

Thanks for catching the errors. Here is a new abstract.

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The GHRSSST-PP Master Metadata Repository
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The large volumes and diversity of satellite, in situ and ancillary oceanographic data for the GHRSSST-PP require careful accounting in the form of searchable metadata records. This is important from the standpoint of end users who wish to query metadata records from a number of different GHRSSST DDSs (Diagnostic Data Sets) for certain products in specific temporal and spatial regions.

We propose the design of a "master" metadata repository that is indexed and searchable through a web interface front end communicating with a back end database server. The simplest approach is use open-source database software such as MySQL that is straightforward to install and maintain. The database contents will be accessed through Perl and SQL function calls with results formatted in XML that can be displayed in a web browser. The query results can also be formatted into DODS or FTP syntax to allow immediate and direct access to the DDS where the data resides (a location different than the metadata repository). The goal is to keep the metadata storage and query on a very simple level while maintaining good functionality with possibility for future modification and expansion.

An automated metadata ingest system will be constructed to ingest metadata submissions as new data are added to the various DDSs (both high resolution, regional and global). This ingest system will be in the simple form of email submissions emanating from the DDS that are parsed with scripts to extract relevant metadata content before the database is populated. A quality control system will be implemented to determine if the metadata adheres to the proper format (NASA Directory

Interchange Format [DIF]). The submitting individual will be responsible for formatting the metadata input correctly according to the required fields and metadata templates. Metadata creation tools and methodology will be explored to assist the submission process.