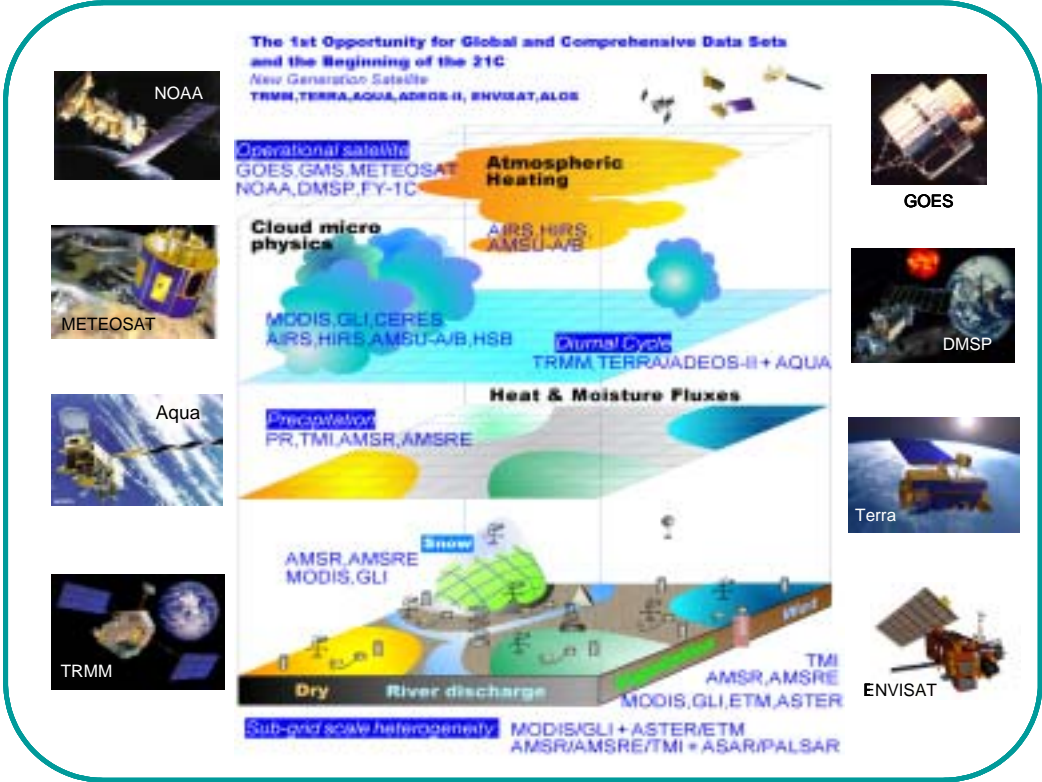
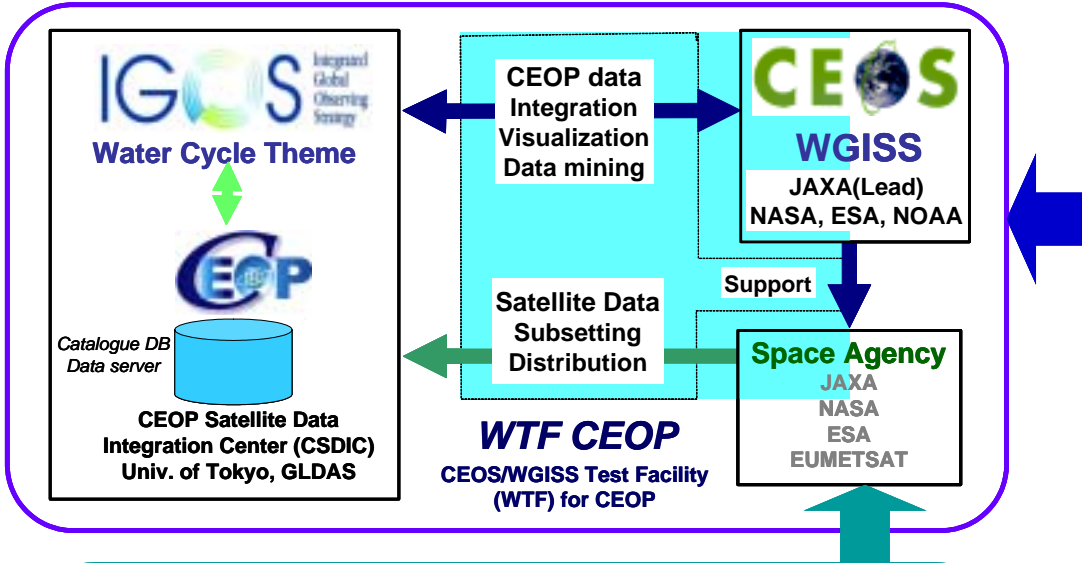


WTF-CEOP

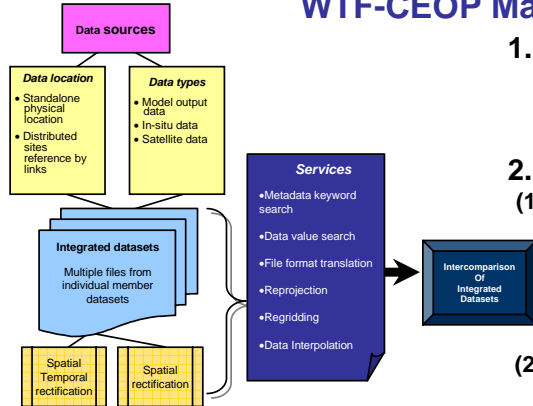
Satellite Integration for Global Water Cycle

http://jaxa.ceos.org/wtf_ceop

CEOS-WCRP Cooperation



WTF-CEOP Main Activities



1. Gather Data

WTF-CEOP member agencies provide support in gathering satellite data from JAXA, NASA, ESA and EUMETSAT

2. Provide Data

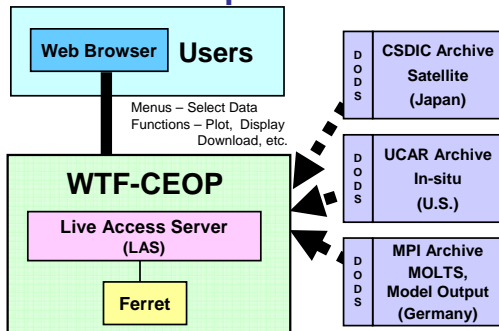
(1) CEOP Data Distribution via WTF-CEOP

- In-situ - Surface, Tower, Soil Moist. & Temp., Flux (UCAR, U.S.)
- Satellite - Multi sensors & product levels (CSDIC, Japan)
- MOLTS, Model Output (MPI, Germany)

(2) CEOP Data Integration

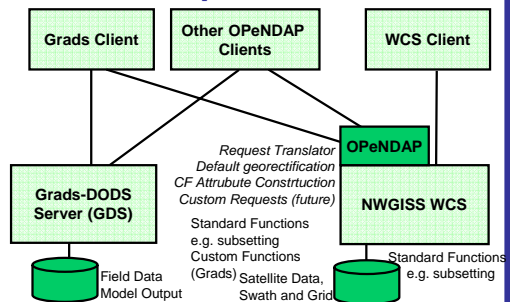
Spatial and Temporal Integration to support intercomparison of CEOP data

JAXA WTF-CEOP Prototype Capabilities



- Single user interface to access multiple types of data archived at distributed sites
- Main software is LAS, Ferret and DODS to help researchers' data retrieval, handling, processing and analysis
 - Data Search, Visualization, download
 - Data Integration & Analysis
 - Metadata Search & Display
 - Links to Documentation

NASA WTF-CEOP Prototype Capabilities



- Focus on integration/inter-use of swath data with in-situ and model output
 - Enhance NWGIS to serve swath data according to OPeNDAP convention
 - Generate gridded data on the fly
 - Produce CF metadata
 - Can provide subsetting, reprojection, regridding, and other services
 - Initially use default function but later enhance a client (e.g. Grads).

The Next Step and Future Plan

- Enhance the prototypes with additional capabilities
- Integrate additional data types (Non-CEOP scientific data)
- Work on standardization (ISO/TC211, GRID)
- Collaboration with other frameworks (OGC, Semantic Web/Ontology, NOMADS, etc.)
- Transition prototypes from proof of concept to pre-operational