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# The Transient Reference Catalog

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# Motivation

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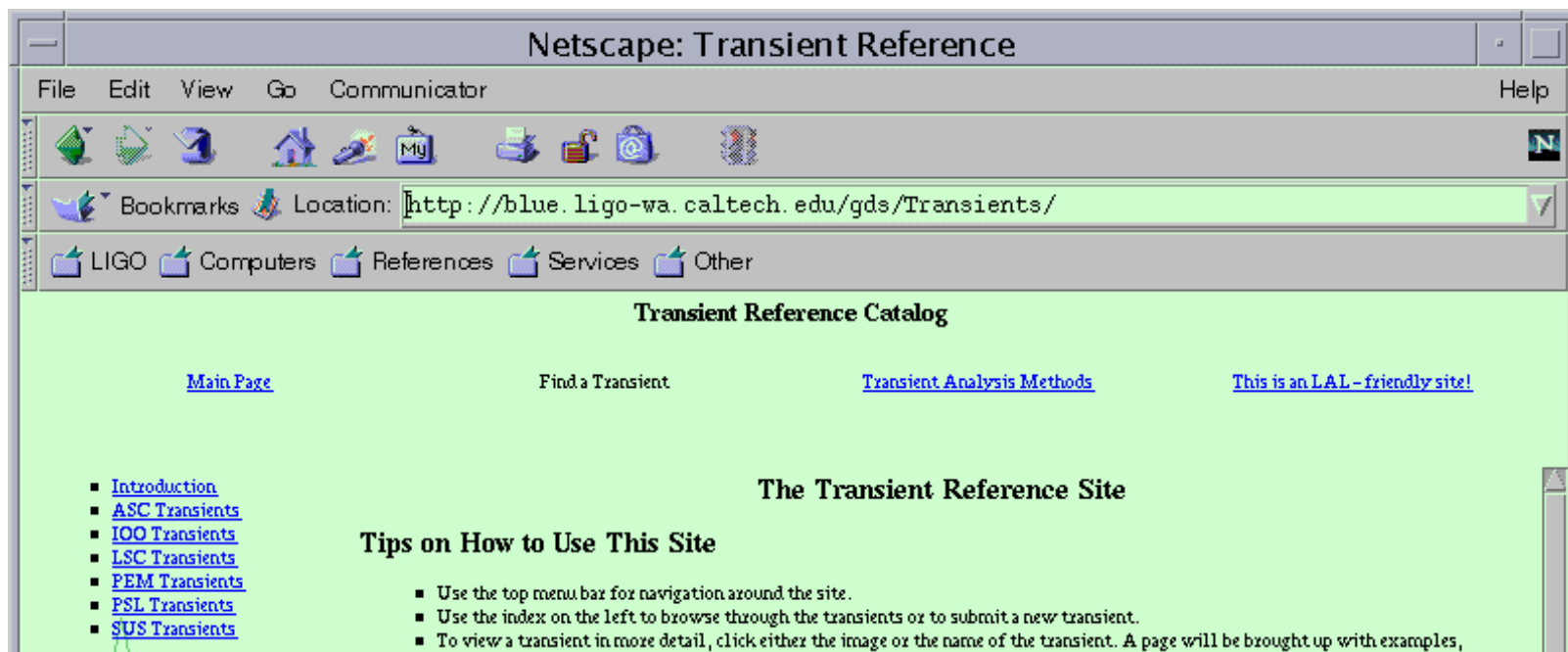
When you see a new transient, do you:

- a) Spend tons of time researching that transient's source and how to fix it?
- b) Remember seeing something in the E-log but aren't exactly sure you can find it again?
- c) Ask one (or more) expert(s) about that transient? (unless you are the expert!)



If any of the above answers are true...

You could make use of the Transient Reference Catalog!





# What It Is

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- ❑ A clearinghouse for all recorded transients
- ❑ Accessible via web browser from the (LHO) Control Room as well as any CDS-accepted client machines
- ❑ The long-term memory you wish you had



# What It Does

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- ❑ Stores examples, observations, and general comments for various recorded transients
- ❑ Provides a simple interface for retrieving information on a transient
- ❑ Provides a means for quick comparisons of your new transient to those stored in the database
- ❑ (In the future) Provides a means to search through the database for relevant transients



## What It Doesn't Do

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- Perform analysis/characterization of transients
- Perform comparisons of transients
- Anything else which requires intelligent thought
- Wash windows



# Demonstration: How to Store an Example

The screenshot shows a Netscape browser window titled "Netscape: Transient Reference". The address bar contains the URL <http://blue.ligo-wa.caltech.edu/gds/Transients/>. The page content includes a "Transient Reference Catalog" with links for "Main Page", "Find a Transient", "Transient Analysis Methods", and "This is an I.A.I. - friendly site!". Below this is the "Chiller-Pad Air Compressor- Observation Form". The form has several sections: "Personal Info" with fields for "Your Name:" (filled with "Banks, Bobbela") and "Your Email:" (filled with "rbanks@caltech.edu"); "Transient Timestamp Info" with a field for "Transient's GPS Timestamp:" (filled with "999456789"); "Observed Effects" with a field for "Channels this transient is observed in:" (filled with "seismic channels, X0:P2M-9805\_M10") and a radio button selection for "How likely do you think this transient will appear in the sensitive band of the GW channel?" (selected "Highly Likely"); "Other Effects on the IFO:" with a text area; "Detection/Identification" with fields for "Suspected Transient Source:", "Method of Identification:", and "Proposed Mitigation (or 'None'):".

- ❑ Bring up your favorite GUI
- ❑ Make an image of your transient
- ❑ Pull up the Web Page:  
<http://blue.ligo-wa.caltech.edu/gds/Transients/>
- ❑ Click "Create A Transient"
- ❑ Fill in the form (required fields are \*'d)
- ❑ Enter the image filename
- ❑ Click "Submit New Transient"



## Other Demonstrations

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- ❑ How to retrieve transient information (trivial)
- ❑ How to compare your transient vs. those stored in the database
- ❑ How to search for specific transient information
- ❑ How to wash windows
  - It doesn't do windows!

These demonstrations and more will appear at:

<http://blue.ligo-wa.caltech.edu/gds/Transients/demos.html>





# Summary

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- ❑ It's already a useful tool!
- ❑ However, we're still developing it.
- ❑ We need you to use it and give us feedback to make further progress.

\_\_\_\_\_ (the bottom line)

**Please try it out!**