ESO Review - Data Product Development Guide for Data Producers

NASA's Earth Science Data and Information Systems (ESDIS) Standards Office (ESO) conducts reviews of proposed standards, practices, and technical information relevant to the ESDIS mission. Documents are reviewed as part of the ESDIS Project's standards process. Approved documents are published and listed on the Standards Requirements and References page.

ESO is conducting a review of recommendations from the Earth Science Data Systems Working Group (ESDSWG) on Guidance for Data Product Developers.

> **NOTE**
>
> This is a 2nd round review of this document. ESO is not seeking new reviewers at this time. If you do wish to comment on the latest version of the document please contact the ESO at eso-staff@lists.nasa.gov

Together with the authors, the ESDIS Standards Office has produced an updated version of the document to address the comments we received. Authors of this document also replied to each of your comments in the original review of this document. The original review copy and comments are still available here: https://rms.earthdata.nasa.gov/review.req#/r:REV-514. Please note that since the review on the original document has closed, you can only view the authors' replies there, but can not comment anymore. You can add new comments to the updated version of this document (review link provided below).

Please take a look at this updated version and provide any additional feedback you may have by June 19th. Please note that since you've already replied to the reviewer questions (questions under the ***Guide for Reviewers*** section) in the original document, you don't need to reply to them again but are you are welcome to comment further.

All review comments are due by **June 19, 2020.**

Quick Start for Reviewers

ESDIS uses the Jama online document review system to collect community comments on proposed standards, practices and technical information submitted to ESO for review. Offline reviews, where you download the document and review questions, then respond via email, are also accepted. Quick instructions for each are below.

Preferred Method: Use Jama

1. Request Jama access to these documents by contacting the ESO at eso-staff@lists.nasa.gov. Please include your Earthdata login username if you have one.
2. Read and provide comments about the document and the proposal via Jama here:
    - https://rms.earthdata.nasa.gov/review.req#/r:REV-527
3. For more details on using Jama, see the information at the bottom of this page.
4. All review comments are due by **June 19, 2020**

Alternate Method: Respond via email

1. Download the document:
    - **Updated document: Data Product Development Guide for Data Producers v0. 9.3** (.PDF version) (.DOCX version)
2. Read the documents, provide additional feedback by answering the review questions:
    - **Data Product Development Guide for Data Producers Review Questions** (.PDF version) (.DOCX version)
3. Send your feedback to the ESO at eso-staff@lists.nasa.gov
4. All review comments are due by **June 19, 2020**

The original review version 0.9.2 is available here: (.PDF version) (.DOCX version)

Review Introduction

This guide is primarily intended for developers of Earth Science data products derived from remote sensing data, and particularly for the development of Level 1B through Level 4 products. However, developers of related data products including Level 0 and 1A satellite data, as well as airborne and *in situ* data products, will also find useful guidance. The DPDG aims to compile the most applicable parts of earlier guides into an easy-to-follow document that logically outlines the typical development process for Earth Science data products. Emphasis has been given to standards and best practices formally endorsed by the ESO, outputs from ESDSWGs, and recommendations from DAACs and data producers. Ultimately, the DPDG provides developers with guidelines for how to make data products that best serve end user communities—the primary beneficiaries of data product development. If approved, these recommendations will serve as a Suggested Practice reference for data producers.

The Earth Science Data Systems Working Groups (ESDSWG) is an organization charged with the exploration and development of recommendations derived from pertinent community insights of NASA's heterogeneous and distributed Earth science data systems.

The role of the ESDIS Standards Office (ESO) is to conduct a review of this document by soliciting comments from a cross section of the Earth Science community.

Reviewers are invited to read the document and answer the questions provided on the review web page. The ESO recognizes that not all reviewers will be familiar with all of the content of the document. Reviewers are welcome to review those parts of the document that they have experience with. You only need to answer questions applicable to you. Additional comments are welcome.

Review Questions

- What is your role? Select one or more of: data product generator, data distributor, tool developer, data user
- Data product generator questions -
    - Does this guide address questions you have had in designing data products for use within your community? For broader use?
    - Does this guide organize data product development information in a way that will make this aspect of your work easier?
    - Do these recommendations address the challenges faced by your users in finding, evaluating and using their specific data of interest?
    - Would you be able to implement recommendations made here?
- Data distributor questions -
    - Does this guide address questions you have discussed with your data providers?
    - If data product developers follow this guide, will your work cataloging and supporting their data be easier?
- Data tool developer questions -
    - If data product developers follow this guide, will your work developing and maintaining tools for use with multiple types of data be easier?
- Data User questions -
    - What type of data do you use? (satellite, model, in situ, airborne, ...)
    - If you are a scientist, what is your science discipline ?
    - Do these recommendations address challenges you've encountered in finding, evaluating and using your data of interest?
- General questions for everyone -
    - Which sections of this guide are most relevant to your area of work?
    - Are there recommendations you disagree with?
    - Do you have concerns about any of these recommendations?
    - Are there additional recommendations that would help you?
    - Are there any terminologies, statements or recommendations that could be communicated more clearly or more properly defined? If so, please explain.
    - Do you feel that the document should be endorsed as a NASA Earth Science Suggested Practices document? Please provide a rationale for your answer, if not apparent from your responses to the above questions.

Detailed instructions for Jama reviewers:

The benefit of using the Jama system is that you can easily comment on specific portions of the document and can see comments provided by others.

Review comments may be submitted via the Earthdata Jama document review system. If you already have access to the NASA Earthdata Jama system, please contact ESO at eso-staff@lists.nasa.gov and let us know your Earthdata Login username so we can add to you the list of reviewers.

Once you are registered to provide a review, you will receive email from the ESO Team with links to the documents under review. When you get the email, please follow the instructions to gain access to the documents and to begin the review.

In order to log in to the Jama system (i.e. to follow any of the Jama review links) you must have an Earthdata Login account with access to Jama. Use your Earthdata Login username and password to log in to Jama. Earthdata Login username and password recovery can be done at http://urs.earthdata.nasa.gov/

If you do not already have a Jama account but wish to use the Jama system, you can request one at the Earthdata Service Desk.

Jama Resources

- A short Jama Guide for Reviewers

NOTE: Information on this page is subject to change.

Thank you!