

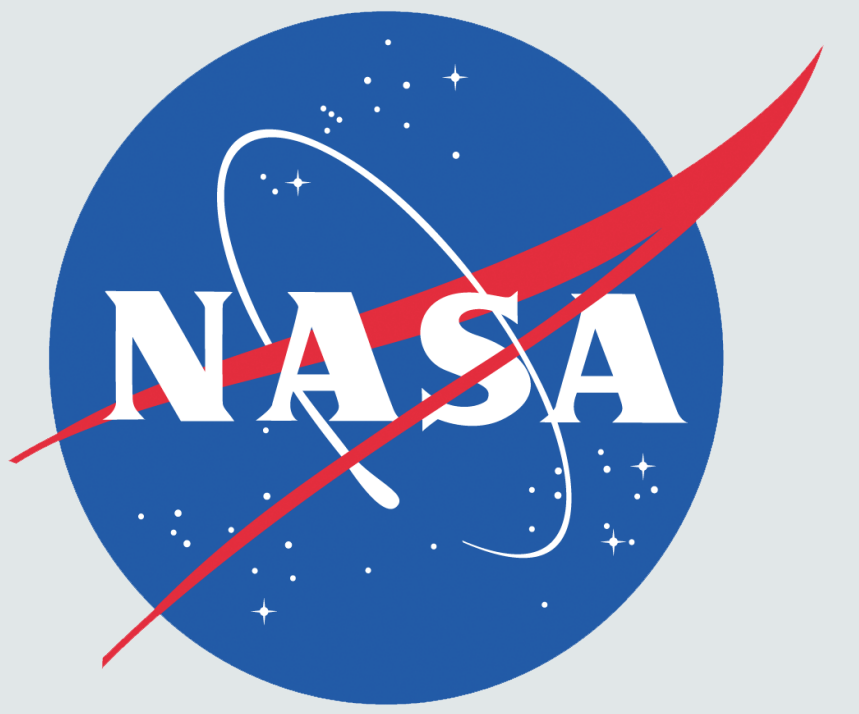
MMT Making Interoperability Easier

with NASA's Metadata Management Tool (MMT)

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The screenshot shows the MMT interface for managing metadata for 'AST_L1A_1'. It features a 'Metadata Fields' section with various categories like Collection Information, Data Identification, and Distribution Information, each with progress indicators. Below this, there are sections for 'Abstract', 'Data Identification Fields', 'Processing Level', 'Related URLs', 'Science Keywords', 'Acquisition Information Fields', 'Platforms', 'Temporal Information Fields', 'Spatial Information Fields', and 'Location Keywords'. A 'Download XML' dialog box is also visible, showing available metadata formats like Native, ATOM, DIF 9, DIF 10, ECHO 10, ISO 19115 (MENDS), and ISO 19115 (SMAP).

Navigation & Search

MMT offers easy and efficient navigation throughout the suite of tools. Perform a quick search or open the advanced search menu for more granular detail.

Progress Indicators

Quickly see your progress on every form. Indicators communicate required vs optional fields and when those fields have been completed or contain invalid metadata. Click on an indicator to open those fields.

Metadata Preview

From the preview pane, see all metadata that has been entered and what fields are to be completed. Click on the edit icon to be taken directly to those fields. This preview is also available from the Common Metadata Repository using the .html response type.

ISO-19115 Metadata Creation

While the ISO-19115 collection level metadata format meets many users' needs for interoperable metadata, it can be cumbersome to create it correctly. Through the MMT's simple UI experience, metadata curators can create and edit collections which are compliant with ISO-19115 without full knowledge of the NASA Best Practices implementation of ISO-19115 format. Users are guided through the metadata creation process through a forms-based editor, complete with field information, validation hints and picklists. Once a record is completed, users can download the metadata in any of the supported formats with just 2 clicks.

The screenshot shows the 'Download XML' dialog box in the MMT interface. It lists available metadata formats: Native, ATOM, DIF 9, DIF 10, ECHO 10, ISO 19115 (MENDS), and ISO 19115 (SMAP). A 'Close' button is visible at the bottom right of the dialog.

LEARN MORE ABOUT UMM

<https://earthdata.nasa.gov/about/science-system-description/eos-dis-components/common-metadata-repository/unified-metadata-model-umm>

How Do We Do That?

Under the covers, the MMT is utilizing NASA's Unified Metadata Model for Collections (UMM-C) which serves as a mapping between a variety of different metadata formats, allowing the MMT to produce a wide variety of compliant metadata formats. The MMT and UMM Conversions are in the process of being open sourced. They will be available on github.com/nasa soon!

