

Screen Layout

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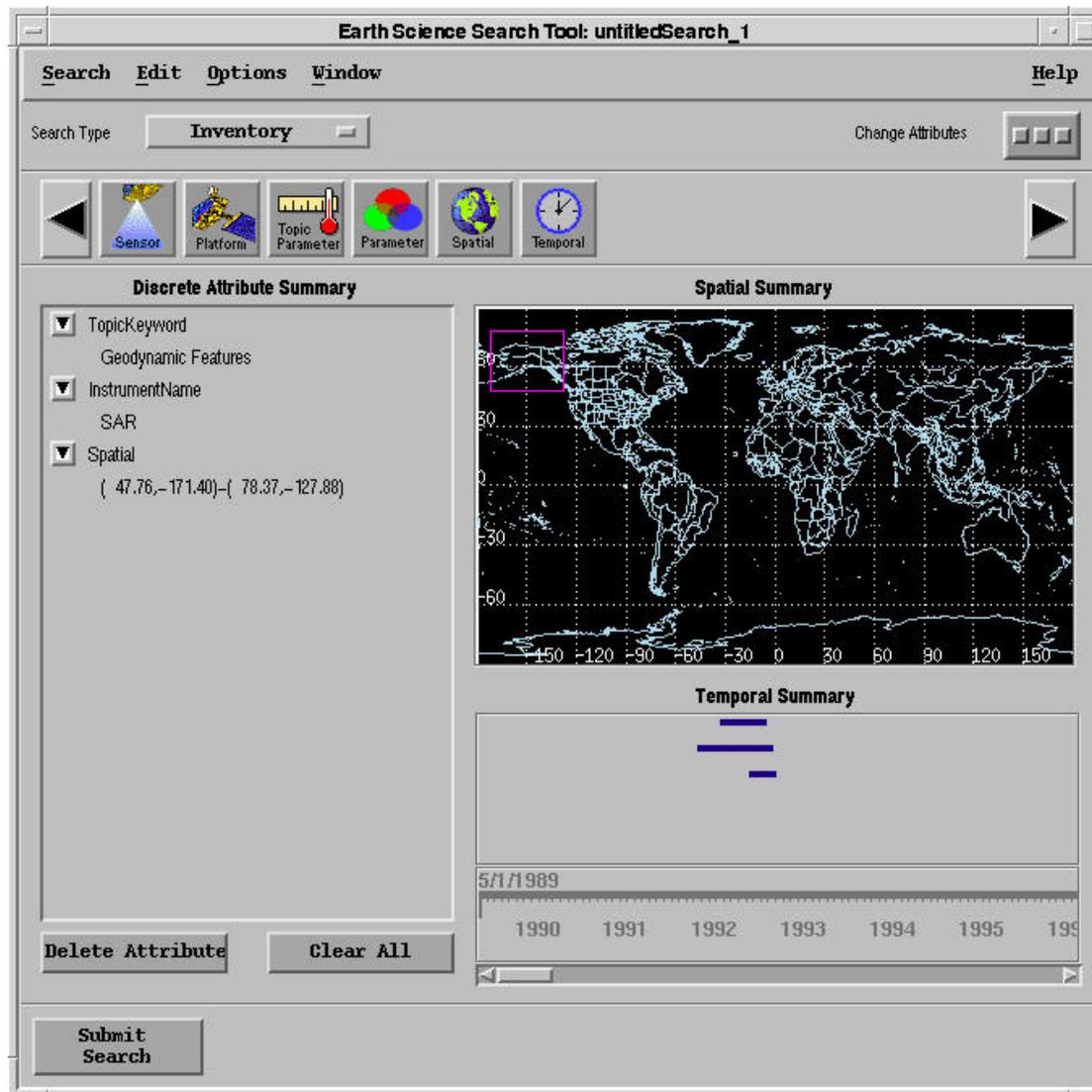
Screen Layout



General Drivers

- **Fit on 800 x 600 color monitor (VGA)**
- **Manage screen real estate such that there is a balance between primary and secondary screen activity and navigation**
- **Continuous visibility of search summary Display of relationships between different types of attribute valid values**
- **Display of search type to attribute validity relationship**
- **Scalability for handling large sets of attributes (>100) and valids**
- **Scalability for handling large sets of results**
- **Support three levels of user: Novice, Intermediate and Expert**

EP6 Design - ESST Search Screen



Pro:

- Fits on 800 by 600 screen
- Configurable Attribute Set
- Full time display of search summary
- Full time graphical display of spatial and temporal selections
- Supports simultaneous display of relationships between attribute values (through dialogs) and search type to attributes

Con:

- Not very scalable
- Fair usability
- Multiple main windows

EP6 Design - ESST Results Screen



Results_1 from untitledSearch_1

Results Data Mark Options Filter Window Help

Select for Order	Collections and Granules	Attributes		Services		
		Spatial	Temporal	Viewing	Processing	Ordering
<input type="checkbox"/>	ASF_glac	N/A	N/A	Browse		
<input type="checkbox"/>	Science:ASF_glac:1001	NW: (0.000000,	start: 07/18/92 end: 07/1			
<input type="checkbox"/>	Science:ASF_glac:1002	NW: (0.000000,	start: 06/19/92 end: 06/1			
<input type="checkbox"/>	Science:ASF_glac:1003	NW: (0.000000,	start: 07/27/92 end: 07/2			
<input type="checkbox"/>	Science:ASF_glac:1004	NW: (0.000000,	start: 01/19/92 end: 01/1			
<input type="checkbox"/>	ASF_volcan	N/A	N/A			
<input type="checkbox"/>	Science:ASF_volcan:1011	NW: (0.000000,	start: 06/21/92 end: 06/2			
<input type="checkbox"/>	Science:ASF_volcan:1012	NW: (0.000000,	start: 09/10/92 end: 09/1			
<input type="checkbox"/>	Science:ASF_volcan:1013	NW: (0.000000,	start: 08/30/92 end: 08/3			

Shopping Cart

Granules Returned: 8

Visible Range: 1 - 8

PREVIOUS NEXT

Pro:

- Is scalable when implemented with the correct options
- Familiar table paradigm

Con:

- Does not fit on an 800 x 600 screen conveniently
- Implemented as a separate window

EP7 Design - JEST



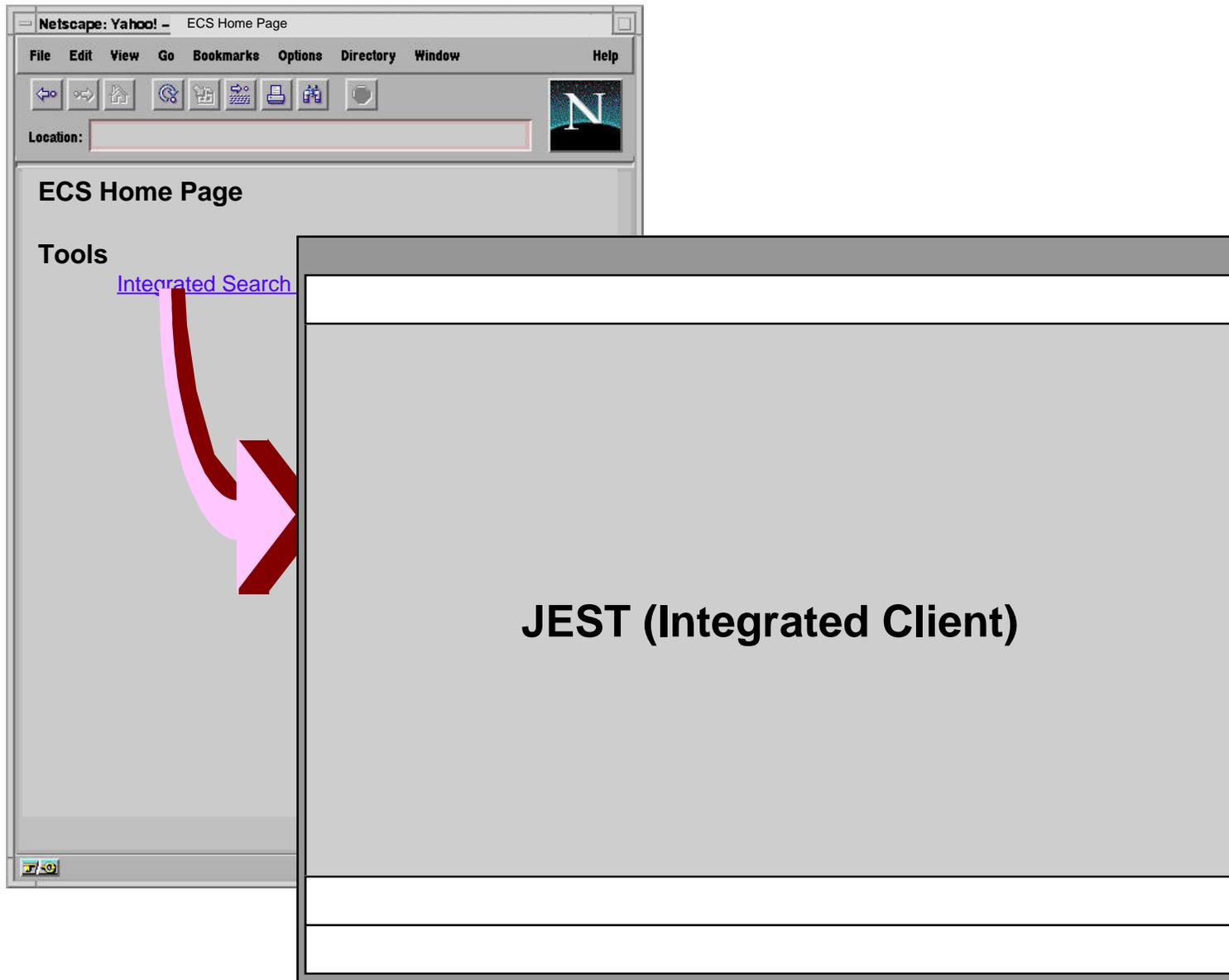
Pro:

- Tabbed paradigm; single main window
- Valid value selection streamlined
- Supports continuous visibility of search summary
- Supports display of search type to attribute validity
- Help window provided useful hints

Con:

- Does not fit on an 800 by 600 screen
- Attribute/valids selection not scaleable
- Does not support simultaneous display of relationships between attribute valids
- Navigation flow inconsistent
- User interface not configurable
- Rudimentary implementation within html page

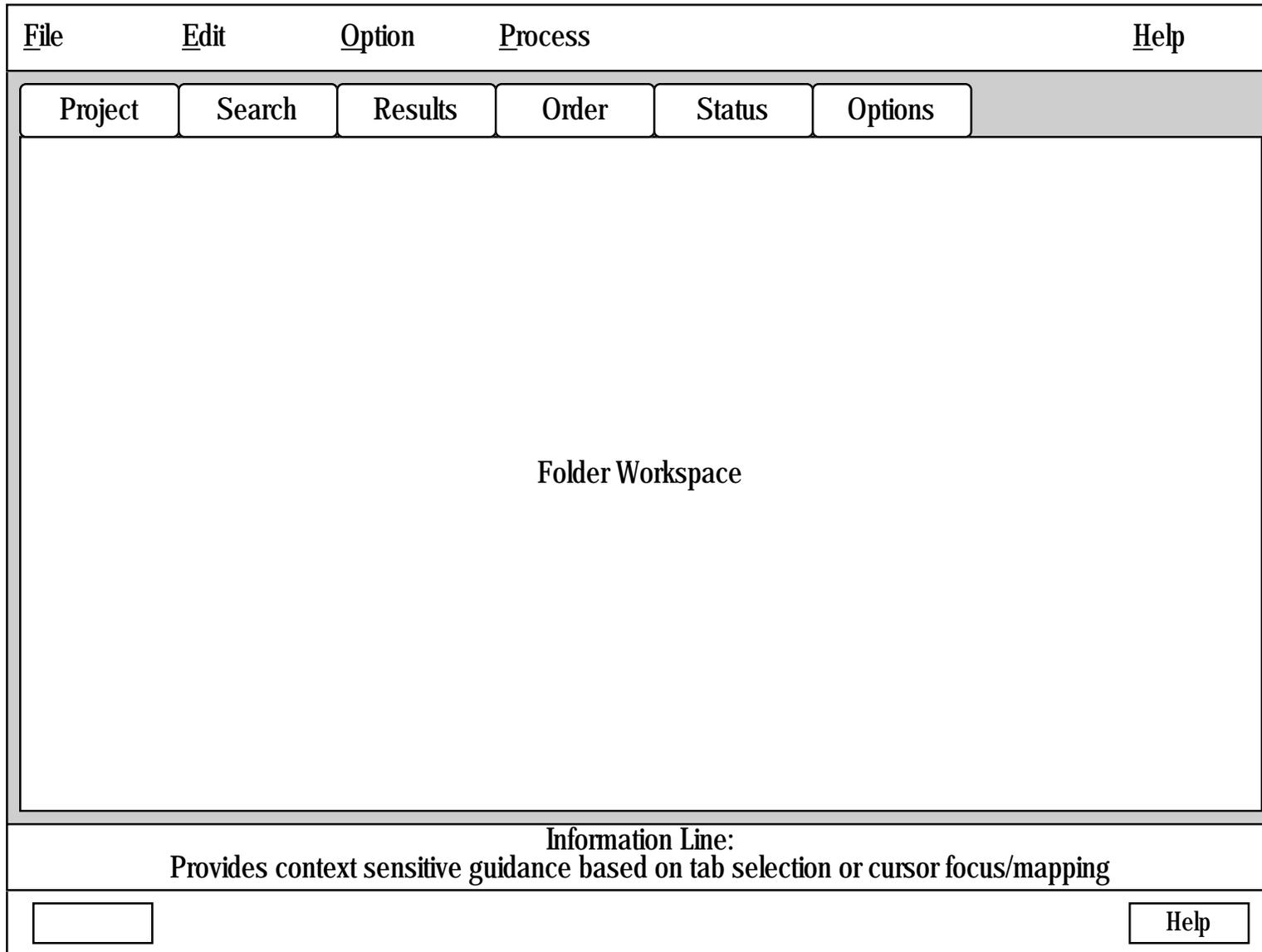
Current Design - Separate Frame



**Allows
applet to be
resized**

**Gives
greater
flexibility in
handling
screen and
font size
changes**

Current Design - Tabbed Layout



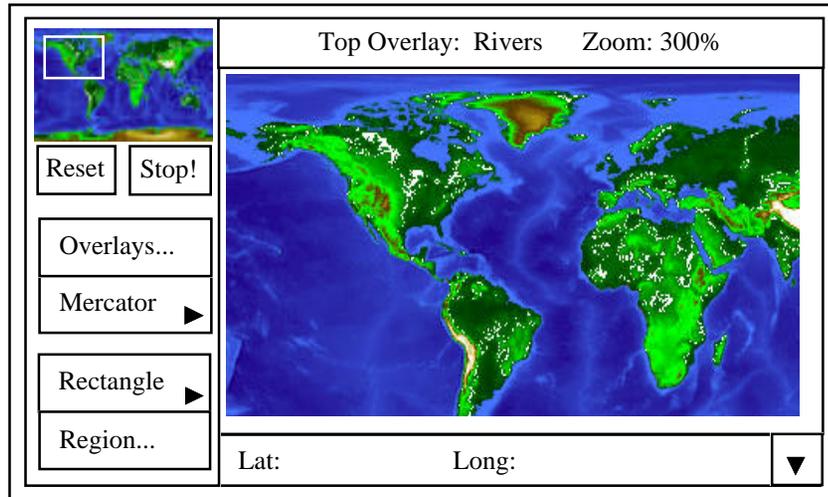
Reduces use of dialogs

More consistent and tightly integrated workflow

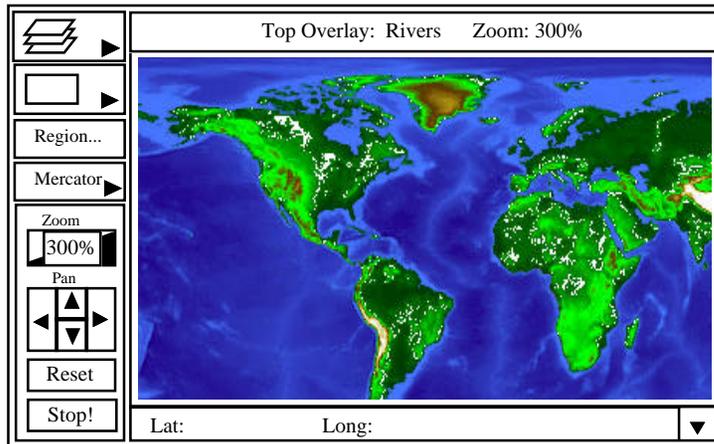
Supports direct and intuitive interaction

Allows designers to keep good parts of earlier designs

Current Design - Dialogs and Reduced Views



Reduced views are integrated within the main user interface (window or tab) and can provide key functionality without taking up as much space or removing the user from the functional flow.



Integration of CLS tools



From the ADSRV

- Support search and display of product, service, and provider ads (html docs)
- Supports population of guide link with product ads
- Allows installation of service (for JEST, this is a web URL with the collection context)

From the Data Dictionary

- Allow guide search

From the Document Search Tool

- Allow inventory search to JEST
- Allow advertising search

From JEST (Integrated Search Tool)

Allow different levels of search from a single interface

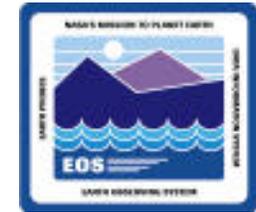
- Advertising, Guide, Other Documents, Inventory, Production History, QA Stats

Search results from the varying levels are all displayed with the same format as inventory (table)

Results user interface will also support the issuing of a second query to a different level given the results

- “Find the guide data for this product advertisement”
- “Find the inventory collection associated with this guide document”

Future Design Possibility - Combined Attributes Folder



File Edit Option Process Help

Project Folder Create/Edit Search Inspect Results Create/Edit Order Get Status Set Options

Core Attributes PSAs Spatial Temporal Combined Summary

Core Attributes: Spatial, Temporal, Platform, Collection, Topic, Parameter, Processing..., Site, Instrument, Sensor

PSAs: Cloud Cover, Cloud Particle Size, Day/Night Flag, NDVI Max, Water Vapor, Ozone Concentra..., Ozone Mixing Ratio, Brightness Temperature, Sea Surface Temperature

Spatial: Top Overlay: Rivers Zoom: 300%

Lat: Long:

Temporal: Zoom: 6 months

Summary: Test Search 1, Sensor AVHRR, Parameter NDVI, Brightness Temperature

Select Combined Layout

Used the combined layout to make selections from core, product specific, spatila and temporal attributes. The spatial and temporal attributes are shown in reduced view. To see options, use the right mouse button to popu the option menu

Submit for Order Help

**Example of
prototype
and usability
candidate**

**Represents
transition to
very
configurable
user
interface**

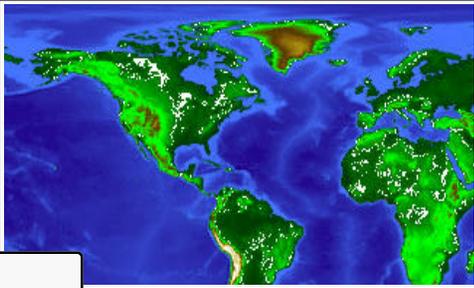
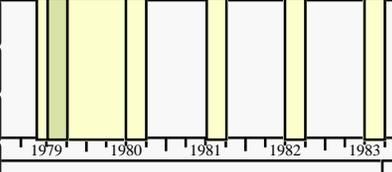
Future Design Possibility - Panel Mangement



File Edit Option Process Help

Project Folder Create/Edit Search Inspect Results Create/Edit Order Get Status Set Options

Attributes

Core Attributes	PSAs	Spatial
Spatial	Cloud Cover	Top Overlay: Rivers Zoom: 300%
Temporal	Cloud Particle Size	
Platform	Day/Night Flag	Long: [dropdown]
Collection	NDVI Max	Temporal
Topic	Water Vapor	Zoom: 6 months
Parameter		

Search Summary

▼ Test Search 1

- ▼ Sensor AVHRR
- ▼ Parameter NDVI Brightness Temperature

Select values for the attributes displayed to create a search. The spatial and temporal attributes are shown in reduced view. To see options, use the right mouse button to popu the option menu

Panel managing of search attribute groups

Selectable via popup list

Highly supportive of 1.10 work