

Create Proposal Info

Download Program Open Local Save to Local Submit AORs (phase 2) Undo AOR or Target Create AOR Delete AOR Modify AOR Duplicate AOR Create Target Delete Target Modify Target Target List Set AOR Columns Preview as PDF Validate Proposal **Submit or resubmit Phase 1 only**

Unified SOFIA Planning Tool (USPOT)

Proposal

Proposal Title → * Title

US or DE → * TAC Queue: US

(SMO only) → Category: None Selected

Scientific Justification → Cycle ID: OPEN CYCLE

* Science Keywords

* Proposal PDF Attachment

Investigators tab

* Queue Observation: Yes

* Target of Opportunity: No

* Impact Program: No

* Survey Program: No

EPO Program Participation: No

* Required Fields

* Proposal Abstract

Enter Abstract Text Here

Enter Related Proposal Info

Status of Previous Observations, publications, etc.

Special Instructions if any

0/2000

Clear Text → **Clear Abstract**

Target: M88 Type: SOFIA Fixed Single Total Duration: 3 min Awarded: 0 min

Proposal - <No File> Net Up Total AORs: 1 / Active: 1

Add Investigators Info

The screenshot shows a web application window titled "Proposal" with a tabbed interface. The "Investigators" tab is active, displaying a list of two investigators: "PI: , institution=, country=, email=, username=" and "CO-I #1: , institution=, country=, email=, username=". Below the list are buttons for "Add CO-I" and "Remove CO-I". The form includes fields for "First Name", "Last Name", "Honorific" (with a dropdown menu showing "Dr."), "Institution", "Street1", "Street2", "City", "Phone", "Designated Co-I" (dropdown menu showing "No"), "US Lead Investigator" (dropdown menu showing "No"), "Contact Email", "DCS User Account Email", "State" (dropdown menu showing "(empty)"), "Postcode", and "Country" (dropdown menu). A "Title" field is visible at the top left.

Investigators list

User account is required if a CO-I is a designated CO-I

Non-US PI with US CO-I

PI and Designated CO-I contact email, can be different from account email

- Contact Email does not have to be the same as DCS account email
- USPOT will check if this account email exists in the SOFIA DCS, if not, it will direct you to a registration web page

Observations (AOR) Summary

Unified SOFIA Planning Tool (USPOT)

File Edit Targets Observation Tools Images Overlays Options Window Help

Observations

Astronomical Observation Requests (AORs)

Instrument	Label	Target	Mode	Durati...	Expo...	Filter 1	Filter 2	Slit	Chop...	aorID
FORCAST_Imagi...	FOR_Img	haro3	Nod_Match_Chop	24	6	FOR_F054	OPEN		120.0	02_0510_1
FORCAST_Grism	scan m67	Jupiter	SLITSCAN	13	6	FOR_G111	OPEN	FOR_LS24	30.0	02_0510_12
GREAT SP	GRE m67	m67	Total_Power	310	5	GRE_M1	GRE_L2		0.0	02_0510_13
GREAT Raster	map m67	m67	Dual_Beam_Swi...	4620	2160	GRE_L1	GRE_L2		60.0	02_0510_18
FLITECAM Grism	FLT m68	m68	NOD_ALONG_S...	308	4	FLT_A2_KL		FLT_SS20		02_0510_23
EXES Medium	EXE m35	M35	MAP	68	30	OPEN	EXE_ECHL	EXE_S34		02_0510_30

Instrument Name
 User Entered Unique AOR Label
 Target Name
 Observation Mode
 Duration in seconds
 Exposure in seconds
 Filter 1 / 2
 Slit
 Chop Throw
 AOR ID

Current Selected Target and Target Type
 Observing Plan ID (ID of Approved Proposal from DCS server) or File Name (if loaded from local disk)
 AOR window tab
 Has Internet connection
 Total Duration of all AORs
 Total Awarded Time

Target: m68 Type: Fixed Single
 Estimated: 89 min **Awarded: 120 min**

Existing Project - 02_0510 username:llin Net Up Total AORs: 6 / Active: 6

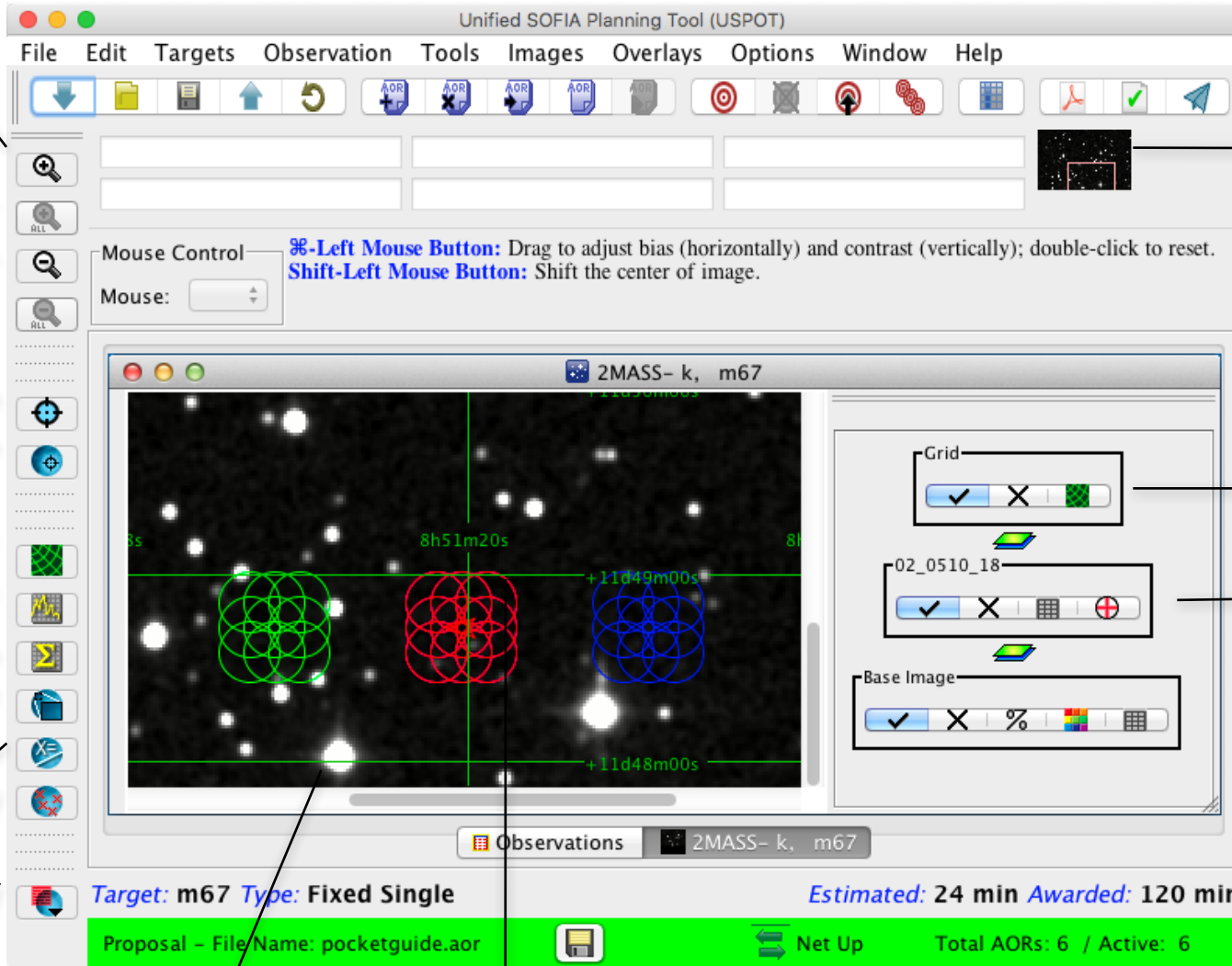
Main Menu Bar

Configure which Columns to Show

Click on column header to sort

Phase 2 only

Visualizing an AOR



Zoom in image in active frame

Zoom in on all frames (not active if only one frame is displayed)

Zoom out

Click on crosshairs to center current frame to current target's position (for fixed targets).

Show current fixed target

Show coordinate grid

Create a slice from an image

Compute statistics in an area on the image

Crop image

Show distance

Add marks to image and create your own catalog

Overlay other images

Mouse Control **⌘-Left Mouse Button:** Drag to adjust bias (horizontally) and contrast (vertically); double-click to reset.
Shift-Left Mouse Button: Shift the center of image.

Background image

Overlay of GREAT Raster, Beam Switch

Image thumbnail with box outline showing zoomed field in frame below. Click on thumbnail to move position of zoomed image.

Click to view SOFIA's pointing positions.

Focal beam control

Visualizing a Moving Target

The screenshot displays the Unified SOFIA Planning Tool (USPOT) interface. At the top, the title bar reads "Unified SOFIA Planning Tool (USPOT)". Below it is a menu bar with "File", "Edit", "Targets", "Observation", "Tools", "Images", "Overlays", "Options", "Window", and "Help". A toolbar contains various icons for file operations, target management, and observation control. The main workspace is divided into several sections:

- Mouse Control:** A section with a "Mouse:" dropdown menu set to "Jupiter". To its right, instructions are provided: "Left Mouse Button: Select a point on the Image.", "⌘-Left Mouse Button: Drag to adjust bias (horizontally) and contrast (vertically); double-click to reset.", and "Shift-Left Mouse Button: Shift the center of image."
- 2MASS- k, Jupiter:** A central window showing a dark astronomical image of Jupiter. A pink line with circular markers represents the target's path. A series of vertical green lines, representing the GREAT Raster, are overlaid on the image. A red vertical line indicates the current beam position.
- Observation Controls:** On the right side of the Jupiter window, there are three control panels: "Scan Jupiter" (with a checked checkbox and a red cross icon), "Jupiter" (with a checked checkbox and a yellow circle icon), and "Base Image" (with a checked checkbox and a color calibration icon).

At the bottom of the interface, a status bar provides the following information:

- Target:** Jupiter **Type:** Moving Single
- Estimated:** 90 min **Awarded:** 120 min
- Proposal - File Name:** pocketguide.aor
- Net Up** (indicated by a green bar)
- Total AORs:** 6 / **Active:** 6

Overlay of GREAT Raster, Beam Switch