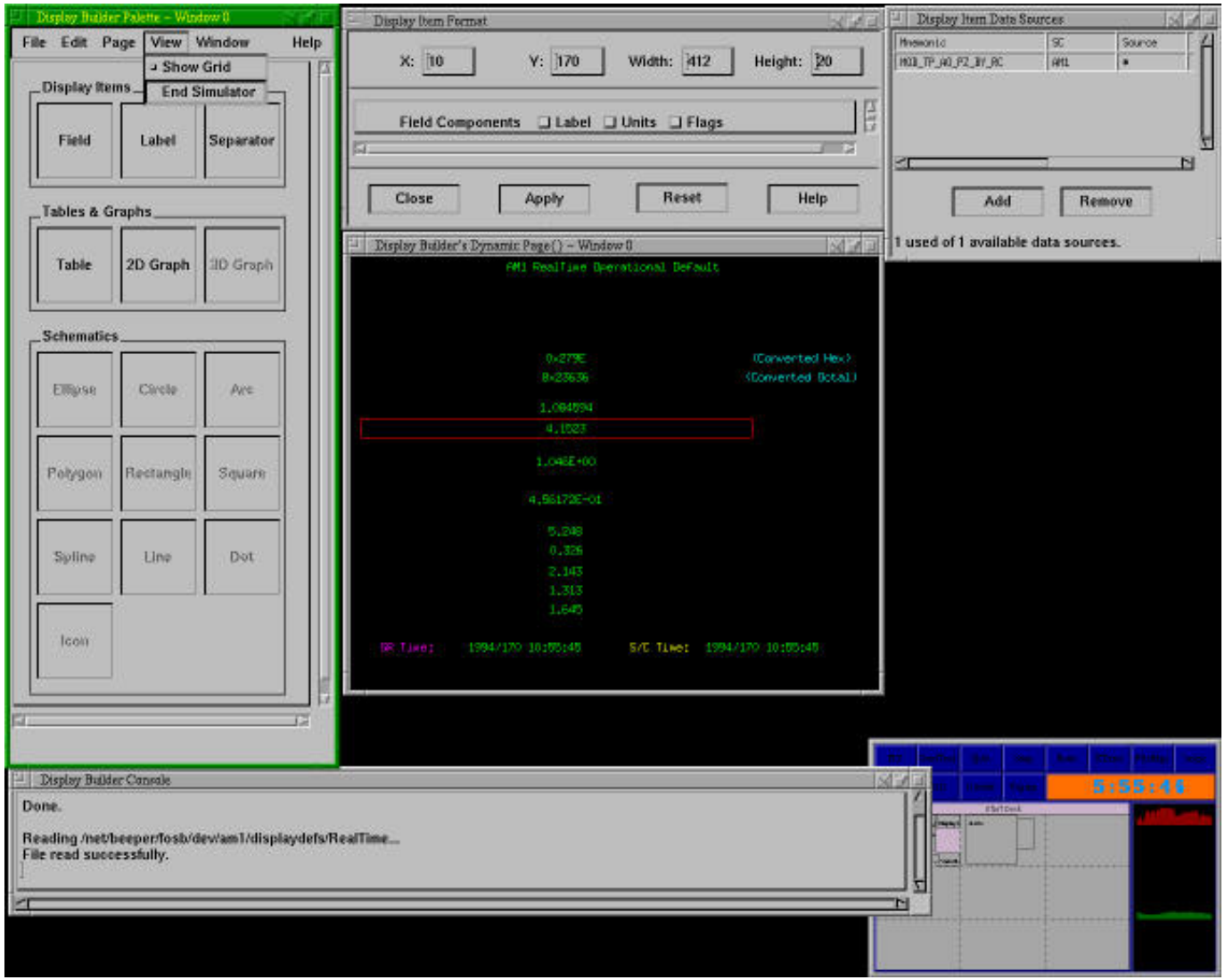
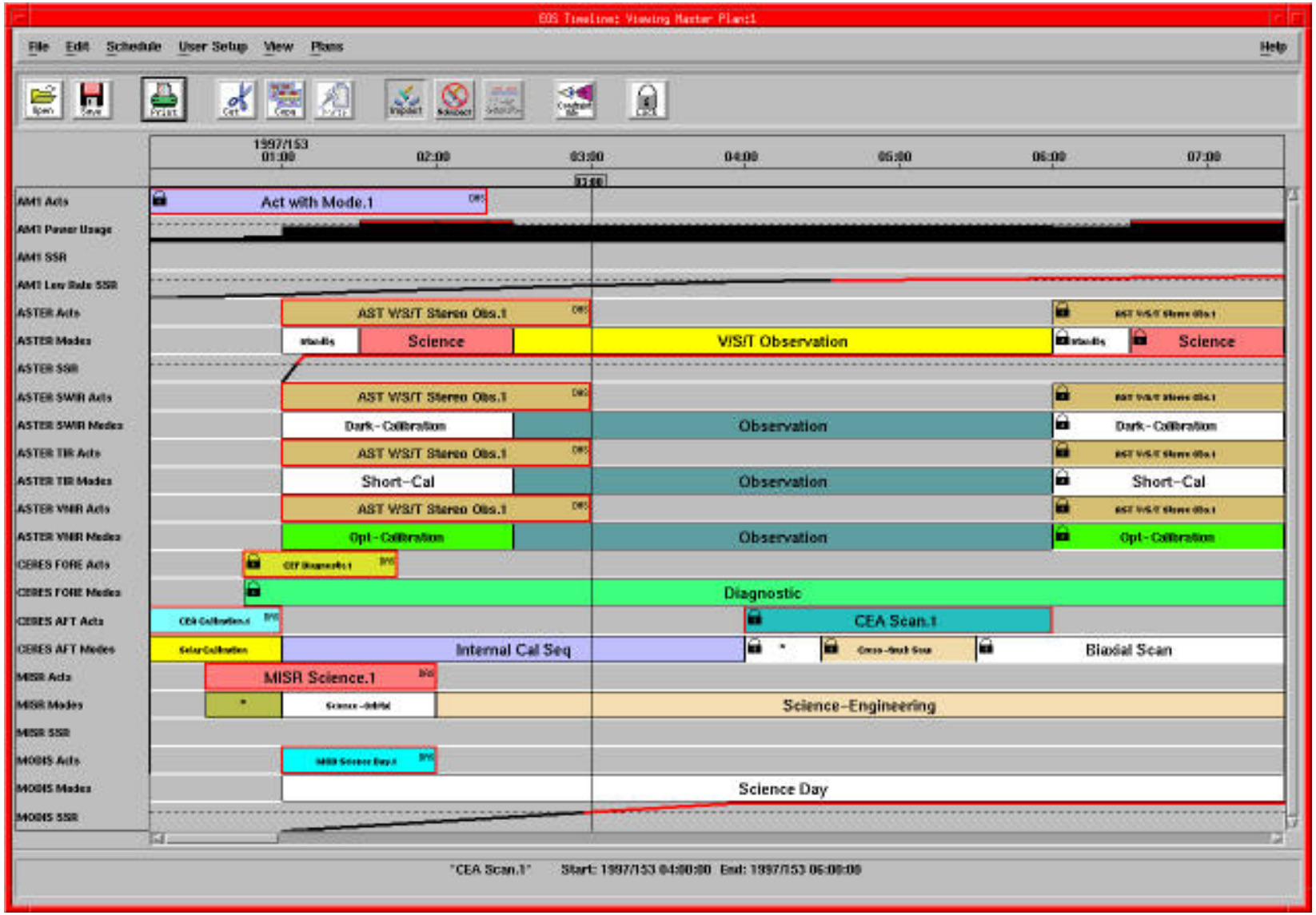
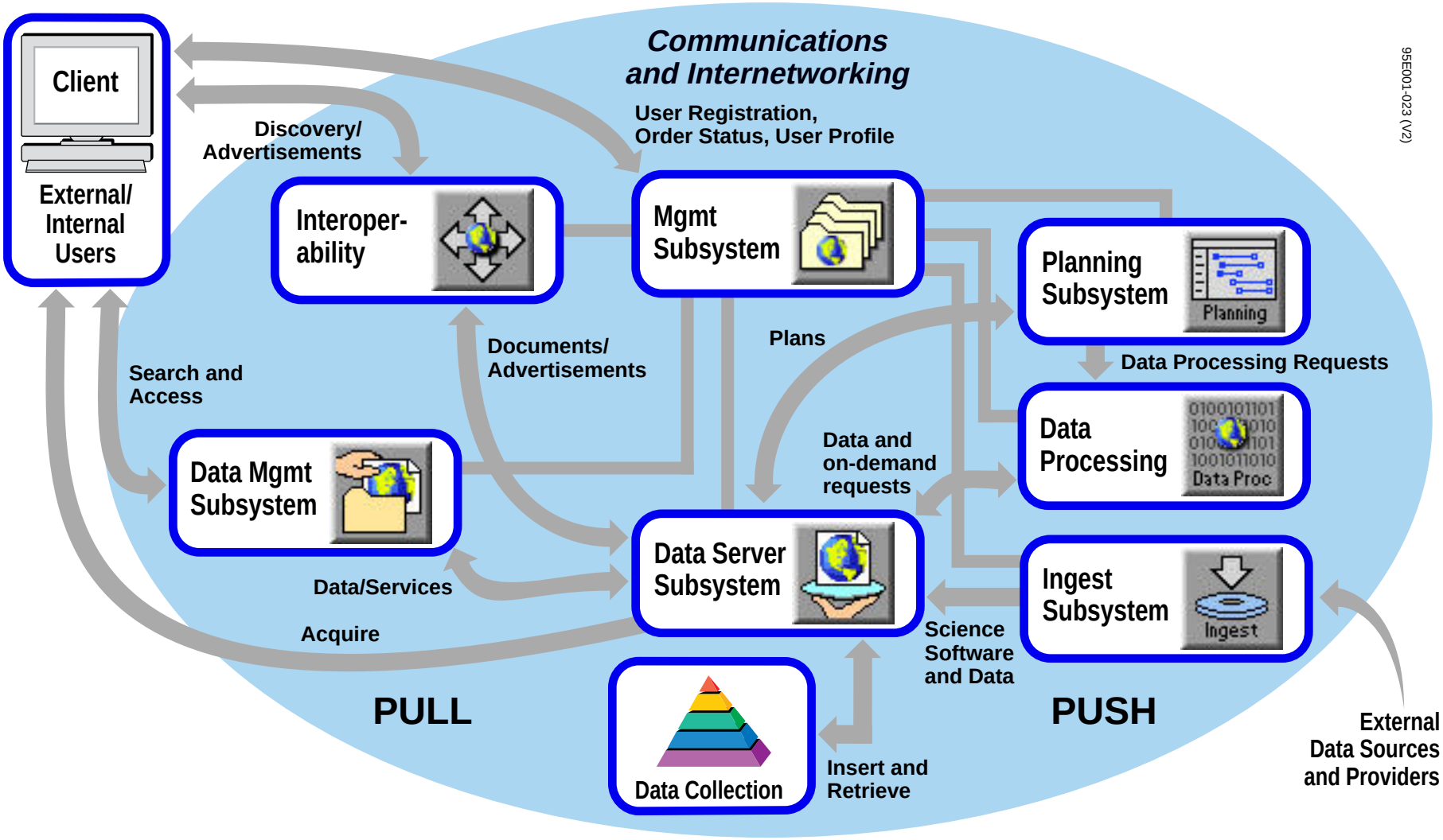
FOS Telemetry Display



FOS Planning and Scheduling Screen

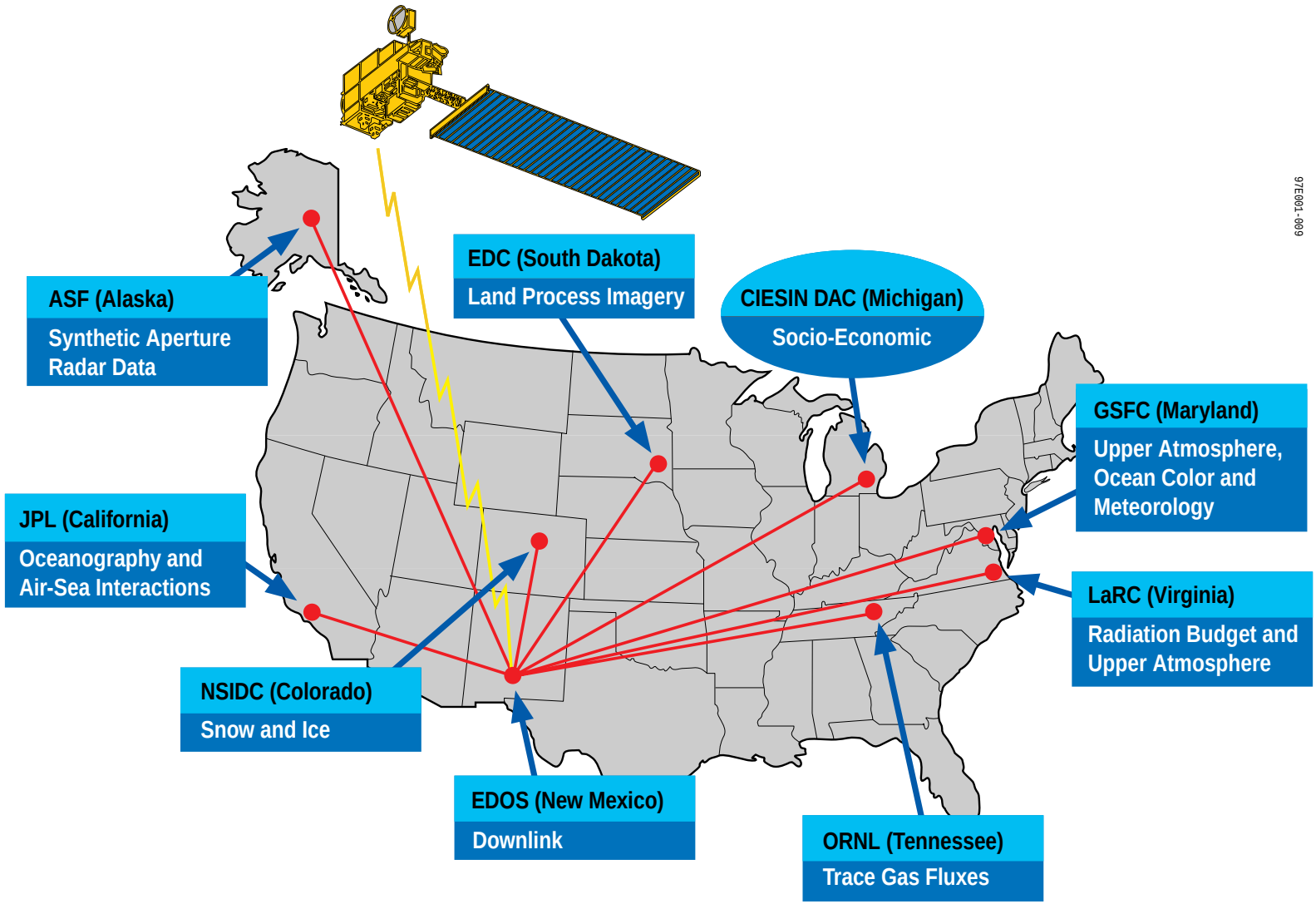


SDPS Architecture



95E001-023 (V2)

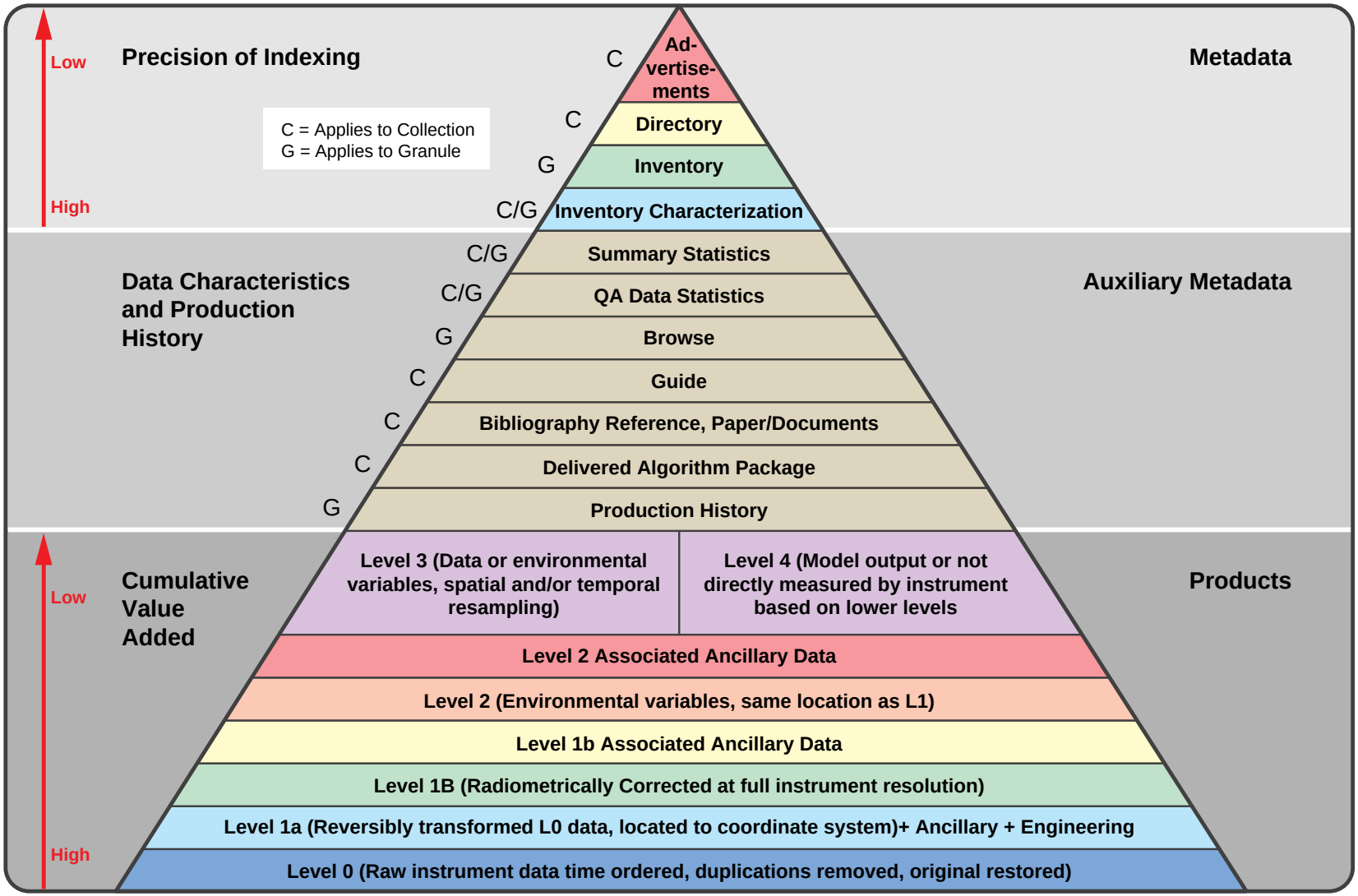
Distributed Active Archive Centers



Library Analogy

EOSDIS		LIBRARY	
Granule	Granule Metadata	Book	Index Card
Collection	Collection Metadata	Book Collection	Collection Indexing
Catalogue	Catalogue Interoperability Protocol	Catalogue	Catalogue Indexing

Data Pyramid

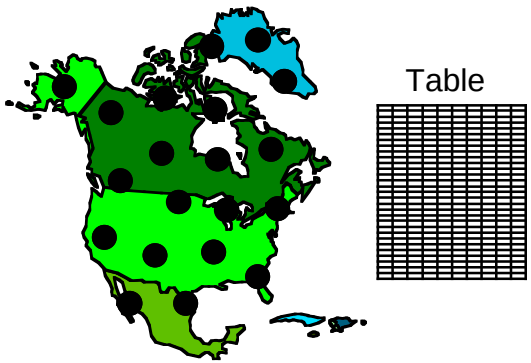


The ECS Standard Data Format: HDF-EOS

- **HDF-EOS is an extension of NCSA's Heirarchical Data Format (HDF)**
- **Includes ECS Core Metadata as an attribute stored in ODL format (allows geolocation information to be conveyed)**
- **Format is standardized and self-describing**
- **Files are manipulated and services applied via an API**

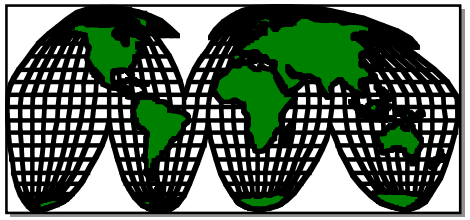
In addition to standard HDF structures, 3 additional structures have been added: Point, Grid, and Swath

POINT



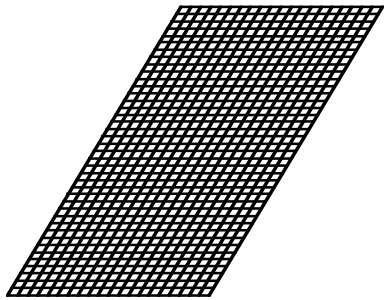
Data with no predetermined orientation in time or space. Geolocation and time supplied with every point

GRID



Spatially oriented data with a known mathematical transformation between row/col and lat/long

SWATH



Time- or track- oriented data with geolocation per data element or scan line

24 Measurement Areas

ATMOSPHERE	LAND	OCEAN	CRYOSPHERE	SOLAR RADIATION
Cloud Properties	Land Cover & Land Use Change	Surface Temperature	Ice Sheet Topography & Ice Volume Change	Total Solar Irradiance
Radiative Energy Fluxes	Vegetation Dynamics	Phytoplankton & Dissolved Organic Matter	Sea Ice	Ultraviolet Spectral Irradiance
Precipitation	Surface Temperature	Surface Wind Fields	Snow Cover	
Tropospheric Chemistry	Fire Occurrence	Ocean Surface Topography		
Stratospheric Chemistry	Volcanic Effects			
Aerosol Properties	Surface Wetness			
Atmospheric Temperature				
Atmospheric Humidity				
Lightning				

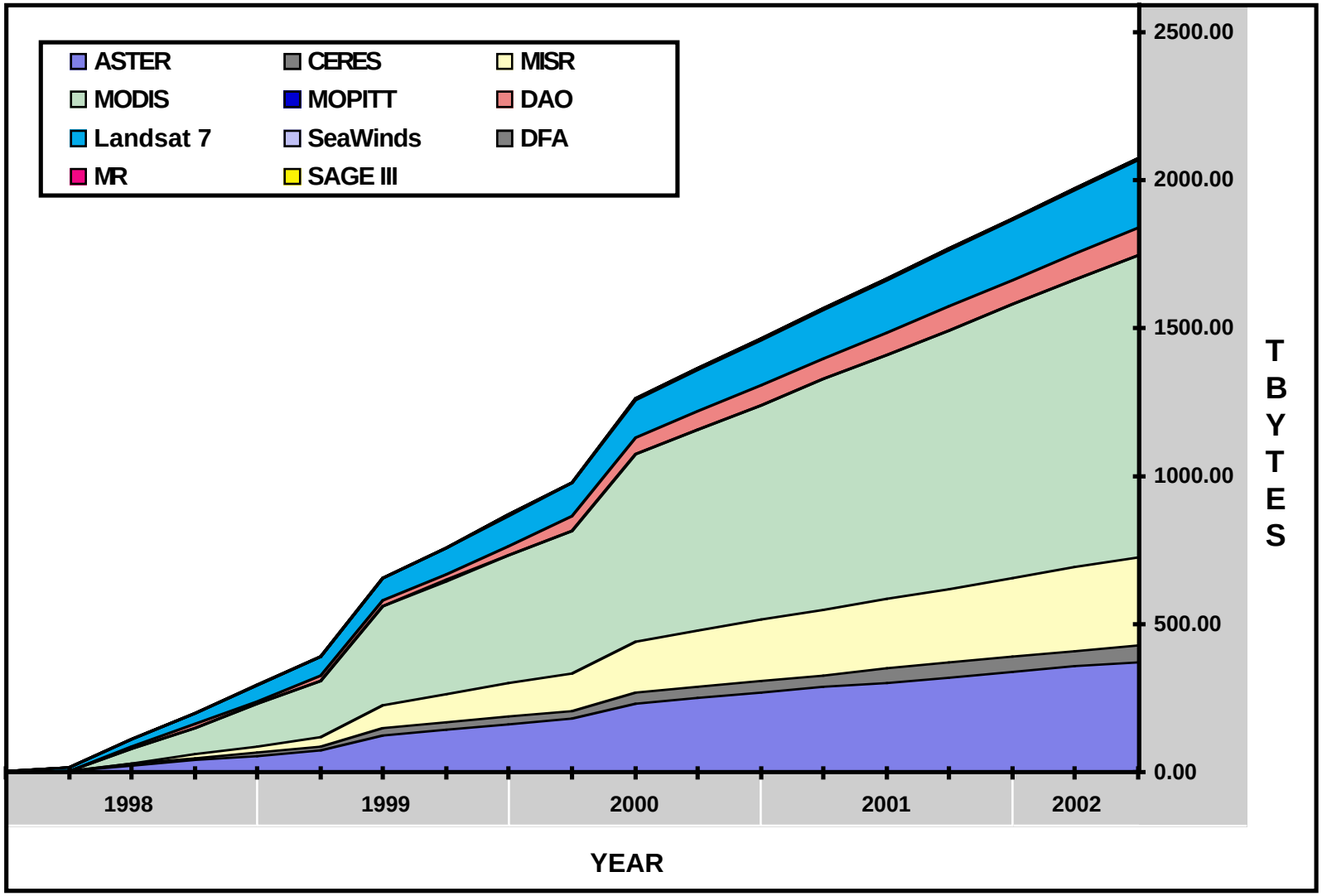
Standard Products 1

Derived Product / MISSION	TRMM (8/97)	Landsat 7 (5/98)	FOO/ COLOR (7/98)	AM-1 (6/98)	METEOR (8/98)	ADEOS II (2/99)	RADAR ALT 93/99)	FOO/ ARCIM (6/99)	PM-1 (12/00)	CHEM-1 (12/02)	LASER ALT (7/03)
Temperature Profiles/Layer Thicknesses				MODIS					AIRS/AMSU MODIS	HIRDLS MLS	
Relative Humidity Profiles				MODIS					AIRS/MHS MODIS	MLS	
Water Content Products				MODIS					AIRS/MHS MIMR MODIS		
Altitude Top of Boundary Layer											GLAS
Tropopause Height				MODIS					AIRS MODIS		
Sea Surface Temperature				MODIS					AIRS/AMSU MIMR MODIS		
Ocean Bio, and Phys. Processes			COLOR	MODIS					MODIS		
Wind Velocity/ Direction						SeaWinds	DFA/MR		AMSU		
Cloud Cover	CERES			ASTER CERES MISR MODIS					AIRS CERES MODIS		
Cloud Top Height				MISR	SAGE III				AIRS		GLAS
Cloud Type/Phase				CERES					AIRS/AMSU CERES	MLS	

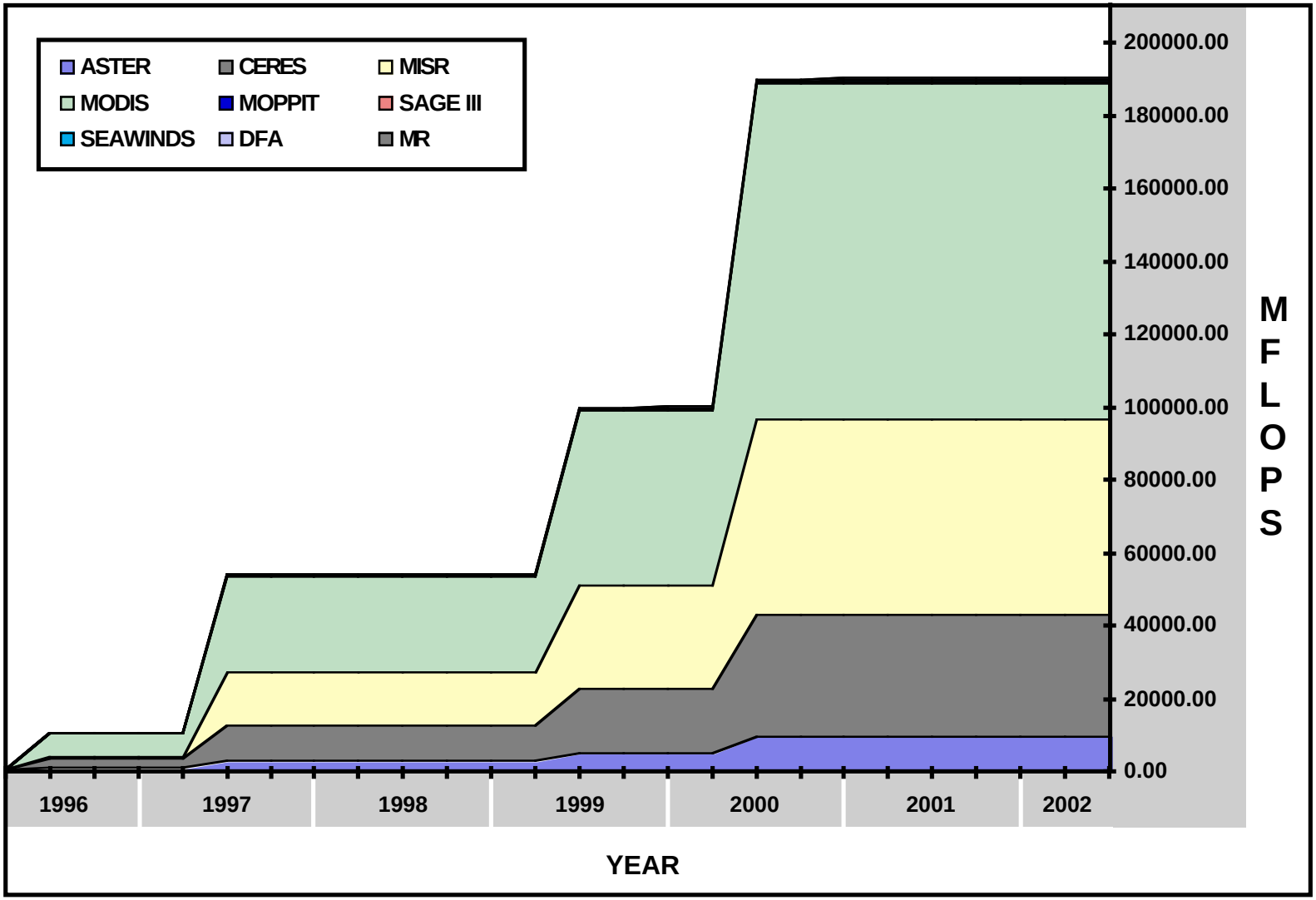
Standard Products 2

Derived Product / MISSION	TRMM (8/97)	Landsat 7 (5/98)	FOO/ COLOR (7/98)	AM-1 (6/98)	METEOR (8/98)	ADEOS II (2/99)	RADAR ALT 93/99)	FOO/ ARCIM (6/99)	PM-1 (12/00)	CHEM-1 (12/02)	LASER ALT (7/03)
Vegetation		ETM+		ASTER MISR MODIS					AIRS MIMR MODIS		
Precipitation									AMSU MIMR		
Land Surface Temperature				ASTER MODIS					AIRS MODIS		
Soil Moisture									MIMR		
Snow Cover		ETM+		MODIS					AIRS/AMSU, MIMR, MODIS		
Ice Boundary				MODIS					AIRS/AMSU, MIMR, MODIS		
Ice Sheet Mass Balance							DFA				GLAS
Albedo	CERES			CERES MISR MODIS					AIRS CERES MODIS		
Aerosol				MISR MODIS					AIRS MODIS		GLAS
Radiation Fluxes	CERES			CERES					CERES		
Solar Irradiance											
Total Ozone				MODIS					AIRS MODIS		
Ozone Profile									AIRS		
Trace Gases				MOPITT	SAGE III				AIRS		

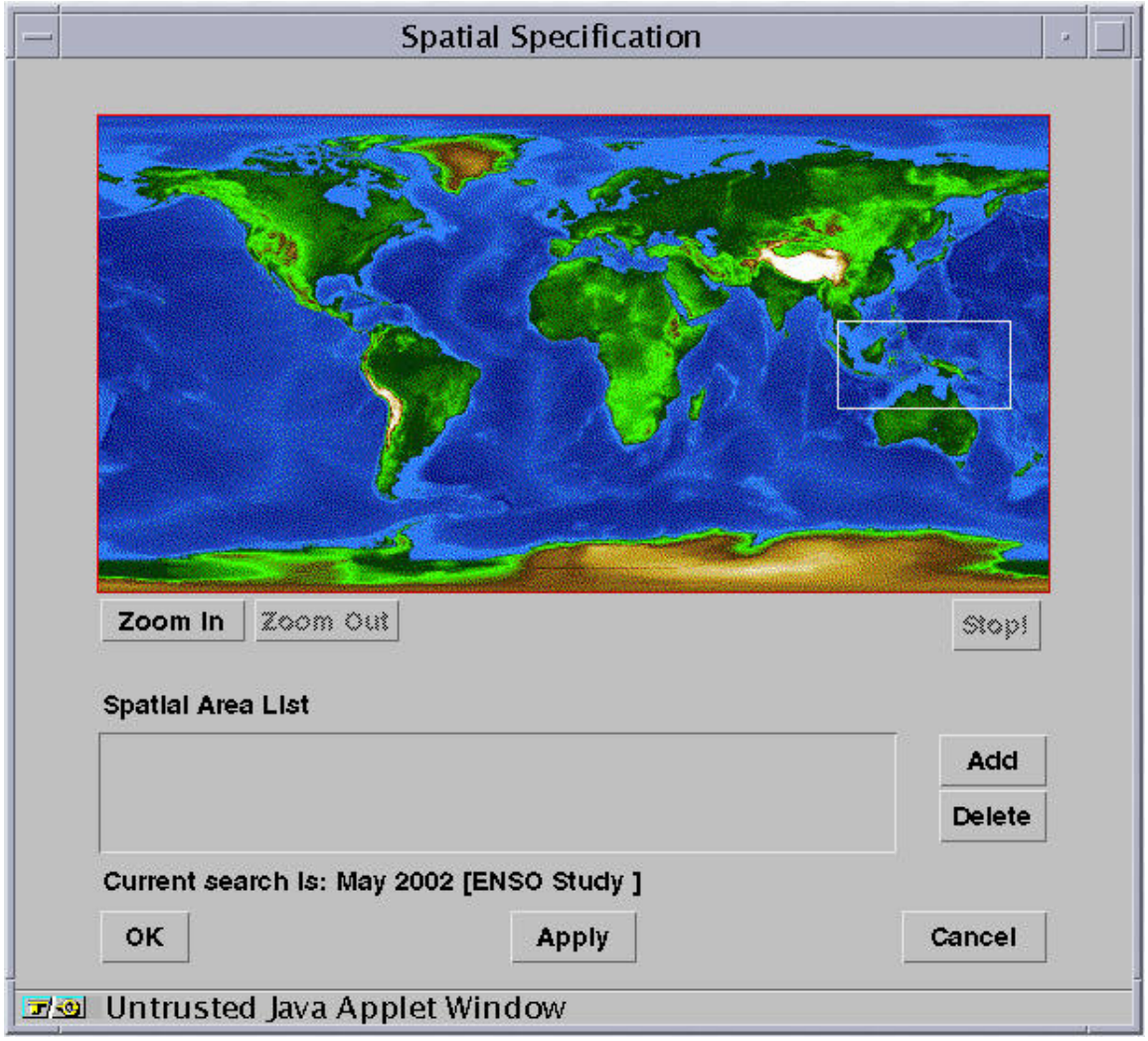
Data Volumes



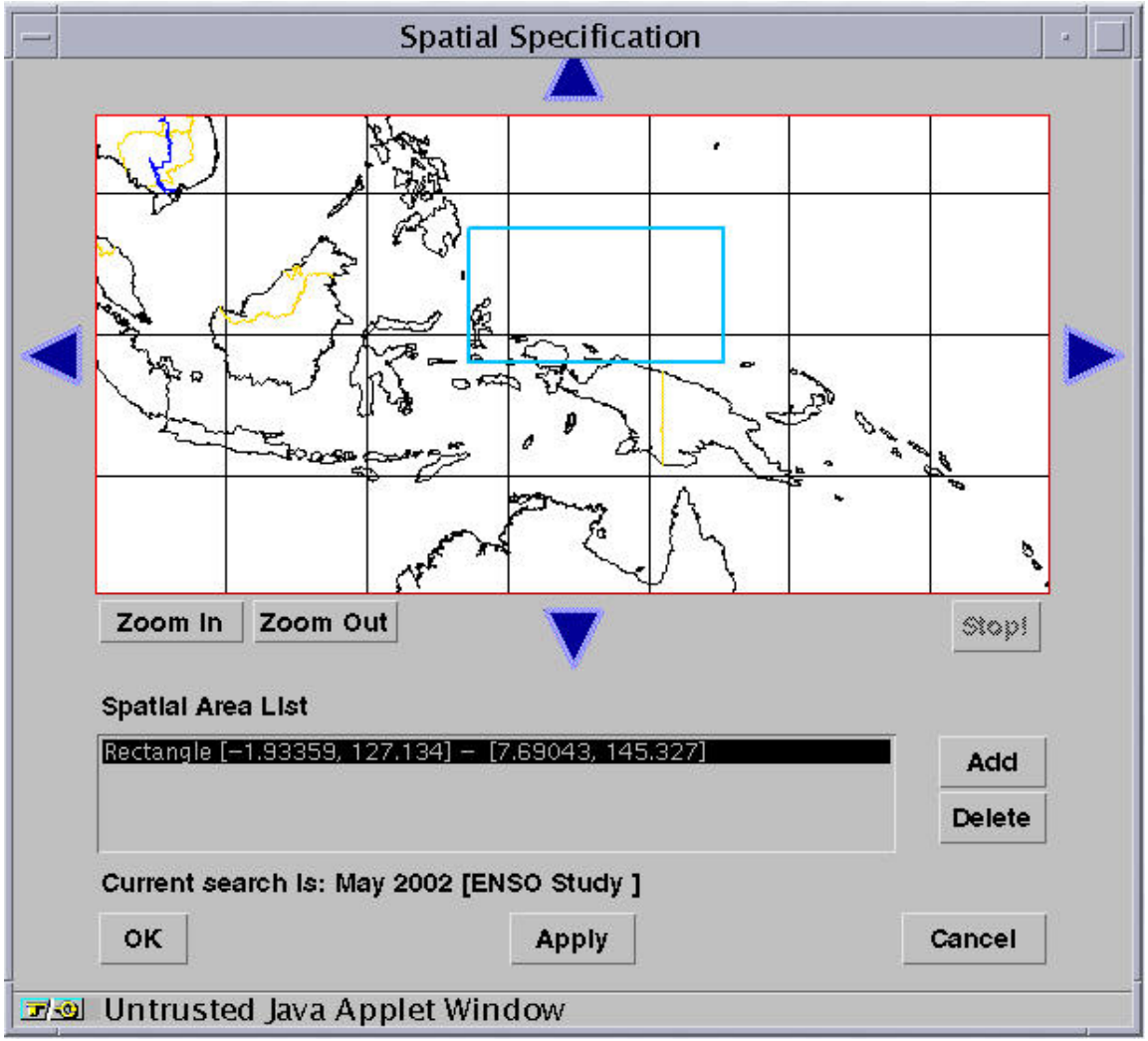
Processing Requirements



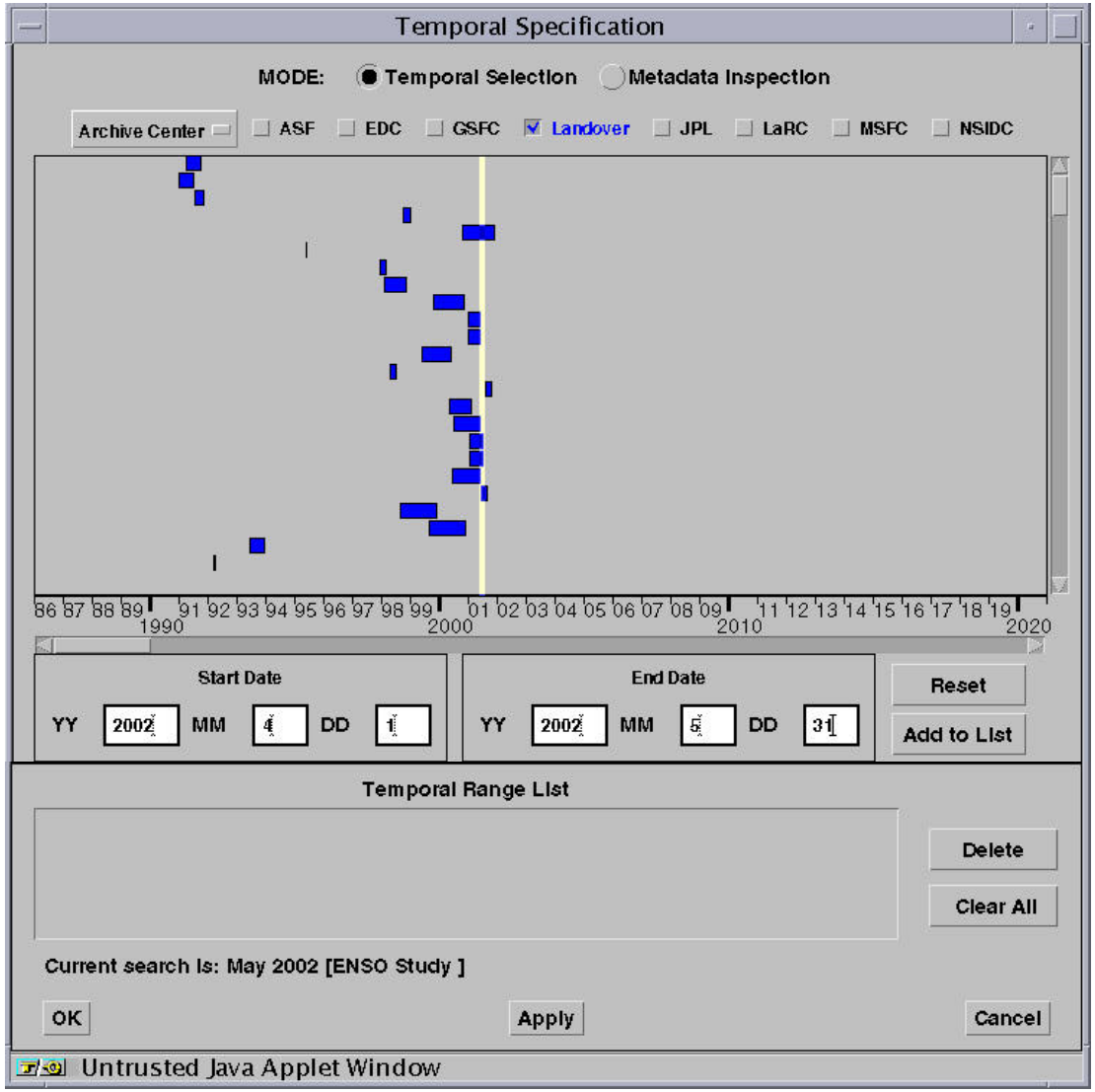
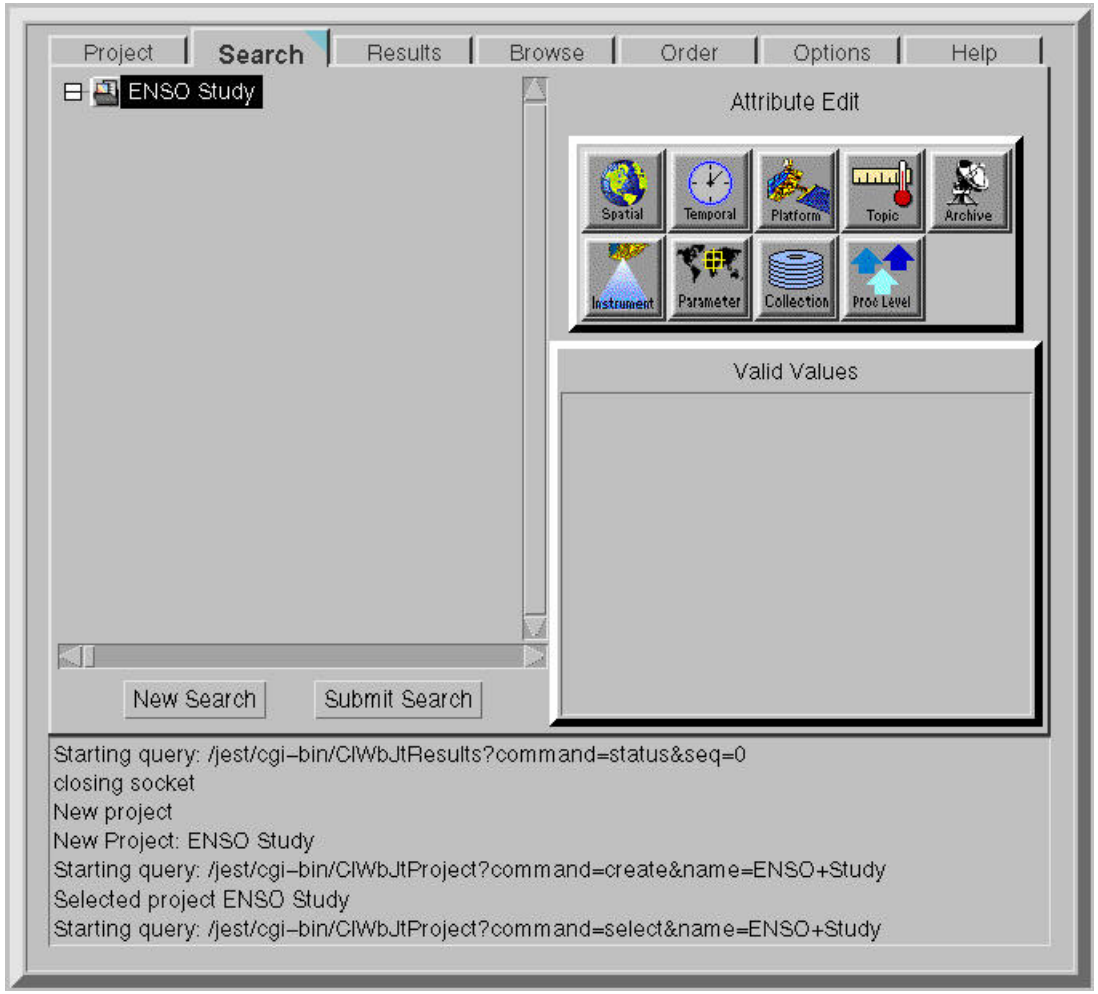
Spatial Selection 1



Spatial Selection 2



Time Ranges


Temporal Specification
MODE:
Temporal Selection
Metadata Inspection
Archive Center
ASF
EDC
GSFC
Landover
JPL
LaRC
MSFC
NSIDC
86 87 88 89 91 92 93 94 95 96 97 98 99 01 02 03 04 05 06 07 08 09 11 12 13 14 15 16 17 18 19
1990
2000
2010
2020
Start Date
YY 2002 MM 4 DD 1
End Date
YY 2002 MM 5 DD 31
Reset
Add to List
Temporal Range List
Delete
Clear All
Current search is: May 2002 [ENSO Study]
OK
Apply
Cancel
Untrusted Java Applet Window

Parameter Selection