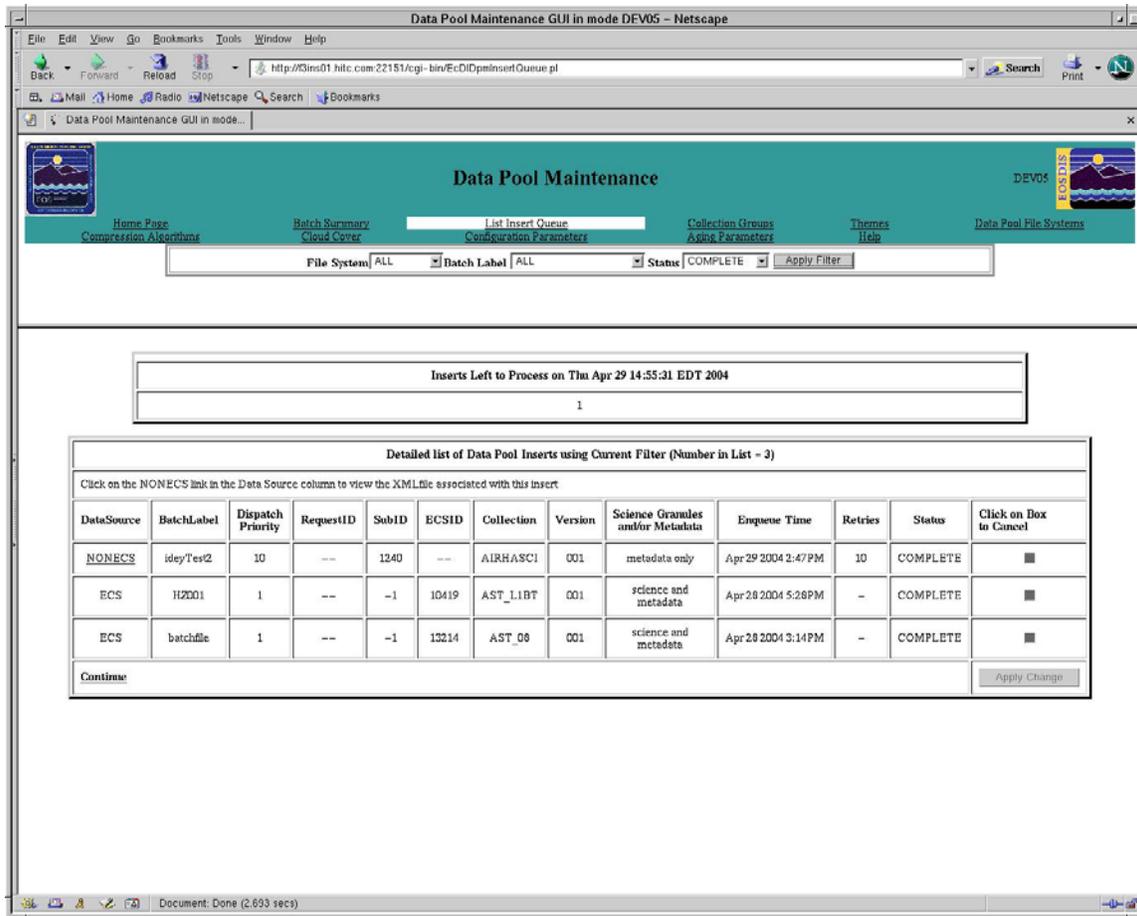
**Figure 4.8.10-3. Batch Summary Screen**

**Table 4.8.10-2. Batch Summary Screen Field Descriptions**

Field Name	Data Type	Size	Entry	Description
Batch Label	int	4	System Generated	Name of the batch label
New	int	4	System Generated	Number of batch inserts in NEW state
Completed	int	4	System Generated	Number of batch inserts in COMPLETED state
Failed	int	4	System Generated	Number of batch inserts in FAILED state
Retry	int	4	System Generated	Number of batch inserts in RETRY state
Cancelled	int	4	System Generated	Number of batch inserts in CANCELLED state

#### 4.8.10.1.3 List Insert Queue Tab

The List Insert Queue Screen shown in Figure 4.8.10-4 allows the operator to monitor the Data Pool Inserts that still need to be processed or retried. The operator can cancel Inserts that are in the Insert Queue by clicking on the checkbox adjacent to the Status column. After selecting all desired inserts, click on the **Apply Change** button to initiate changes. The Inserts will be marked as “CANCELED” in the Data Pool database. The List Insert Queue screen will be refreshed with only inserts left to be processed. The DPAD driver will cleanup all canceled inserts at a configured interval. The List Insert Queue Screen can be filtered using the File System Label drop down list, Batch Label drop down list and Status drop down list. Clicking on the **File System** Label drop down list will display all the File System Labels in database. The operator can choose ‘ALL’ from the **File System** Label drop down list and choose one label from **Batch Label** drop down list and choose ‘ALL’ from Status drop down list to view all insert statuses for that label in all File Systems. The operator can also narrow down the list by choosing one batch label from the **Batch Labels** drop-down list, a specific status from the **Status** drop down list and a specific file system from the **File System** Label drop down list. After selecting the filter options, click on the **Apply Filter** button to display a filtered list. The XML file and path name for a Non-ECS granule insert action can be viewed by clicking on "NONECS" from the Data Source column. XML file path is displayed in Figure 4.8.10-5. The content of the XML file can be viewed by clicking on the file path. This will display the text of the file as shown in Figure 4.8.10-6.



**Figure 4.8.10-4. List Insert Queue Screen**

See Table 4.8.10-3 for a description of the List Insert Queue’s field descriptors.

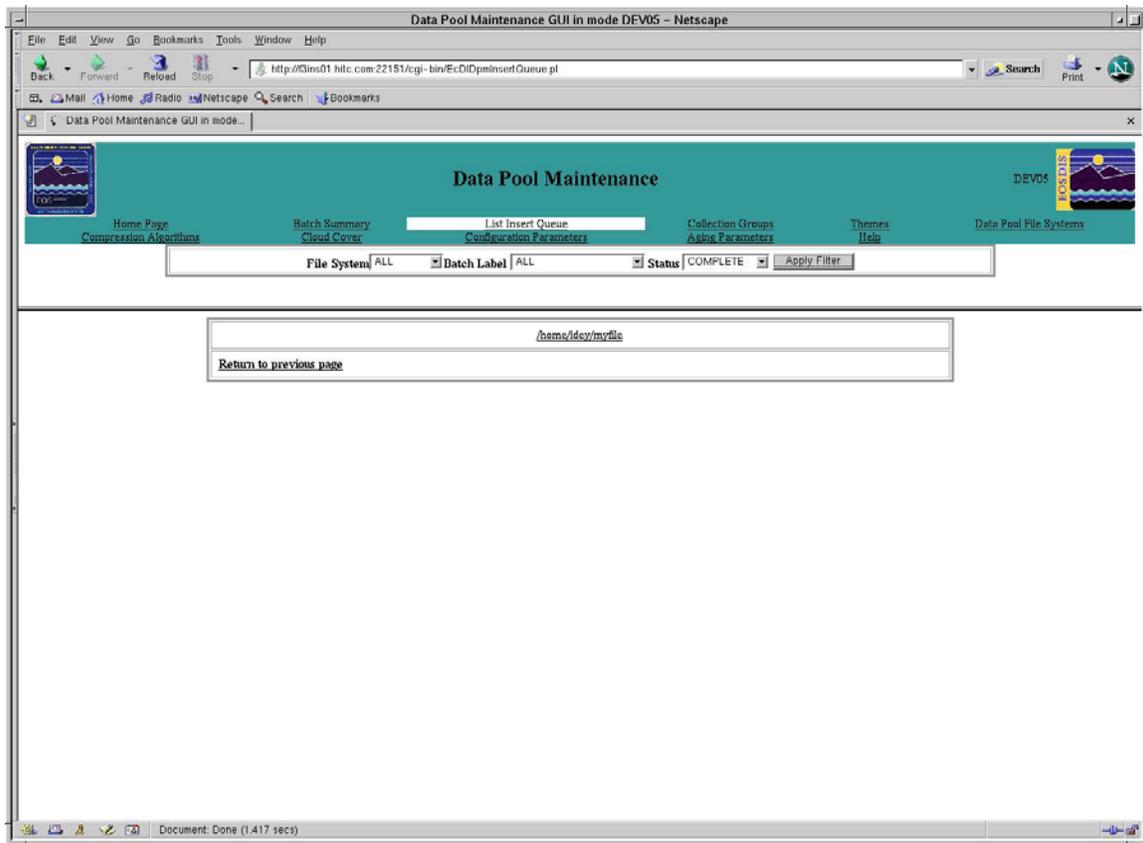
**Table 4.8.10-3. List Insert Queue Screen Field Descriptions (1 of 2)**

Field Name	Data Type	Size	Entry	Description
Data Source	char	6	Required	To describe the source of the data whether ECS or NONECS.
Batch Label	char	20	System Generated	Name of batch
Dispatch Priority	int	4	System Generated	Number of priority by which requests will be processed
RequestID	char	10	System Generated	Request ID of the order
SubID	char	10	System Generated	Submission ID number

**Table 4.8.10-3. List Insert Queue Screen Field Descriptions (2 of 2)**

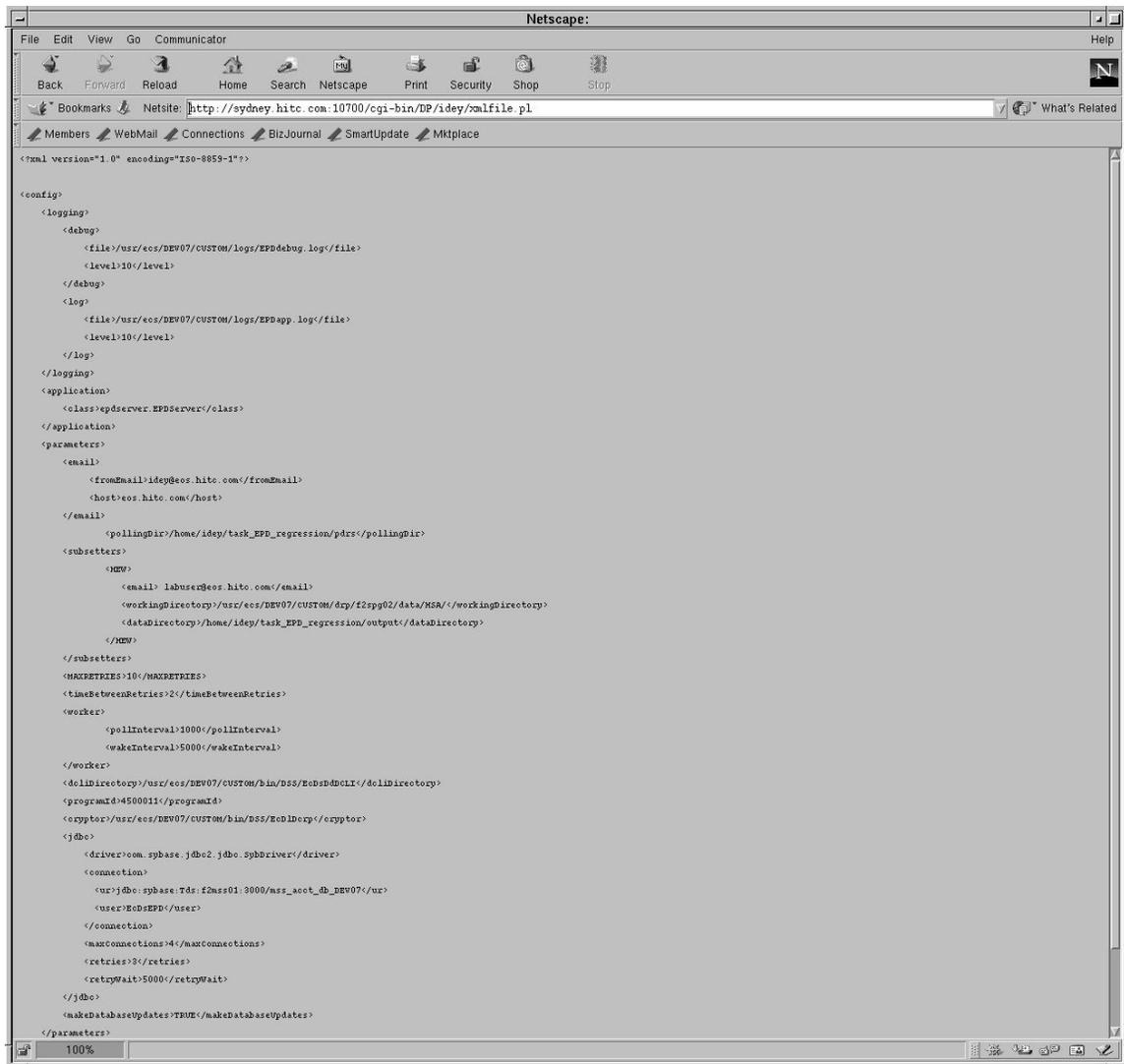
Field Name	Data Type	Size	Entry	Description
ESCID	char	10	System Generated	ECS ID number
Collection Version	int	4	System Generated	Version number of collection.
Science Granules and/or Metadata	char	n/a	Optional	Indicate whether collection whether collection is Science Granules and/or Metadata.
Enqueue Time	char	10	System Generated	Time in queue
Retries	int	4	System Generated	Number of retries
Status	char	10	System Generated	Status of the input process
Click on Box to Cancel	checkbox	1	Optional	Select when cancellation of request is needed

**Note:** This screen depicts the total number of Data Pool Inserts left to process and retry. It also displays a detailed list of Data Pool Inserts using the current filter and total number of rows in the database. Default filter is set to ignore for Batch Label and NEW/RETRY for Status. Full capability users can cancel an insert.



**Figure 4.8.10-5. List Insert Queue Screen - Absolute xml File Path. This Screen Depicts the Absolute XML File Path for Non-ECS Data Pool Inserts.**

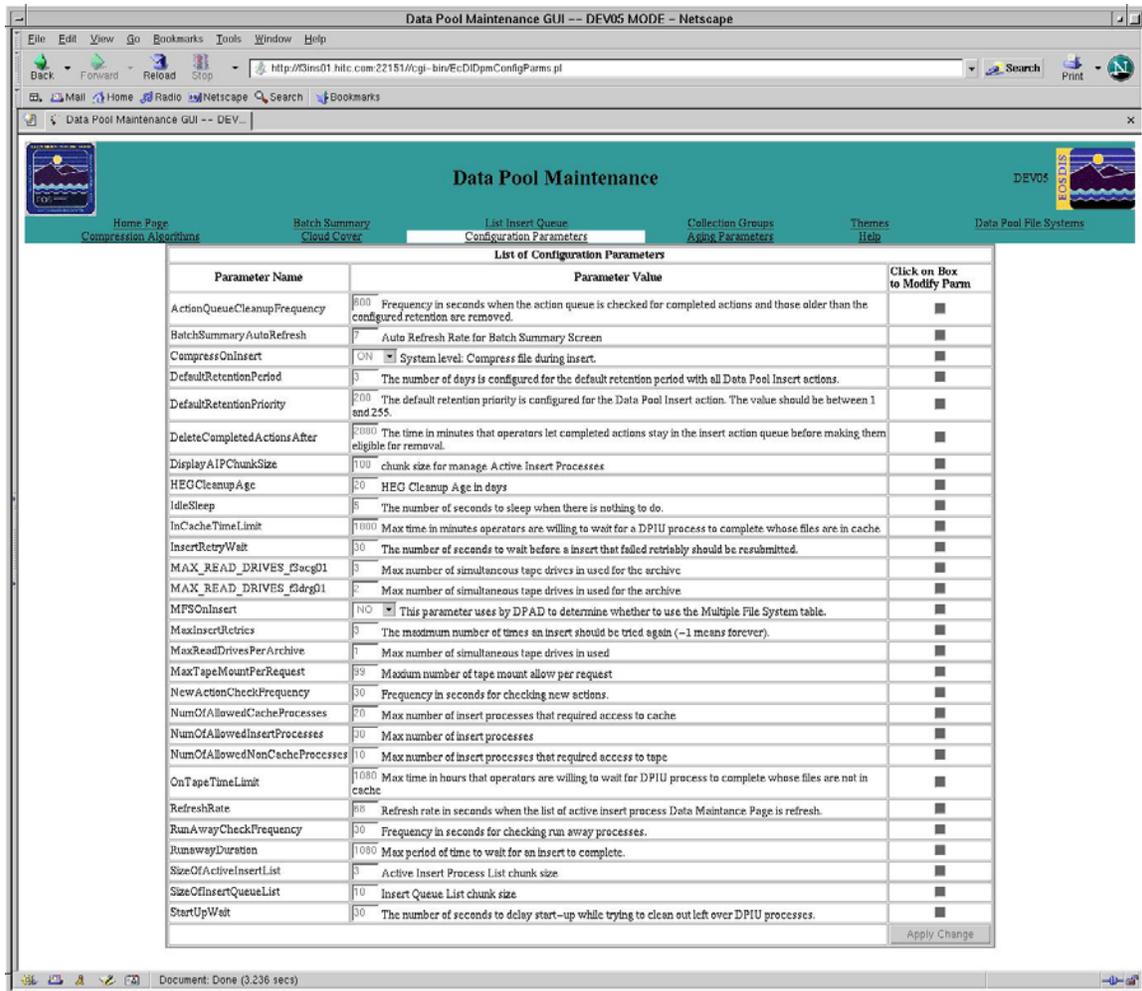
**Note:** Limited capability users cannot cancel any inserts.



**Figure 4.8.10-6. List Insert Queue Screen - XML File Content**

#### 4.8.10.1.4 Configuration Parameters Tab

The Configuration Parameters Screen shown in Figure 4.8.10-7 allows all operators to display the current values for the Data Pool Configuration Parameters. Full-capability operators can adjust the values for the parameters by entering new values in the input box. After making all changes, click on the **Click on Box to Modify Parameter** checkbox adjacent to the configuration parameters. Click on the **Apply Change** button to initiate the changes. See Table 4.8.10-4 for a description of the configuration parameters.



**Figure 4.8.10-7. Configuration Parameters Screen. This Screen Depicts the Data Pool Configuration Parameters. The Full Capacity Operator Can Update the Parameters.**

**Note:** Limited Capability users cannot update any parameters. Check boxes and button are non clickable

**Table 4.8.10-4. Manage Configuration Parameters Field Description (1 of 3)**

Field Name	Data Type	Size	Entry	Description
ActionQueueCleanUpFrequency	Integer	4	Optional	Frequency in seconds when the action queue is checked for completed actions and those older than the configured retention are removed.
BatchSummaryAutoRefresh	Integer	4	Optional	The frequency in minutes when the batch summary front is refreshed.
CompressOnInsert	Char	1	Optional	Turns compression <b>ON</b> or <b>OFF</b> . Actual value set to Y(ON) / N(OFF). Default is N (OFF).
DefaultRetentionPeriod	Integer	4	Optional	The default retention period in days for all Data Pool Insert Actions.
DefaultRetentionPriority	Integer	4	Optional	The default retention priority for all Data Pool Insert actions. The valid range is 1 – 255.
DeleteCompleteActionsAfter	Integer	4	Optional	The time in minutes that operators let completed actions stay in the insert action queue before making them eligible for removal. This is intended to provide the operator with some ability to check on past actions. The time period should not be configured too long.
DisplayAIPChunkSize	Integer	4	Optional	Number of rows return per chunk for the Active Insert Processes List
HEGCleanupAge	Integer	4	Optional	HEG cleanup age in days
IdleSleep	Integer	4	Optional	The number of seconds when there is nothing to do.
InCacheTimeLimit	Integer	4	Optional	The max time in minutes that operators are willing to wait for a DPIU process to complete whose files are in cache. After the time, DPAD kills the process and retries the action.
InsertRetryWait	Integer	4	Optional	The number of seconds to wait before an insert that failed should be resubmitted.

**Table 4.8.10-4. Manage Configuration Parameters Field Description (2 of 3)**

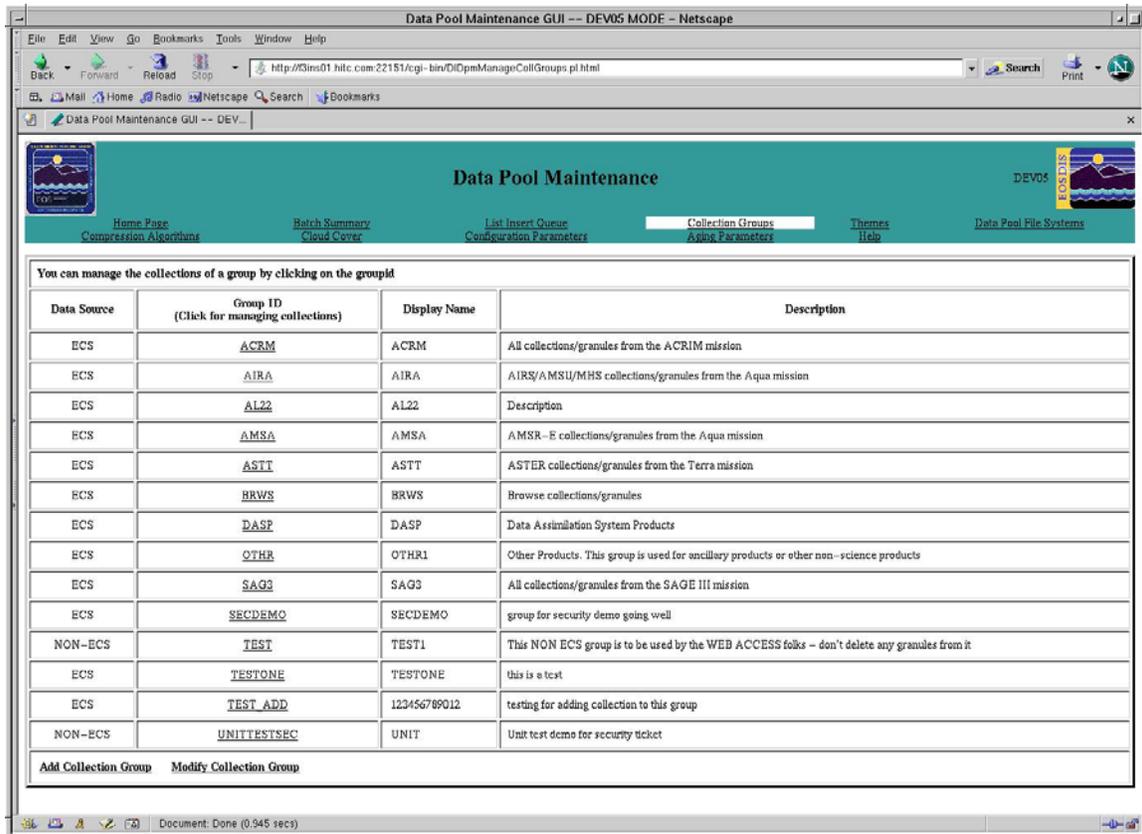
Field Name	Data Type	Size	Entry	Description
MFSONInsert	Char	1	Optional	Availability of multiple file system on insert. Actual value set to Y(YES) / N(NO). Default is N (NO).
MaxInsertRetries	Integer	4	Optional	The maximum number of times an insert should be tried again (-1 means forever).
MaxReadDrivesPerArchive	Integer	4	Optional	Maximum numbers of simultaneous tape drives in used.
MaxTapeMountPerRequest	Integer	4	Optional	Maximum number of tape mount allow per request.
NewActionCheckFrequency	Integer	4	Optional	The frequency in seconds for checking for new actions. DPAD always checks if we are out of actions that can be dispatched, so unless getting things queued up in memory is urgent, this could be a time interval of minutes.
NumOfAllowedCacheProcesses	Integer	4	Optional	The maximum number of insert processes that require ARCHIVE access to cache.
NumOfAllowedInsertProcesses	Integer	4	Optional	The maximum number of insert processes running at any time.
NumOfAllowedNonCacheProcesses	Integer	4	Optional	The maximum number of insert processes that require ARCHIVE access to tape.
OnTapeTimeLimit	Integer	4	Optional	The maximum time in hours operators are willing to wait for a DPIU process to complete whose files are not in cache. After that time, DPAD kills the process and retries the action.
RefreshRate	Integer	4	Optional	The DPM Home Page refresh rate in seconds.
RunAwayCheckFrequency	Integer	4	Optional	The frequency in seconds for checking for runaway processes. Recommend not making it much smaller than InCacheTimeLimit.

**Table 4.8.10-4. Manage Configuration Parameters Field Description (3 of 3)**

Field Name	Data Type	Size	Entry	Description
SizeOfActiveInsertList	Integer	4	Optional	Active Insert Process List chunk size.
SizeOfInsertQueueList	Integer	4	Optional	The number of Data Pool Insert Queue entries that can be displayed at any one time by the DPM GUI.
StartUpWait	Integer	4	Optional	The number of seconds to delay start-up while trying to clean out left over DPIU processes.

#### 4.8.10.1.5 Collection Groups Tab

The Collection Groups Screen shown in Figure 4.8.10-8 allows the operator to view collection groups in the Data Pool database and navigate to the functions described in the following sections. See Table 4.8.10-5 for descriptors of the Collection Group screen.



**Figure 4.8.10-8. Collection Groups Screen Currently in the Data Pool**

**Table 4.8.10-5. Collection Group Field Descriptions**

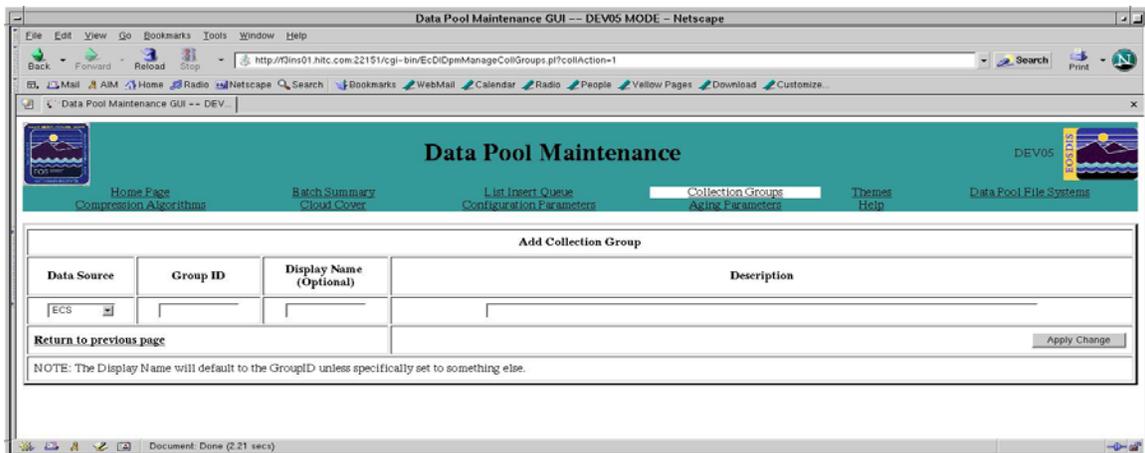
Field Name	Data Type	Size	Entry	Description
Data Source	Character	6	Required	To describe the source of the data whether ECS or NONECS.
Group ID	Character	12	Required	An up-to twelve letter identifier ([A-Z],[0-9] or underscore) of the group.
Display Name	Character	12	Optional	A twelve letter identifier of the display name (if left blank defaults to Group ID). (possible characters are [A-Z],[0-9], underscore or blank).
Description	Character	255	Required	A description for the collection group. It is scrollable up to 255 characters.

The **Add Collection Group** link will allow the user to add a new collection to the collection group and the **Modify Collection Group** link allows any changes to be made to the collection group.

**Note:** Limited capability users cannot click ‘Add Collection Group’ or ‘Modify Collection Group’ links.

#### 4.8.10.1.5.1 Add New Collection Group

The full-capability operator can add a new ECS or Non-ECS collection group by clicking on the **Add Collection Group** link shown in Figure 4.8.10-8. This link will take the operator to the screen shown in Figure 4.8.10-9. To create a new group, the operator is required to enter the Group ID and Description, the Display Name is optional, and will default to the Group ID if nothing is entered. The Display Name is used for Web Drill Down. After entering the new collection group, click on the **Apply Change** button. The new collection group will be added to the Data Pool database and the List of Collection Groups screen will be refreshed. See Table 4.8.10-6 for Add Collection Group parameters.



**Figure 4.8.10-9. Add Collection Group Screen**

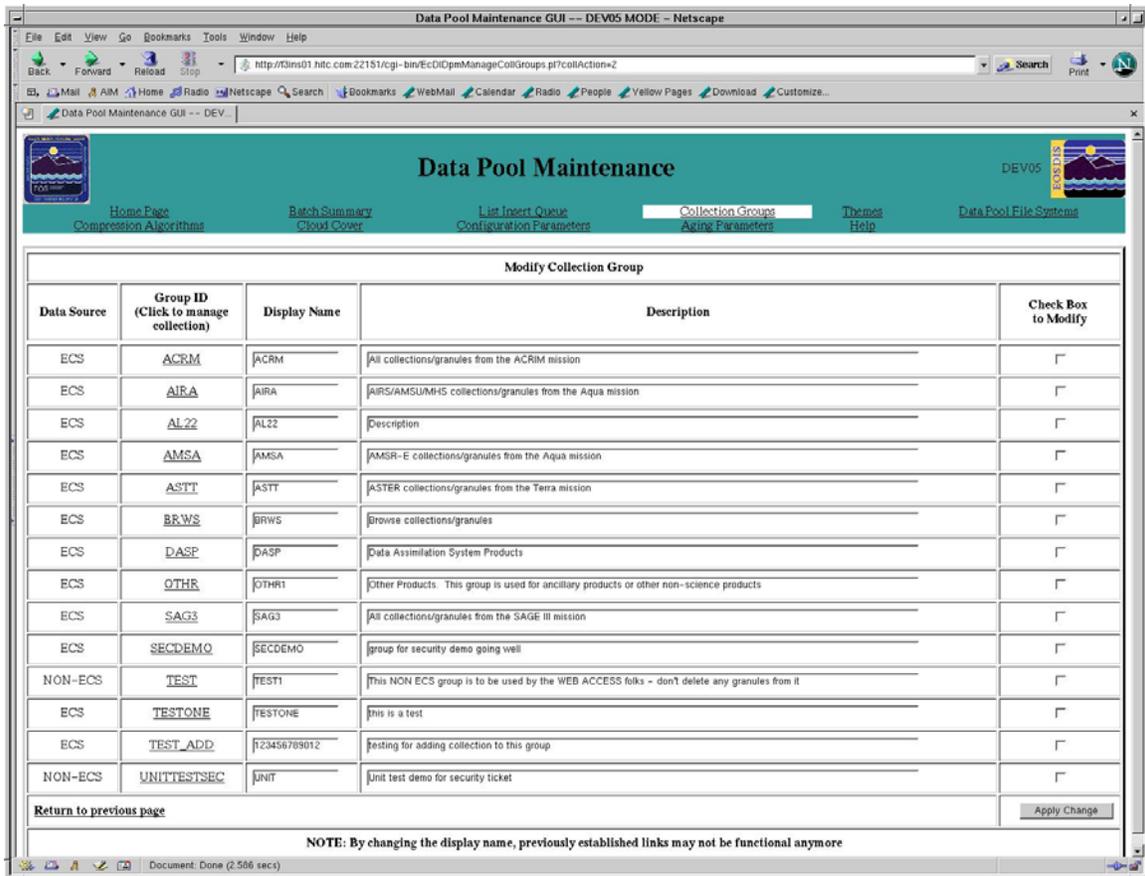
**Note:** Limited Capability users cannot use this functionality.

**Table 4.8.10-6. Add Collection Group Field Description**

Field Name	Data Type	Size	Entry	Description
Data Source	Character	6	Required	To describe the source of the data whether ECS or NONECS.
Group ID	Character	12	Required	An up-to twelve letter identifier ([A-Z],[0-9] or underscore) of the group.
Display Name	Character	12	Optional	A twelve letter identifier of the display name (if left blank defaults to Group ID). (possible characters are [A-Z],[0-9], underscore or blank).
Description	Character	255	Required	A description for the collection group. It is scrollable up to 255 characters.

#### 4.8.10.1.5.2 Modify Collection Group Description

The full-capability operator can modify the description and display name for a collection group by clicking on the **Modify Collection Group** link shown in Figure 4.8.10-8. This link will take the operator to the screen shown in Figure 4.8.10-10. The operator can modify the description and display name for a collection group. After making a change, click on the **Check Box To Modify** checkbox, adjacent to the collection group description. After making all changes, click on the **Apply Change** button. The changes will be applied to the Data Pool database and the **List of Collection Groups** screen will be refreshed. See Table 4.8.10-7 for a description of the Modify Collection Group parameters.



**Figure 4.8.10-10. Modify Collection Group Screen (This Screen is Called from Figure 4.8.10-8 and Allows Full Capacity Operator to Modify the Collection Group).**

**Note:** Limited Capability users cannot use this functionality.

**Table 4.8.10-7. Modify Collection Group Field Description**

Field Name	Data Type	Size	Entry	Description
Data Source	Character	6	Required	To describe the source of the data whether ECS or NONECS.
Group ID	Character	12	Required	An up-to twelve letter identifier ([A-Z],[0-9] or underscore) of the group.
Display Name	Char	12	Optional	Display name for the collection group.
Description	Char	100	Optional	A description for the collection group.

### 4.8.10.1.5.3 View Collections

The operator can view the collections associated with a collection group by clicking on the **GroupId** link shown in Figure 4.8.10-8. This link will take the operator to the Collections Associated with an ECS and Non-ECS Collection Group screen shown in Figure 4.8.10-11. **File System** 1 indicates a particular Data Pool file system. The default is to show all the collections from all Data Pool file system for a group. A drop down list will provide the operator the labels of all available file systems. The operator can use this list to filter the display of collections. The **Data Source** and **Group ID** are presented at the top of the table as a reference for which group is currently being viewed. See Table 4.8.10-8 for descriptions of the View Collection page entries.

**Data Pool Maintenance** DEV05

Home Page    Batch Summary    List Insert Queue    Collection Groups    Themes    Data Pool File Systems  
 Compression Algorithms    Cloud Cover    Configuration Parameters    Aging Parameters    Help

Data Source: ECS Group ID: AIRA Display Name: AIRA Description: AIRS/AMSU/MHS collections/granules from the Aqua mission

File System: ALL    Apply Filter

Collection (Click for Detail Information)	Version	Compression Command Label	Science Granules and/or Metadata	Data Pool Insertion	HEG Processing	Export Urls to ECHO	Quality Summary Url	Spatial Search Type	Global Coverage	Day/Night Coverage	24 Hour Coverage	Cloud Coverage
<a href="#">AIR10SCC</a>	001	NONE	science and metadata	valid for Data Pool	Disabled	No	<a href="http://www.summary.com/quality.html">http://www.summary.com/quality.html</a>	Not supported	No	Yes	No	No
<a href="#">AIRBAQAP</a>	001	NONE	science and metadata	valid for Data Pool	Disabled	No	<a href="http://www.summary.com/quality.html">http://www.summary.com/quality.html</a>	Rectangle	No	Yes	No	No
<a href="#">AIRBAQAP</a>	099	NONE	science and metadata	valid for Data Pool	Disabled	No	<a href="http://www.summary.com/quality.html">http://www.summary.com/quality.html</a>	Rectangle	No	Yes	No	No
<a href="#">AIRIACAL</a>	001	NONE	science and metadata	valid for Data Pool	Disabled	No	<a href="http://www.summary.com/quality.html">http://www.summary.com/quality.html</a>	Rectangle	No	Yes	No	No
<a href="#">AIRIACAL</a>	099	NONE	science and metadata	valid for Data Pool	Disabled	No	<a href="http://www.summary.com/quality.html">http://www.summary.com/quality.html</a>	Rectangle	No	Yes	No	No
<a href="#">AIRIAHRE</a>	001	NONE	science and metadata	valid for Data Pool	Disabled	No	<a href="http://www.summary.com/quality.html">http://www.summary.com/quality.html</a>	Rectangle	No	Yes	No	No
<a href="#">AIRIAHRE</a>	099	NONE	science and metadata	valid for Data Pool	Disabled	No	<a href="http://www.summary.com/quality.html">http://www.summary.com/quality.html</a>	Rectangle	No	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

**Figure 4.8.10-11. Collections Associated with Collection Groups**

**Note:** Limited Capability users cannot click ‘Add Collection’ link.

**Table 4.8.10-8. View Collection Group Field Description**

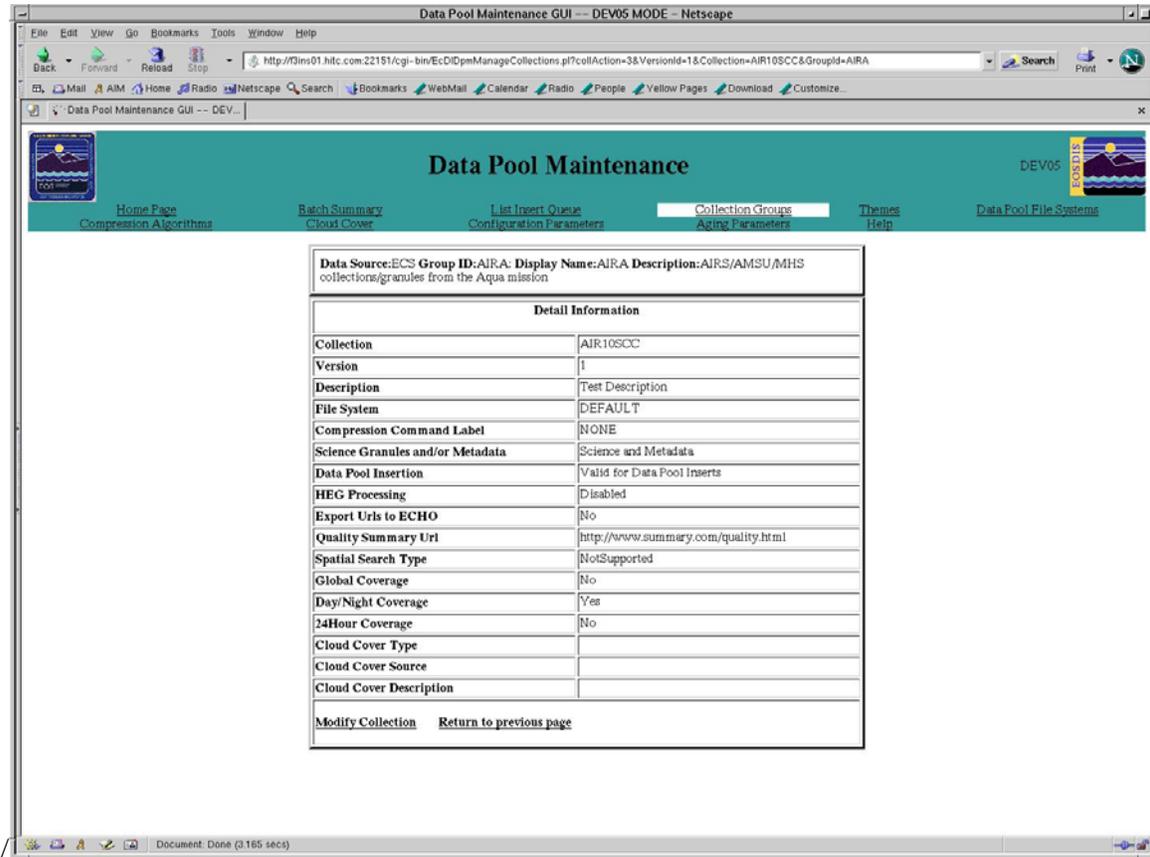
Field Name	Data Type	Size	Entry	Description
Data Source	Character	6	Required	To describe the source of the data whether ECS or NONECS.
Group ID	Character	12	Required	An up-to twelve letter identifier ([A-Z],[0-9] or underscore) of the group.
Display Name	Char	12	Optional	Display name for the collection group.
Description	Char	100	Optional	A description for the collection group.
Collection	Char	8	System Generated	Name of a collection.
Version	Integer	1	System Generated	Version number of collection.
Compression Command Label	Char	n/a	Optional	Indicated label for compression command.
Science Granules and/or Metadata	Char	n/a	Optional	Indicate whether collection whether collection is Science Granules and/or Metadata.
Data Pool Insertion	Char	n/a	Optional	Indicates if the collection is eligible for insertion into Data Pool.
HEG Processing	Char	n/a	System Generated	Indicates if HEG processing is available or not
Export Urls to ECHO	Char	n/a	System Generated	Indicates in URL need to be exported or not
Quality Summary Url	Char	80	Optional	URL that describes the quality summary of a collection. Scrollable up to 255 characters
Spatial Search Type	Char	n/a	System Generated	Indicates if Spatial Search is required/needed.
Global Coverage	Char	1	Optional	Indicated if global coverage is needed.
Day/Night Coverage	Char	1	Optional	Indicate if day or night coverage is needed.
24 Hour Coverage	Char	1	Optional	Indicate if 24-hour coverage is needed.
Cloud Coverage	Char	1	Optional	Indicate if cloud coverage is needed.

The **Add Collection Group** link will allow the user to add a new collection to the collection group and the **Return to previous page** link will take the user to the page prior.

#### 4.8.10.1.5.4 View Collection Description

The operator can view the detail description for a collection by clicking on the Collection link shown in Figure 4.8.10-11. This link will take the operator to the Description of a Collection screen shown in Figure 4.8.10-12. This page will give detail information about an ECS or Non-ECS collection. Modify Collection will display the modify collection page for full capability

operators. The operator can return to the previous page by clicking on the ‘Return to previous page’ link.



**Figure 4.8.10-12. Description of a Collection**

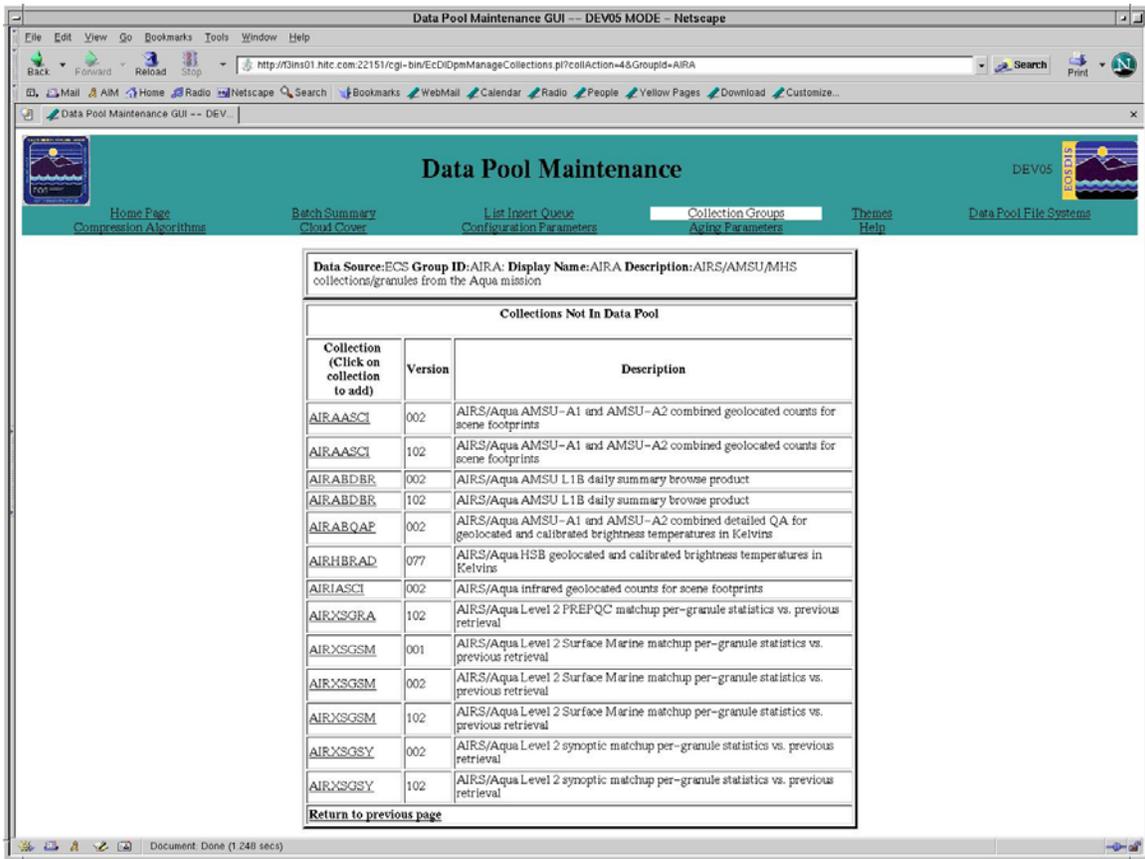
Field descriptions for the screen can be found in Table 4.8.10-9.

**Note:** Limited Capability users cannot click ‘Modify Collection’ link.

#### **4.8.10.1.5.5 Add New Collection to Existing Collection Group**

The full-capability operator can add an ECS collection by clicking on the **Add New Collection** link shown in Figure 4.8.10-11. An ECS collection can be added to an ECS Collection Group and a Non-ECS collection can be added to a Non-ECS group. The procedure for adding collections for ECS and Non-ECS groups are different. The operator can add a collection by clicking on the **Add New Collection** link in Figure 4.8.10-11. For ECS Group this link will take the operator to Figure 4.8.10-13, which displays a list of collections with its version number and description that are not in the Data Pool database. The operator can add any one of these collections to the group by clicking on the collection link. This will bring up the Add Collection

page for an ECS Collection shown in Figure 4.8.10-12. The operator can add a Non-ECS collection to a Non-ECS group by clicking on an **Add New Collection** link on a Non-ECS Collection Group Screen. This action will bring up Add Collection screen for a Non-ECS Collection shown in Figure 4.8.10-16.



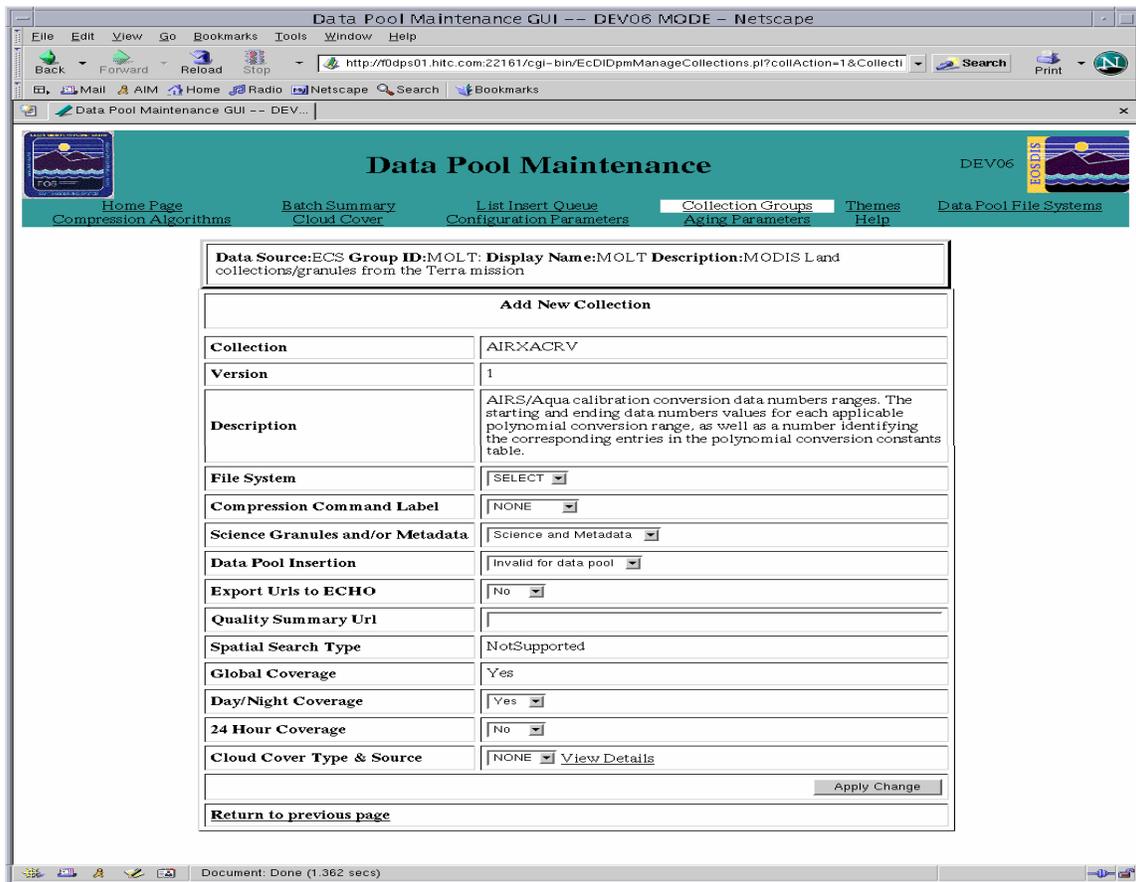
**Figure 4.8.10-13. List of Collection Not in Data Pool**

**Note:** This page is not accessible by Limited Capability users.

The full-capability operator can arrive at the Add ECS Collection page shown in Figure 4.8.10-14 by clicking on a collection link shown in Figure 4.8.10-11. Collection name, Version and Descriptions are predefined and cannot be changed. The operator can associate a collection with a File System label and Compression Command Label. Defaults for these two items are nulls. The Science Granules and /or Metadata row indicates if the collection is valid for science granule and metadata insertion or metadata only. The default value is science and metadata insertion. The operator can set the value to Metadata Only to indicate Metadata insertion only. The Data Pool Insertion indicates if the collection is eligible for insertion into Data Pool. The default value is invalid for data pool. The operator must set the value to valid for data pool to

make the collection eligible for insertion into Data Pool. The Spatial Search Type indicates the types of search criteria used for Spatial searches such as GPolygon, Rectangle, or Orbit. The operator can also set the global coverage flag to on/off. Default value for this flag is on. There are two more flag has on/off values can be set for a collection. Default for Day/Night flag is on and 24 hour flag is off. After creating the Quality Summary web page, the operators will enter the URL in the text area reserved for quality summary URL and thus associate the URL for the Quality Summary web page. A collection can be associated with a cloud cover attribute and its type. The operator can configure that in this page. There is also a text area to enter the cloud cover description. Defaults for quality summary, cloud cover attribute, cloud cover type and cloud cover description are nulls.

After making necessary selections the operator must press on **Apply Change** button to add the collection.



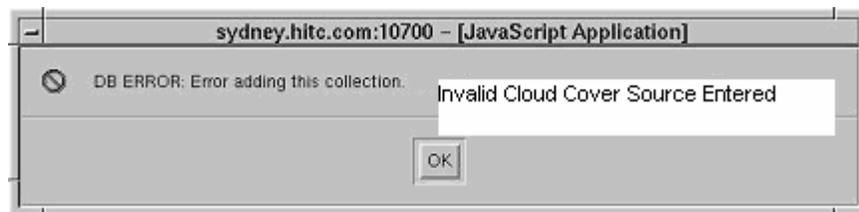
**Figure 4.8.10-14. Add ECS Collection Page (This Page is only Accessible by Full Capability Operators).**

**Table 4.8.10-9. Add ECS Collection**

Field Name	Data Type	Size	Entry	Description
Collection	Char	8	System Generated	Name of a collection.
Version	Integer	1	System Generated	Version number of collection.
Description	Char	80	Optional	Description of collection. Scrollable up to 255 characters.
File System	Char	n/a	Optional	File system path
Compression Command Label	Char	n/a	Optional	Indicated label for compression command.
Science Granules and/or Metadata	Char	n/a	Optional	Indicate whether collection whether collection is Science Granules and/or Metadata.
Data Pool Insertion	Char	n/a	Optional	Indicates if the collection is eligible for insertion into Data Pool.
Export Urls to ECHO	Char	1	Optional	Indicates if this collection is to be exported to ECHO.
Quality Summary URL	Char	80	Optional	URL that describes the quality summary of a collection. Scrollable up to 255 characters
Spatial Search Type	Char	n/a	System Generated	Indicates if Spatial Search is required/needed.
Global Coverage	Char	1	Optional	Indicated if global coverage is needed.
Day/Night Coverage	Char	1	Optional	Indicate if day or night coverage is needed.
24 Hour Coverage	Char	1	Optional	Indicate if 24-hour coverage is needed.
Cloud Cover Type and Source	Char	n/a	Optional	Source and type name for a cloud cover.

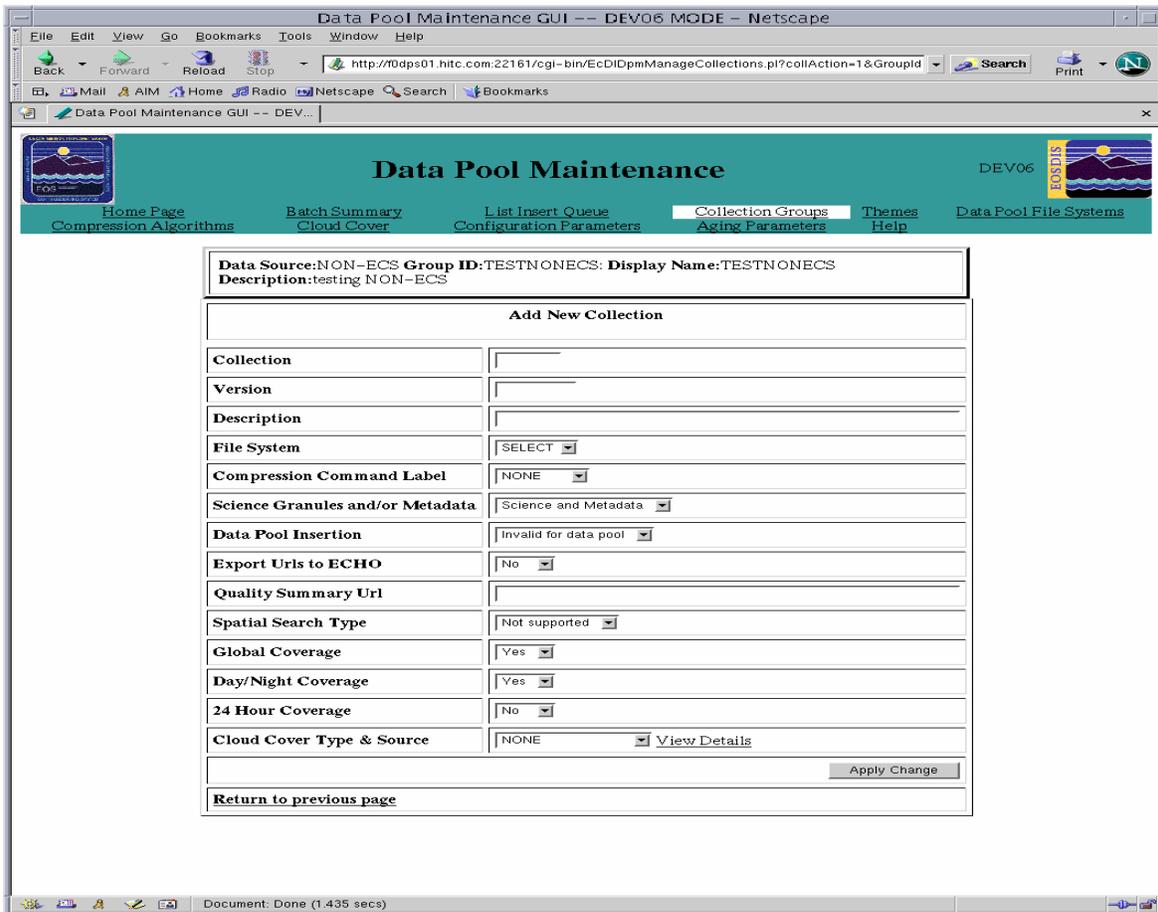
Entries for Cloud Cover attribute and type must be verified against SDSRV database.

An error window as shown in Figure 4.8.10-15 will pop up to indicate that collection cannot be added due to wrong cloud cover information. Click **OK** to dismiss the error window.



**Figure 4.8.10-15. Error Window**

The operator can add a Non-ECS collection to a Non-ECS group by clicking on an **Add New Collection** link in a Collections Associated with a Non-ECS Collection Group Screen. This action will bring up Add Collection screen for a Non-ECS Collection shown in Figure 4.8.10-16. The operator needs to enter a Collection name and Version number. These two fields are required. The operator can provide an optional collection Description for the collection. The operator can associate a collection with a File System label and Compression Command Label. Defaults for these two items are nulls. The Science Granules and /or Metadata row indicates if the collection is valid for science granule and metadata insertion or metadata only. The default value is science and metadata insertion. The operator can set the value to Metadata Only to indicate Metadata insertion only. The Data Pool Insertion indicates if the collection is eligible for insertion into Data Pool. The default value is invalid for data pool. The operator must set the value to valid for data pool to make the collection eligible for insertion into Data Pool. NONECS collections can also have the option to configure Spatial Search Type for a collection. Options provided are 'Not supported', 'Rectangle', Gpolygon and 'Orbit'. Default value for Spatial Search Type is 'Not Supported'. The operator can also set the global coverage flag to on/off. Default value for this flag is on. There are two more flag has on/off values can be set for a collection. Default for Day/Night Coverage flag is on and 24 hour coverage flag is off. After creating the Quality Summary web page, the operators will enter the URL in the text area reserved for quality summary URL and thus associate the URL for the Quality Summary web page. A collection can be associated with a Cloud Cover Type and Source attribute. The operator can configure that in this page. There is also a text area to enter the cloud cover description. Defaults for quality summary, cloud cover attribute, cloud cover type and cloud cover description are null. After making necessary selections operator must press on **Apply Change** button to add the collection. Table 4.8.10-10 gives descriptors for each of the Add New Non-ECS Collection entries.



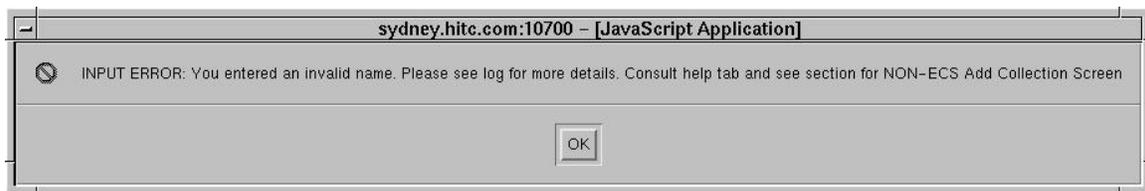
**Figure 4.8.10-16. Add Non-ECS Collection Page (This Page is Only Accessible by Full Capability Operators).**

**Note:** Limited Capability users cannot use this functionality.

**Table 4.8.10-10. Add Non-ECS Collection**

Field Name	Data Type	Size	Entry	Description
Collection	Char	8	Required	Name of a collection.
Version	Integer	1	Required	Version number of collection.
Description	Char	80	Required	Description of collection. Scrollable up to 255 characters.
File System	Char	n/a	Optional	File system path
Compression Command Label	Char	n/a	Optional	Indicated label for compression command.
Science Granules and/or Metadata	Char	n/a	Optional	Indicate whether collection whether collection is Science Granules and/or Metadata.
Data Pool Insertion	Char	n/a	Optional	Indicates if the collection is eligible for insertion into Data Pool.
Export Urls to ECHO	Char	1	Optional	Indicates if this collection is to be exported to ECHO.
Quality Summary URL	Char	80	Optional	URL that describes the quality summary of a collection. Scrollable up to 255 characters
Spatial Search Type	Char	n/a	Optional	Indicates if Spatial Search is required/needed and its type.
Global Coverage	Char	1	Optional	Indicated if global coverage is needed.
Day/Night Coverage	Char	1	Optional	Indicate if day or night coverage is needed.
24 Hour Coverage	Char	1	Optional	Indicate if 24-hour coverage is needed.

Entry for Non-ECS Collection name is verified against input error. It is also verified against same name and same version ID. An error window, as shown in Figure 4.8.10.17 and Figure 4.8.10.18 will pop up for each case on the Add Collection screen. Click **OK** to dismiss the error window.



**Figure 4.8.10-17. Input Error Window**

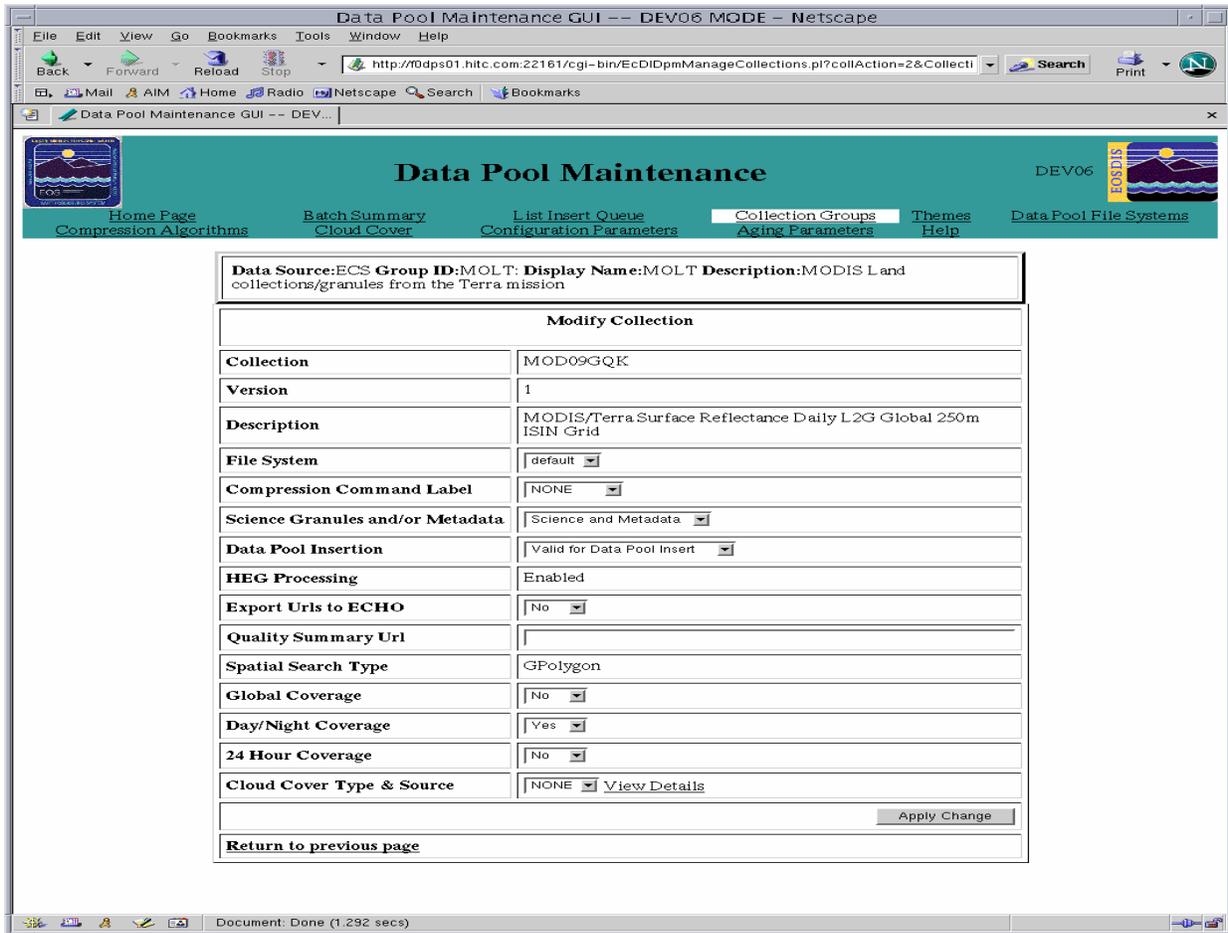


**Figure 4.8.10-18. DB Error Window**

#### **4.8.10.1.5.6 Modify Existing Collection**

The full-capability operator can modify a collection by clicking on the **Modify Collection** link shown in Figure 4.8.10-12 will take the operator to the Modify Collection page. There is one difference between the ECS and NON-ECS modify page. The ECS modify page does not allow the operator to modify a collection's description. The NON-ECS modify page allows the description field to be updated. Figure 4.8.10-19 describes modify an ECS collection example page and Figure 4.8.10-20 describes a NON-ECS modify page.

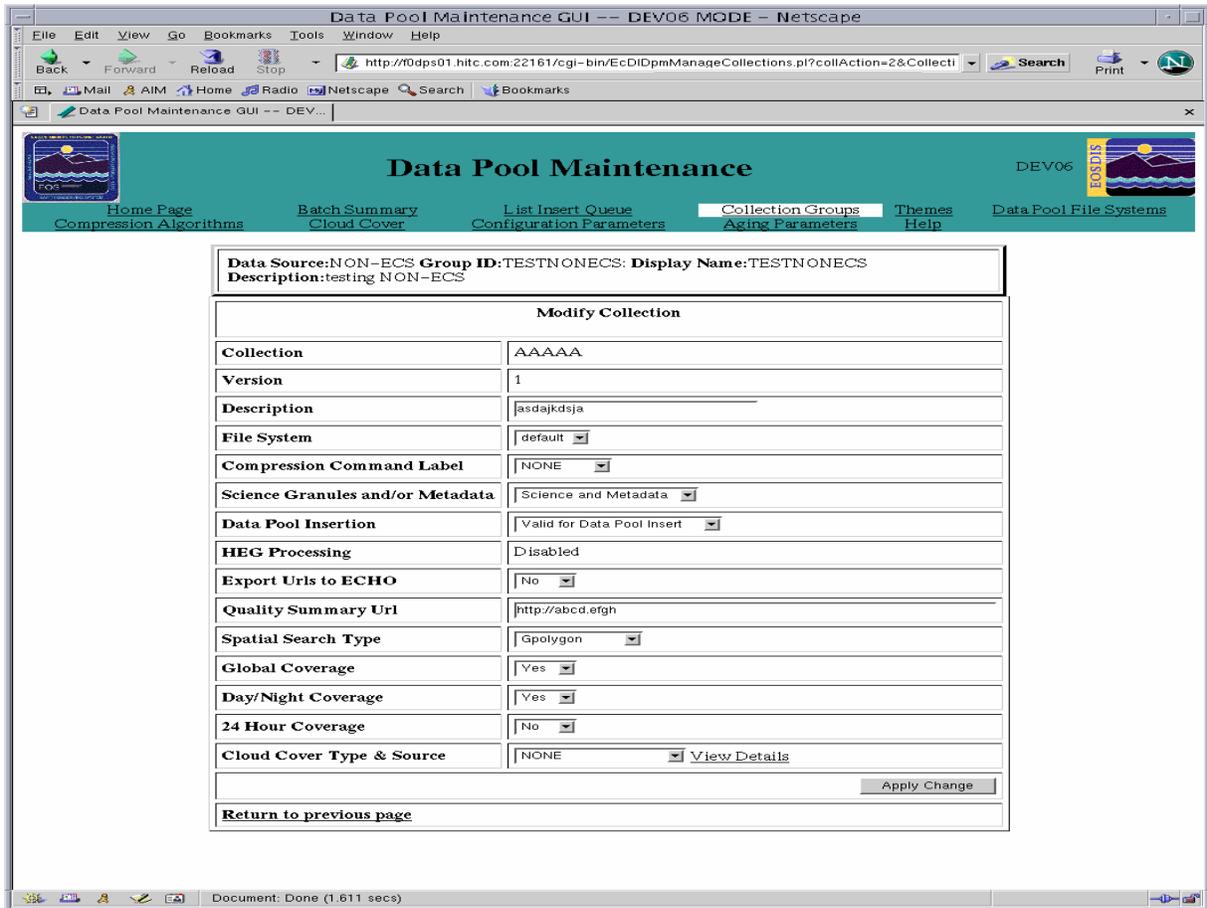
Both modify pages displays current information and allow operator modifications. After all desired changes are entered, the operator needs to click on the button called **Apply Change**. This action will change the data in database.



**Figure 4.8.10-19. ECS Modify Collection Screen**

**Note:** Limited Capability users cannot use this functionality.

Field descriptions for the screen can be found in Table 4.8.10-9.



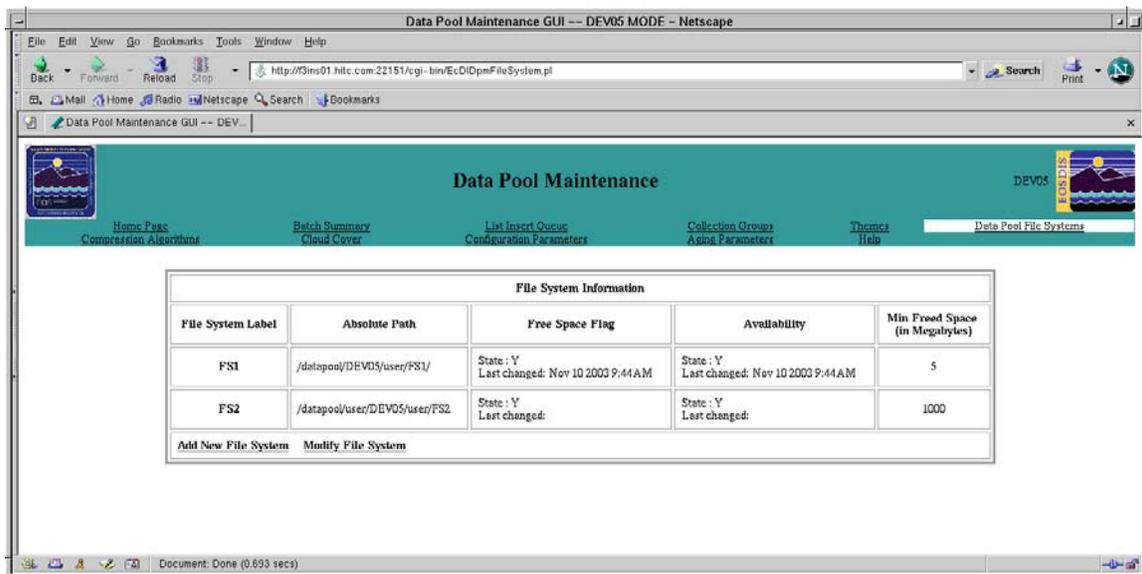
**Figure 4.8.10-20. Non-ECS Modify Collections Screen**

Field descriptions for the screen can be found in Table 4.8.10-10.

Note: Limited Capability users cannot use this functionality.

#### 4.8.10.1.6 Data Pool File System Tab

**Manage File System** screen shown in Figure 4.8.10-21 allows the operator to view a list of file systems and information on Free Space Flag, Availability for insert, and Min Freed Space Amount. From this page the full capability operator can also configure a new file system and modifying an existing one by clicking on the link **Add New File System** and **Modify Data Pool File System Information** link respectively. Clicking on **Add New File System** will take the operator to 'Add New File System' page shown in Figure 4.8.10-22. The operators need to add five fields --- 1) File System Label: A label representing an existing Data Pool file system. 2) Free Space Flag: Value needs to be set is either ON or OFF. If is set to ON that means free space is available. If it is set to OFF then that means free space is not available. 3) Availability for Insert: Value needs to be set is either 'Available' or 'Unavailable'. If the value is set to 'Available' that means file system is available for Data Pool insert. If the value is set to 'Unavailable' that means file system is not available for Data Pool insert. 4): Absolute Path: indicates path name to location. 5) Min Freed Space: Need to enter an integer value, which represent megabytes of space. This amount space must remain free in order to make the file system available for insert. Clicking on **Modify File System** will take the operator to 'Modify File System Information' page shown in Figure 4.8.10-23. The operator can change Free Space Flag, Availability for insert flag, and the Min Freed Space Amount in this page. There are check boxes associated with each file system. The operator can change multiple file system at one time by checking the desired file system's checkboxes and press on **Apply Change** button.



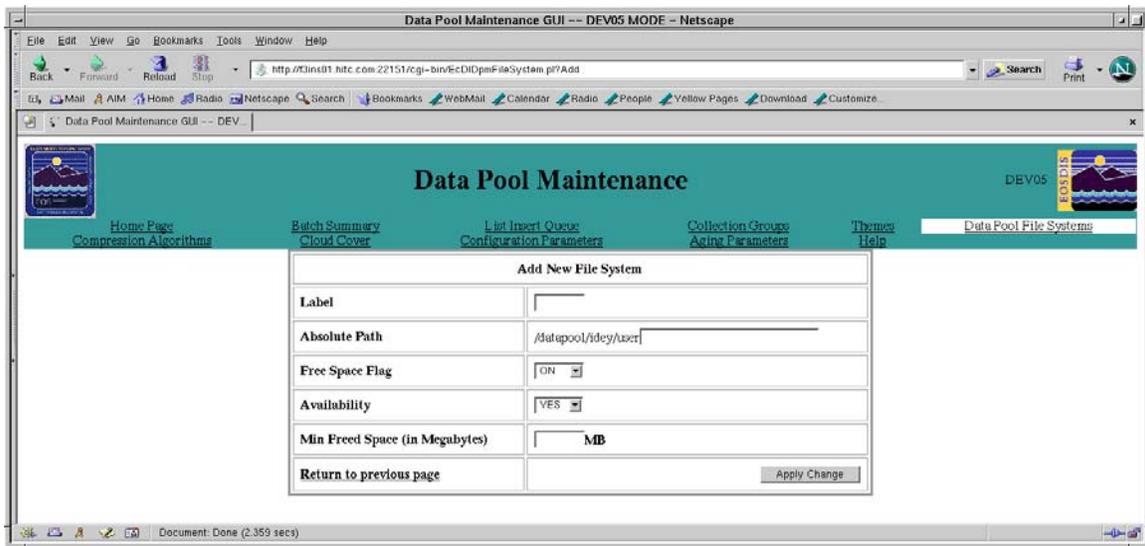
**Figure 4.8.10-21. Data Pool File System Information Screen**

Field descriptions for the screen can be found in Table 4.8.10-11.

**Note:** Limited Capability users cannot click 'Add New File System' or 'Modify File System' links.

**Table 4.8.10-11. File System Information Field Description**

Field Name	Data Type	Size	Entry	Description
Label	char	10	Required	File System Label. Limited to 10 characters.
Absolute Path	char	255	Required	File system's absolute path. Only relative path is modifiable. Limited to 255 characters for the entire path.
Free Space Flag	char	1	Optional	Indicates if space is available for Data Pool insert. 'ON' value indicates that space is available. Default is 'ON'.
Availability	char	1	Optional	File system available for insert. Value 'YES' indicate it is available and value 'NO' it is not available. The default value is 'YES'.
Min Freed Space (in Megabytes)	int	4	Optional	Amount space must be freed in order to make the file system available



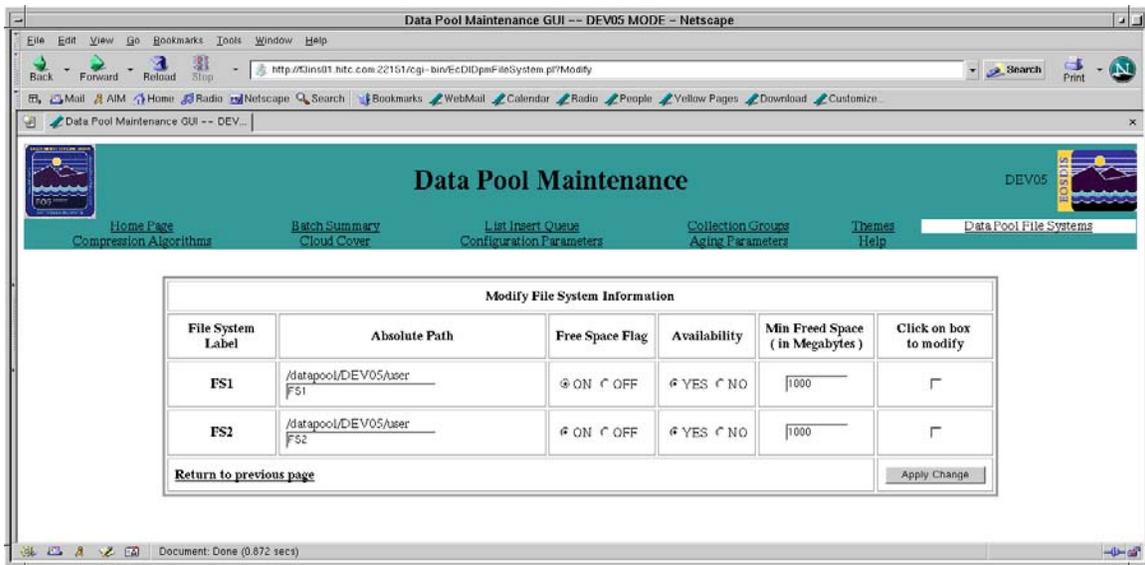
**Figure 4.8.10-22. Add New File System Screen**

Field descriptions for the screen can be found in Table 4.8.10-12.

**Note:** Limited Capability users cannot use this functionality.

**Table 4.8.10-12. Add New File System Field Description**

Field Name	Data Type	Size	Entry	Description
Label	char	10	Required	File System Label. Limited to 10 characters.
Absolute Path	char	255	Required	File system's absolute path. Only relative path is modifiable. Limited to 255 characters for the entire path.
Free Space Flag	char	1	Optional	Indicates if space is available for Data Pool insert. 'ON' value indicates that space is available. Default is 'ON'.
Availability	char	1	Optional	File system available for insert. Value 'YES' indicate it is available and value 'NO' it is not available. The default value is 'YES'.
Min Freed Space (in Megabytes)	int	4	Optional	Amount space must be freed in order to make the file system available



**Figure 4.8.10-23. Modify File System Information Screen**

Field descriptions for the screen can be found in Table 4.8.10-13.

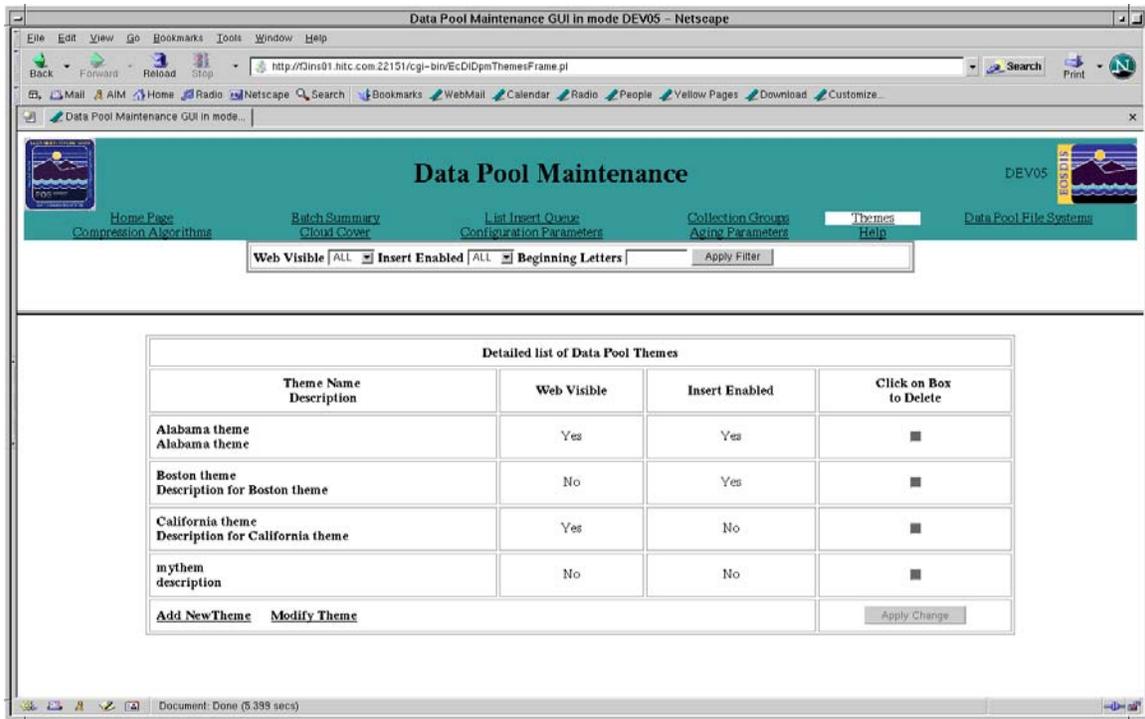
**Note:** Limited Capability users cannot use this functionality.

**Table 4.8.10-13. Modify File System Information Field Description**

Field Name	Data Type	Size	Entry	Description
File System Label	char	10	Required	File System Label. Limited to 10 characters.
Absolute Path	char	255	Required	File system's absolute path. Only relative path is modifiable. Limited to 255 characters for the entire path.
Free Space Flag	char	1	Optional	Indicates if space is available for Data Pool insert. 'ON' value indicates that space is available. Default is 'ON'.
Availability	char	1	Optional	File system available for insert. Value 'YES' indicate it is available and value 'NO' it is not available. The default value is 'YES'.
Min Freed Space (in Megabytes)	int	4	Optional	Amount space must be freed in order to make the file system available
Click on box to modify	checkbox	1	Optional	Select when modifications are needed

#### 4.8.10.1.7 Themes Tab

The Themes screen shown in 4.8.10-24 allows the operator to view a list of themes in alphabetical order. This list can be filtered using three filter criteria: **Web Visible**, **Insert Enabled** and **Beginning Letters**. The options for **Web Visible**: Yes, No and ALL. The options for **Insert Enabled**: Yes, No and ALL. All of these criteria can be used together or separately. After selecting the option click. **Apply Filter** button to view the filtered list of themes. From this page the operator can also delete a theme by selecting the corresponding Click On Box To Delete check box and clicking on the "**Apply Change**" button. The operator can add a new theme by clicking on the **Add A New Theme** link. This link will take the operator to "Add New Theme" page shown in 4.8.10-25. The operator needs to add four fields regarding a theme: name, description, valid for insert or not and valid for web drill down or not. The operator also can modify an existing theme by clicking on the "**Modify Theme**" link from 4.8.10-24. This link will take the operator to the Modify Theme page shown in 4.8.10-28. Theme name is the only field that is not editable. The operator can modify the description of a theme by simply retyping in the text area. The operator also can change the option for Insert enabled and web enabled by selecting or deselecting the appropriate boxes. After making the selection the operator needs to select the check box corresponding to the theme and then press the **Apply Change** button. Upon pressing this button the changes will take effect in the Data Pool database and also the Manage Themes page in Figure 4.8.10-24 will be refreshed.



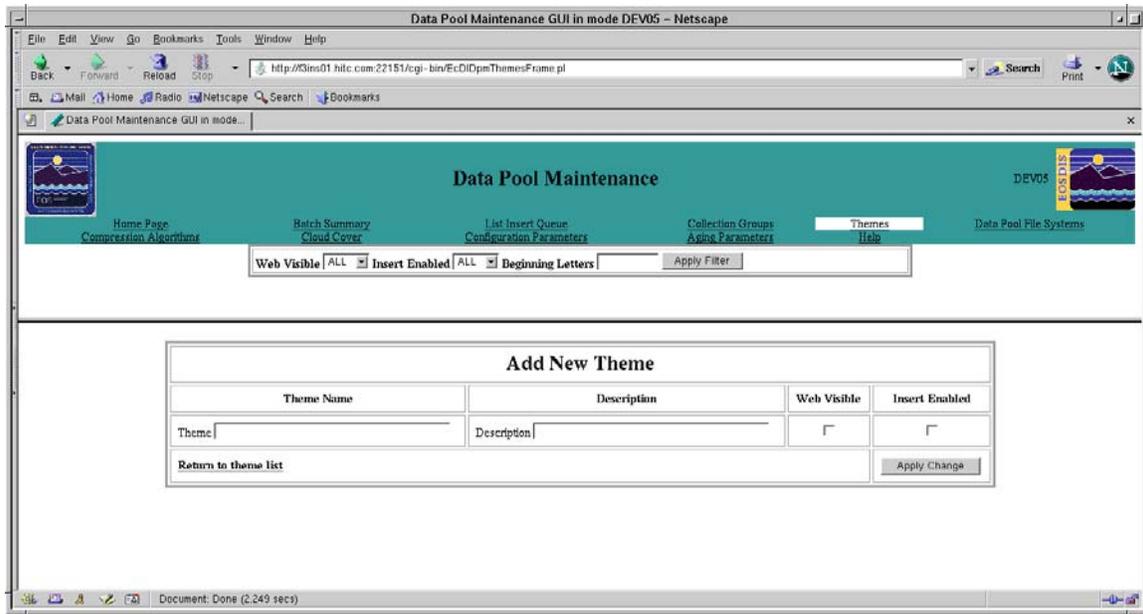
**Figure 4.8.10-24. Themes Screen**

**Note:** Limited Capability users cannot click ‘Add New Theme’ or ‘Modify Theme’ links. They also cannot delete themes. All check boxes and ‘Apply Change’ button cannot be clicked.

Table 4.8.10-14 lists the filter theme field descriptions.

**Table 4.8.10-14. Filter Theme Field Description**

Field Name	Data Type	Size	Entry	Description
Theme Name	char	40	Required	Partial or full name of a theme.
Description	char	100	Required	Description of the theme.
Web Visible	char	1	Optional	Availability for Web scroll down. The default will be system generated.
Insert Enabled	char	1	Optional	Enabled for Data Pool insert. The default will be system generated.
Click on Box to Delete	check box	1	Optional	Option to delete theme name and its corresponding information once box is checked



**Figure 4.8.10-25. Add a New Theme Screen**

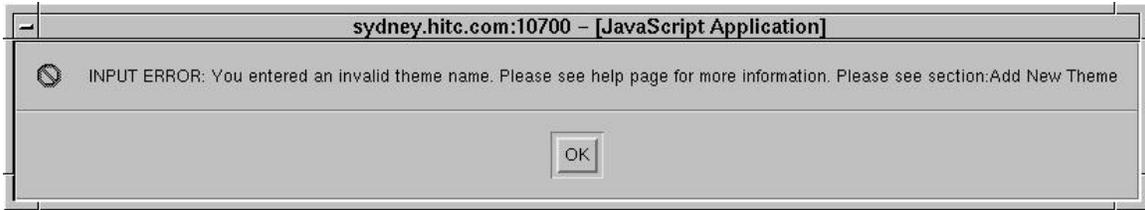
**Note:** Limited Capability users cannot use this functionality

See Table 4.8.10-15 below for field descriptors for the Add New Themes page.

**Table 4.8.10-15. Add a New Theme Field Description**

Field Name	Data Type	Size	Entry	Description
Theme Name	char	20	Required	Name of a theme. Scrollable up to 40 characters.
Description	char	100	Required	Description of a theme. Scrollable up to 255 characters.
Web Visible	Check box	1	Optional	Availability for Web scroll down.
Insert Enabled	Check box	1	Optional	Enabled for Data Pool insert.

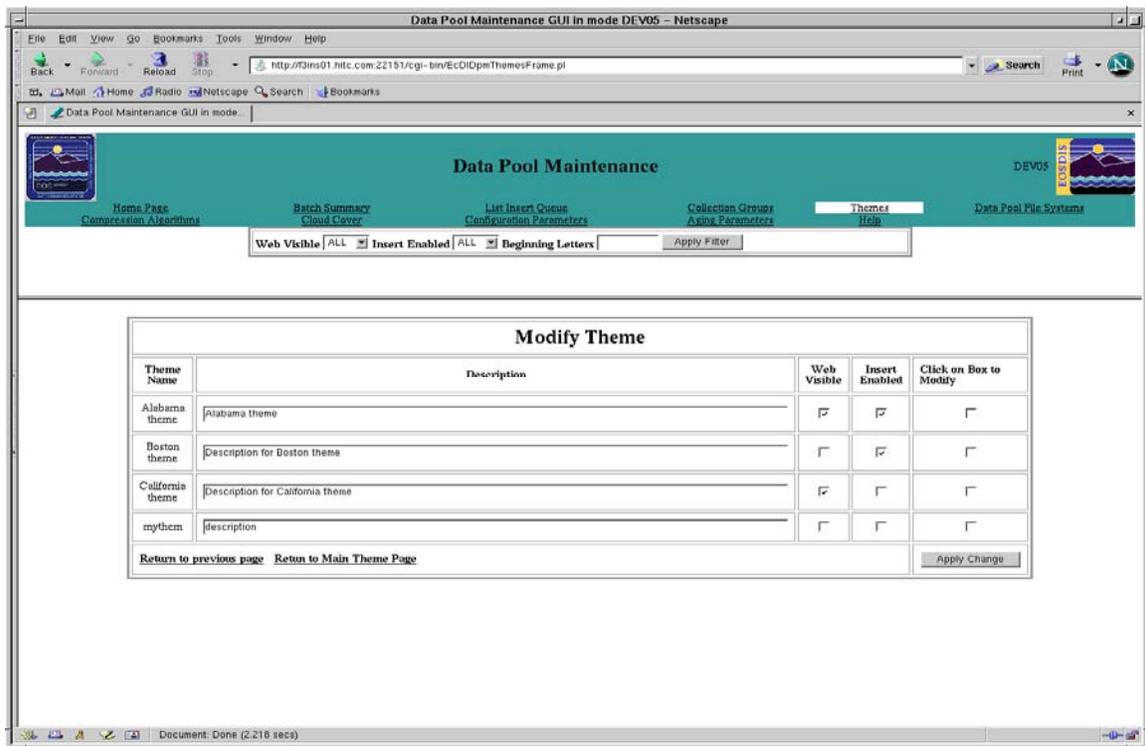
Theme names will be verified against input errors and name duplication. An error window will pop in each case over the **Add A New Theme** page to indicate the error, shown in the figures below. Click **OK** to dismiss the window.



**Figure 4.8.10-26. Input Error Screen**



**Figure 4.8.10-27. DB Error Screen**



**Figure 4.8.10-28. Modify Theme Screen**

**Note:** Limited Capability users cannot use this functionality.

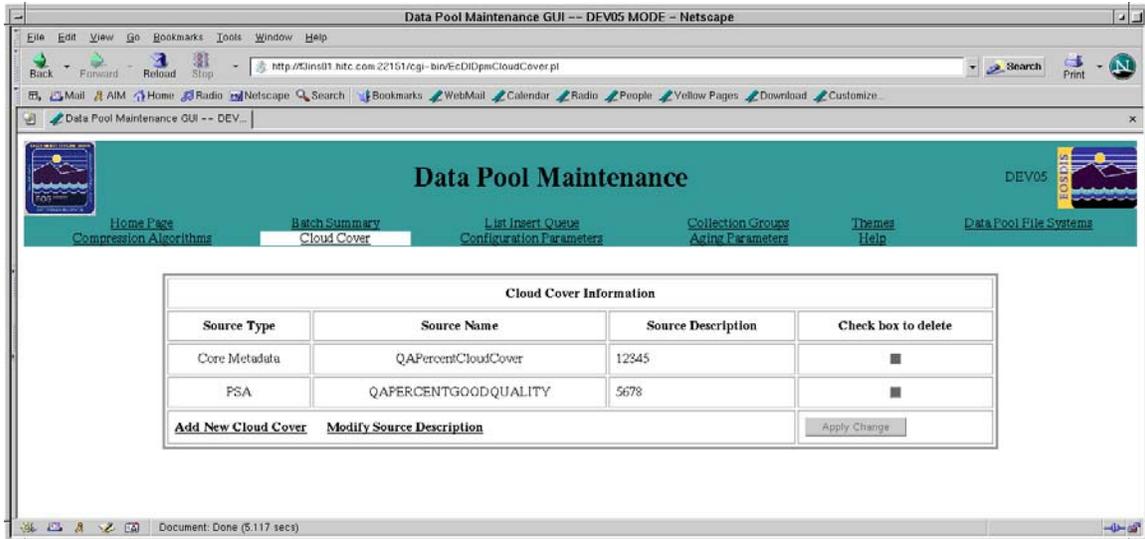
See Table 4.8.10-16 for Modify Theme Field Descriptions field descriptors.

**Table 4.8.10-16. Modify Theme Field Description**

Field Name	Data Type	Size	Entry	Description
Theme Name	char	20	Required	Name of a theme. Scrollable up to 40 characters.
Description	char	100	Optional	Description of a theme. Scrollable up to 255 characters.
Web Visible	check box	1	Optional	Availability for Web scroll down. Default will be not Web visible.
Insert Enabled	check box	1	Optional	Enabled for Data Pool insert. Default will be not available for insert.
Click on Box to Modify	checkbox	1	Optional	Select when modifications are needed

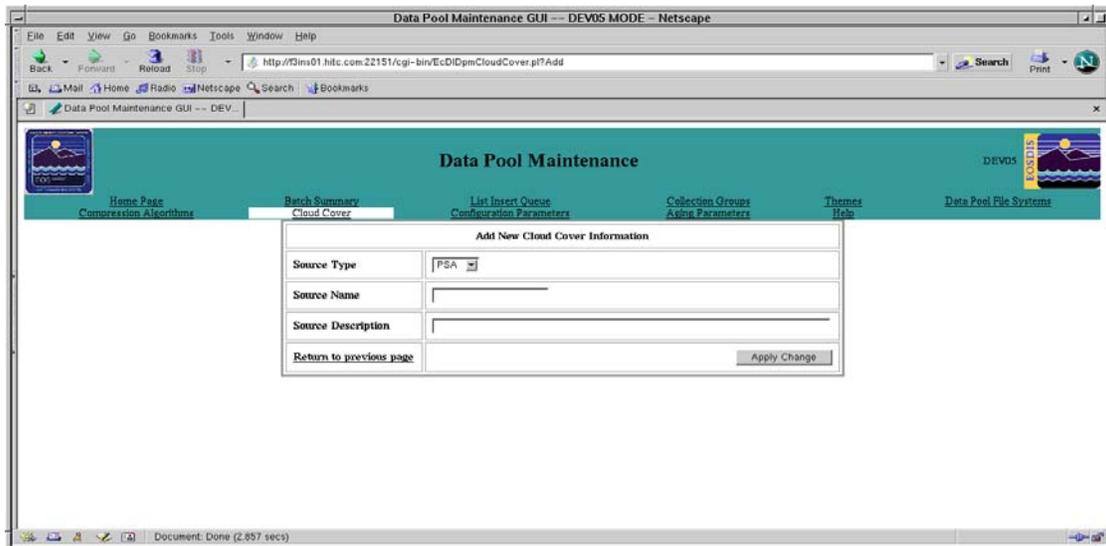
#### 4.8.10.1.8 Cloud Cover Tab

Cloud Cover Information screen shown in Figure 4.8.10-29 allows the operator to view a list of Cloud Cover source names, their types and descriptions. It also provides check boxes beside each cloud cover information rows to delete any of the entries. Only full capability operators can execute this delete operation. The full capability operators can also configure a new cloud cover information and modifying description of an existing one by clicking on the link Add New Cloud Cover and Modify Source Description link respectively. Clicking on **Add New Cloud Cover** will take the operator to ‘Add A New Cloud Cover Information’ page shown in Figure 4.8.10-30. The operators need to add three fields --- 1) Source Type: A drop down list consisting of types. Currently there are two types: Core Metadata and PSA (Product Specific Attribute) . If ‘Core Metadata’ is selected then source name will be automatically populated. 2) Source Name: Need to enter a valid source name if ‘PSA’ is selected for Source Type. 3) Source Description: Need to enter a description for the source. This description can be 255 characters long. Clicking on **Modify Source Description** will take the operator to ‘**Modify Cloud Cover Description**’ page shown in Figure 4.8.10-31. The operator can change the source description. There are check boxes associated with each cloud cover information. The operator can change information at one time by checking the desired cloud cover information’s checkboxes and press on **Apply Change** button. See Table 4.8.10-17 for field descriptors of the cloud cover pages.



**Figure 4.8.10-29. Cloud Cover Information Screen**

**Note:** Limited Capability users are not allowed to delete cloud cover information.

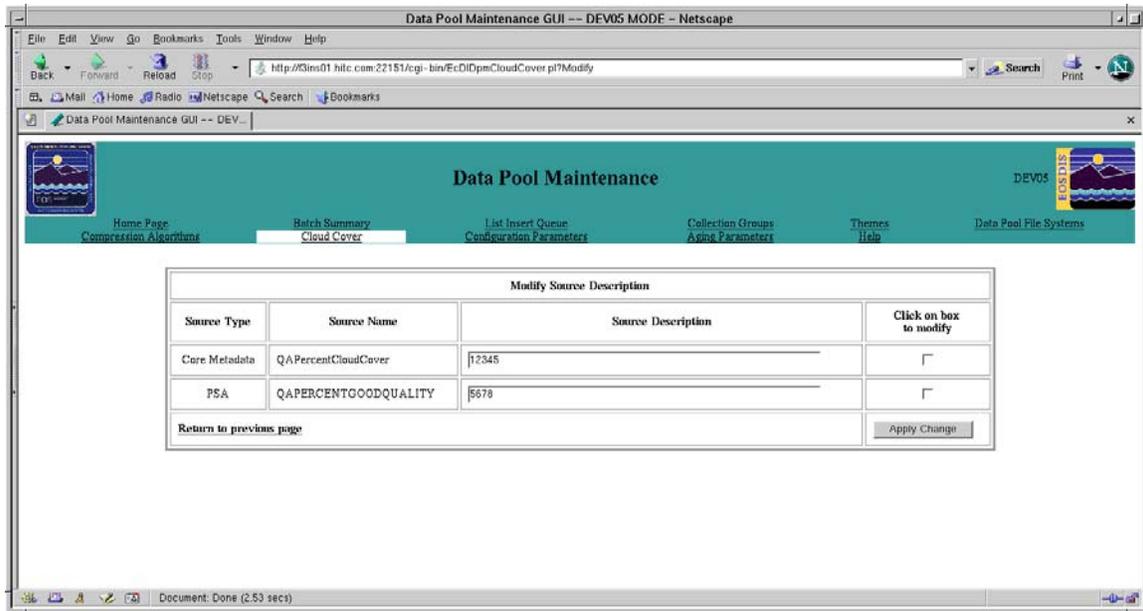


**Figure 4.8.10-30. Add a New Cloud Cover Information Screen**

**Note:** This page is not accessible by Limited Capability users.

**Table 4.8.10-17. Add A New Cloud Cover Information Field Description**

Field Name	Data Type	Size	Entry	Description
Source Type	char	30	Required	Cloud Cover source type
Source Name	char	20	Required	Valid source name
Source Description	char	30	Optional	Description about the source name. Up to 255 characters long
Click on box to delete	checkbox	1	Optional	Option to delete theme name and its corresponding information once box is checked



**Figure 4.8.10-31. Modify Cloud Cover Description Screen**

**Note:** This page is not accessible by Limited Capability users.

**Table 4.8.10-18. Modify Cloud Cover Description Field Description**

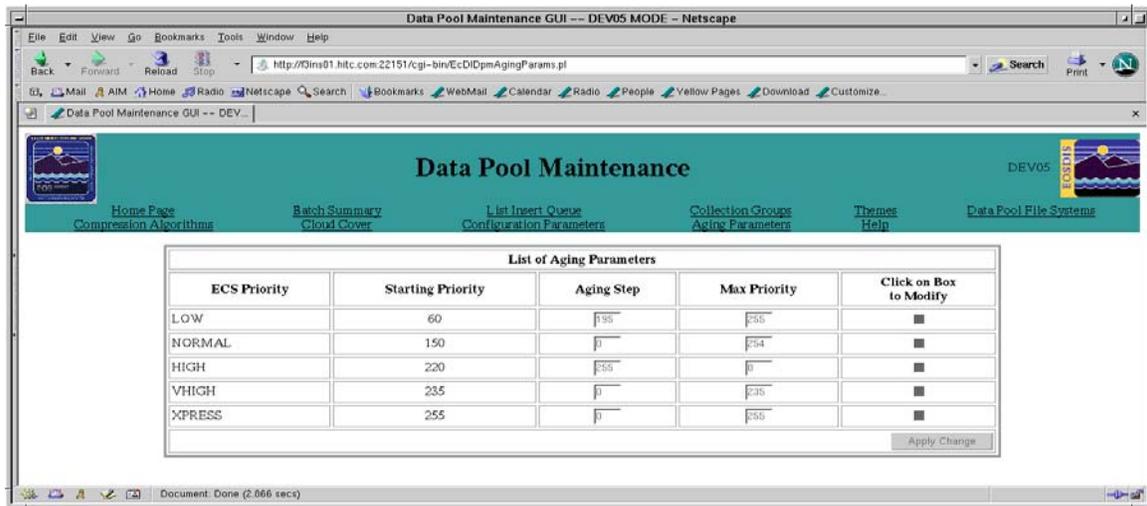
Field Name	Data Type	Size	Entry	Description
Source Type	char	30	Required	Cloud Cover source type
Source Name	char	20	Required	Valid source name
Source Description	char	30	Optional	Description about the source name. Up to 255 characters long
Click on box to modify	check box	1	Optional	Select when medications are needed

#### 4.8.10.1.9 Aging Parameters Tab

The Aging Parameters Page (Figure 4.8.10-32) allows the operator to view a list of Aging Parameters, their starting priority values, aging step values and maximum priority values. It also provides check boxes beside each aging parameter information rows to modify any of the entries.

Aging step values and priority values can be modified. Only full capability operators can execute this modify operation. The operator needs to add new values in the text boxes and then click the **Click On Box To Modify** checkbox at the end of the row. After making all changes click on **Apply Change** button. This will refresh the screen with new values and also update the database.

The fields of the Aging Parameters Page are described in Table 4.8.10-19.



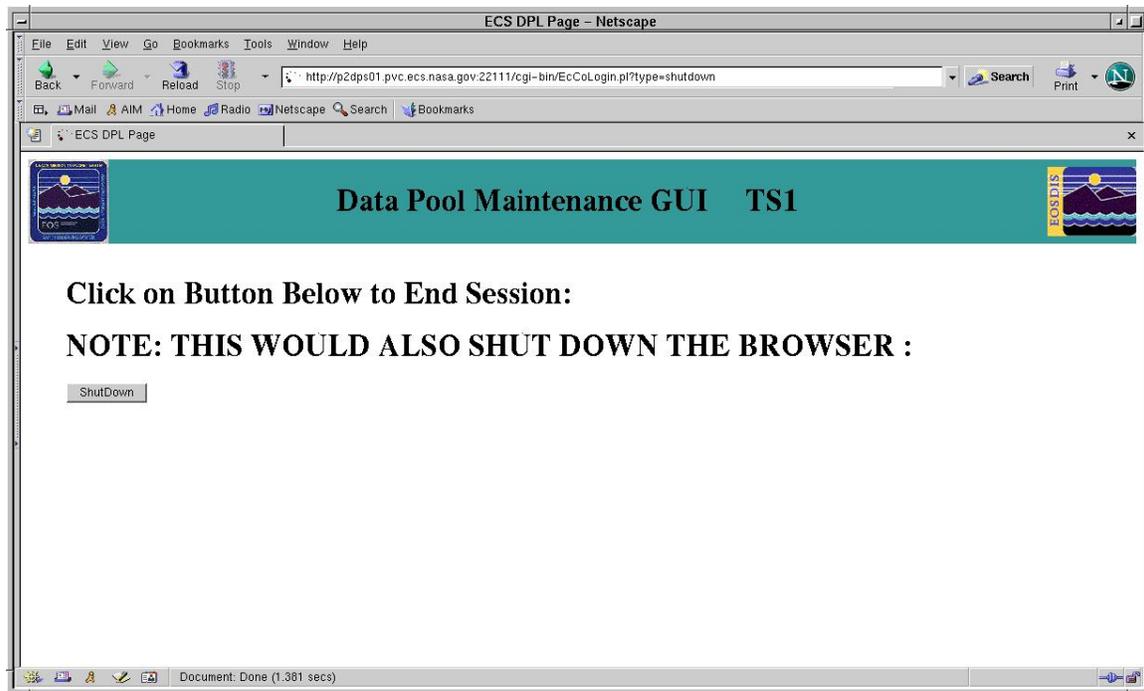
**Figure 4.8.10-32. List of Aging Parameters Screen**

**Table 4.8.10-19. Aging Parameters Field Descriptions**

Field Name	Data Type	Size	Entry	Description
ECS Priority	char	10	Required	Determines the level of priority for the Aging Parameter for ECS: Low, Normal, High, Very High, Express
Starting Priority	int	4	Required	Provides ascending order of Aging Parameters according to its priority number
Aging Step	int	4	Optional	Time interval to increase the priority value
Max Priority	int	4	Optional	Maximum priority value for an ECS priority level
Click on Box to Modify	checkbox	n/a	Optional	Select when modifications are needed

#### 4.8.10.1.10 End Session Tab

The **End Session** tab is provided to end a session on demand. This tab is available only from the Data Pool Home Page. Upon clicking on **End Session** link it will bring up the **End Session** page shown in Figure 4.8.10-33.



*Figure 4.8.10-33. End Session Page*

#### 4.8.10.2 Data Pool Maintenance Main Screen

See Section 4.8.10.1.1.

#### 4.8.10.3 Required Operating Environment

The following environment is required for the DPM GUI to work properly:

- The O/S requirements are Linux 2.x or higher

#### 4.8.10.4 Databases

The DPM GUI accesses the Data Pool and Science Data Server databases.

##### 4.8.10.4.1 Interfaces and Data Types

The DPM GUI exchanges data between the Web Browser and Sybase, using Perl CGI and DBI Modules for the Interface.

#### **4.8.10.5 Special Constraints**

There are no special constraints to running the DPM GUI.

#### **4.8.10.6 Outputs**

There are no outputs from the DPM GUI except for status and error messages.

#### **4.8.10.7 Event and Error Messages**

The DPM GUI writes status and error messages to the EcDlDataPoolGUI.log file in the directory /usr/ecs/<MODE>/CUSTOM/logs.

#### **4.8.10.8 Reports**

The DPM GUI does not generate reports.

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