EOC User Services

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EOC Systems for User Services

EOC user services are provided by EOIS/DDMS*

* NASDA Earth Observation data and Information System / Data Distribution and Management System

The main functions of the EOIS/DDMS are:
- to exchange data and information with relevant agencies
- to archive satellite data
- to provide catalogue information and browse images
- to manage orders for satellite data
- to distribute satellite data
Development Status

- EOIS enhancements for ADEOS-II level 1 products are now in the operational performance test phase.

- EOIS enhancements for ADEOS-II higher level products are now in the software design phase.
# EOIS Development Schedule

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<tr>
<td>Milestone</td>
<td>ADEOS Launch</td>
<td>TRMM Launch</td>
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<tr>
<td>ADEOS-II (Level 1)</td>
<td>Conceptual Design</td>
<td>Preliminary Design</td>
<td>Development &amp; Test</td>
<td>Interface Test (1)</td>
<td>Interface Test (2)*</td>
<td>Connectivity Test</td>
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<tr>
<td>ADEOS-II (Higher Level)</td>
<td>Critical Design</td>
<td>PDR</td>
<td>CDR</td>
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* : test between processing systems
User Services from EOIS

EOIS user services at EOC are categorized as:

1. **Catalogue information services**
   - Catalogue search
   - Browse search
   - Product Order

2. **Off-line data distribution service (on media)**
   - Scene orders
   - Standing orders

3. **On-line data distribution service (via network)**
   - Graphical images (GIF data) on the WWW
   - Standard products via the internet (selected according to size)
   - Data transmission to relevant agencies
1. Catalogue Information

Data Ordering

- Users can submit orders for products identified in catalogue searches by the EUS

URL: http://www.eoc.nasda.go.jp/catalogue/catalogue_e.html
EUS

What is EUS?

- EUS is the EOIS client used to retrieve catalogue and browse data, and to order products.
- There are two types of EUS:
  - EUS/GUI
  - EUS/WWW
Features of the EUS (1)

EUS/GUI

- Application software for Windows 95 /98 /NT4.0
  (Operation on Windows 2000 / Me are not confirmed yet)
- For PIs and designated agencies only
- User registration is necessary
How to use EUS/GUI?

What is necessary before using the EUS?

Software download

- EUS/GUI download is available from the following site:
  - user name: eusadmin
  - password: dontaku

User registration

- Contact point for PIs will be set up at EORC order desk (TBD)
- Tentative contact point is as follows:
  - e-mail: orderdesk@eorc.nasda.go.jp (recommended)
  - Tel: +81-3-5561-8767 /Fax: +81-3-5561-9542
Features of the EUS (2)

**EUS/WWW Gateway**

- Information service available via WWW browser software
- Catalogue search is available for all users
- Ordering interface is only for PIs (user registration is necessary)

http://eus.eoc.nasda.go.jp
Information Services Overview

EOC

Processing System

IRS

catalogue

Inventory

Browse

SMSS

Order

URS

CATS

BDS

EUS/GUI

for Windows

User

EOC

Inventory

Browse

Order

Inventory

Browse

Order

Inventory

Browse

Order

WWW G/W

EUS

WWW Browser

Standard Products

ADS

Standard Products

DRS

Images (http)

Products (http)
Other Information Service

Catalogue Interoperability with NASA

- NASDA and NASA will implement catalogue, browse and order interoperability for the ADEOS-II phase

- Both Japanese and U.S. PIs can search the ADEOS-II and other satellite catalogues, view browse and order data
2. Off-line Data Distribution

There are two methods of off-line data distribution

1. Standard product orders (Scene orders)
   - distribution of each products identified in catalogue searches

2. Standing orders
   - periodic distribution of products according to requirements submitted in advance
2. Off-line Data Distribution

2.1 Standard product orders (Scene orders)

- Products available: All standard products processed at the EOC
- Media: 8mm, CD-ROM, DLT
- Ordering: both on-line by EUS and off-line by FAX are available
- Format: NCSA-HDF
- Scene editing: will not be supported at the EOC
2. Off-line Data Distribution

2.2 Standing orders

- The following products, generated according to sensor observation plans, are available:
  - AMSR Level 1A, 1B, 2, 3
  - GLI-1km Level 1A, 1B, 2A, 2, 3 Binned, 3 STA Map
  - GLI-250m Level 1A, 1B
- Distribution frequency: TBD (ex: 4 days, 16 days, 1 month)
- Media: 8mm, DLT
- Ordering: off-line by FAX only (contact point will be EORC order desk)
- Format: NCSA-HDF
- Scene editing: will not be supported at EOC
- This service is provided only to PIs and to the EORC
3. On-line Data Distribution

There are three services in on-line data distribution

1. Exhibition of graphical images on the WWW (ADS)
2. Distribution of standard products via the internet (DRS)
3. Data transmission to designated agencies
3. On-line Data Distribution (DRS)

Standard product distribution

**DRS** - The most recent 6 months (or more) of the following products will be available via the internet (http)

- All of the **AMSR level 3** (daily/monthly) products
- All of the **GLI-1km level 3 STA Map** products (except for NW, LA, K490, ST_DayNight)
- These products were chosen according to their data volume and available bandwidth
- This service will be available to all registered users, including PIs.

**EUS** - Designating the “on-line” option, EUS users will be able to receive all standard products via this interface (only for PIs)

[http://drs.eoc.nasda.go.jp](http://drs.eoc.nasda.go.jp)
3. On-line Data Distribution

Near real-time data transmission

- The following data processed at the EOC will be transmitted to the listed agencies immediately

- AMSR Level 1A: JPL/PO.DAAC
- AMSR Level 1B: EORC, JMA
- AMSR Level 2: EORC, JMA, JAFIC

- GLI-1km Level 1B: NOAA, JMA
- GLI-1km Level 2: EORC, JMA
- GLI-1km Level 2 Map: EORC, JMA, JAFIC

* Data transmission to the EORC

- GLI-1km level 1B data received at the EOC directly will be transmitted to the EORC until beginning the transmission to the JMA

- EORC users will be able to get other processed data according to their needs (On Demand Transmission interface)
Release timing of services

Release timing of higher level products

- The routine processing of standard higher level products (level 2 and higher) at the EOC will begin about 1 year later after the ADEOS-II launch

- The following services for higher level products from the EOC will also start at that time:
  - Browse search service via EUS (jpeg data)
  - Graphical image distribution service on the WWW (GIF data)
  - Standard product distribution service via the internet (http I/F)
# Schedule of Data Distribution from the EOC

<table>
<thead>
<tr>
<th>Year</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
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<tr>
<td>Milestone</td>
<td>ADEOS-II Launch</td>
<td>C/O Phase</td>
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<td>Mission Operation Phase</td>
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<tr>
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<td>L+3M</td>
<td>L+6M</td>
<td>L+12M</td>
<td>L+3M</td>
<td>L+6M</td>
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<tr>
<td>Distribution</td>
<td></td>
<td>L1 data release to algorithm developer</td>
<td></td>
<td>L1 data release to the public</td>
<td>Higher level products release to the public</td>
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