

# A GUI for the GLAST likelihood program

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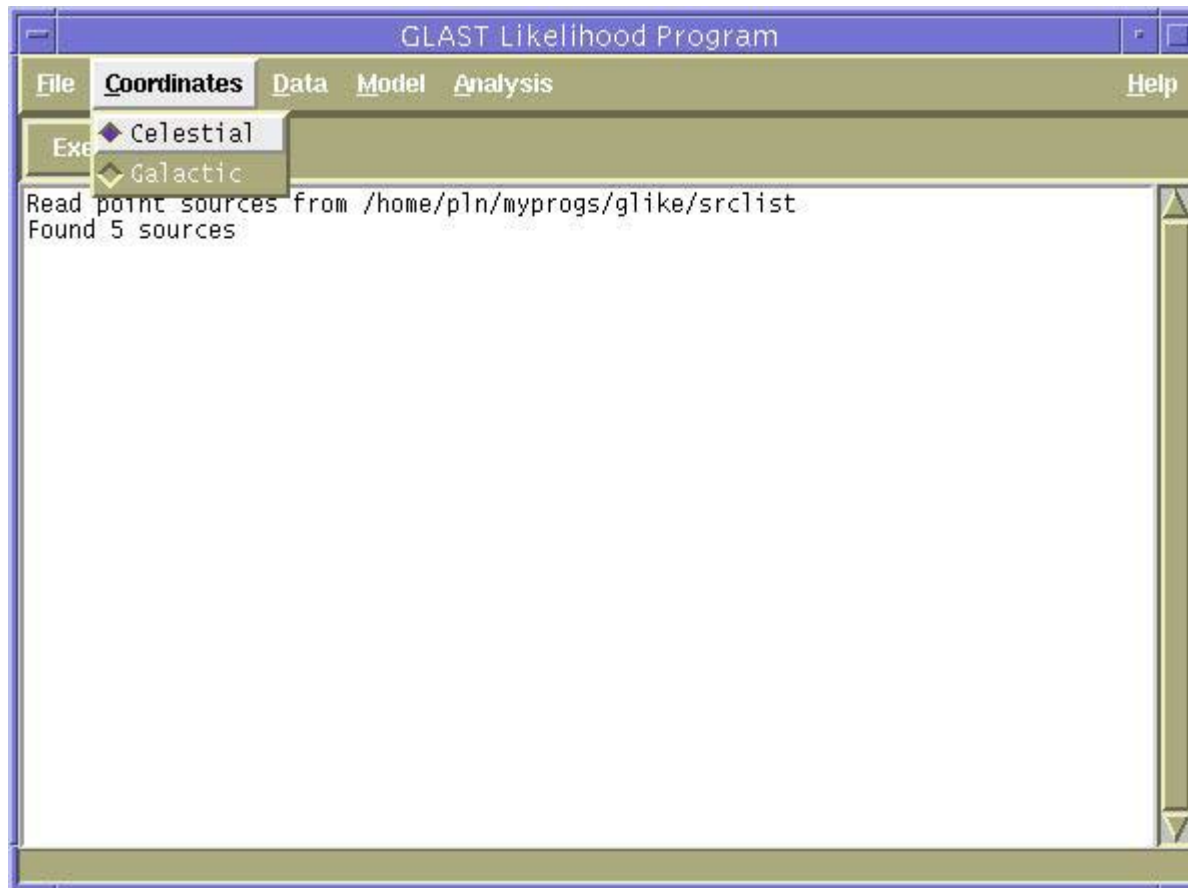
GLAST software meeting

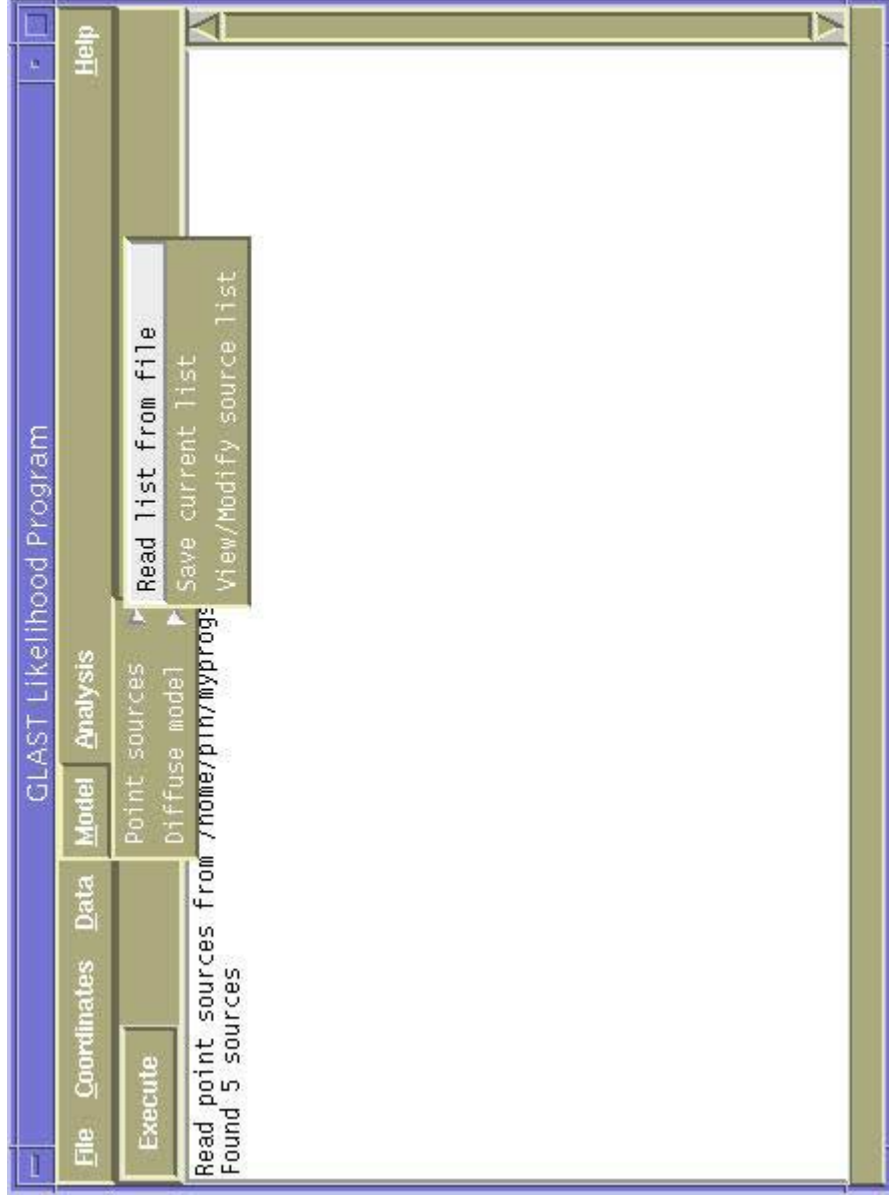
16-19 January 2001

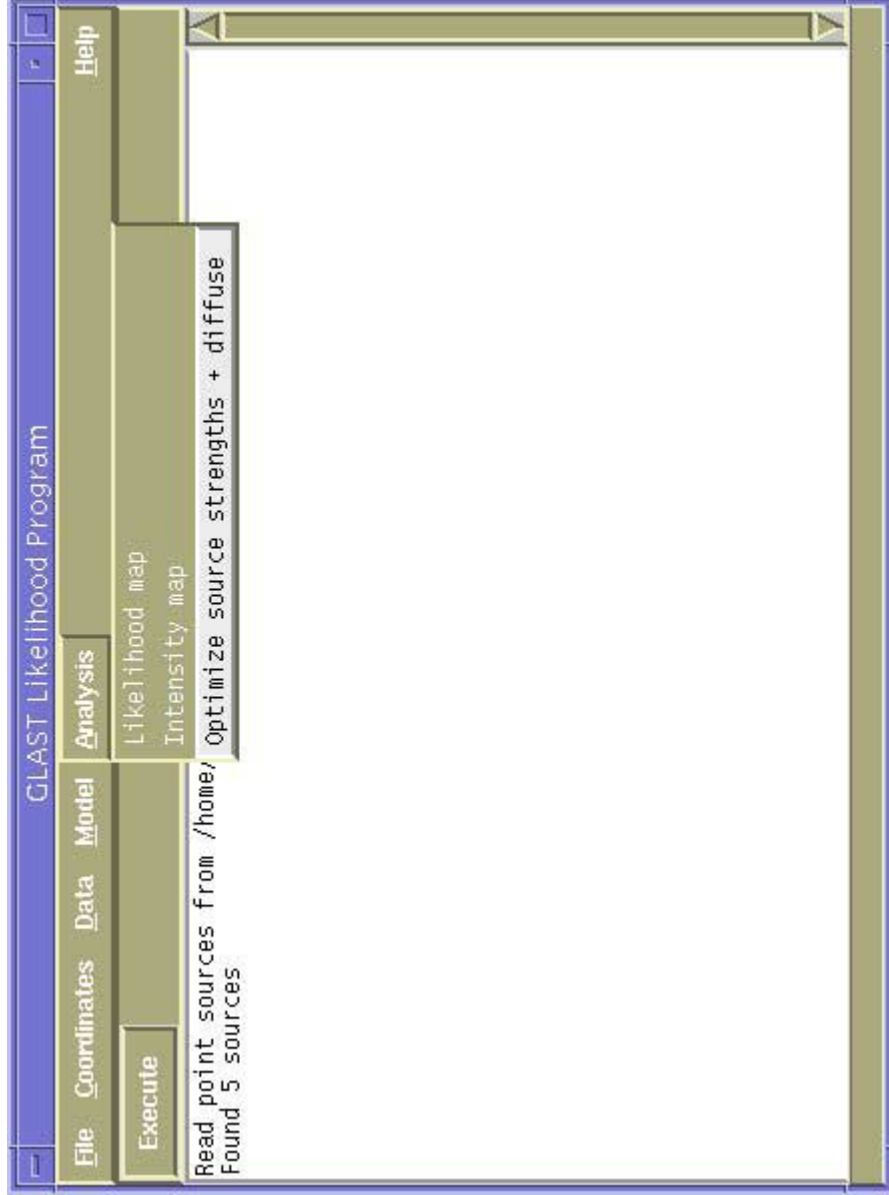
# Progress

- I decided to produce a GUI for the likelihood program before thinking about the program's internals. I find that it helps to clarify the issues.
- I wrote it in Python, a free language that runs on most platforms. It is good for rapid prototyping. The real program could be done in another language, if necessary, but I don't yet see a pressing need.
- The program is far from complete. I have devoted most of my attention to the display and maintenance of a list of point sources. I believe that this will be the most frequent point of user interaction.
- One important goal is to avoid the enormous proliferation of special-purpose commands in the EGRET LIKE program. I hope this can be done by proper design of the basic facilities.

# Main Window







# Point Source Window

The screenshot shows a window titled "Point Sources" with a table of astronomical sources. The table has columns for Name, inactv, RA, DEC, adj, Flux, adj, Slope, and adj. Below the table are several control buttons for managing the sources.

Name	inactv	RA	DEC	adj	Flux	adj	Slope	adj
Crab Pulsar	<input type="checkbox"/>	83.57	+22.01	<input type="checkbox"/>	250.00	<input type="checkbox"/>	-2.10	<input type="checkbox"/>
Geminga	<input type="checkbox"/>	98.49	+17.86	<input type="checkbox"/>	360.00	<input type="checkbox"/>	-1.80	<input type="checkbox"/>
Vela Pulsar PSR0833-45	<input type="checkbox"/>	128.73	-45.20	<input type="checkbox"/>	600.00	<input type="checkbox"/>	-1.70	<input type="checkbox"/>
3C 279, 1253-055	<input type="checkbox"/>	193.98	-5.82	<input type="checkbox"/>	150.00	<input type="checkbox"/>	-2.30	<input type="checkbox"/>
Galactic Center	<input type="checkbox"/>	266.40	-28.94	<input type="checkbox"/>	100.00	<input type="checkbox"/>	-2.00	<input type="checkbox"/>

Control buttons:

- All active
- All inactive
- All movable
- All fixed
- All adjustable
- All fixed
- All adjustable
- All fixed
- All fixed

Management buttons:

- Add an entry
- Modify an entry
- Delete an entry
- OK
- Cancel