Standards at the ESIP 2020 Winter Meeting

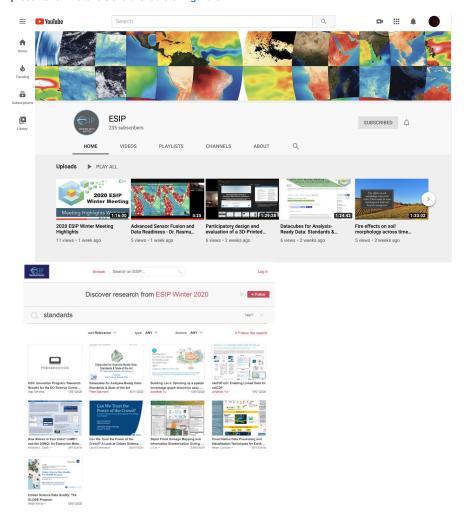
There was a lot going on at the ESIP meeting in the area of standards activities. ESIP is not itself a standards body, but ESIP members are actively helping to develop standards, specifications, and best practices in the areas of data discovery and access, data analytics, and metadata content to name a few. At the winter ESIP there were presentations and working sessions diving into these topics:

- Open Geospatial Consortium (OGC) APIs for coverage data access
- Cloud optimized GeoTIFF
- SpatioTemporal Asset Catalogs (STAC)
- Zarr
- Linked data and knowledge graph exchange
- Metadata quality metrics and practices
- · Geoscience ontologies

New at this meeting was a joint OGC/ESIP two-day sprint to further develop OGC API - Coverages - an API to provide access to coverage processing and analysis services. This was a deep-dive working session and the outcome was a better-defined API based on the OpenAPI Specification.

Many of these standards and specifications are very relevant to cloud computing by supporting new APIs, data formats, and workflow tools that allow efficient access of data without having to move entire files or datasets from one location to another.

If you want to learn more, the ESIP YouTube channel has videos of sessions as well as a video of winter meeting highlights. Many of the sessions' presentation materials are available on figshare.



The ESDIS Standards Coordination Office (ESCO) closely monitors and participates in these kinds of activities on behalf of the NASA Earth Science Data Systems (ESDS) program. We're tasked with raising awareness of current and emerging standards and practices within the NASA Earth science community, encouraging the development of new standards that benefit future development, and in designating standards and practices for use in NASA Earth science data systems.