

# Core System D4.2.0

Release Description Document (RDD)  
Review

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September 6, 2012

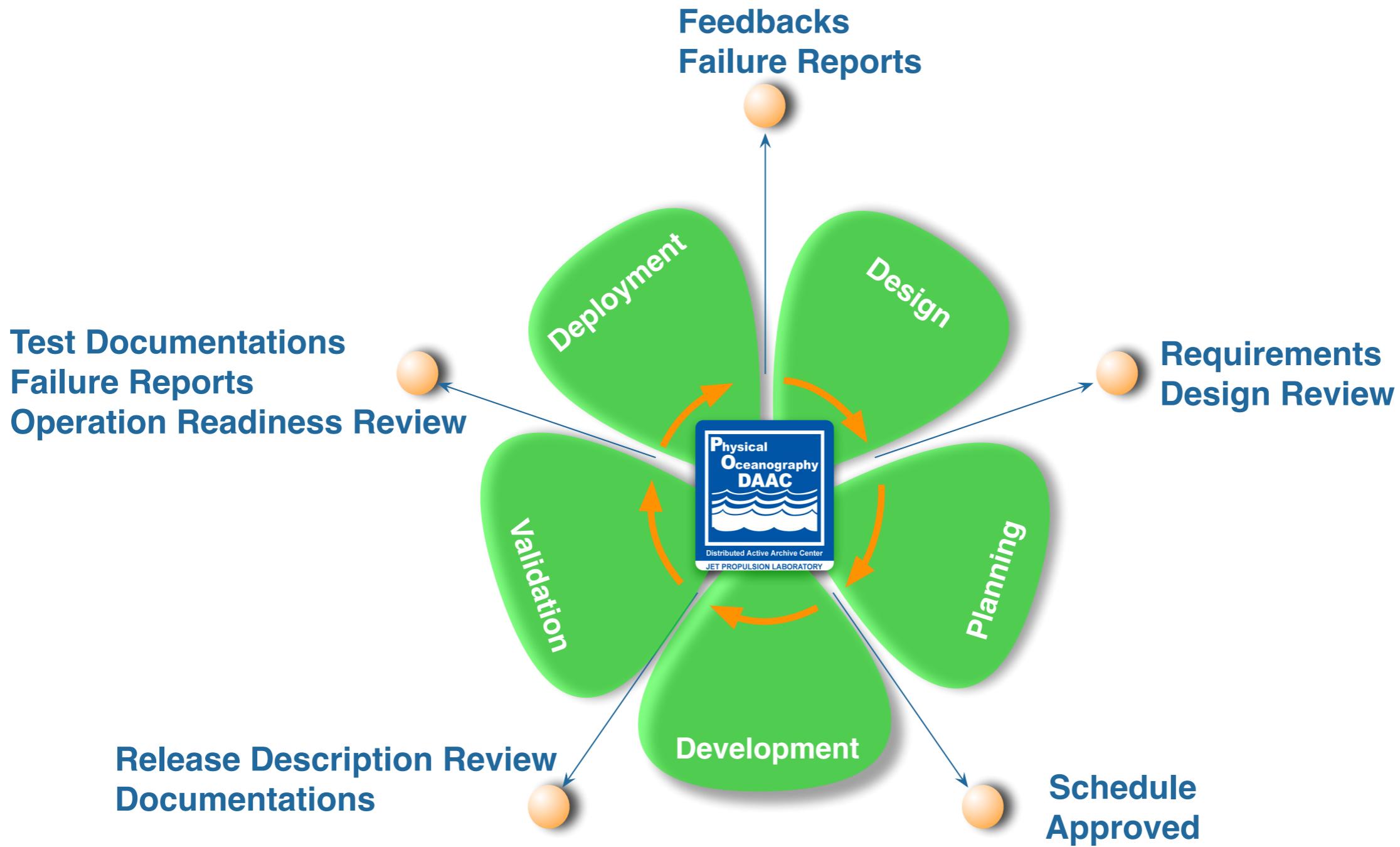


National Aeronautics and  
Space Administration

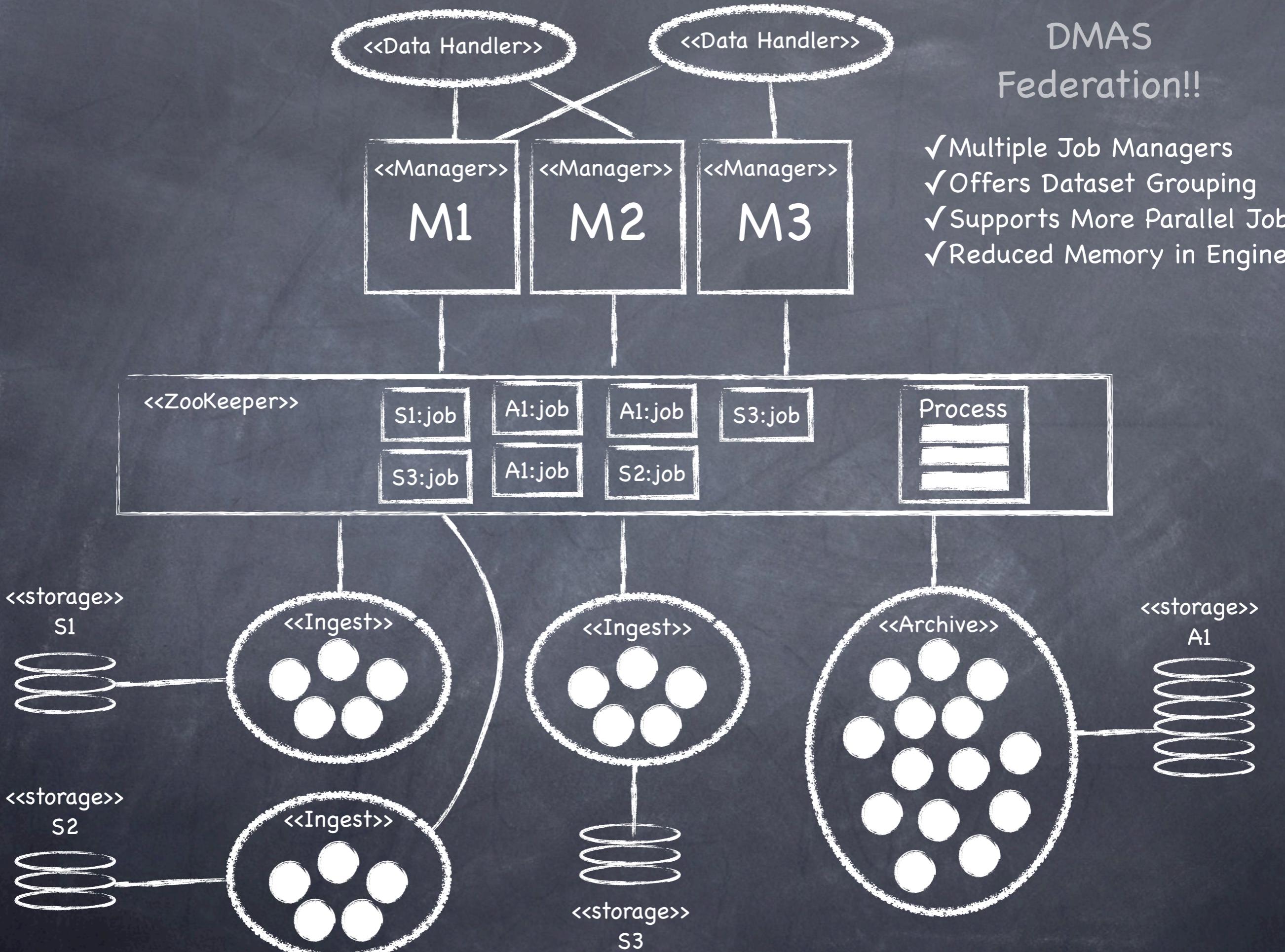
Jet Propulsion Laboratory  
California Institute of Technology  
Pasadena, California



## Our Process



# DMAS Federation!!



- ✓ Multiple Job Managers
- ✓ Offers Dataset Grouping
- ✓ Supports More Parallel Jobs
- ✓ Reduced Memory in Engines



# Core System 4.2.0 Highlights



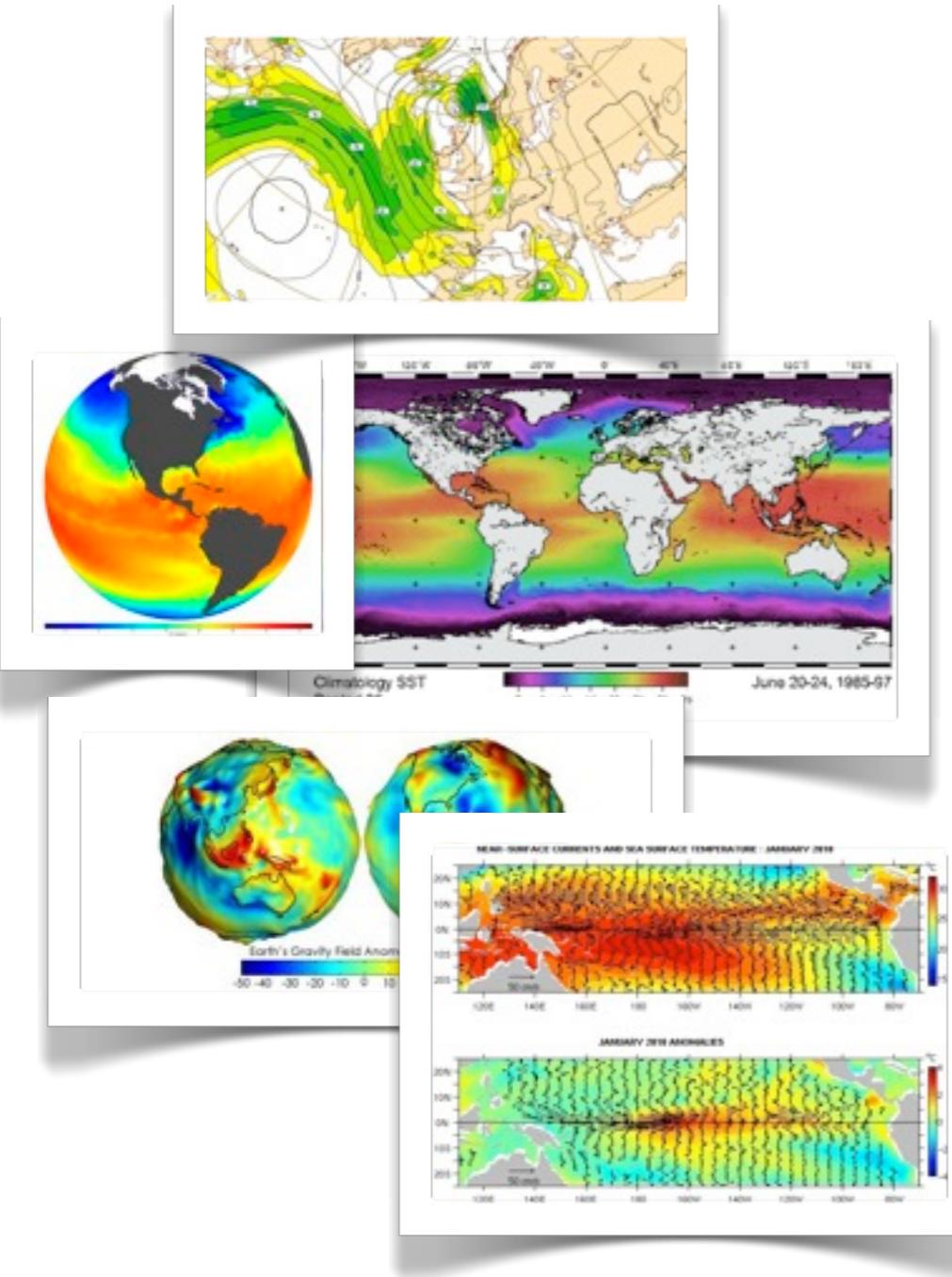
National Aeronautics and  
Space Administration

Jet Propulsion Laboratory  
California Institute of Technology  
Pasadena, California

JPL



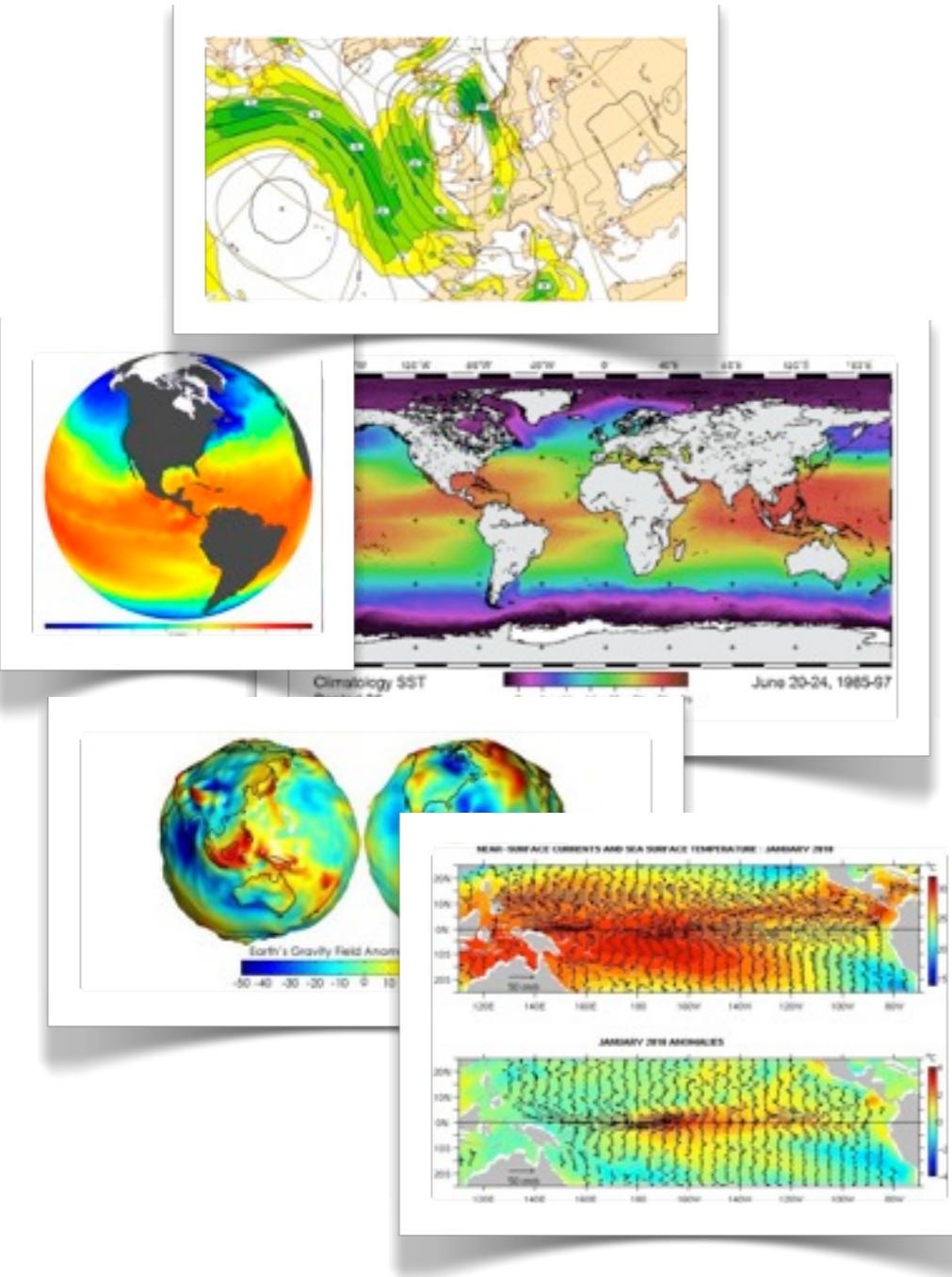
## New Data Handlers





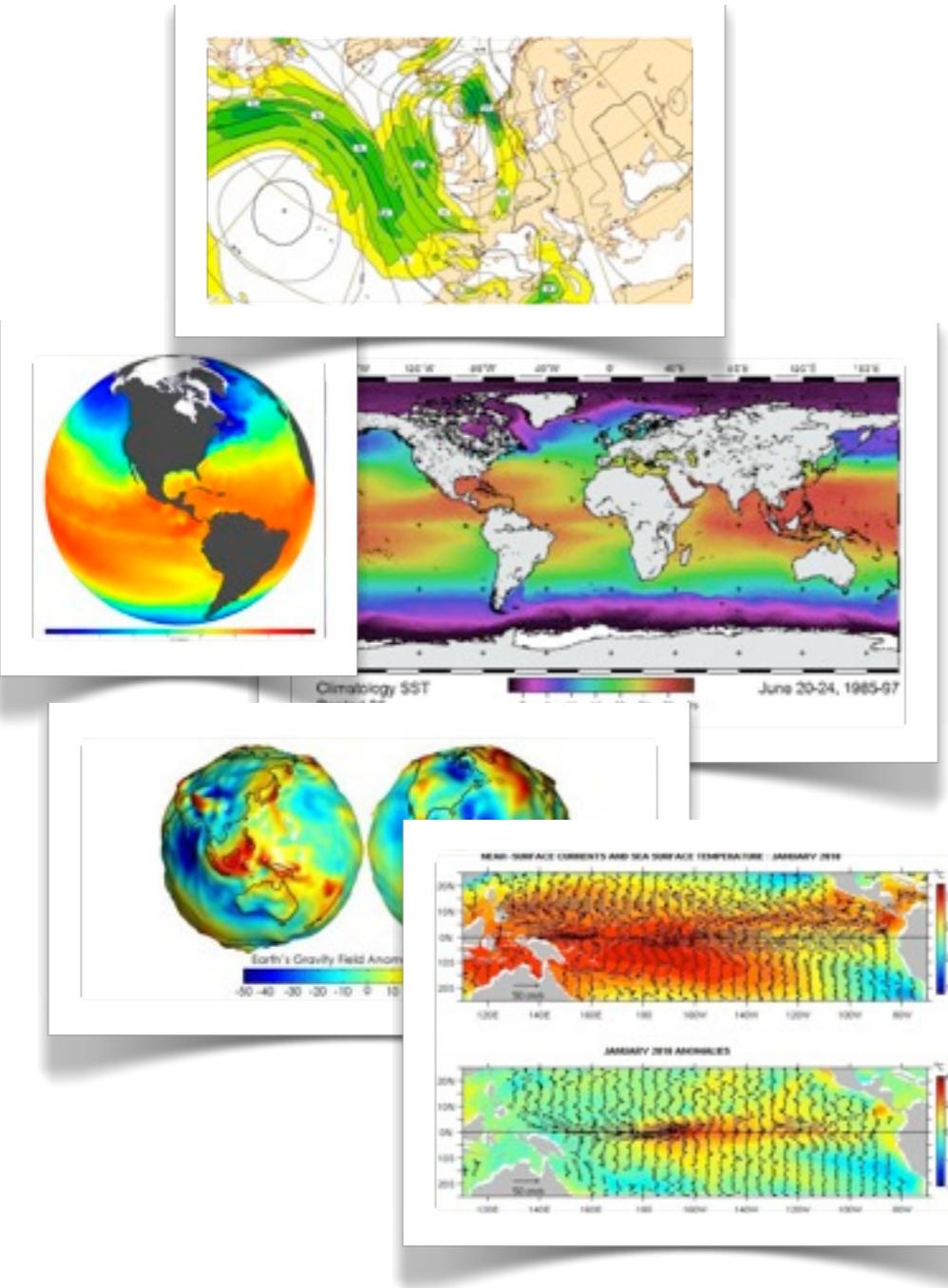
## New Data Handlers

- ✓ Aquarius – 6 datasets
- ✓ AVHRR – 24 datasets
- ✓ JMR – 8 datasets
- ✓ Jason-1 – 29 datasets
- ✓ TELLUS – 65 dataset
- ✓ GOES – 3 dataset
- ✓ REYNOLDS – 5 dataset





## New Data Handlers



- ✓ Aquarius – 6 datasets
- ✓ AVHRR – 24 datasets
- ✓ JMR – 8 datasets
- ✓ Jason-1 – 29 datasets
- ✓ TELLUS – 65 dataset
- ✓ GOES – 3 dataset
- ✓ REYNOLDS – 5 dataset

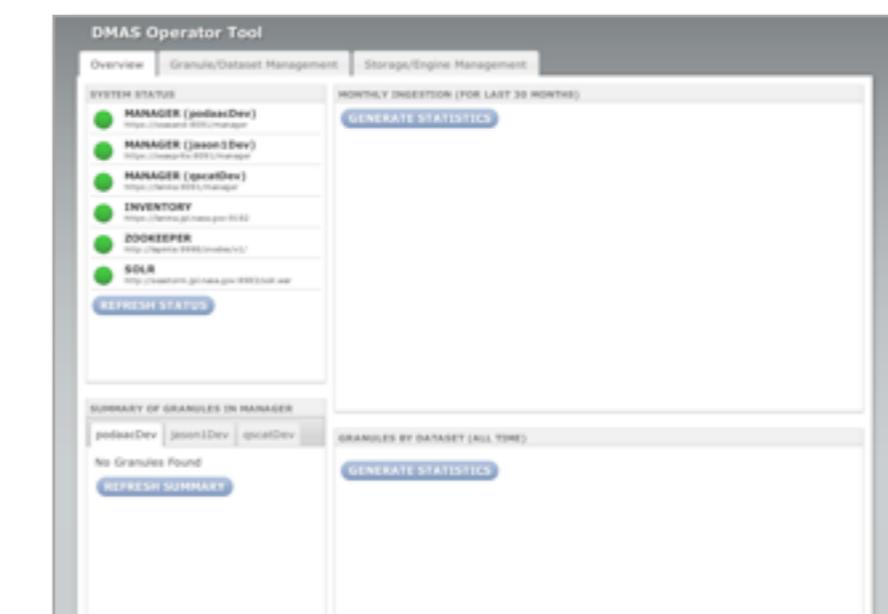
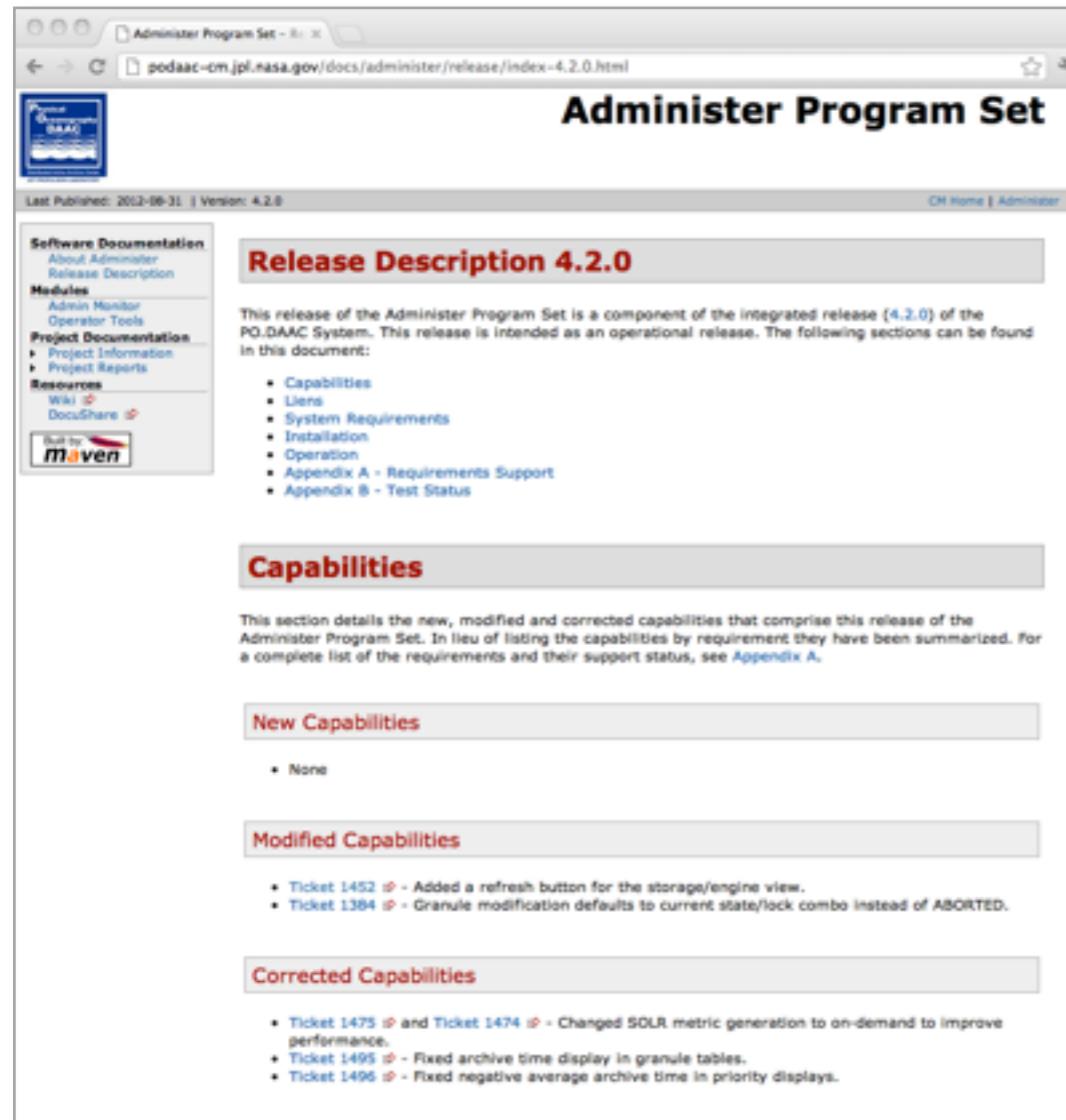
140  
New Datasets

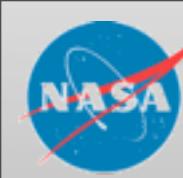


# Core System 4.1.0 Program Sets

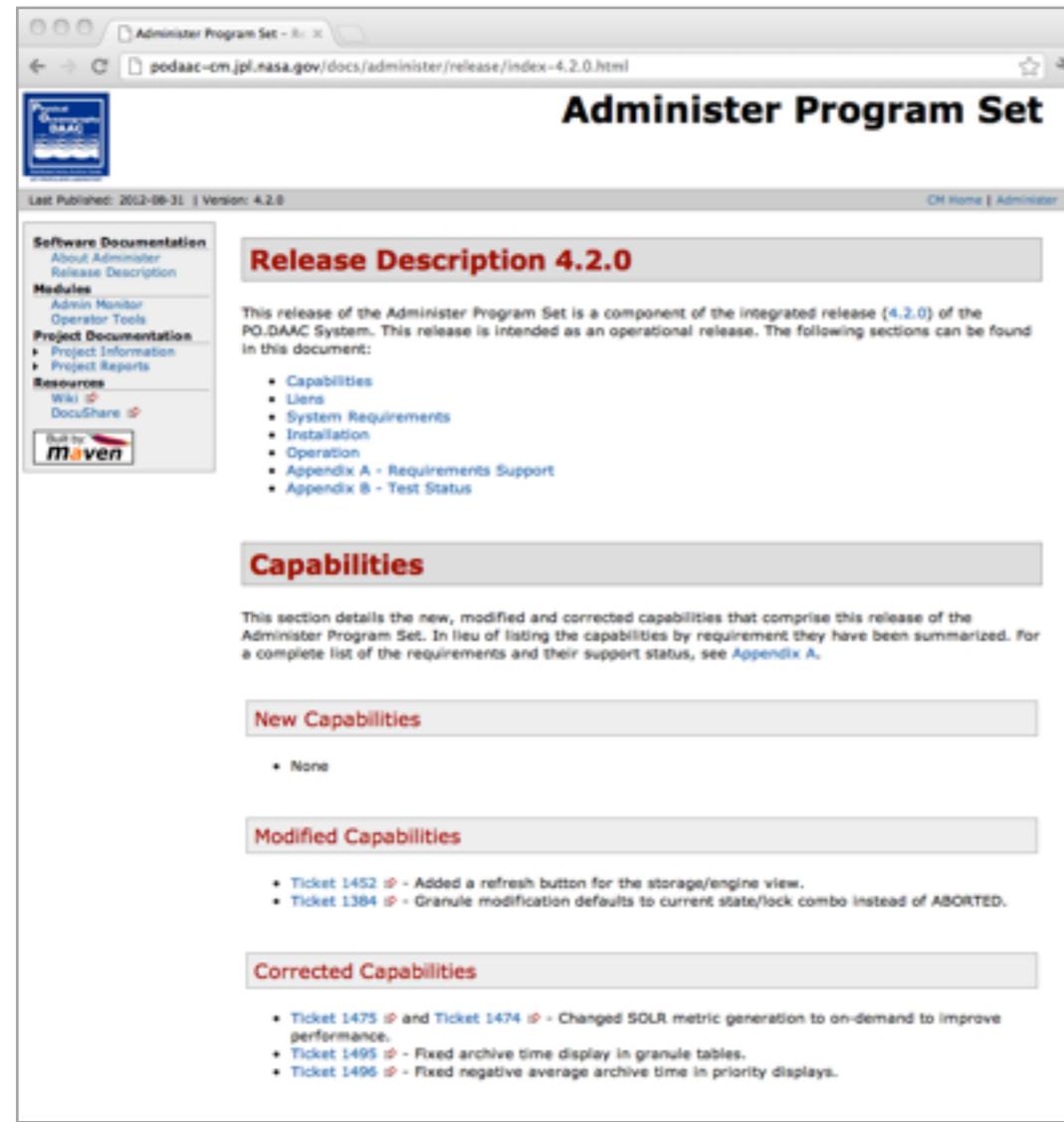


# Administer





# Administer



The screenshot shows the "Release Description 4.2.0" section of the Administer Program Set. It includes a sidebar with links for Software Documentation, Modules, and Resources, and a main content area with sections for Capabilities, New Capabilities, Modified Capabilities, and Corrected Capabilities, each listing specific ticket numbers and descriptions.

**Release Description 4.2.0**

This release of the Administer Program Set is a component of the integrated release [4.2.0] of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Liens
- System Requirements
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

**Capabilities**

This section details the new, modified and corrected capabilities that comprise this release of the Administer Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

**New Capabilities**

- None

**Modified Capabilities**

- Ticket 1452 - Added a refresh button for the storage/engine view.
- Ticket 1384 - Granule modification defaults to current state/lock combo instead of ABORTED.

**Corrected Capabilities**

- Ticket 1475 - Changed SOLR metric generation to on-demand to improve performance.
- Ticket 1495 - Fixed archive time display in granule tables.
- Ticket 1496 - Fixed negative average archive time in priority displays.

- **New Capabilities**

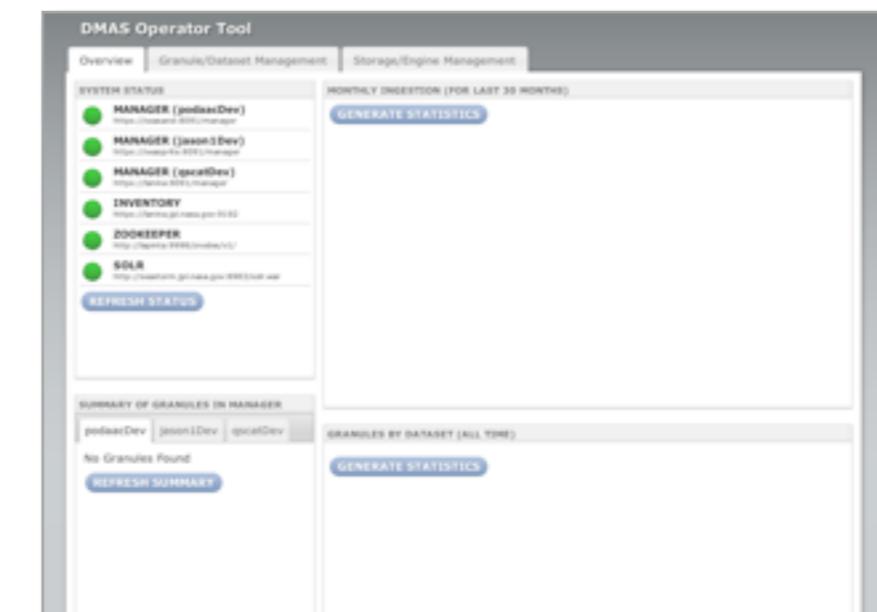
- none

- **Modified Capabilities**

- [Trac 1384](#) - operator interface: edit granule should have actual current values of lock and state as default entries for edit boxes
- [Trac 1452](#) - OPERATOR TOOL: there should be a refresh button on the storage/engine management tab in the operator tool

- **Corrected Capabilities**

- [Trac 1474](#) - Operator Tool: main page hangs when Solr server is down
- [Trac 1475](#) - Operator Tool PHP segmentation fault
- [Trac 1495](#) - Operator Tool: Fix NaN time display in granule tables
- [Trac 1496](#) - Operator Tool: Priority table shows negative average archive time



The screenshot shows the DMAS Operator Tool interface. It features a sidebar with links for Overview, Granule/Dataset Management, and Storage/Engine Management. The main area displays system status for various components like MANAGER, INVENTORY, ZOOKEEPER, and SOLR, along with summary and granule management tabs.

**DMAS Operator Tool**

Overview | Granule/Dataset Management | Storage/Engine Management

**SYSTEM STATUS**

- MANAGER (jodasDev) https://jodasdev.6020.us.mngr
- MANAGER (jason3Dev) https://jason3Dev.6020.us.mngr
- MANAGER (oscarDev) https://oscarDev.6020.us.mngr
- INVENTORY https://oscarDev.6020.us.inv
- ZOOKEEPER https://oscarDev.6020.us.zk
- SOLR https://oscarDev.6020.us.solr

**MONTHLY INGESTION (FOR LAST 30 MONTHS)**

**GENERATE STATISTICS**

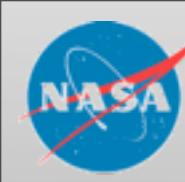
**SUMMARY OF GRANULES IN MANAGER**

jodasDev jason3Dev oscarDev

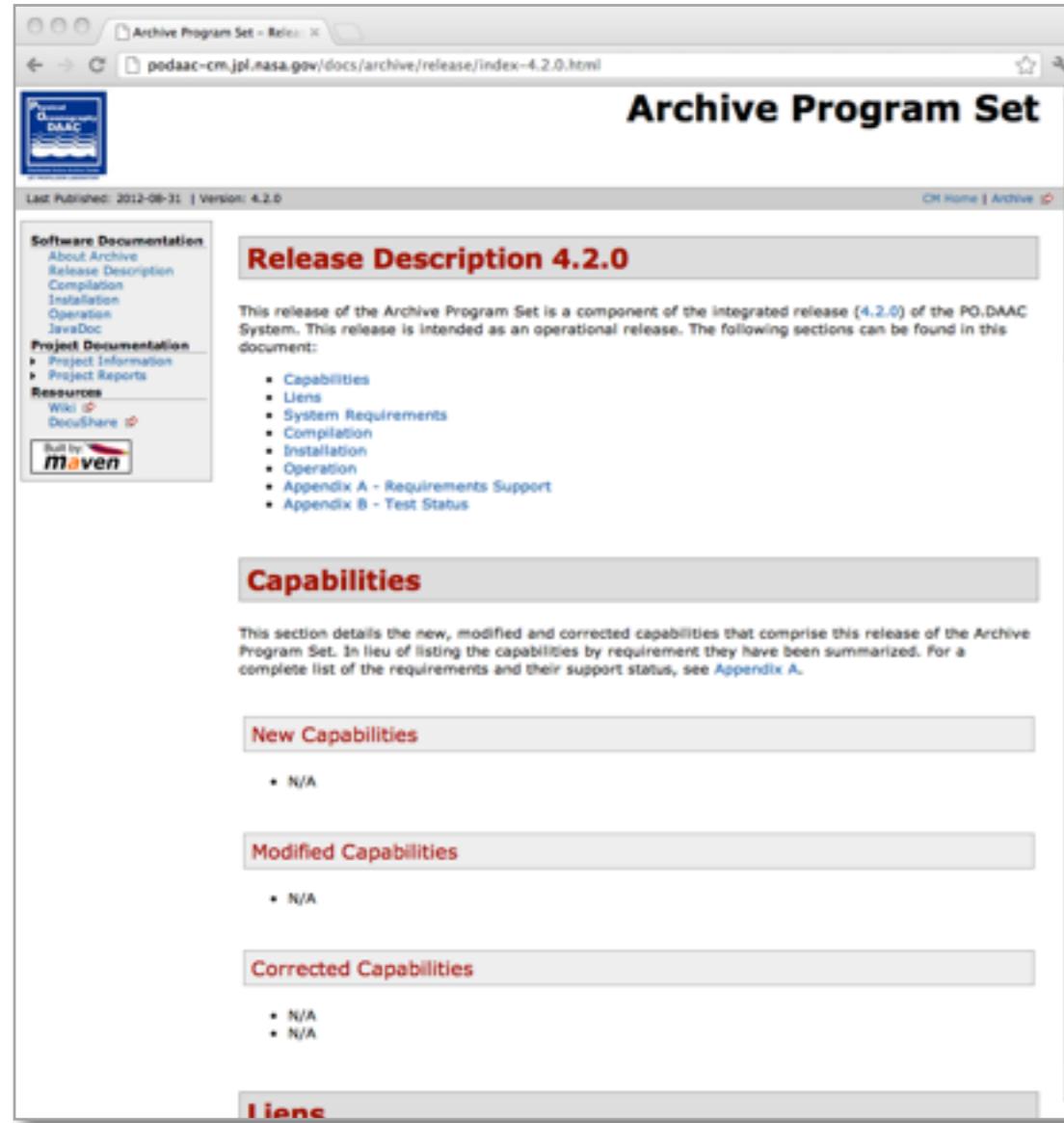
No Granules Found

**GRANULES BY DATASET (ALL TIME)**

**GENERATE STATISTICS**



# Archive



The screenshot shows a web browser displaying the "Archive Program Set" documentation. The title "Archive Program Set" is at the top. Below it is a "Release Description 4.2.0" section. The left sidebar contains links for Software Documentation (About Archive, Release Description, Compilation, Installation, Operation, JavaDoc), Project Documentation (Project Information, Project Reports), and Resources (Wiki, DocShare). A Maven logo is also present. The main content area includes sections for Capabilities, New Capabilities, Modified Capabilities, Corrected Capabilities, and Licenses.

**Release Description 4.2.0**

This release of the Archive Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Licenses
- System Requirements
- Compilation
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

**Capabilities**

This section details the new, modified and corrected capabilities that comprise this release of the Archive Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

**New Capabilities**

- N/A

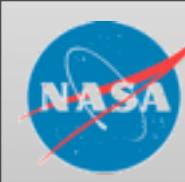
**Modified Capabilities**

- N/A

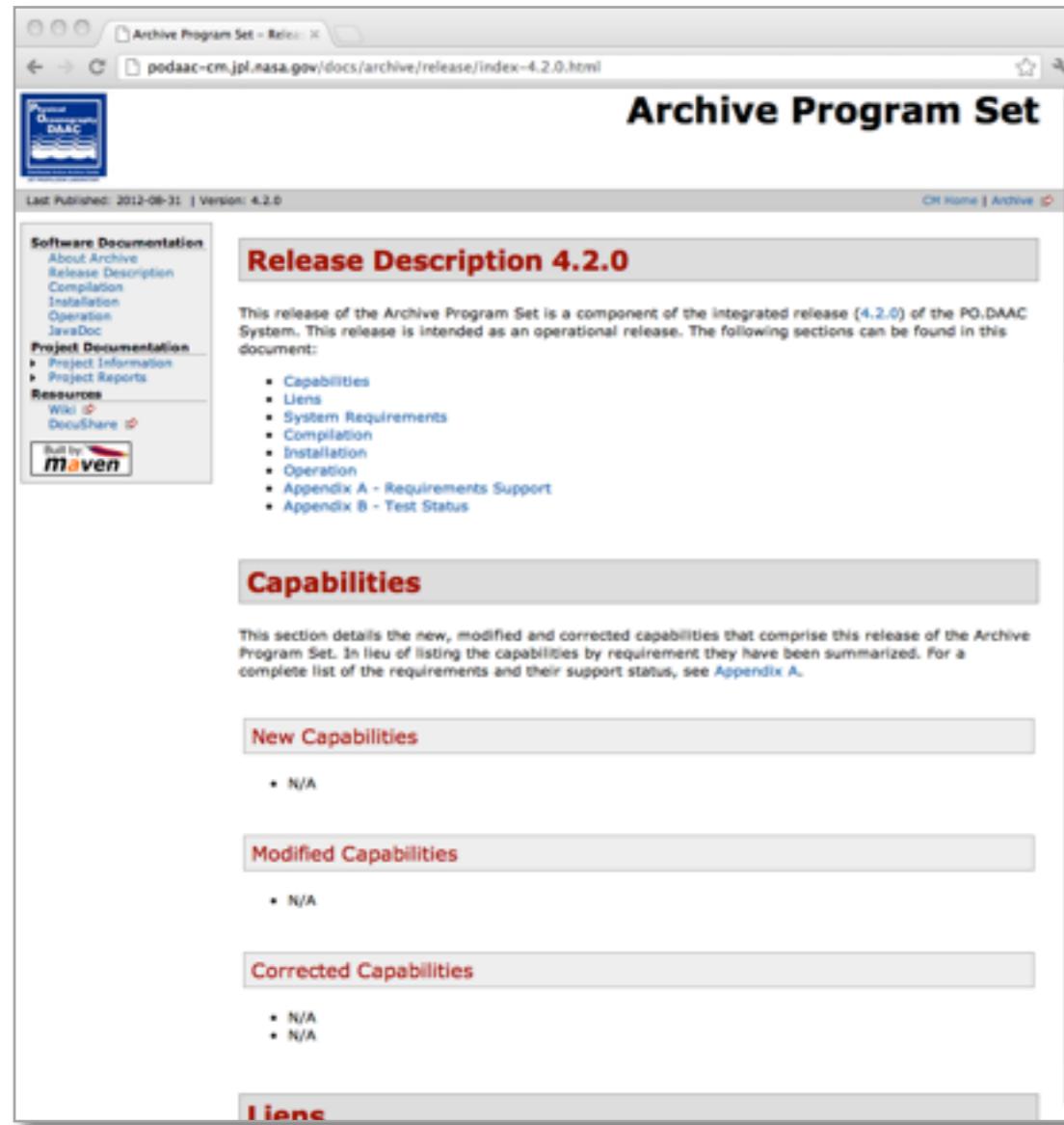
**Corrected Capabilities**

- N/A
- N/A

**Licenses**



# Archive



The screenshot shows a web browser displaying the 'Archive Program Set' documentation. The title 'Archive Program Set' is at the top. Below it is a 'Release Description 4.2.0' section containing a brief overview of the release. The main content area is divided into several sections: 'Capabilities', 'New Capabilities', 'Modified Capabilities', and 'Corrected Capabilities'. Each of these sections contains a single bullet point: '• N/A'. At the bottom of the page is a 'Licenses' section.

- **New Capabilities**

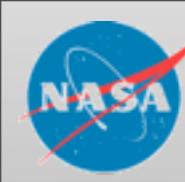
- none

- **Modified Capabilities**

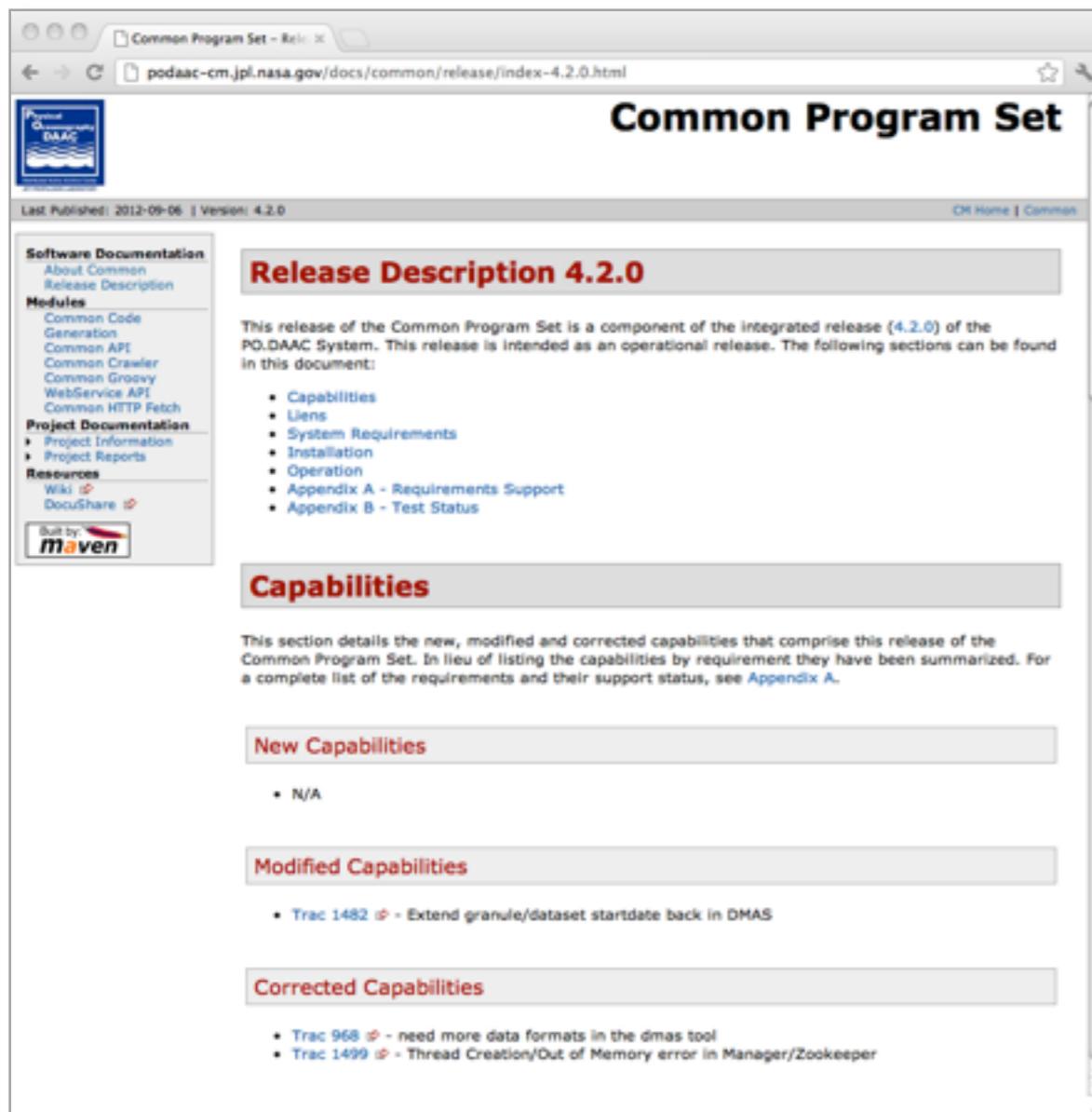
- none

- **Corrected Capabilities**

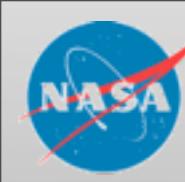
- none



# Common



The screenshot shows a web browser displaying the "Common Program Set" documentation. The title "Common Program Set" is at the top. Below it is a "Release Description 4.2.0" section. The left sidebar contains links for Software Documentation (About Common, Release Description), Modules (Common Code Generation, Common API, Common Crawler, Common Groovy, WebService API, Common HTTP Fetch), Project Documentation (Project Information, Project Reports), and Resources (Wiki, DocShare). A "Built by maven" badge is also present. The main content area includes sections for "Capabilities", "New Capabilities" (listing "N/A"), "Modified Capabilities" (listing "Trac 1482 - Extend granule/dataset startdate back in DMAS"), and "Corrected Capabilities" (listing "Trac 968 - need more data formats in the dimas tool" and "Trac 1499 - Thread Creation/Out of Memory error in Manager/Zookeeper").



# Common

Common Program Set – Rel. 4.2.0

## Common Program Set

Last Published | 2012-09-06 | Version: 4.2.0

CM Home | Common

**Software Documentation**

- About Common
- Release Description

**Modules**

- Common Code Generation
- Common API
- Common Crawler
- Common Groovy
- WebService API
- Common HTTP Fetch

**Project Documentation**

- Project Information
- Project Reports

**Resources**

- Wiki
- DocuShare

Built by Maven

### Release Description 4.2.0

This release of the Common Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Lenses
- System Requirements
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

### Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the Common Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see Appendix A.

#### New Capabilities

- N/A

#### Modified Capabilities

- Trac 1482 - Extend granule/dataset startdate back in DMAS

#### Corrected Capabilities

- Trac 968 - need more data formats in the dmias tool
- Trac 1499 - Thread Creation/Out of Memory error in Manager/Zookeeper

- New Capabilities**

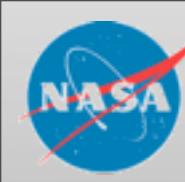
- none

- Modified Capabilities**

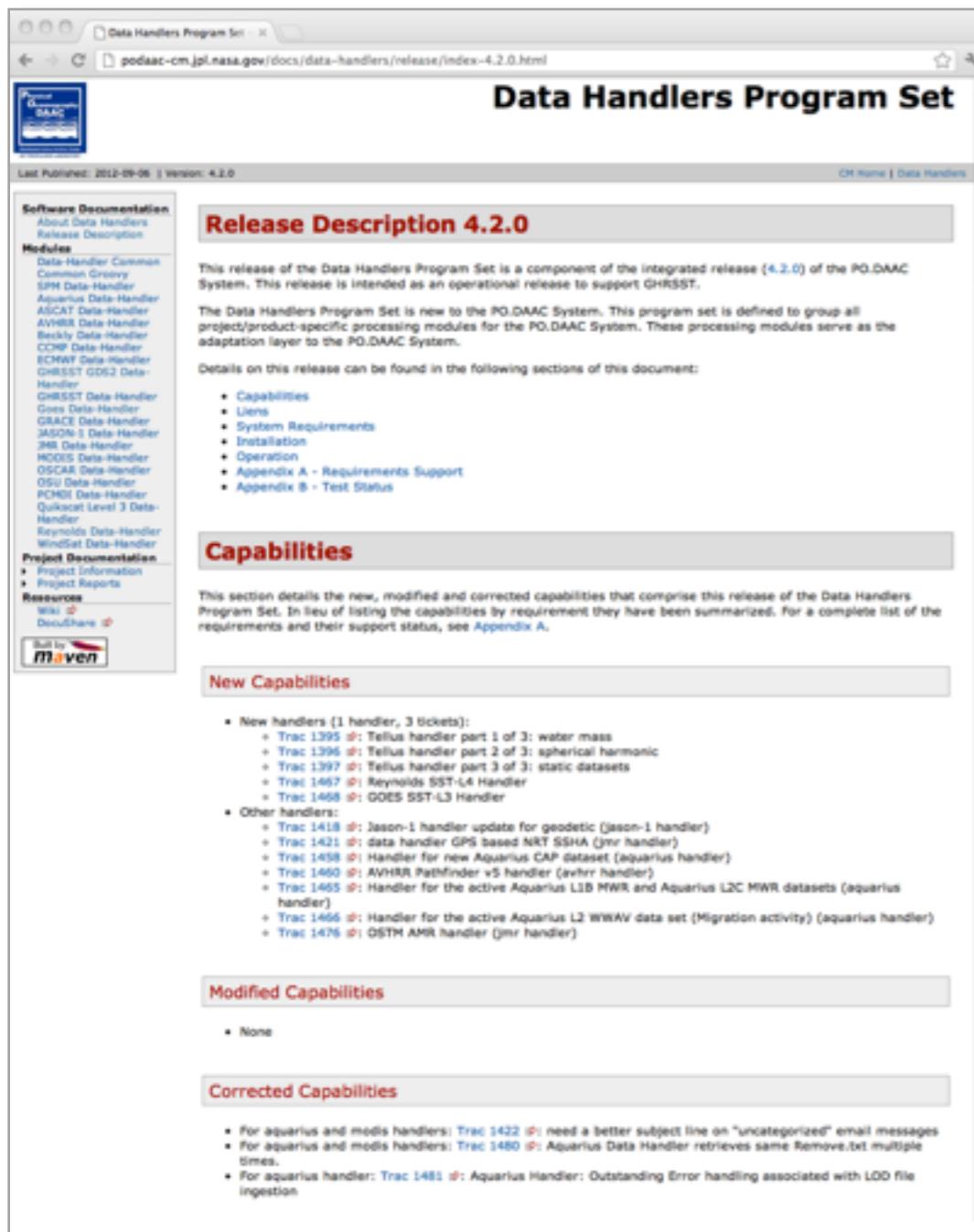
- [Trac 1482](#) - Extend start date further back for DMAS

- Corrected Capabilities**

- [Trac 968](#) - need more data formats in the dmias tool
- [Trac 1499](#) - Thread Creation/Out of Memory error in Manager/Zookeeper



# Data Handlers



The screenshot shows a web browser displaying the "Data Handlers Program Set" documentation. The title "Data Handlers Program Set" is at the top center. Below it is a "Release Description 4.2.0" section. To the left is a sidebar with links for Software Documentation, Project Documentation, and Resources. The main content area includes sections for Capabilities, New Capabilities, Modified Capabilities, and Corrected Capabilities, each listing specific Trac tickets related to handler updates and corrections.

**Software Documentation**

- About Data Handlers
- Release Description

**Modules**

- Data Handler Common
- Common Gravity
- SPM Data Handler
- Aquarius Data Handler
- ALCAT Data Handler
- AVHRR Data Handler
- Besky Data Handler
- Cryo Data Handler
- ECW Data Handler
- GHESSST GDS2 Data Handler
- GHESSST Data Handler
- GOES Data Handler
- GRACE Data Handler
- JASON-1 Data Handler
- JRRL Data Handler
- HODGES Data Handler
- OSCAR Data Handler
- OSU Data Handler
- PCMDI Data Handler
- Quikscat Level 3 Data Handler
- Reynolds Data Handler
- WindSat Data Handler

**Project Documentation**

- Project Information
- Project Reports

**Resources**

- Wiki
- Document Share

**Built by Maven**

**Release Description 4.2.0**

This release of the Data Handlers Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. This release is intended as an operational release to support GHESSST.

The Data Handlers Program Set is new to the PO.DAAC System. This program set is defined to group all project/product-specific processing modules for the PO.DAAC System. These processing modules serve as the adaptation layer to the PO.DAAC System.

Details on this release can be found in the following sections of this document:

- Capabilities
- Users
- System Requirements
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

**Capabilities**

This section details the new, modified and corrected capabilities that comprise this release of the Data Handlers Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see Appendix A.

**New Capabilities**

- New handlers (1 handler, 3 Tickets):
  - Trac 1395: Tellus handler part 1 of 3: water mass
  - Trac 1396: Tellus handler part 2 of 3: spherical harmonic
  - Trac 1397: Tellus handler part 3 of 3: static datasets
  - Trac 1467: Reynolds SST-L4 Handler
  - Trac 1468: GOES SST-L3 Handler
- Other handlers:
  - Trac 1418: Jason-1 handler update for geodetic (jason-1 handler)
  - Trac 1421: data handler GPS based NRT SSHA (jmr handler)
  - Trac 1458: Handler for new Aquarius CAP dataset (aquarius handler)
  - Trac 1460: AVHRR Pathfinder v5 handler (avhrr handler)
  - Trac 1465: Handler for the active Aquarius L1B MWR and Aquarius L2C MWR datasets (aquarius handler)
  - Trac 1466: Handler for the active Aquarius L2 WWWW data set (Migration activity) (aquarius handler)
  - Trac 1476: OSTM AMR handler (jmr handler)

**Modified Capabilities**

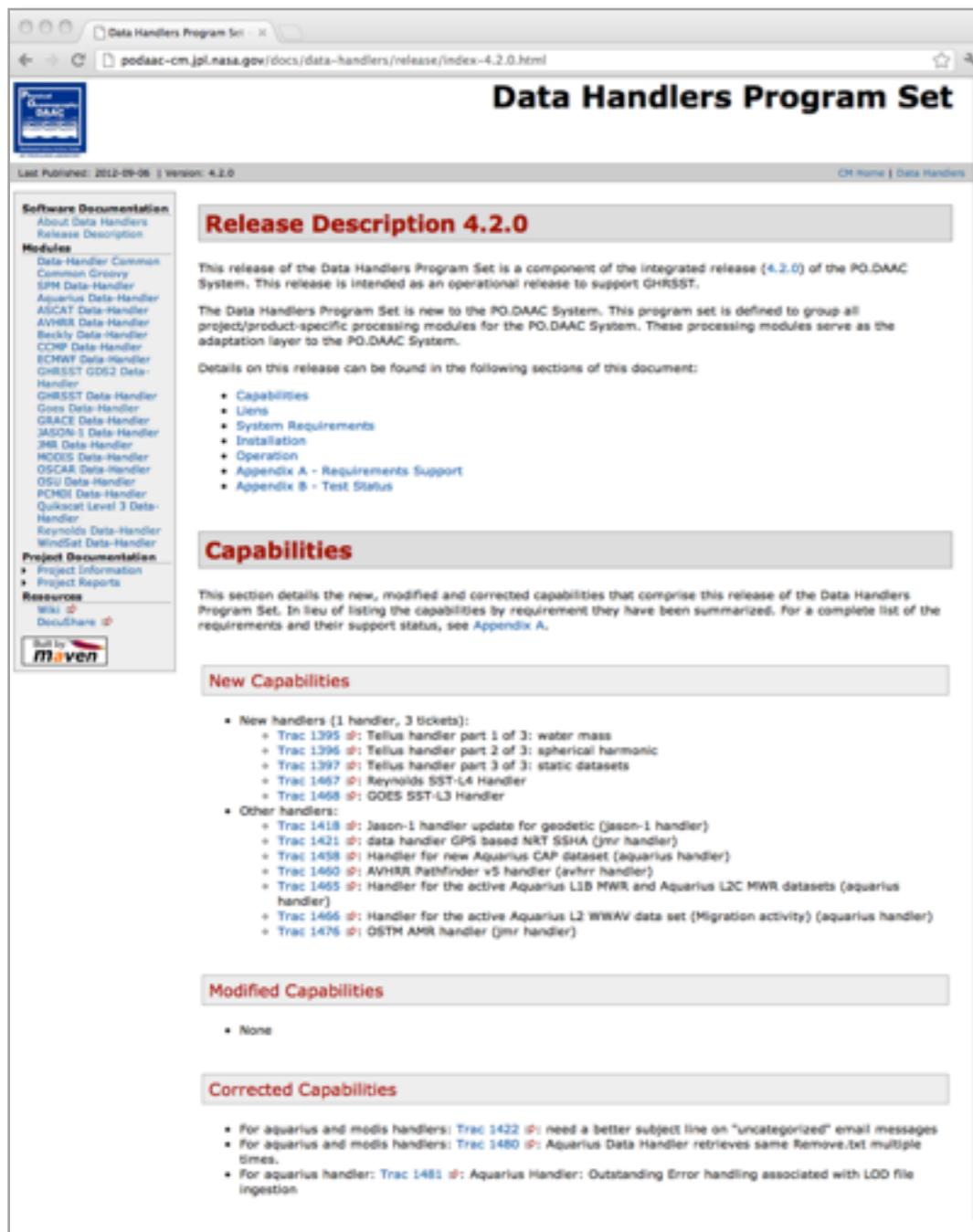
- None

**Corrected Capabilities**

- For aquarius and modis handlers: Trac 1422: need a better subject line on "uncategorized" email messages
- For aquarius and modis handlers: Trac 1480: Aquarius Data Handler retrieves same Remove.txt multiple times.
- For aquarius handler: Trac 1481: Aquarius Handler: Outstanding Error handling associated with LOD file ingestion



# Data Handlers



The screenshot shows a web browser displaying the 'Data Handlers Program Set' documentation. The title 'Data Handlers Program Set' is at the top. Below it is a 'Release Description 4.2.0' section. To the left is a sidebar with links for Software Documentation, Modules (including Aquarius, AVHRR, Beaufort, Cloud, ECW/M, GHRSST, GOES, GRACE, JASON-1, MODIS, OSTM, OSU, PCMDI, Quikscat, Reynolds, WindSat), Project Documentation, and Resources. The main content area includes sections for 'Capabilities' (New Capabilities, Modified Capabilities, Corrected Capabilities), 'Release Description 4.2.0' (with details about the release being part of the PO.DAAC System), and 'Appendix A - Requirements Support'.

## • New Capabilities

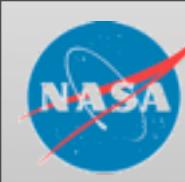
- [Trac 1395](#) - Tellus handler part 1 of 3: water mass
- [Trac 1396](#) - Tellus handler part 2 of 3: spherical harmonic
- [Trac 1397](#) - Tellus handler part 3 of 3: static datasets
- [Trac 1467](#) - Handler for the active Reynolds SST-L4 dataset series (Migration activity)
- [Trac 1468](#) - Handler for the active GOES SST-L3 data set series (Migration activity)
- [Trac 1418](#) - Jason-1 handler update for geodetic
- [Trac 1421](#) - data handler GPS based NRT SSHA
- [Trac 1458](#) - Handler for new Aquarius CAP dataset
- [Trac 1460](#) - AVHRR Pathfinder v5 handler
- [Trac 1465](#) - Handler for the active Aquarius L1B MWR and Aquarius L2C MWR datasets
- [Trac 1466](#) - Handler for the active Aquarius L2 WWA data set (Migration activity)
- [Trac 1476](#) - OSTM AMR handler

## • Modified Capabilities

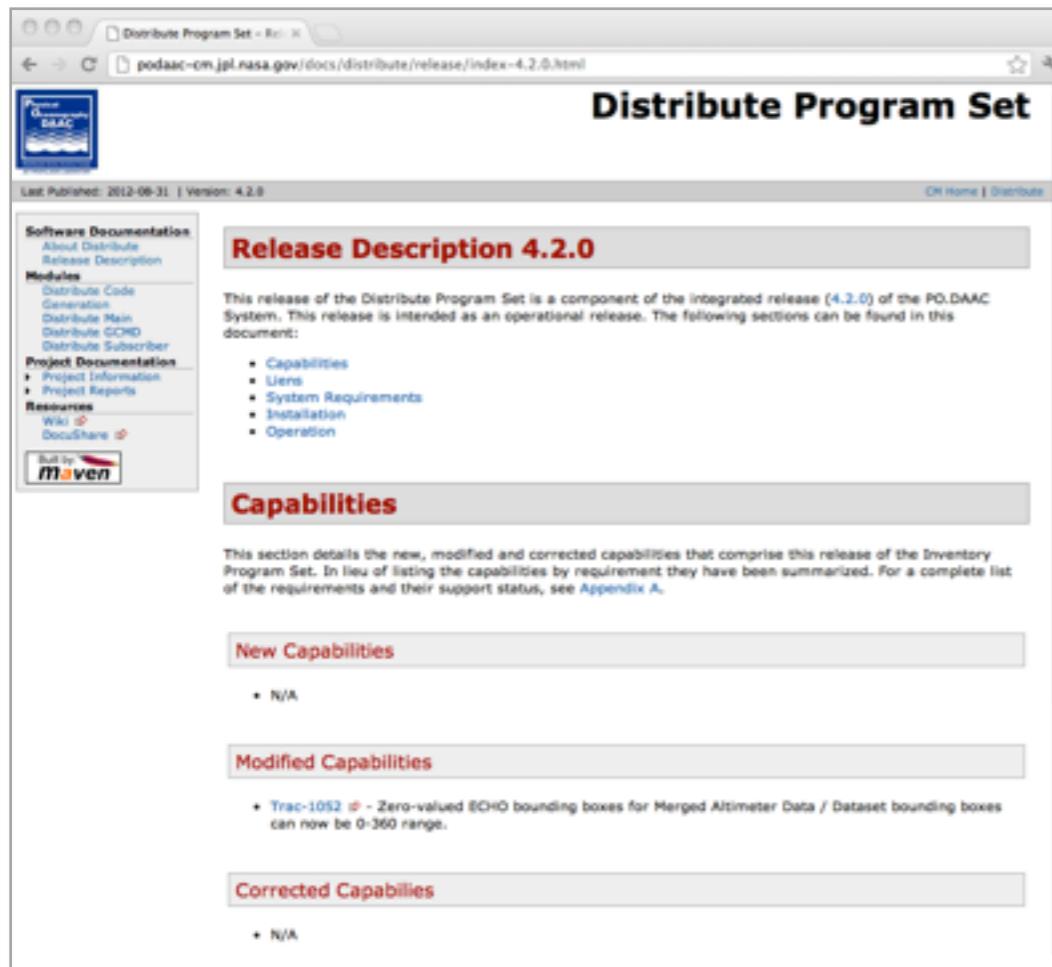
- none

## • Corrected Capabilities

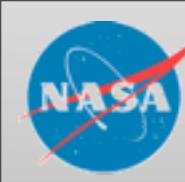
- [Trac 1422](#) - need a better subject line on “uncategorized” email messages
- [Trac 1480](#) - Aquarius Data Handler retrieves same Remove.txt multiple times.
- [Trac 1481](#) - Aquarius Handler: Outstanding Error handling associated with LOD file ingestion



# Distribute



The screenshot shows a web browser displaying the "Distribute Program Set" documentation. The title "Distribute Program Set" is at the top center. Below it is a "Release Description 4.2.0" section. The left sidebar contains navigation links for Software Documentation (About Distribute, Release Description), Modules (Distribute Code Generation, Distribute Main, Distribute CCSDS, Distribute Subscriber), Project Documentation (Project Information, Project Reports), and Resources (Wiki, DocShare). A "Built by Maven" badge is also present. The main content area includes sections for "Release Description 4.2.0", "Capabilities", "New Capabilities" (listing N/A), "Modified Capabilities" (listing Trac-1052), and "Corrected Capabilities" (listing N/A). The URL in the browser's address bar is [podaac-on.jpl.nasa.gov/docs/distribute/release/index-4.2.0.html](http://podaac-on.jpl.nasa.gov/docs/distribute/release/index-4.2.0.html).



## Distribute

**Distribute Program Set**

Last Published: 2012-06-31 | Version: 4.2.0

**Release Description 4.2.0**

This release of the Distribute Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Users
- System Requirements
- Installation
- Operation

**Capabilities**

This section details the new, modified and corrected capabilities that comprise this release of the Inventory Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

**New Capabilities**

- N/A

**Modified Capabilities**

- Trac-1052 - Zero-valued ECHO bounding boxes for Merged Altimeter Data / Dataset bounding boxes can now be 0-360 range.

**Corrected Capabilities**

- N/A

- **New Capabilities**

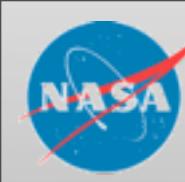
- none

- **Modified Capabilities**

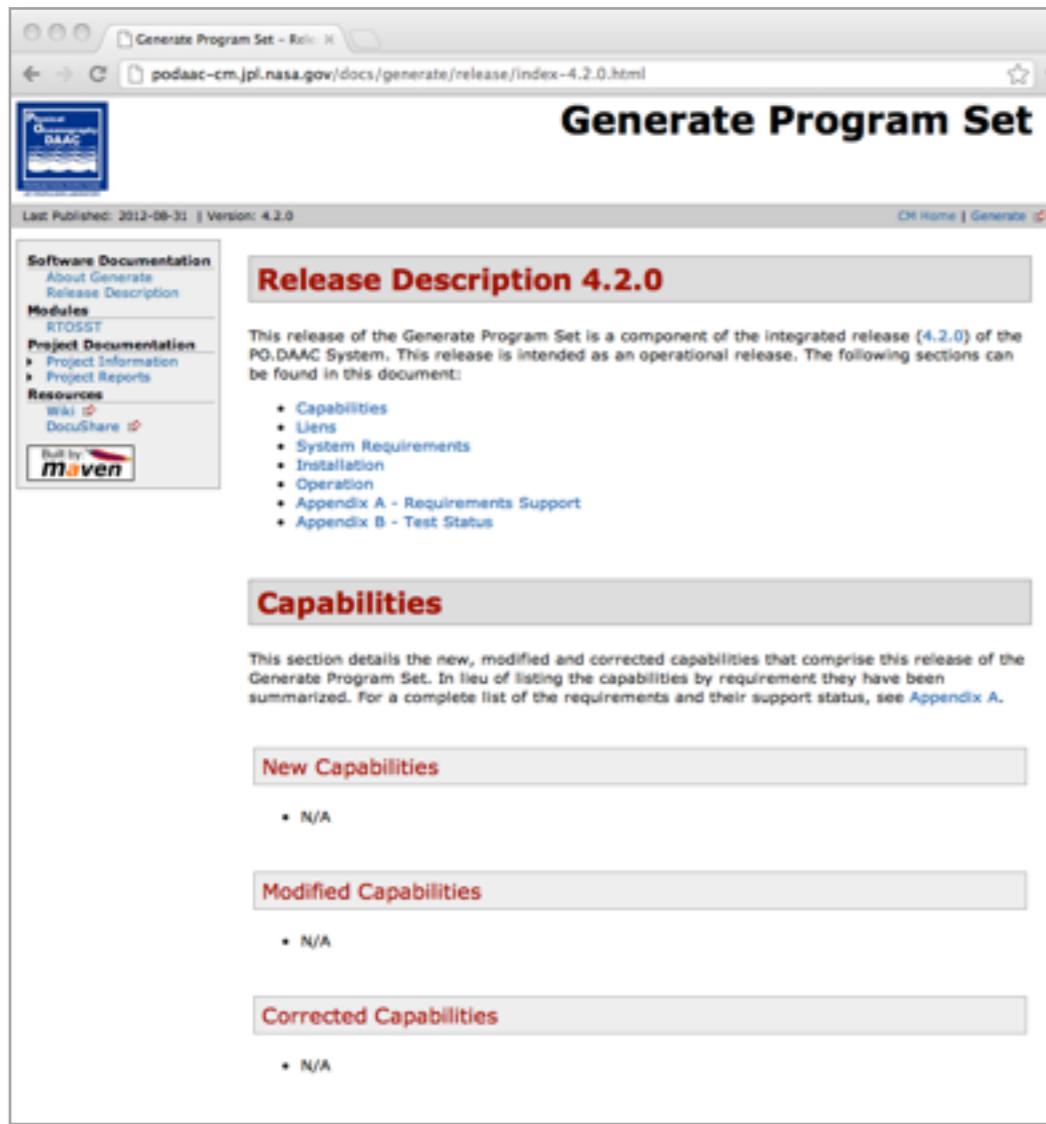
- none

- **Corrected Capabilities**

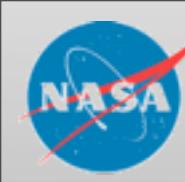
- [Trac 1052](#) - Zero-valued ECHO bounding boxes for Merged Altimeter Data



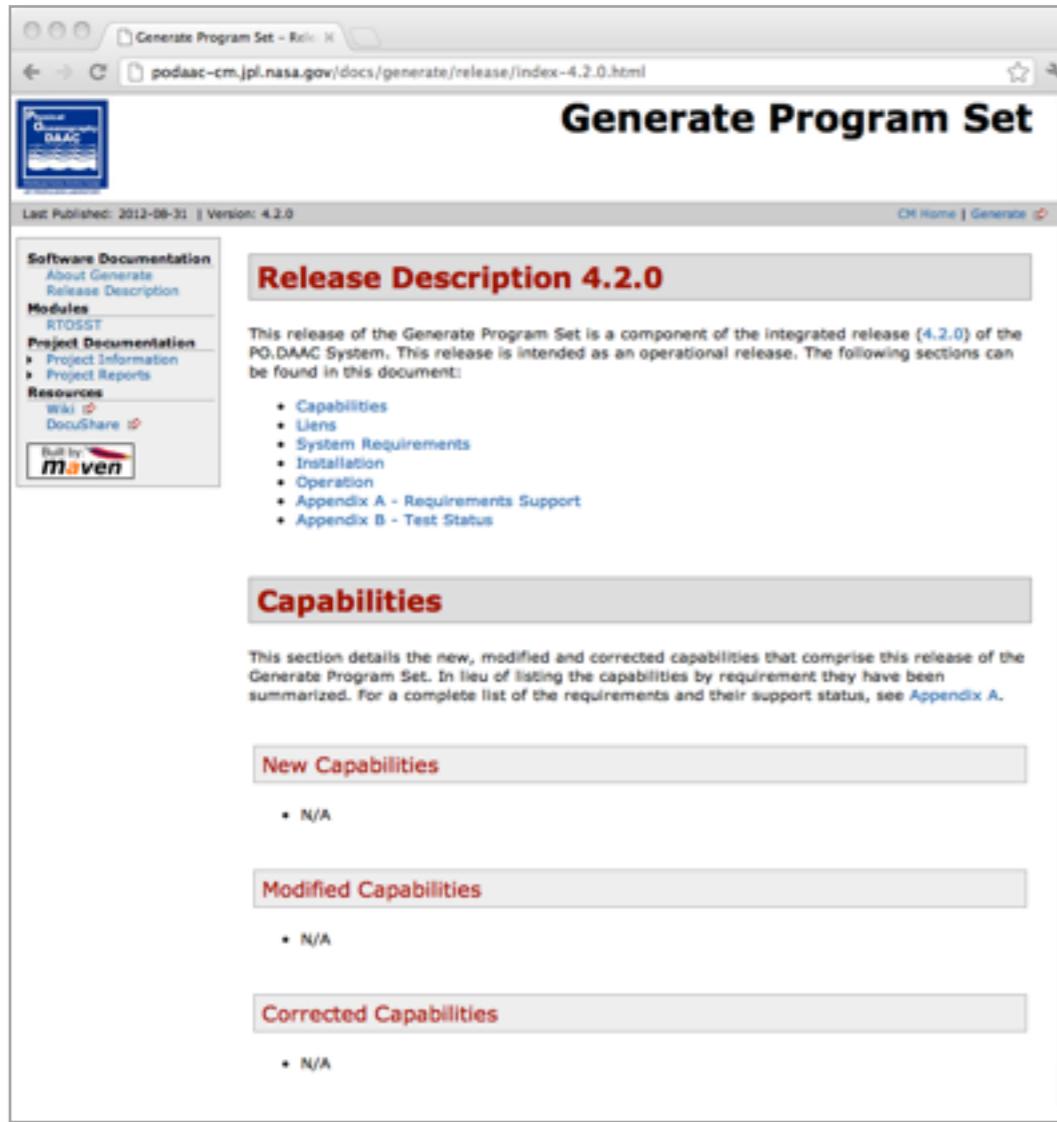
# Generate



The screenshot shows a web browser displaying the "Generate Program Set" documentation. The title "Generate Program Set" is at the top. Below it is a section titled "Release Description 4.2.0". The text in this section states: "This release of the Generate Program Set is a component of the integrated release [4.2.0] of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:" followed by a bulleted list: Capabilities, Licenses, System Requirements, Installation, Operation, Appendix A - Requirements Support, and Appendix B - Test Status. To the left of the main content is a sidebar with links for Software Documentation (About Generate, Release Description), Modules (RTDSST), Project Documentation (Project Information, Project Reports), Resources (wiki, DocuShare), and a Maven badge.



## Generate



The screenshot shows a web browser displaying the 'Generate Program Set' documentation. The title 'Generate Program Set' is at the top. Below it is a section titled 'Release Description 4.2.0'. This section contains a brief summary of the release and a list of capabilities. Further down is a 'Capabilities' section with three sub-sections: 'New Capabilities', 'Modified Capabilities', and 'Corrected Capabilities', each containing a single bullet point: 'N/A'. The left sidebar includes links for Software Documentation, Project Documentation, and Resources, along with a Maven badge.

- **New Capabilities**

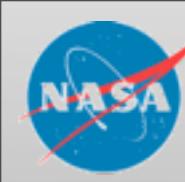
- none

- **Modified Capabilities**

- none

- **Corrected Capabilities**

- none



# Ingest

The screenshot shows a web browser displaying the "Ingest Program Set" documentation. The title "Ingest Program Set" is at the top. Below it is a "Release Description 4.2.0" section. The left sidebar contains links for Software Documentation, Modules, Project Documentation, and Resources, along with a Maven badge.

**Release Description 4.2.0**

This release of the Ingest Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. This release is intended as an operational release.

Building on capabilities delivered in the last release, this release focuses on improving the overall reliability of the Ingest System. Details on this release can be found in the following sections of this document:

- Capabilities
- Lenses
- System Requirements
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

**Capabilities**

This section details the new, modified and corrected capabilities that comprise this release of the Ingest Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

**New Capabilities**

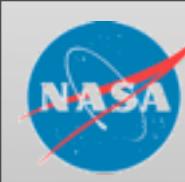
N/A

**Modified Capabilities**

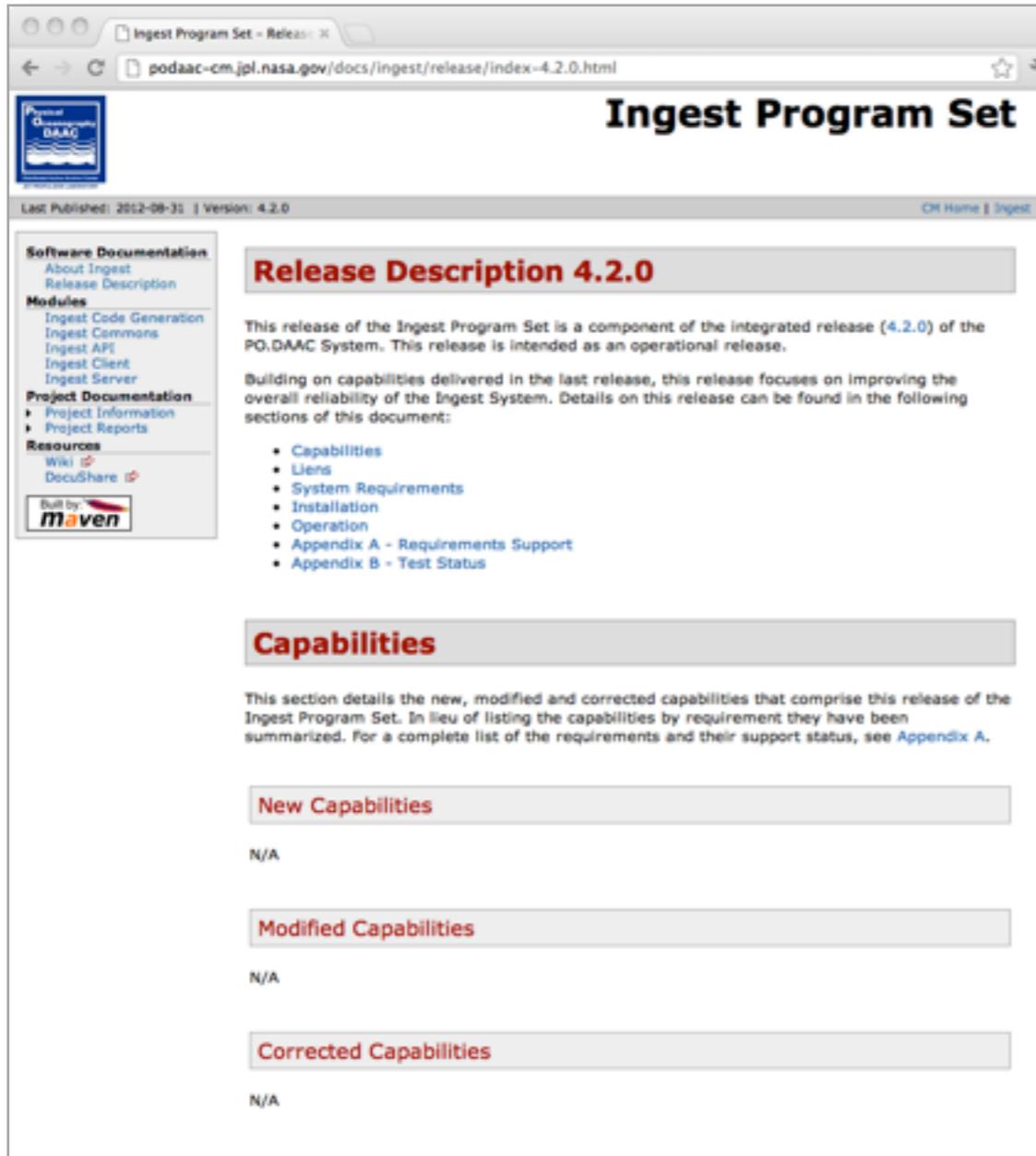
N/A

**Corrected Capabilities**

N/A



# Ingest



**Ingest Program Set**

**Release Description 4.2.0**

This release of the Ingest Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. This release is intended as an operational release.

Building on capabilities delivered in the last release, this release focuses on improving the overall reliability of the Ingest System. Details on this release can be found in the following sections of this document:

- Capabilities
- Liens
- System Requirements
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

**Capabilities**

This section details the new, modified and corrected capabilities that comprise this release of the Ingest Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

**New Capabilities**

N/A

**Modified Capabilities**

N/A

**Corrected Capabilities**

N/A

- **New Capabilities**

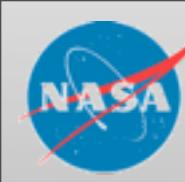
- none

- **Modified Capabilities**

- none

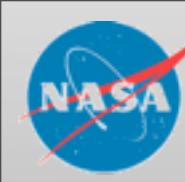
- **Corrected Capabilities**

- none

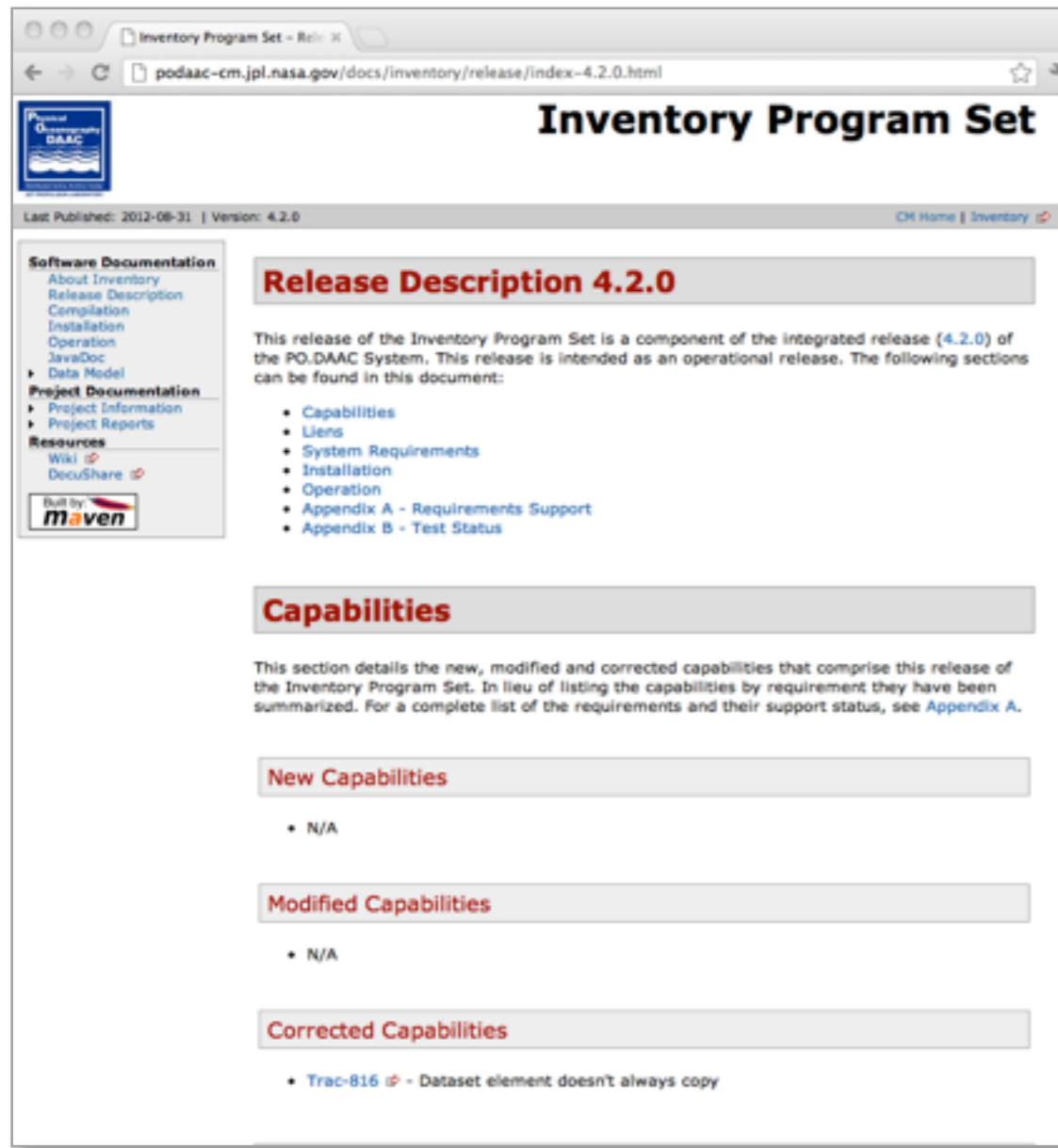


# Inventory

The screenshot shows a web browser displaying the 'Inventory Program Set' documentation. The title 'Inventory Program Set' is at the top. Below it is a 'Release Description 4.2.0' section. On the left, there's a sidebar with links for Software Documentation (About Inventory, Release Description, Compilation, Installation, Operation, JavaDoc, Data Model), Project Documentation (Project Information, Project Reports), Resources (Wiki, DocuShare), and a Maven build link. The main content area has sections for 'Capabilities', 'New Capabilities' (N/A), 'Modified Capabilities' (N/A), and 'Corrected Capabilities' (Trac-816 - Dataset element doesn't always copy). The URL in the address bar is [podaac-cm.jpl.nasa.gov/docs/inventory/release/index-4.2.0.html](http://podaac-cm.jpl.nasa.gov/docs/inventory/release/index-4.2.0.html).



# Inventory



The screenshot shows a web browser displaying the 'Inventory Program Set' documentation. The title 'Inventory Program Set' is at the top. Below it is a 'Release Description 4.2.0' section containing text about the release and a list of sections like Capabilities, Liens, System Requirements, Installation, Operation, Appendix A, and Appendix B. To the left is a sidebar with links for Software Documentation (About Inventory, Release Description, Compilation, Installation, Operation, JavaDoc, Data Model), Project Documentation (Project Information, Project Reports), Resources (Wiki, DocuShare), and a Maven build status.

- **New Capabilities**

- none

- **Modified Capabilities**

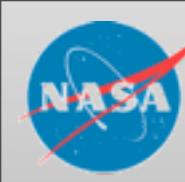
- none

- **Corrected Capabilities**

- Trac 816 - dataset element doesn't always copy

- **Lien (Inventory/Product Rollout)**

- Trac 1500 - DMT - adding spatial element results in deletion of dataset elements



# Middleware

Middleware Program Set - R: X

podaac.eom:jpl.nasa.gov/docs/middleware/release/index-4.2.0.html

## Middleware Program Set

Last Published: 2012-09-21 | Version: 4.2.0

Software Documentation | CH Home | Middleware

### Release Description 4.2.0

This release of the Middleware Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. The Middleware Program Set is new to the PO.DAAC System. This program is defined to group all middleware-related modules for the PO.DAAC System. In the (4.2.0) of PO.DAAC System, a middleware components was released as part of the Ingest Program Set, the ingest-grails module. Our success in the application of middleware technology into the PO.DAAC System has demonstrated the need of more web-enable service components in the future of PO.DAAC.

The first module being released with this program set is the Manager module. The Manager module is the successor of the Ingest-grails module. Building on capabilities delivered in the last release, this release focuses on improving the overall reliability of the Middleware Services used by the PO.DAAC System. The service architecture offers simplified and flexible approach for organizing data products from various mission and/or instruments.

The second module being released with this program set is the Inventory Web Service module. This module wraps the Inventory program set with a restful web service. This allows the Inventory program set to be separated from other modules, which increases security (fewer connections, usernames to the database) as well as flexibility (single point of Inventory changes, federate the Inventory service). 3.2.1 is the initial release of the Inventory web service.

Details on this release can be found in the following sections of this document:

- Capabilities
- Users
- System Requirements
- Installation
- Operations
- Appendix A - Requirements Support
- Appendix B - Test Status

### Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the Ingest Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

#### New Capabilities

The following capabilities are new for this release

- Manager
  - + None
- Sigevent
  - + None
- Inventory
  - + None
- Security
  - + None

#### Modified Capabilities

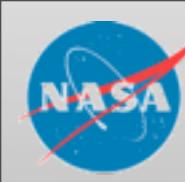
The following capabilities have been modified for this release

- Manager
  - + None
- Sigevent
  - + None
- Inventory
  - + None

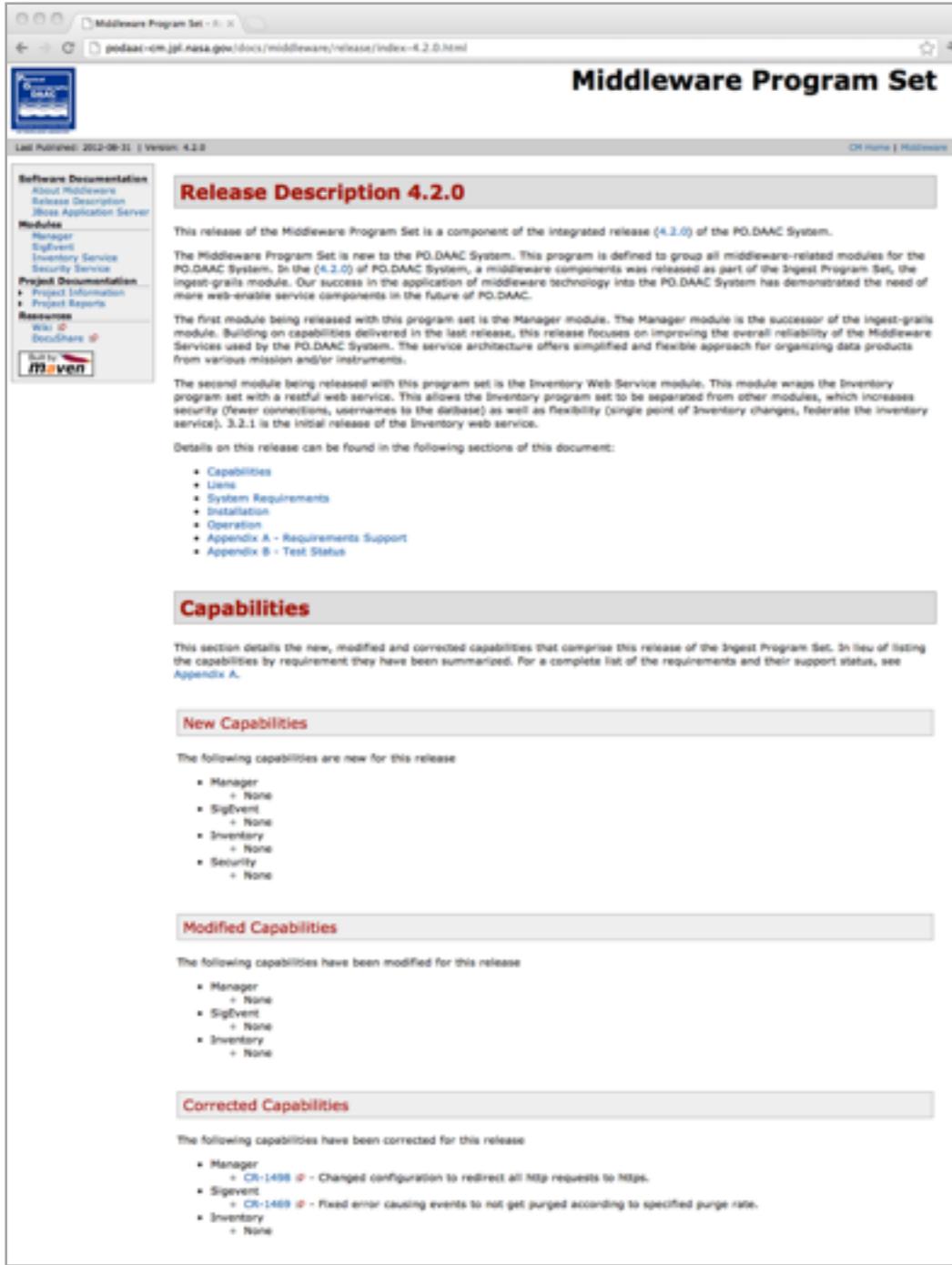
#### Corrected Capabilities

The following capabilities have been corrected for this release

- Manager
  - + CR-1498 - Changed configuration to redirect all http requests to https.
- Sigevent
  - + CR-1499 - Fixed error causing events to not get purged according to specified purge rate.
- Inventory
  - + None



# Middleware



The screenshot shows a web browser displaying the 'Middleware Program Set' release description for version 4.2.0. The page includes a left sidebar with navigation links for Software Documentation, Middleware, Project Documentation, and Resources. The main content area features a 'Release Description 4.2.0' section with text about the release, followed by 'Capabilities' sections for New, Modified, and Corrected capabilities, each listing specific modules and their status.

**Release Description 4.2.0**

This release of the Middleware Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. The Middleware Program Set is new to the PO.DAAC System. This program is defined to group all middleware-related modules for the PO.DAAC System. In the (4.2.0) of PO.DAAC System, a middleware components was released as part of the Ingest Program Set, the ingest-grails module. Our success in the application of middleware technology into the PO.DAAC System has demonstrated the need of more web-enable service components in the future of PO.DAAC.

The first module being released with this program set is the Manager module. The Manager module is the successor of the Ingest-grails module. Building on capabilities delivered in the last release, this release focuses on improving the overall reliability of the Middleware Services used by the PO.DAAC System. The service architecture offers simplified and flexible approach for organizing data products from various mission and/or instruments.

The second module being released with this program set is the Inventory Web Service module. This module wraps the Inventory program set with a restful web service. This allows the Inventory program set to be separated from other modules, which increases security (fewer connections, usernames to the database) as well as flexibility (single point of Inventory changes, federate the Inventory service). 3.2.1 is the initial release of the Inventory web service.

Details on this release can be found in the following sections of this document:

- Capabilities
- UMLs
- System Requirements
- Installation
- Operations
- Appendix A - Requirements Support
- Appendix B - Test Status

**Capabilities**

This section details the new, modified and corrected capabilities that comprise this release of the Ingest Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

**New Capabilities**

The following capabilities are new for this release

- Manager
  - + None
- SigEvent
  - + None
- Inventory
  - + None
- Security
  - + None

**Modified Capabilities**

The following capabilities have been modified for this release

- Manager
  - + None
- SigEvent
  - + None
- Inventory
  - + None

**Corrected Capabilities**

The following capabilities have been corrected for this release

- Manager
  - + [CR-1498](#) - Changed configuration to redirect all http requests to https.
- SigEvent
  - + [CR-1498](#) - Fixed error causing events to not get purged according to specified purge rate.
- Inventory
  - + None

- **New Capabilities**

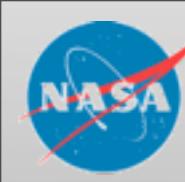
- none

- **Modified Capabilities**

- none

- **Corrected Capabilities**

- [Trac 1469](#) - purging of events error
- [Trac 1498](#) - All requests to manager via http needs to redirect to https



OCSI Program Set - Release 4.2.0

podaac-cm.jpl.nasa.gov/docs/ocsi/release/index=4.2.0.html

## Oceanographic Common Search Interface Program Set

Last Published: 2012-08-31 | Version: 4.2.0

CM Home | OCSI

**Software Documentation**

- About OCSI
- Release Description
- Installation
- Operation

**Project Documentation**

- Project Information
- Project Reports

**Resources**

- Wiki
- DocuShare

Built by maven

### Release Description 4.2.0

This release of the OCSI Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Liens
- System Requirements

### Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the OCSI Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see Appendix A.

#### New Capabilities

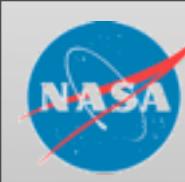
- None

#### Modified Capabilities

- None

#### Corrected Capabilities

- None



## OCSI

The screenshot shows the "Release Description 4.2.0" page of the OCSI Program Set. It includes a sidebar with links for Software Documentation (About OCSI, Release Description, Installation, Operation), Project Documentation (Project Information, Project Reports), and Resources (Wiki, DocuShare). The main content area has a "Release Description 4.2.0" section with a summary of the release and links to Capabilities, Liens, and System Requirements. Below it is a "Capabilities" section with a summary and a link to Appendix A. The "New Capabilities" section lists "None". The "Modified Capabilities" section lists "None". The "Corrected Capabilities" section lists "None".

- **New Capabilities**

- none

- **Modified Capabilities**

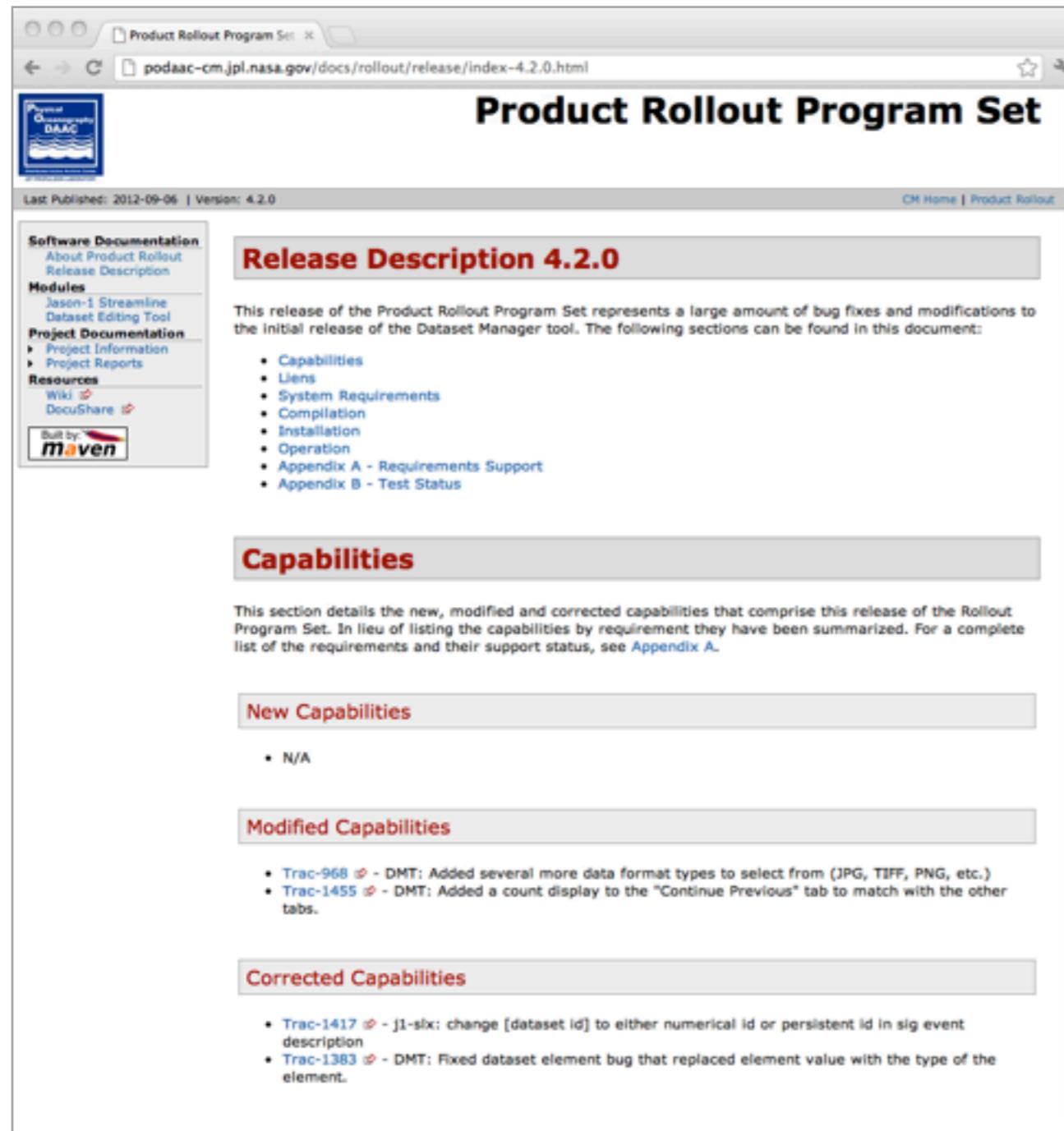
- none

- **Corrected Capabilities**

- none



# Product Rollout



The screenshot shows a web browser window displaying the "Product Rollout Program Set" website. The URL in the address bar is [podaac-cm.jpl.nasa.gov/docs/rollout/release/index-4.2.0.html](http://podaac-cm.jpl.nasa.gov/docs/rollout/release/index-4.2.0.html). The main title is "Product Rollout Program Set". On the left, there is a sidebar with links for Software Documentation, Modules, Project Documentation, and Resources, along with a Maven logo. The main content area is titled "Release Description 4.2.0" and contains a summary of changes and a list of capabilities. Below this, sections for "New Capabilities", "Modified Capabilities", and "Corrected Capabilities" are listed with their respective details.

**Release Description 4.2.0**

This release of the Product Rollout Program Set represents a large amount of bug fixes and modifications to the initial release of the Dataset Manager tool. The following sections can be found in this document:

- Capabilities
- Liens
- System Requirements
- Compilation
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

**Capabilities**

This section details the new, modified and corrected capabilities that comprise this release of the Rollout Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

**New Capabilities**

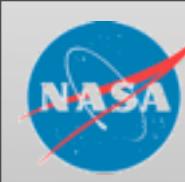
- N/A

**Modified Capabilities**

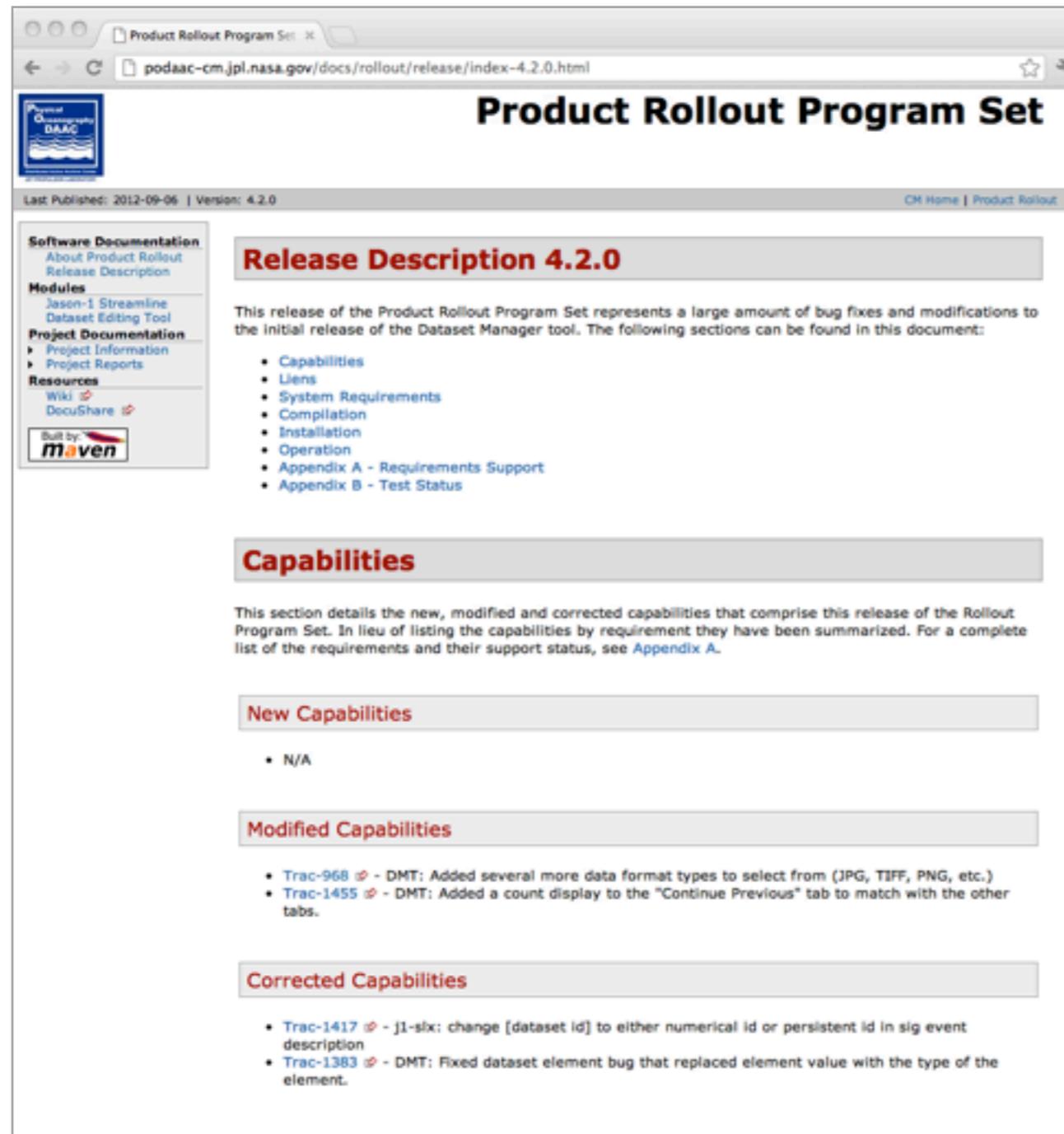
- Trac-968 - DMT: Added several more data format types to select from (JPG, TIFF, PNG, etc.)
- Trac-1455 - DMT: Added a count display to the "Continue Previous" tab to match with the other tabs.

**Corrected Capabilities**

- Trac-1417 - j1-slx: change [dataset id] to either numerical id or persistent id in sig event description
- Trac-1383 - DMT: Fixed dataset element bug that replaced element value with the type of the element.



# Product Rollout



The screenshot shows a web browser displaying the 'Product Rollout Program Set' documentation. The title 'Product Rollout Program Set' is at the top. Below it is a 'Release Description 4.2.0' section. The left sidebar contains links for Software Documentation, Modules, Project Documentation, and Resources, along with a Maven badge. The main content area includes sections for 'Capabilities', 'New Capabilities' (which is empty), 'Modified Capabilities' (listing Trac-968 and Trac-1455), and 'Corrected Capabilities' (listing Trac-1417 and Trac-1383). The footer of the page includes the URL 'podaac-cm.jpl.nasa.gov/docs/rollout/release/index-4.2.0.html'.

## • New Capabilities

- none

## • Modified Capabilities

- [Trac 968](#) - need more data formats in the dmas tool
- [Trac 1455](#) - DMT: add count to continue previous

## • Corrected Capabilities

- [Trac 1383](#) - DMT: create new dataset then use that one to copy from previous results in field errors
- [Trac 1417](#) - j1-slx: change [dataset id] to either numerical id or persistent id in sig event description

## • Lien (Inventory/Product Rollout)

- [Trac 1500](#) - DMT - adding spatial element results in deletion of dataset elements



View Program Set – Release 4.2.0

podaac-cm.jpl.nasa.gov/docs/view/release/index-4.2.0.html

## View Program Set

Last Published: 2012-08-31 | Version: 4.1.0 CM Home | View

**Software Documentation**

- About View
- Release Description

**Modules**

- GHRSSST Web
- PO.DAAC Web Portal
- VODC for PODAAC

**Project Documentation**

- Project Information
- Project Reports

**Resources**

- Wiki
- DocuShare

Built by  Maven

### Release Description 4.2.0

This release of the View Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Liens
- System Requirements
- Installation
- Operation

### Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the View Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

#### New Capabilities

- None

#### Modified Capabilities

- [Trac-1461](#) - Changed display fields on the dataset table.

#### Corrected Capabilities

- [Trac-1091](#) - Fixed search autocomplete error when typing a "+" sign.

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### Measurement: Ocean Temperature

Name	Temp Res	Spatial Res	Region	Start	Stop	Process Level	Sensors	Format
AVHRR_L1R1Bd_AVHRR2A_2km	Daily	0.08 DD	Oceans	2008-Mar-20	Present	4	AHSR-E, AVHRR, InSitu, AVHRR-3	NETCDF
AVHRR_L1R1Bd_GLOB_AVHRR2A_2km	Daily	0.25 DD	Global	2008-Aug-23	Present	4	AHSR-E, AVHRR, InSitu, AVHRR-3	NETCDF
AVHRR_NAVOCEND_L2_2km_HGTET_LAC	12 hours	1100 km	Global	2002-Aug-4	Present	2	AVHRR-3	ASCII
AVHRR_NAVOCEND_L2_2km_HGTET_FRAC	12 hours	1100 km	Global	2008-Jun-9	Present	2	AVHRR-3	ASCII
AVHRR_NAVOCEND_L2_8km_HGTET_GAC	12 hours	8000 km	Global	2001-Aug-28	Present	2	AVHRR-3, AVHRR-2	ASCII
AVHRR_NAVOCEND_L2_18km_HGTET_DAYTIME	weekly	0.18 DD	Global	2001-Aug-28	2005-Oct-25	3	AVHRR-3, AVHRR-2	ASCII
AVHRR_NAVOCEND_L2_18km_HGTET_NIGHTTIME	weekly	0.18 DD	Global	2001-Aug-28	2005-Oct-25	3	AVHRR-3, AVHRR-2	ASCII
AVHRR_PATHFINDER_L3_SST_SOAA_DAYTIME_V03	5 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_SOAA_DAYTIME_V03	5 Day	0.04 DD	Global	1985-Aug-23	1985-Jan-20	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_SOAA_NIGHTTIME_V03	5 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_SOAA_NIGHTTIME_V03	5 Day	0.04 DD	Global	1985-Aug-23	1985-Jan-30	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_70AU_DAYTIME_V03	7 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_70AU_DAYTIME_V03	7 Day	0.04 DD	Global	1985-Aug-23	1985-Jan-30	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_70AU_NIGHTTIME_V03	7 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_70AU_NIGHTTIME_V03	7 Day	0.04 DD	Global	1985-Aug-23	1985-Jan-30	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_SOAA_DAYTIME_V03	8 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF

Source: Open Source Exchange  
2011-03-24 | Denver, Colorado

Date: Thursday, October 6, 2011

Dataset: Sea Surface Temperature

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View Program Set – Release 4.2.0

## View Program Set

Last Published: 2012-08-31 | Version: 4.1.0

[CM Home](#) | [View](#)

**Software Documentation**

- [About View](#)
- [Release Description](#)

**Modules**

- [GHRSS Web](#)
- [PO.DAAC Web Portal](#)
- [VODC for PODAAC](#)

**Project Documentation**

- [Project Information](#)
- [Project Reports](#)

**Resources**

- [Wiki](#)
- [DocuShare](#)

Built by  Maven

### Release Description 4.2.0

This release of the View Program Set is a component of the integrated release (4.2.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Liens
- System Requirements
- Installation
- Operation

### Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the View Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

#### New Capabilities

- None

#### Modified Capabilities

- [Trac-1461](#) - Changed display fields on the dataset table.

#### Corrected Capabilities

- [Trac-1091](#) - Fixed search autocomplete error when typing a "+" sign.

## View

### • New Capabilities

- none

### • Modified Capabilities

- [Trac 1461](#) - Fix space/time metadata in summary tables

### • Corrected Capabilities

- [Trac 1091](#) - Web Portal: Dataset Keyword Combining on Web Portal Search Tool

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### Measurement: Ocean Temperature

Name	Temp Res	Spatial Res	Region	Start #	Stop #	Process Level	Sensors	Format #
AISCH_L1R1Hd_AIS_RAMSIS_25m	Daily	0.05 DD	Oceania	2008-Mar-21	Present	4	AISR-E, AISR-S, InSitu, AVHRR-3	NETCDF
AISCH_L1R1Hd_GLOB_GAMSIS_25m	Daily	0.25 DD	Global	2008-Aug-23	Present	4	AISR-E, AISR-S, InSitu, AVHRR-3	NETCDF
AVHRR_NAVOCENNO_L2_2km_HGTET_UAC	12 hours	1100 km	Global	2002-Aug-4	Present	2	AVHRR-3	ASCII
AVHRR_NAVOCENNO_L2_2km_HGTET_Frac	12 hours	1100 km	Global	2008-Jun-9	Present	2	AVHRR-3	ASCII
AVHRR_NAVOCENNO_L2_8km_HGTET_GAC	12 hours	8000 km	Global	2001-Aug-28	Present	2	AVHRR-3, AVHRR-2	ASCII
AVHRR_NAVOCENNO_L2_18km_HGTET_DAYTIME	weekly	0.18 DD	Global	2001-Aug-28	2005-Oct-25	3	AVHRR-3, AVHRR-2	ASCII
AVHRR_NAVOCENNO_L2_18km_HGTET_NIGHTTIME	weekly	0.18 DD	Global	2001-Aug-28	2005-Oct-25	3	AVHRR-3, AVHRR-2	ASCII
AVHRR_PATHFINDER_L3_SST_SOAI_DAYTIME_V03	5 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_SOAI_DAYTIME_V03	5 Day	0.04 DD	Global	1985-Jan-23	1985-Jan-20	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_SOAI_NIGHTTIME_V03	5 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_SOAI_NIGHTTIME_V03	5 Day	0.04 DD	Global	1985-Aug-23	1985-Jan-30	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_70AU_DAYTIME_V03	7 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_70AU_DAYTIME_V03	7 Day	0.04 DD	Global	1985-Aug-23	1985-Jan-30	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_70AU_NIGHTTIME_V03	7 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_70AU_NIGHTTIME_V03	7 Day	0.04 DD	Global	1985-Aug-23	1985-Jan-30	3	AVHRR-3, AVHRR-2	HDF
AVHRR_PATHFINDER_L3_SST_SOAI_DAYTIME_V03	8 Day	0.04 DD	Global	1985-Jan-3	Present	3	AVHRR-3, AVHRR-2	HDF

Source: Open Source Exchange  
2011-09-24 | Denver, Colorado

DATE: Thursday, October 6, 2011

Category: Sea Surface Temperature

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California Institute of Technology  
Pasadena, California



# Core System 4.2.0