

# ESCO Review - Atmospheric Composition Variable Standard Names

NASA's Earth Science Data and Information Systems (ESDIS) Standards Coordination Office (ESCO) 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.

## ESCO is conducting a review of Atmospheric Composition Variable Standard Names (ESDS-RFC-043)

This document describes a system for generating atmospheric composition standard names, including guidelines on how to generate a standard name, and lists of controlled variable names for use within the atmospheric composition standard name. The atmospheric composition variable standard names are constructed using four parts: measurement category, core name, acquisition method, and descriptive attributes. The system is intended to address limitations in existing standards.

All review comments are due by **June 17th, 2022**.

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## 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 ESCO 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 ESCO at [esco-staff@lists.nasa.gov](mailto:esco-staff@lists.nasa.gov). Please include your Earthdata login username if you have one.
2. Read and provide comments about the document via Jama here:
  - <https://rms.earthdata.nasa.gov/review.req#/r:REV-581>
3. For more details on using Jama, see the information at the bottom of this page.
4. All review comments are due by **June 17th, 2022**.

### Alternate Method: Respond via email

1. Download the document:
  - **Atmospheric Composition Variable Standard Name Convention** ([.PDF version](#)) ([.DOCX version](#))
2. Read the document and provide additional feedback by answering the review questions:
  - **Atmospheric Composition Variable Standard Name Convention - Review Questions** ([.PDF version](#)) ([.DOCX version](#))
3. Send your feedback to the ESCO at [esco-staff@lists.nasa.gov](mailto:esco-staff@lists.nasa.gov)
4. All review comments are due by **June 17th, 2022**.

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## Review Introduction

The role of the ESDIS Standards Coordination Office (ESCO) 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. ESCO 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.

This document describes a new system for generating atmospheric composition standard names, including guidelines on how to generate a standard name and lists of controlled variable names for use within the atmospheric composition standard name. The atmospheric composition variable standard names are constructed using controlled vocabulary terms with four parts including measurement category, core name, acquisition method, and descriptive attributes. Due to limitations in the current set of standards available for use as standard names, and to address other goals or concerns, a new system of standard names has been formed. The list of controlled variable names is located at the Suborbital Science Data for Atmospheric Composition data repository.

## Review Questions

- What is your job function? Select one or more of: instrument scientist/data provider, data manager, data user, data scientist
  - Does this proposed Convention and guidelines address questions you have had in designing/developing data products for use within your community? For broader use in the science community?
  - Is there sufficient detail in the guidelines in the proposed Convention for generating atmospheric composition variable standard names?
  - Would you be able to implement this proposed Convention and guidelines, and would their implementation make this aspect of your work easier?
  - Would the implementation of these guidelines address the challenges faced by your users in finding, evaluating, and using their specific data of interest?
  - Is there anything you measure that you cannot find in the controlled lists?
  - Can you use the controlled lists (i.e., measurement category, corename, and attributes) to describe your measurements? If not, is it clear how to contact someone to add a new core name, descriptive attribute, or measurement category?
- Data distributor questions -
  - Does this proposed Convention address questions/concerns you have discussed with your data providers?
  - Would the use of standard variable names enable/facilitate data discovery for your users?
  - Would the use of standard variable names facilitate ingest, archiving, and distribution?
  - If data product developers follow this proposed Convention, will your work cataloging and supporting their data be easier? Does it conflict with any current practices?
- Data User questions -
  - What type of data do you use? (satellite, model, in situ)
  - What is your research discipline?
  - Does the information provided in this proposed Convention address challenges you've encountered in finding, documenting, and evaluating your data of interest, and provide a better understanding of the data for your research?
- General questions for everyone -
  - Which sections of the proposed Convention are most relevant to your area of work?
  - Do you disagree with, or have concerns about, any of the guidelines?
  - Are there additional recommendations that would help you?
  - Are there any terminologies, or statements that could be communicated more clearly or more properly defined? If so, please explain.
  - Would use of this proposed Convention and guidelines improve the usability and quality of the data product?
  - Do you feel that the document should be endorsed as a NASA Earth Science Standards Convention document? Please provide a rationale for your answer, if not apparent from your responses to the above questions.

You may send any questions about the review to the ESCO staff at [esco-staff@lists.nasa.gov](mailto:esco-staff@lists.nasa.gov).

## 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 ESCO at [esco-staff@lists.nasa.gov](mailto:esco-staff@lists.nasa.gov) and let us know your Earthdata Login username so we can add you to the list of reviewers.

Once you are registered to provide a review, you will receive email from the ESCO 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](#) or email the ESCO staff at [esco-staff@lists.nasa.gov](mailto:esco-staff@lists.nasa.gov).

### Jama Resources

- A short [Jama Guide for Reviewers](#)

NOTE: Information on this page is subject to change.

**Thank you!**

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Microsoft Word Document ESDS-RFC-043 - review_questions.docx	May 03, 2022 by Steve Olding
PDF File ESDS-RFC-043 - review_questions.pdf	May 03, 2022 by Steve Olding
Microsoft Word Document ESDS-RFC-043v0.3.docx	May 03, 2022 by Steve Olding
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