

# **SALT Software Tools**

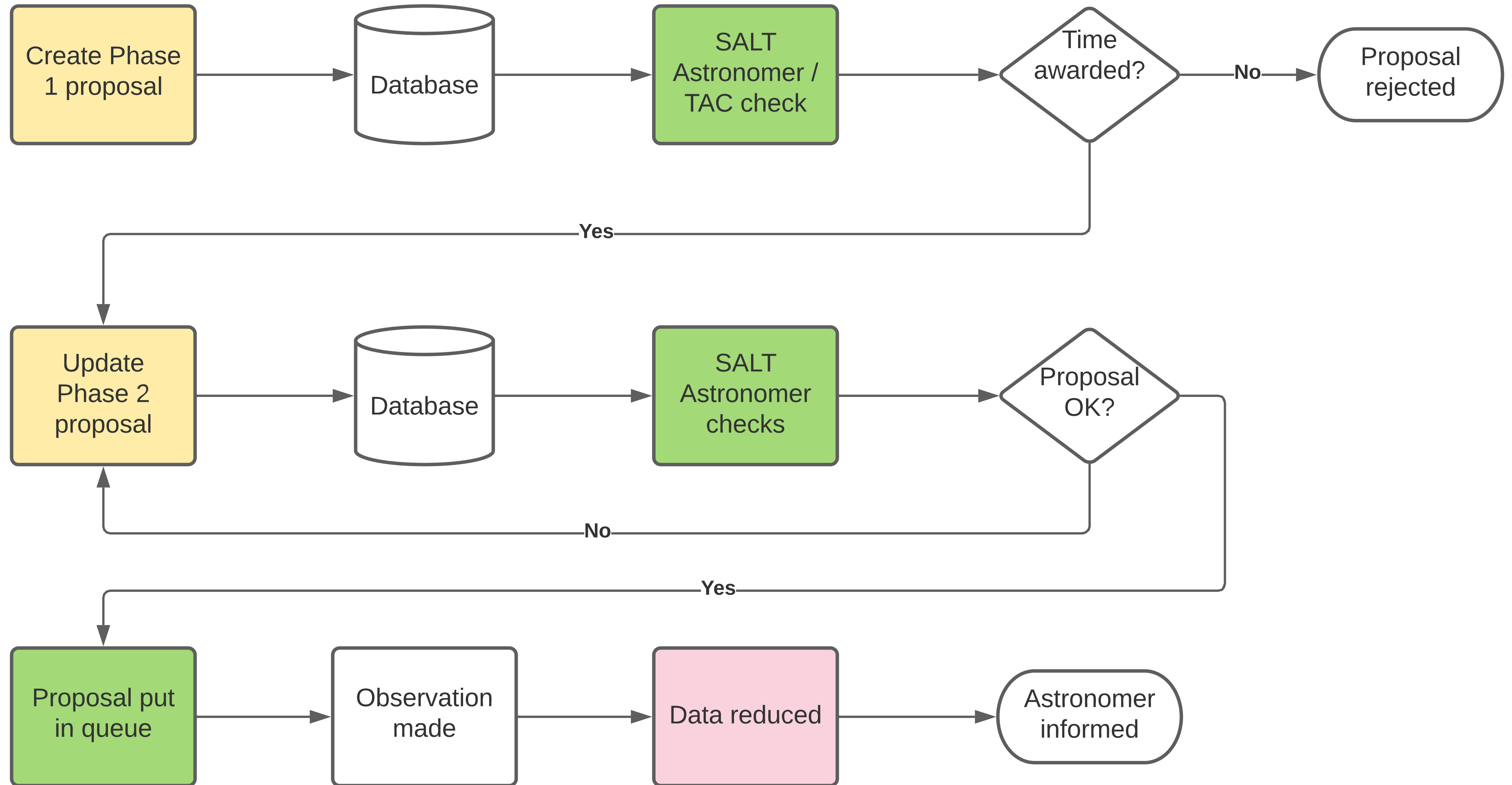
**SALT Workshop**

**Cape Town, 14 November 2022**

**How do I get  
data from SALT?**







# Phase 1

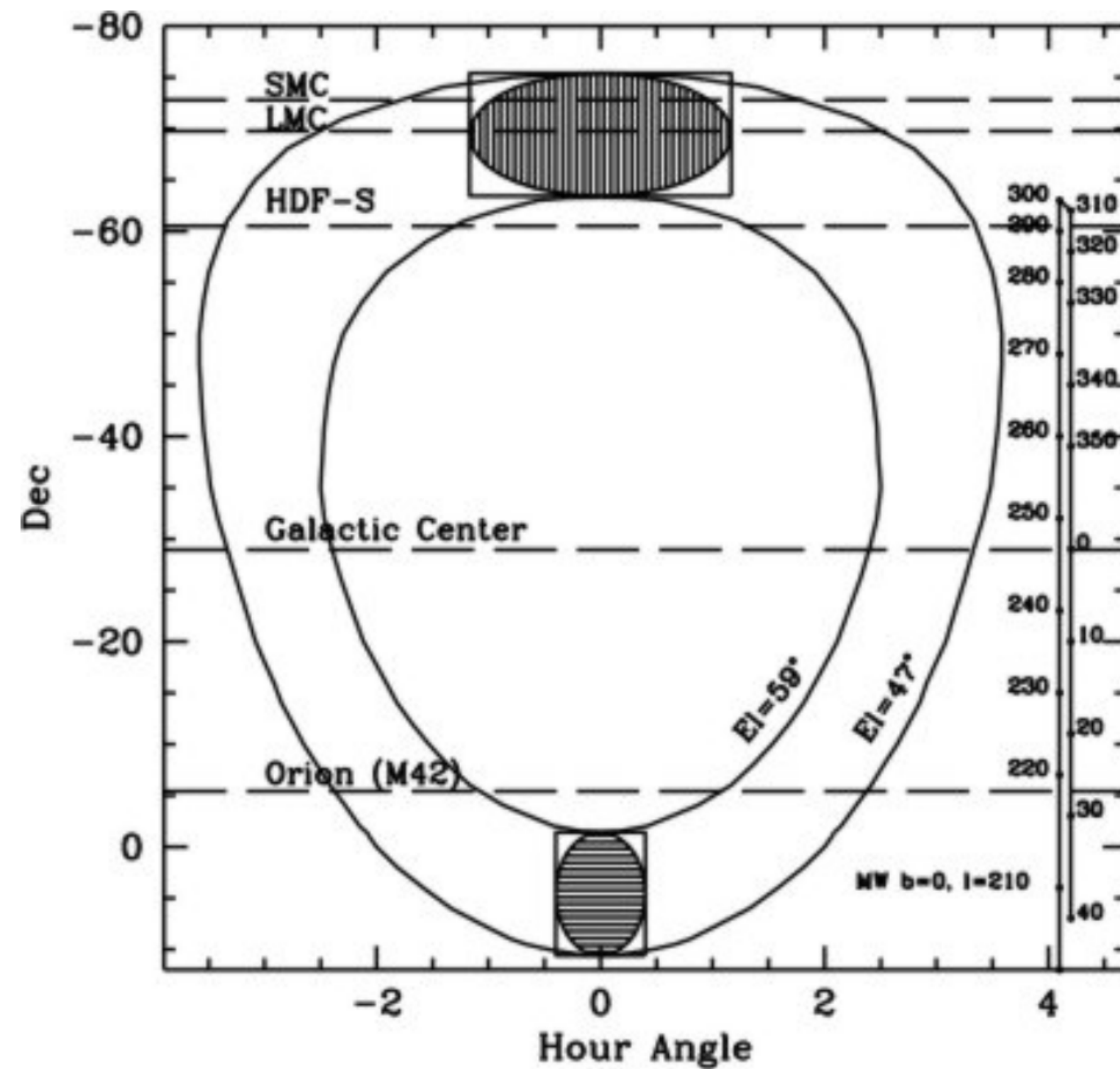
Can I observe my target(s)?

Is my observation feasible?

How can I convince the TAC?

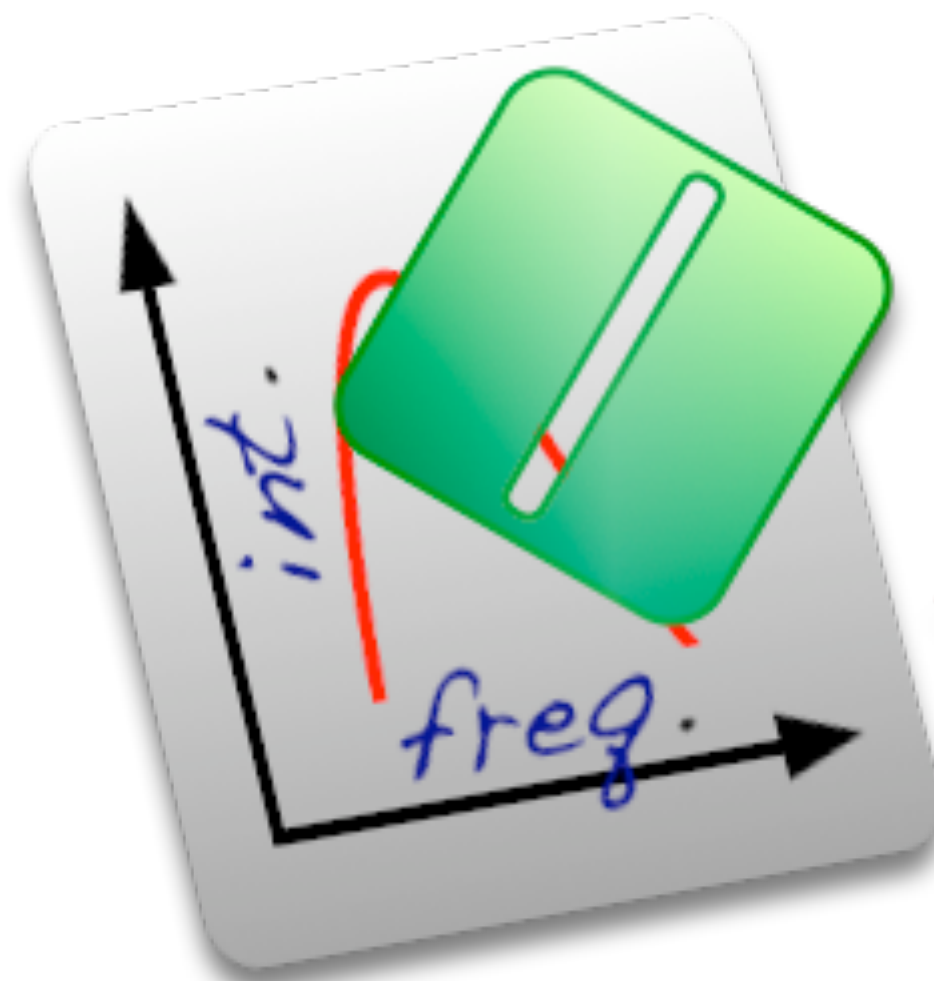
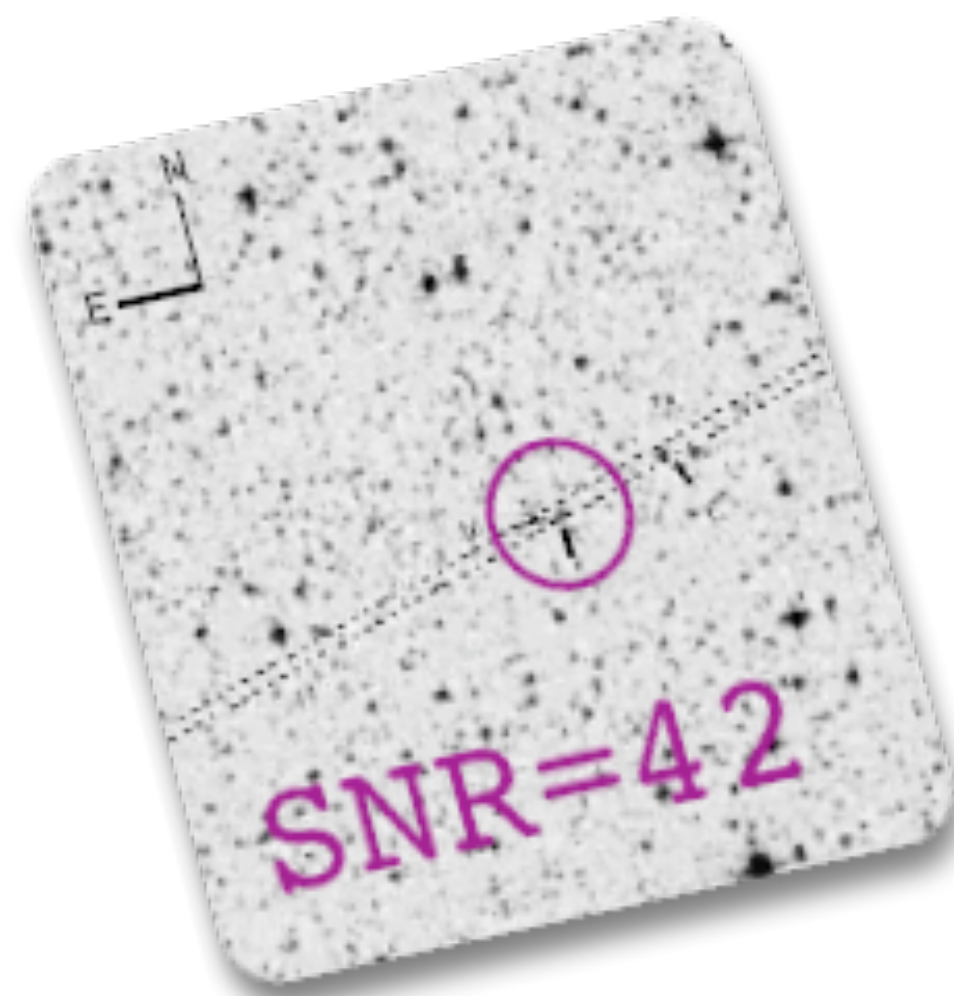


# Can I observe my target(s)?

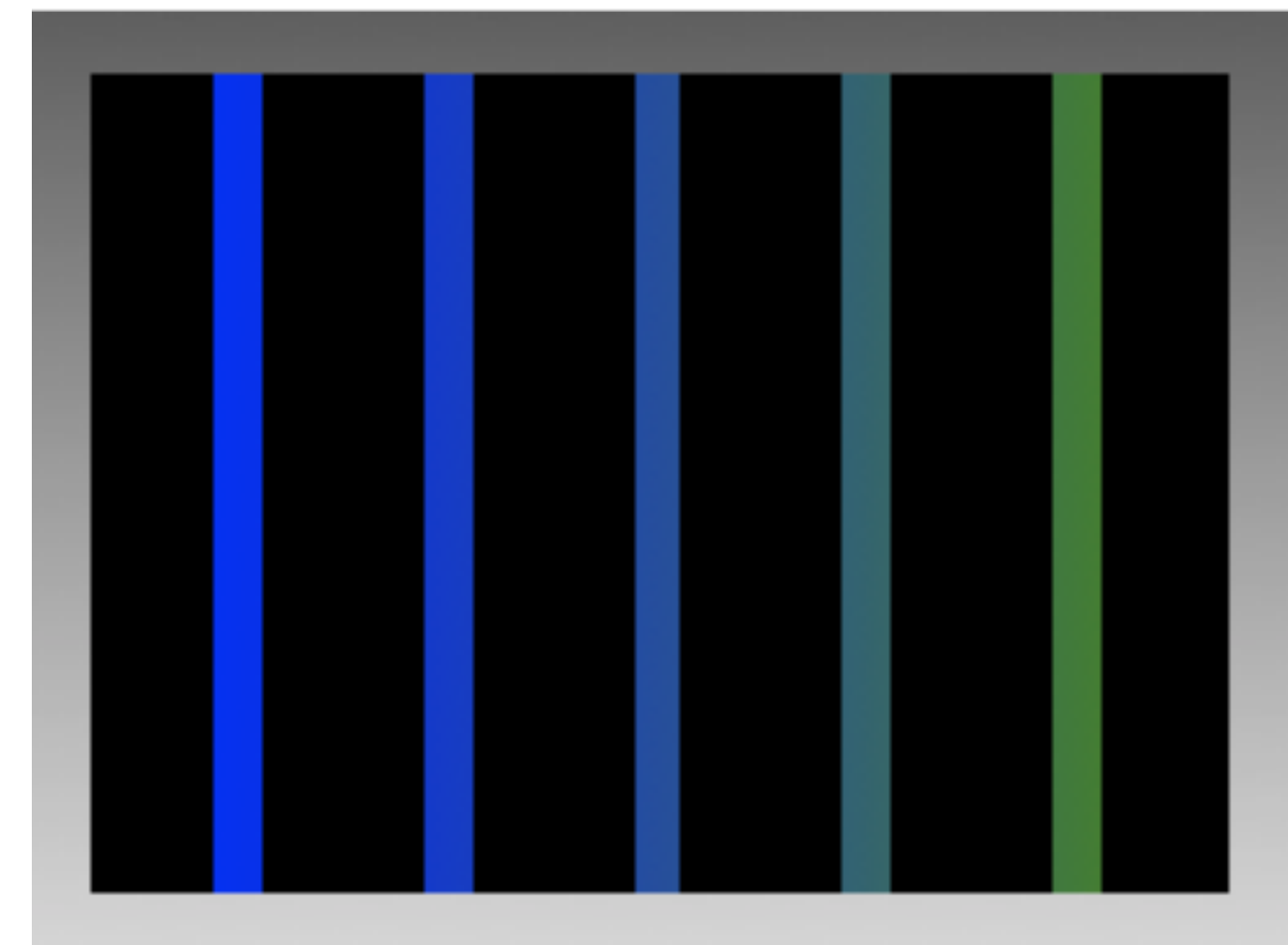




# Is my observation feasible?



See Solohery's  
talk tomorrow!



# Okay, but how do I submit?



# Checking your proposal



You, the SALT Astronomers and TAC members can check your proposal in the SALT Web Manager.



# Phase 2: Back to the PIPT





# Back in ~2005...

- Platform-independent meant „Java“
- Python was way less popular
- JavaScript was way less prominent
- Creating a website in PHP was a good idea
- It was expected that SALT proposals would have a handful of blocks





Clearly times have changed.

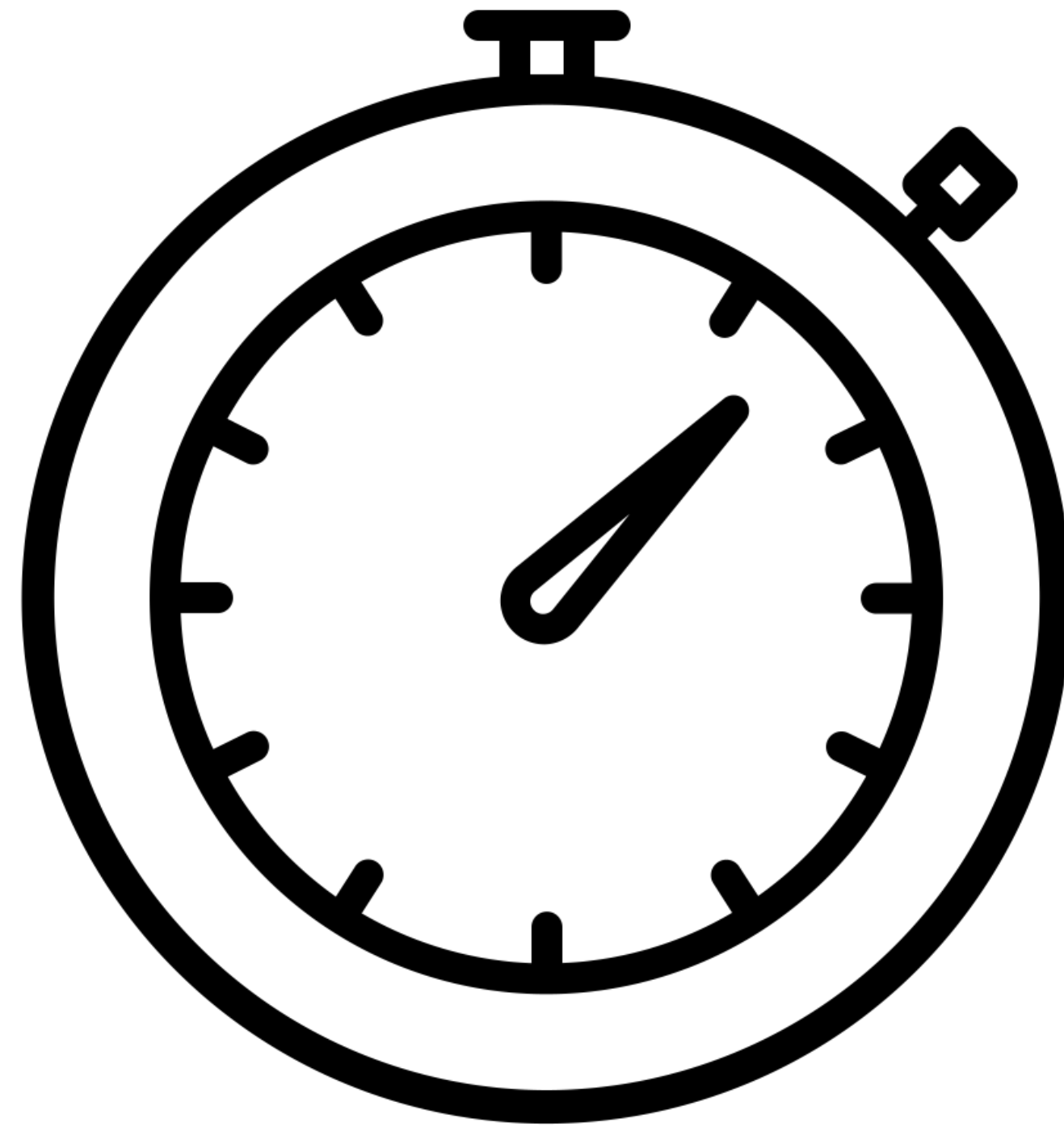
So will some of the SALT software.

This will have clear benefits...



# You will save time

Before:  
15 seconds



After:  
3 seconds

Web Manager loading time for a large-ish proposal



You can have a  
REST-ful night....

... and resubmit  
your proposals  
while fast asleep.





# Proposals

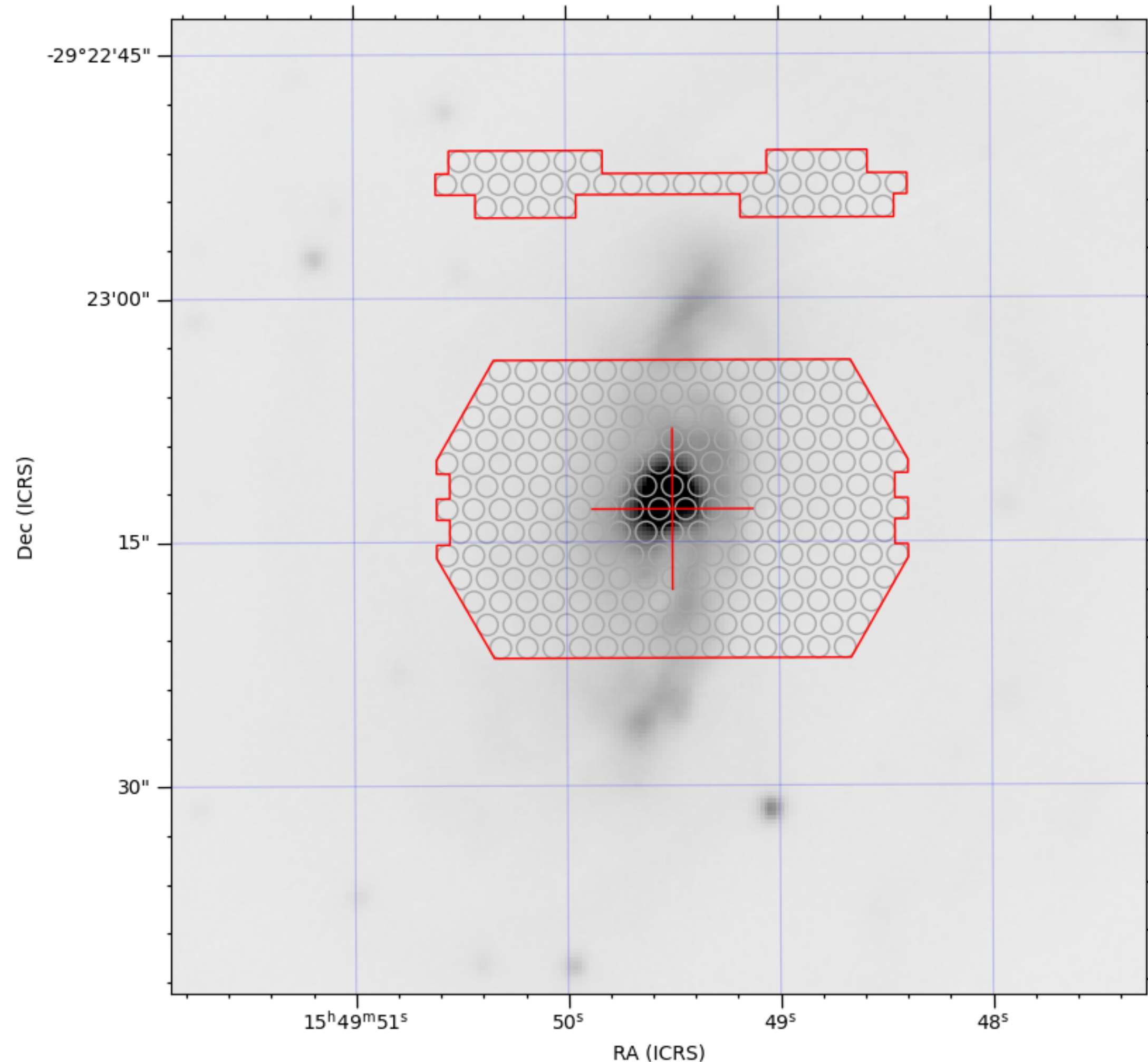


GET	/progress/{proposal_code}/	Get URLs for all proposal progress report pdfs	✓
GET	/progress/{proposal_code}/{semester}	Get a proposal progress report	✓
PUT	/progress/{proposal_code}/{semester}	Create or update a progress report	✓
GET	/progress/{proposal_code}/{semester}/report.pdf	Get a proposal progress report pdf	✓
GET	/progress/{proposal_code}/{semester}/supplementary-file.pdf	Get an additional proposal progress report pdf	✓
GET	/proposals/	List proposals	✓
POST	/proposals/	Submit a new proposal	✓
GET	/proposals/{proposal_code}.zip	Get a proposal zip file	✓
GET	/proposals/{proposal_code}	Get a proposal	✓
PATCH	/proposals/{proposal_code}	Resubmit a proposal	✓
GET	/proposals/{proposal_code}/scientific-justification	Get the scientific justification	✓
GET	/proposals/{proposal_code}/status	Get the proposal status	✓



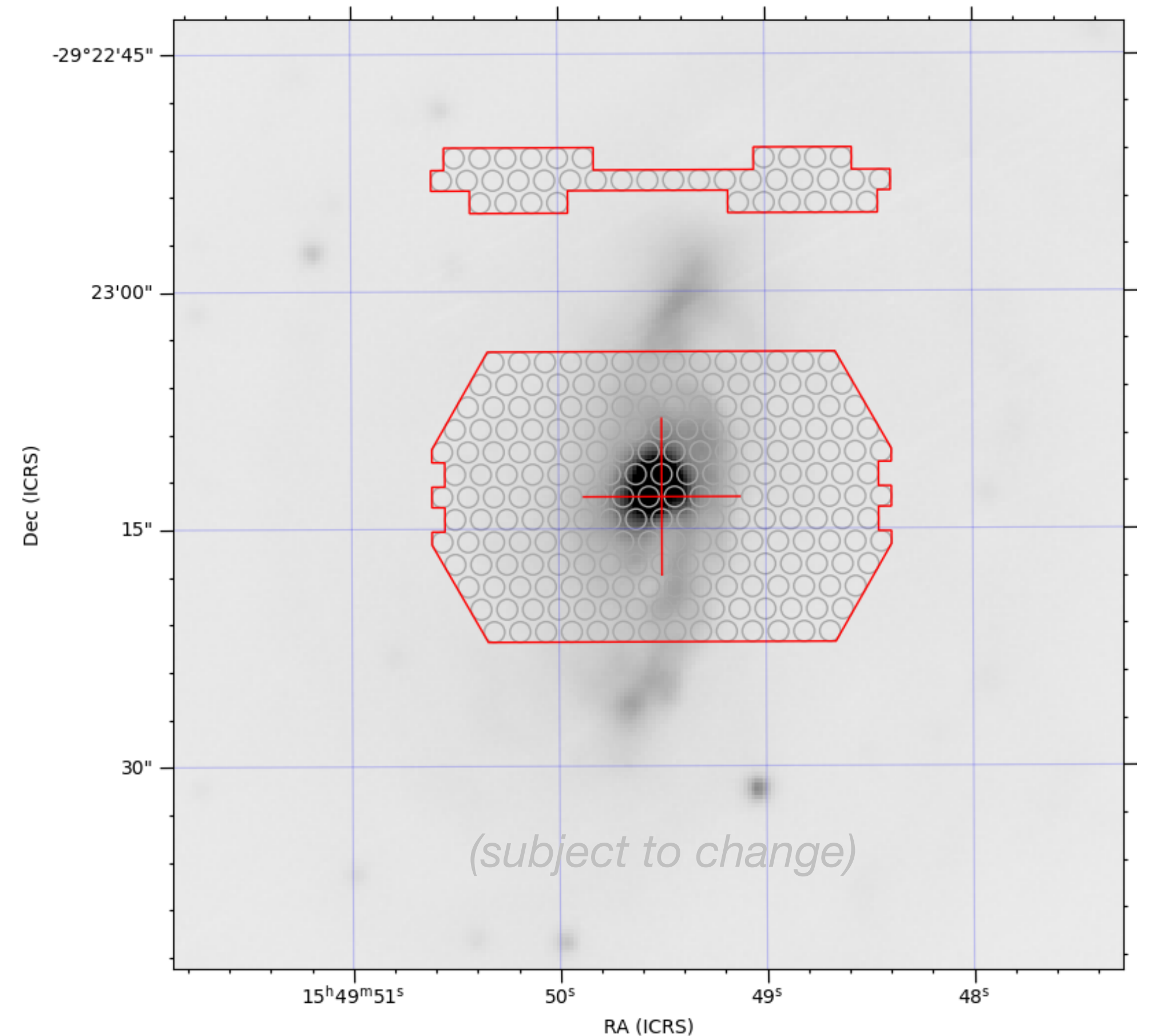
# There will be Python libraries as well

- PyAstroSALT for making the REST API more accessible
- imephu for generating finder charts (for NIR)
- What else would you like to do with Python?



# Creating your finder charts

- You can generate the finder charts in the PIPT
- This is not necessarily true for NIR
- However, there is a Python library, `imephu`, for generating them
- There also is an online finder chart generator, [http://pysalt.salt.ac.za/finder\\_chart/](http://pysalt.salt.ac.za/finder_chart/)

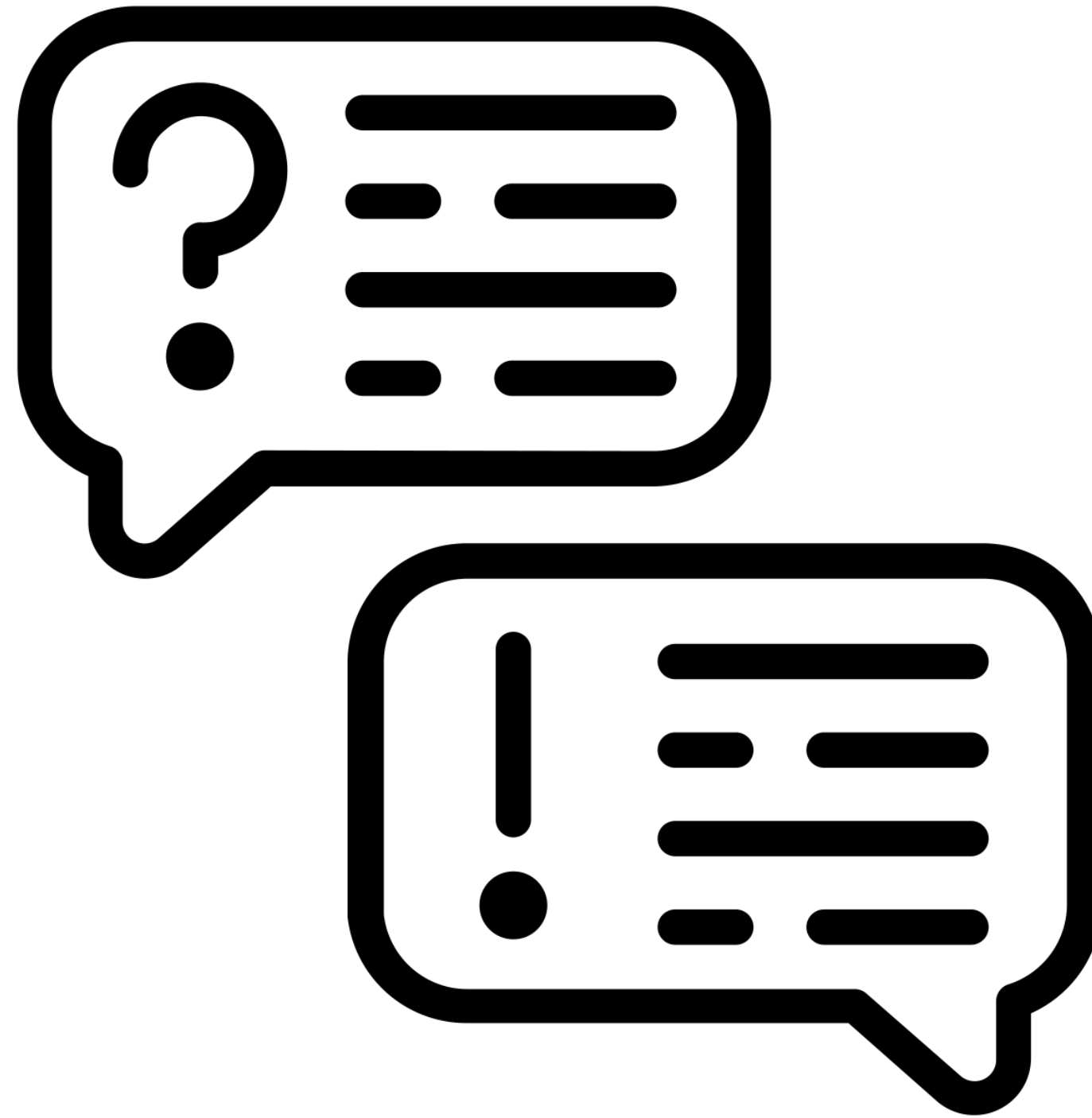




And if I run into  
trouble...?







Help is just an email away:

[salthelp@salt.ac.za](mailto:salthelp@salt.ac.za)

**Thank you!**

