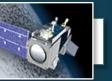


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# JPSS EDR Product Repository Early Discussions

- At meetings in Fall 2014, the idea to develop a STAR JPSS program wide repository to house and share JPSS EDR product images was suggested.
- At this point, STAR ICVS had been implemented for 2 years; it seemed an ideal web interface and browsing framework for daily product information.



# ICVS as an EDR Repository Platform

- Advantages of ICVS as interface for presenting EDR content:
  - Constructed and organized for browsing content that is updated daily;
  - Easy to update and edit;
  - Extensible to additional products without additional web programming;
  - Familiar to many of the prospective user groups;
  - Compliant with Section 508 and other government directives regarding web presentation and architecture;
  - Thoroughly tested and reliable across all modern browsers;
  - Interface can accommodate different content types: images, maps, charts, text, zip files, and eventually vector-based charts;
  - No surprises!



## Prototype Now Online with 7 Product Groups

- Spring 2015 initiated prototyping;
- Contacted first product groups to start developing and acquiring images;
- Prototype currently houses product images from the following teams as of 8/24/2015:

Product Team	Product Images Daily	Product Dates Available	Production Stream
Soundings	598	1/1/2015 to present	automated
Land Surface Temperature	3	1/1/2015 to present	automated
Albedo	1	1/1/2015 to present	automated
Vegetation Index	3	6/20/2015 to present	automated
Active Fires	1	1/1/2015 to present	batch
Ozone	3	1/1/2015 to 7/15/2015	batch
Surface Type	4	5/1/2015 to present	automated

## JPSS EDR Product Monitoring Demo

- http://www.star.nesdis.noaa.gov/jpss/EDRs/index.php
- Key features:
  - Navigate by product;
  - Navigate through products by date;
  - 'About' popup;
  - Animation:
    - Across all metrics in each product group;
    - NEW! Animate a selected timespan for a single product;

#### EDRs Are Not Quite the Same as Cal/Val Metrics

- Heavy on the maps; less emphasis on other types of 'charts'.
- Lower volume of images in most cases;
- So, we have made a few key updates to the ICVS interface to better support EDRs' presentational needs:
  - New Animation of a single product across a user-configurable time span (Coming soon: download the animation file)
  - Stricter standardization of product layout, typography, labelling, and underlying map conventions
    - The less variation in presentation, the more what users will see and focus on is the data being presented.
  - Goal: developing a shareable piece of code to generate product maps for all product teams who generate in IDL;
    - Your mileage may vary not all ways of producing data work well with all IDL mapping commands.

#### JPSS EDR Site vs. Team Sites

- Producing content for the JPSS EDR site doesn't change what you do or don't produce for your own team or product area websites.
- There may or may not be content overlap between the JPSS EDR site and other sites;
- The goal of the EDR Repository is ONE STOP SHOPPING; a little redundancy is no cause for concern.

#### Steps to Produce & Publish EDR Products - 1

- Product Teams: figure out what you want to include on your page. Suitable content may include:
  - EDR deliverable products (at a minimum, we need these for the site);
  - Comparison products from other satellite instruments;
  - Quality measure charts, like NE $\Delta$ N.
  - Usually images (.jpg, .gif, .png, but can also include .txt, .zip)
  - Please note: content for the page is ideally content that is refreshed daily.
    - Land Surface Temperature for Global Surface 8/22/2015 YES!
    - 10 day composite of anything probably not.
- Meet with JPSS EDR to go over style guide, layout of maps, formatting preferences;
- Product Team develops a 'test set' of product images, JPSS EDR team reviews, revises, and approves.

#### Steps to Produce & Publish EDR Products - 2

#### • JPSS EDR team:

- Establishes a directory structure on the webserver to house Team's products;
- Develops the CSV file that lists product file descriptions and locations;
- Add the new Product page;
- To add or remove content, we edit the CSV file to reflect additions / changes / deletions from the product set.

#### Product Teams

- Run charts as far back as you can (we are aiming for EDRs back to Jan.
   1, 2015), and write them to the specified location on STAR webserver;
- Set the product generation script on a cron job;
- No website to maintain, no HTML to write, just generate your products

### Next Steps To Complete The EDR Repository

- Reach out to remaining product teams to start generating products;
- Work with existing teams to refine and improve product presentation, standardization, re-usable IDL script block;
- Integrate new features like new single product animation back into the STAR ICVS.