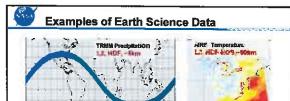
12/31/2014



Data Recipes

Toward Creating How-To Knowledge Base for Earth Science Data

View metadata, citation and similar papers at core.ac.uk



brought to you by TCORE

James Acker Tammy Beaty

NASA Goddard Earth Sciences Data and Information Services Center (GES DISC)
NASA Earth Science Data System Working Groups — Data Recipe Working Group





Why Create Data Recipes?

Earth Science data sets are complicated

- " Data type and structure : swath, grid, point, vector, tiled, ...
- Map projection : Equidistant, Sinusoidal, ...
- Resolution : hourly, daily, monthly, ...; m, km, deg, ...
- Data formats: HDF, HDF-EOS, netCDF, GRIB, GeoTIFF,...
- Metadata models: ECHO, GCMD, HDFEOS, COARDS, netCDF-CF convention.

٠...

Solution: Developed data services and tools

- 70+ data services or tools at EOSDIS DAACs all services or tools have user guides
- online FAQ for data access and usage



Why Create Data Recipes?

But, still many questions, e.g.:

- ➤How to download data in a specific format (netCDF, ASCII, ...)?
- >How to download time series to a single file in netCDF?
- >How to read data with a data tool (ArcGIS, GrADS, R, ...)?
- ➤You have a number of data services; which one is best for doing my work?

...

Solution: Data Recipes could be helpful!

They help distribute key expertise from those who have it to those who need it



Characteristics of Data Recipes

- >Task- oriented -- solve a specific problem
- > Detailed -- provide step-by-step instruction with screenshots
- > Real data work with real data archived at data centers
- Online reduce supporting resources for data centers and save time for data users



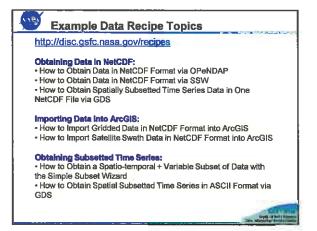
Data Recipe Structure at GES DISC

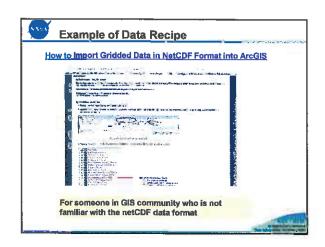
A data recipe is a task-oriented, common-structured, online How-To page, containing the following eight sections:

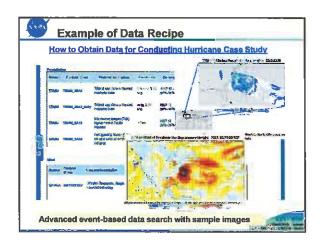
- ✓ Overview summary of the recipe
- ✓ Best When conditions for which the recipe is applicable
- ✓ Task group name to which the recipe topic belongs (obtaining data, reading/viewing data, format conversion, etc.)
- ✓ Example description of a use scenario for the racipe
- ✓ Tool or Service name of the tool or service to which the recipe applies
- ✓ Procedure step-by-stup instruction with scream note
- \checkmark Discussion additional information about using the service or tool
- ✓ See Also related recipes

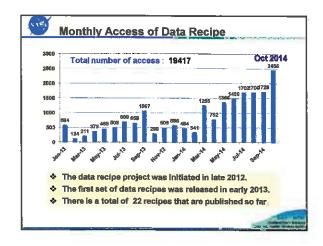
Each recipe is carefully tested by scientists other than the author

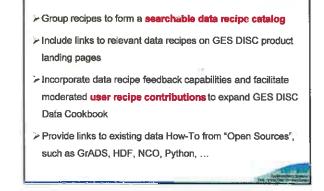












Future Plans at GES DISC

