The Observing Tool

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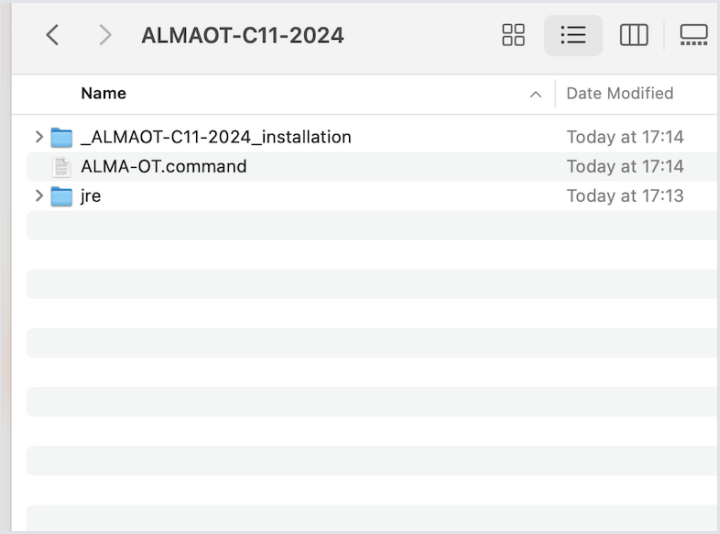
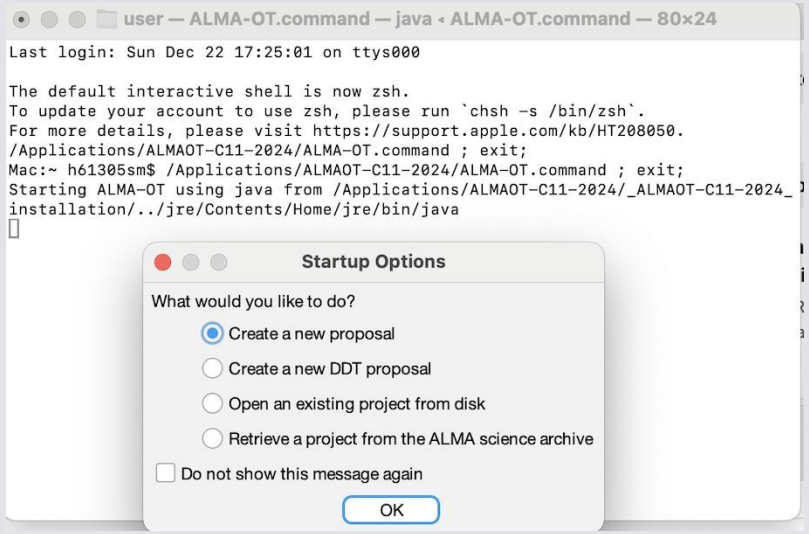
ALMA Regional Centre || UK

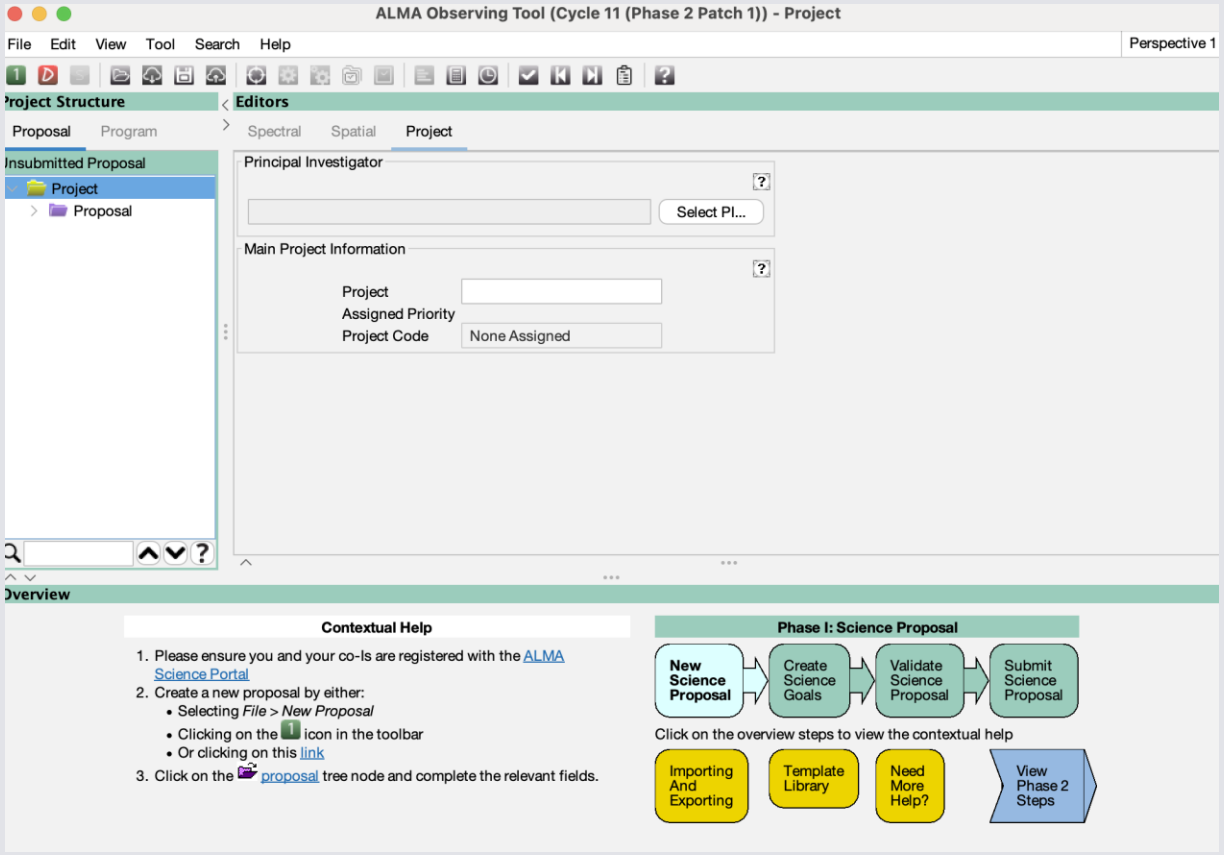
What is the Observing Tool?

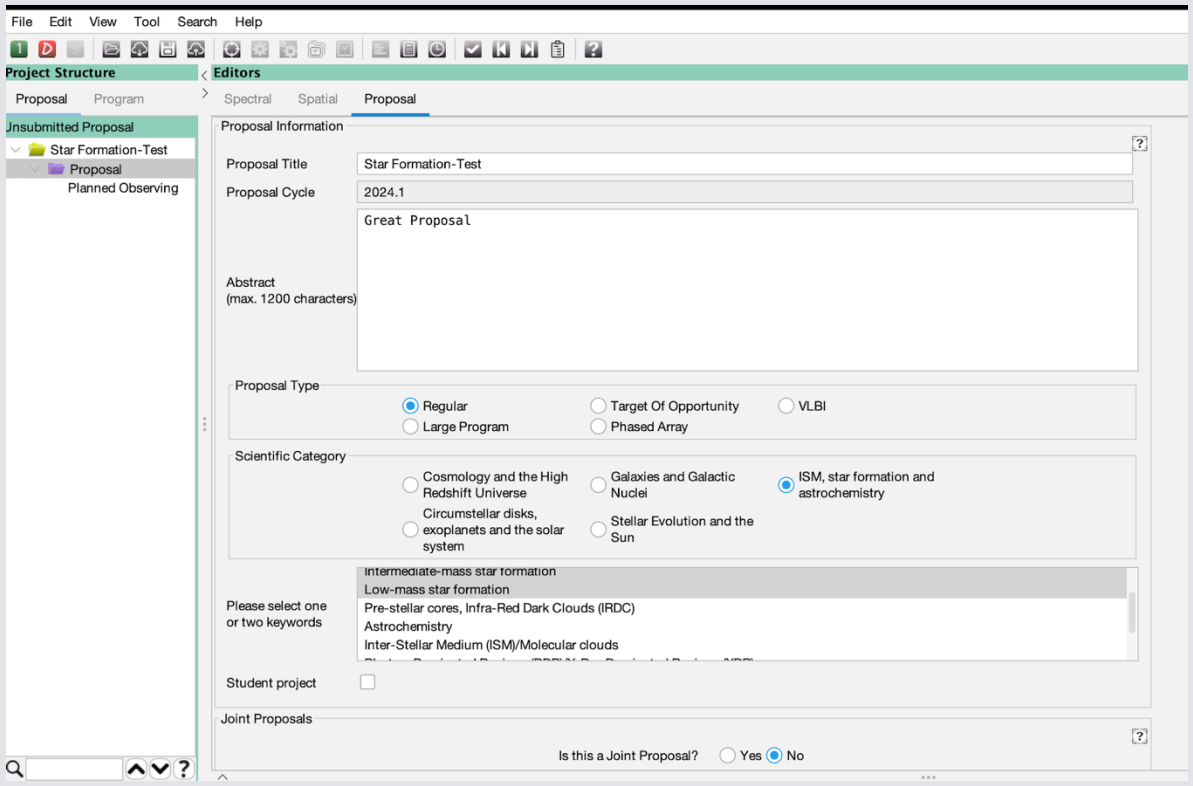
- The ALMA Observing Tool (OT) is a Java desktop application used for the preparation and submission of ALMA Phase 1 proposals and, for those which are accepted, Phase 2 materials (Scheduling Blocks).
- Starting to the OT:



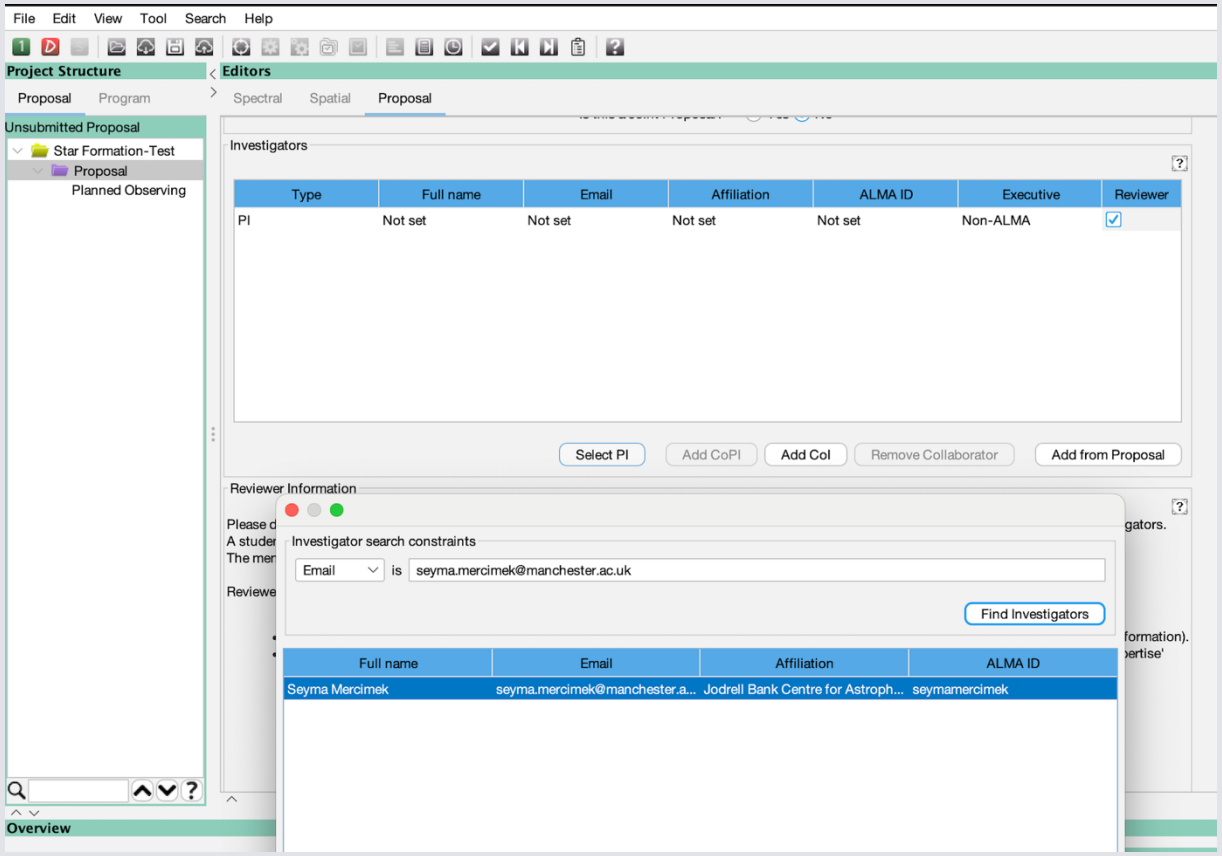


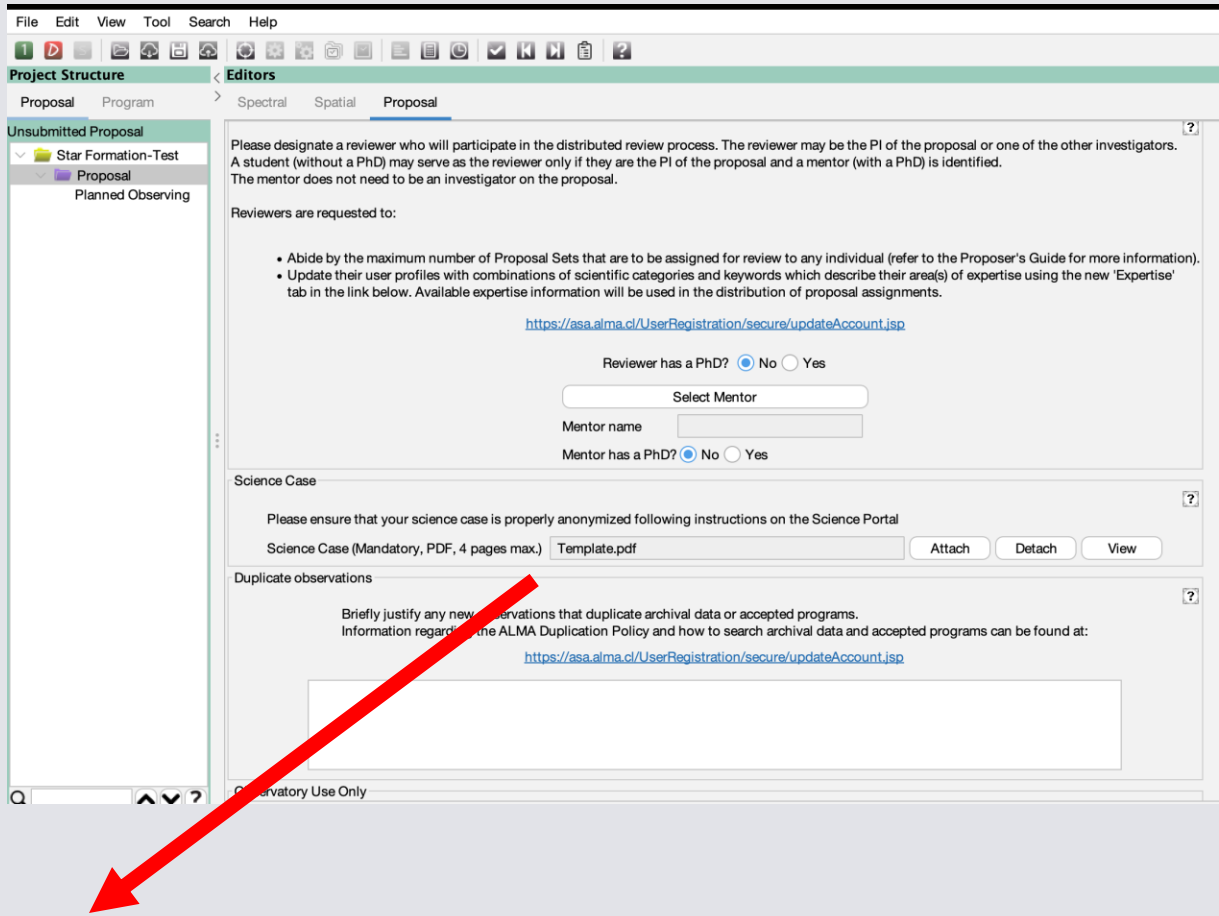
Project>>Proposal>>Planned Observing





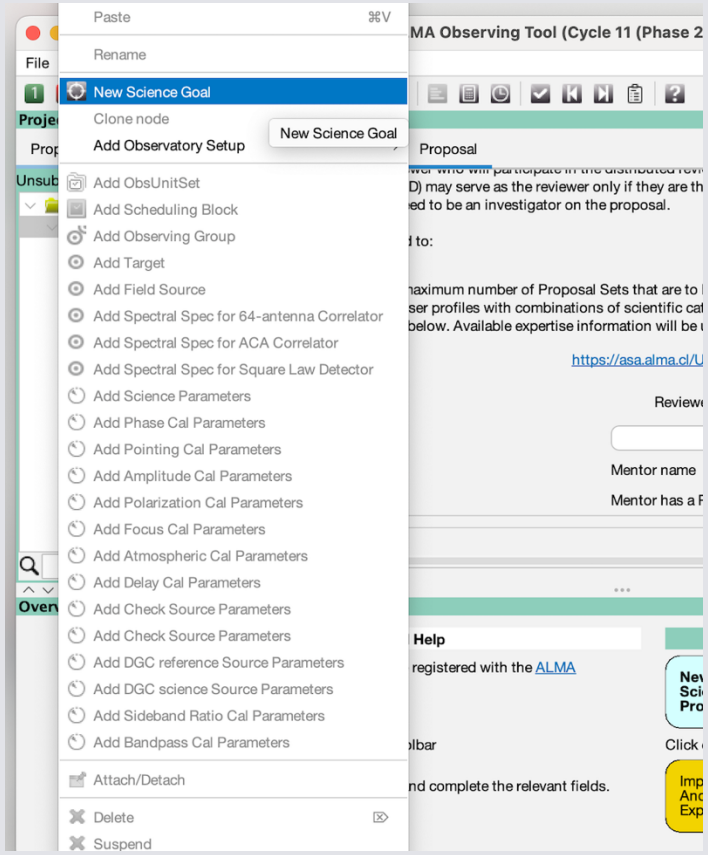
Project>>Proposal>>Planned Observing>>Science Case

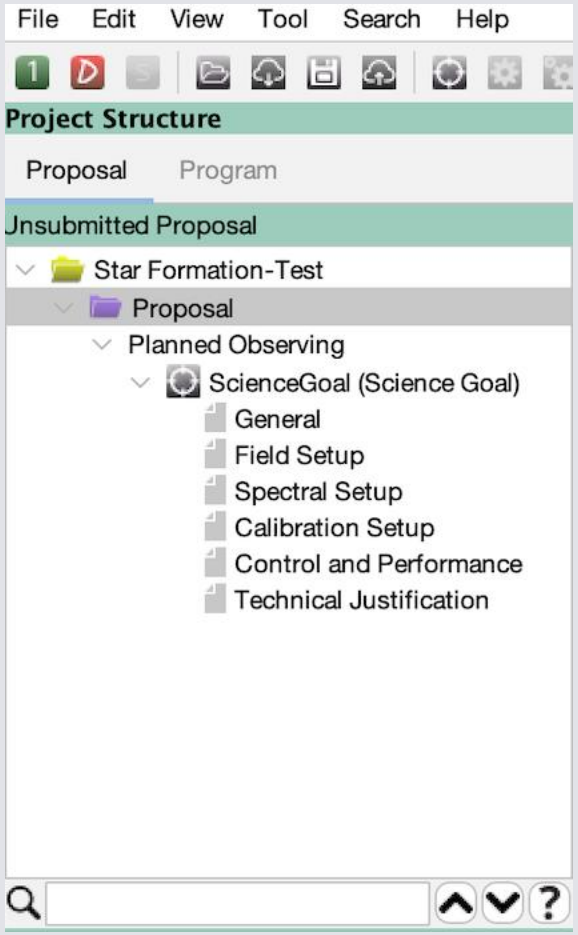




Proposal template can be downloaded using this:
https://almascience.eso.org/documents-and-tools/proposing/proposal-template

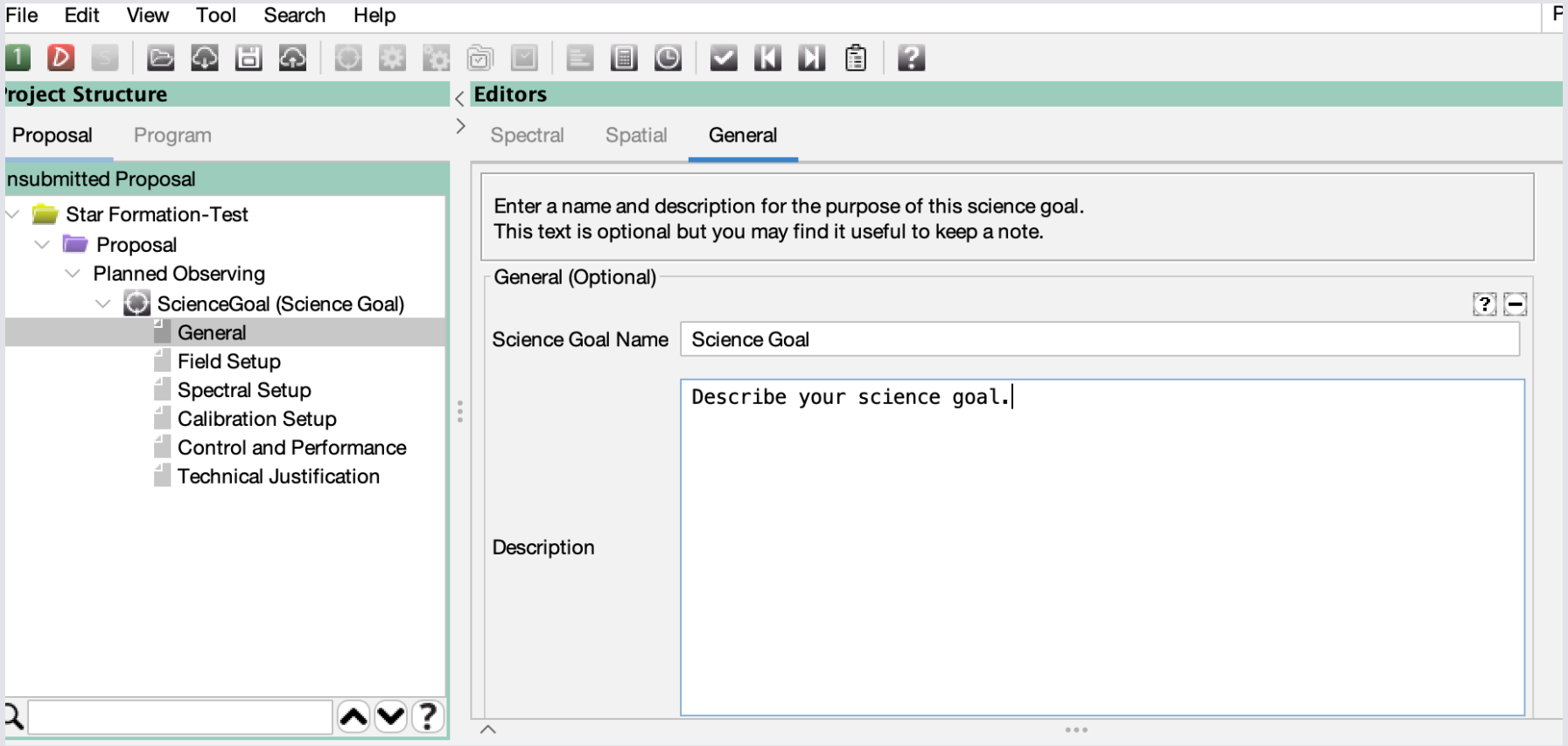
Project>>Proposal>>Planned Observing>>Science Goal



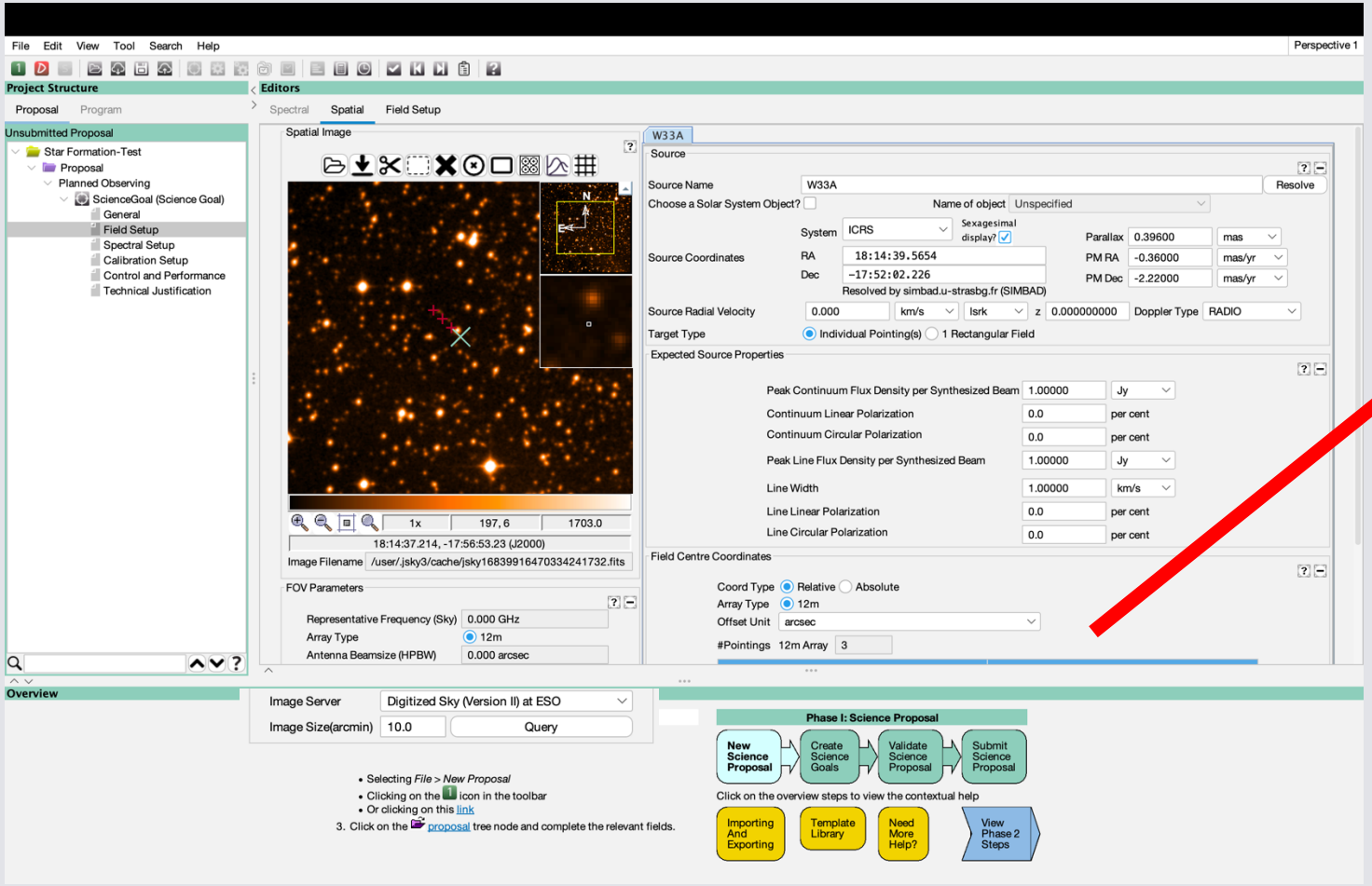


Science Goal has six section to complete.

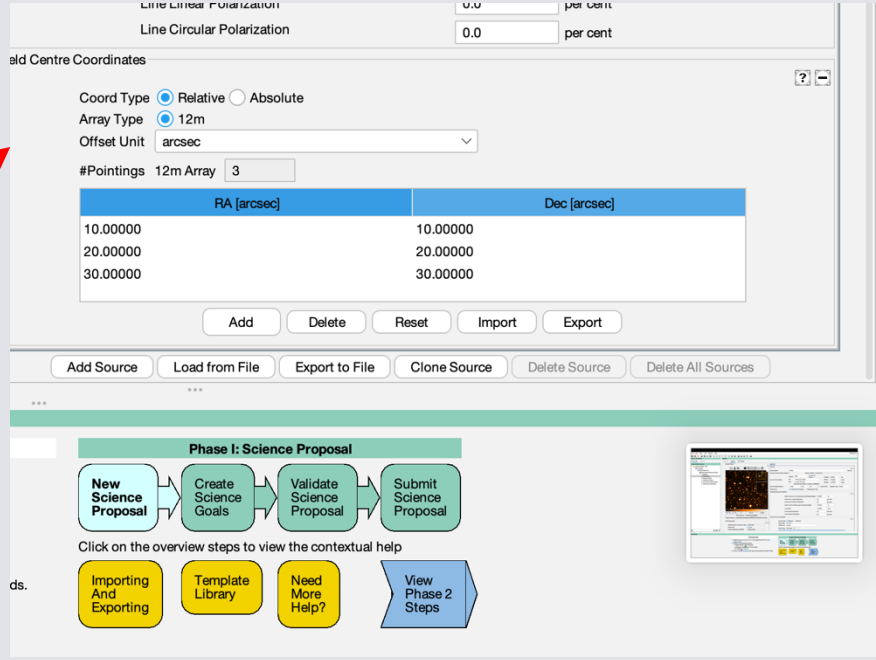
Project>>Proposal>>Planned Observing>>Science Goal>>General



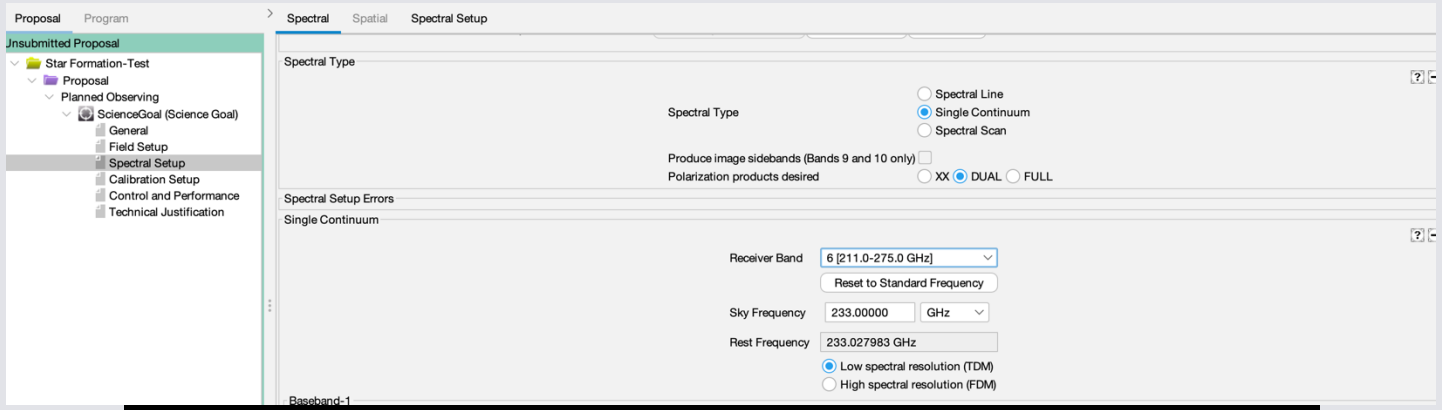
Project>>Proposal>>Planned Observing>>Science Goal>>Field Setup

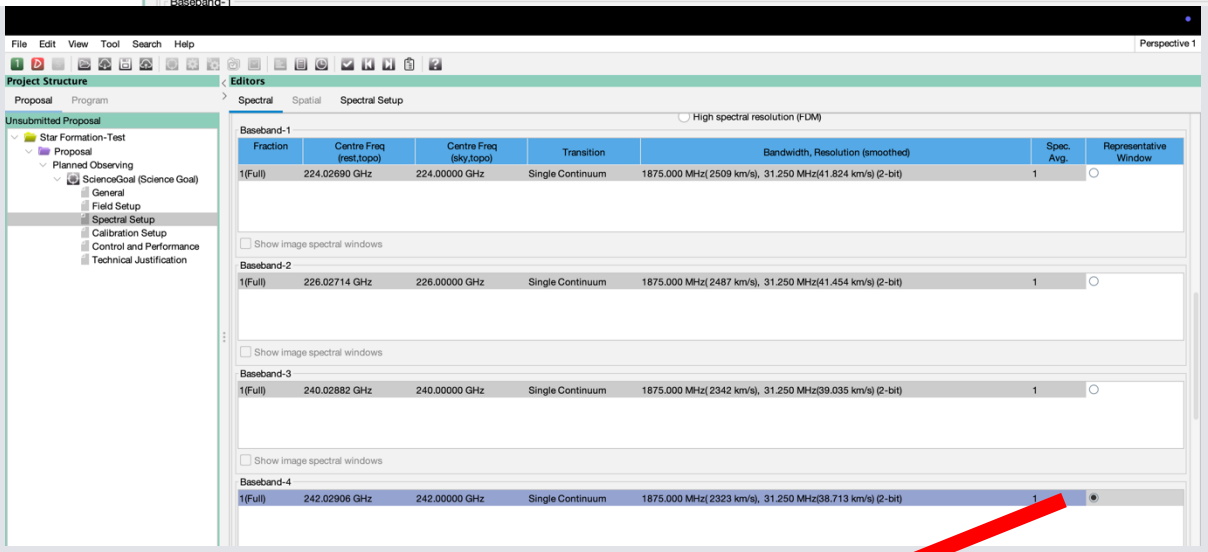


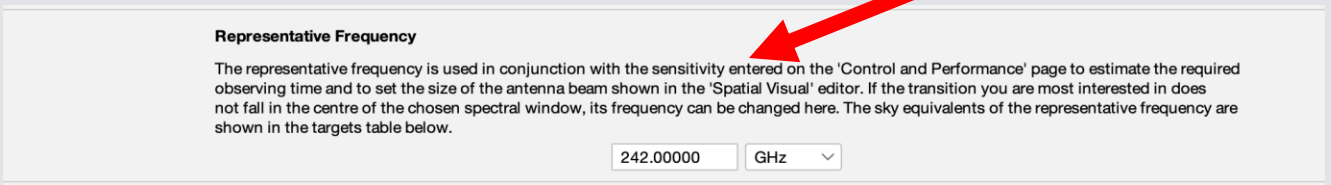
If there are desired pointings..



Project>>Proposal>>Planned Observing>>Science Goal>>Spectral Setup 1) Single Continuum

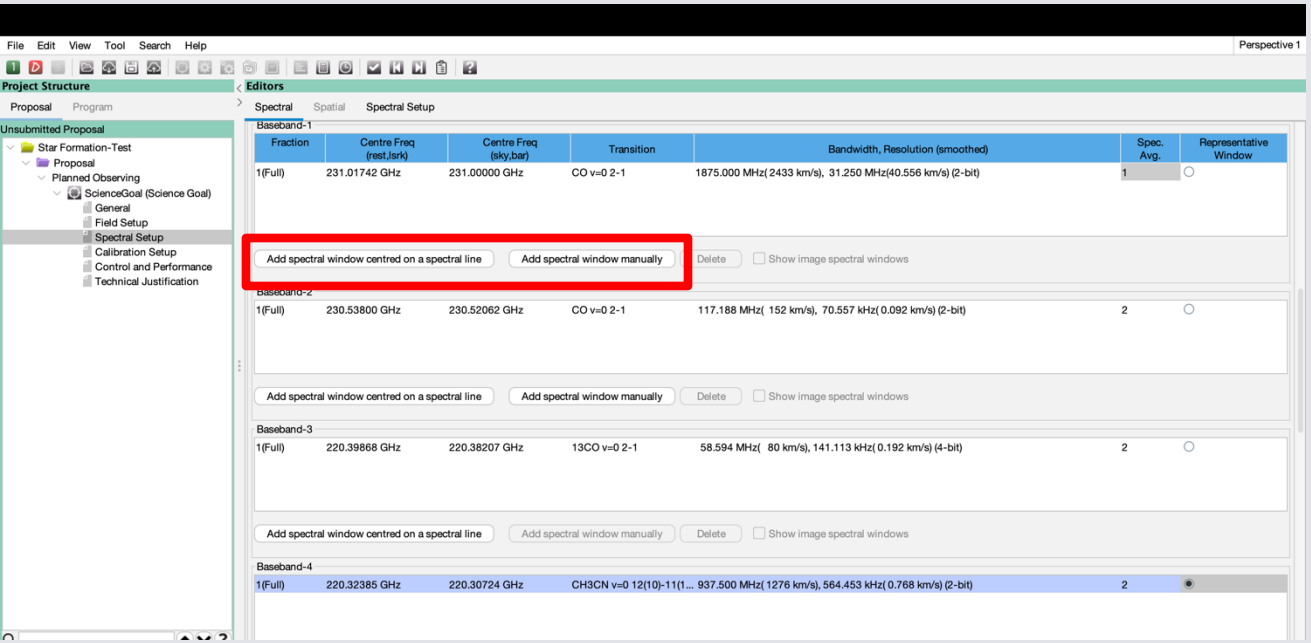


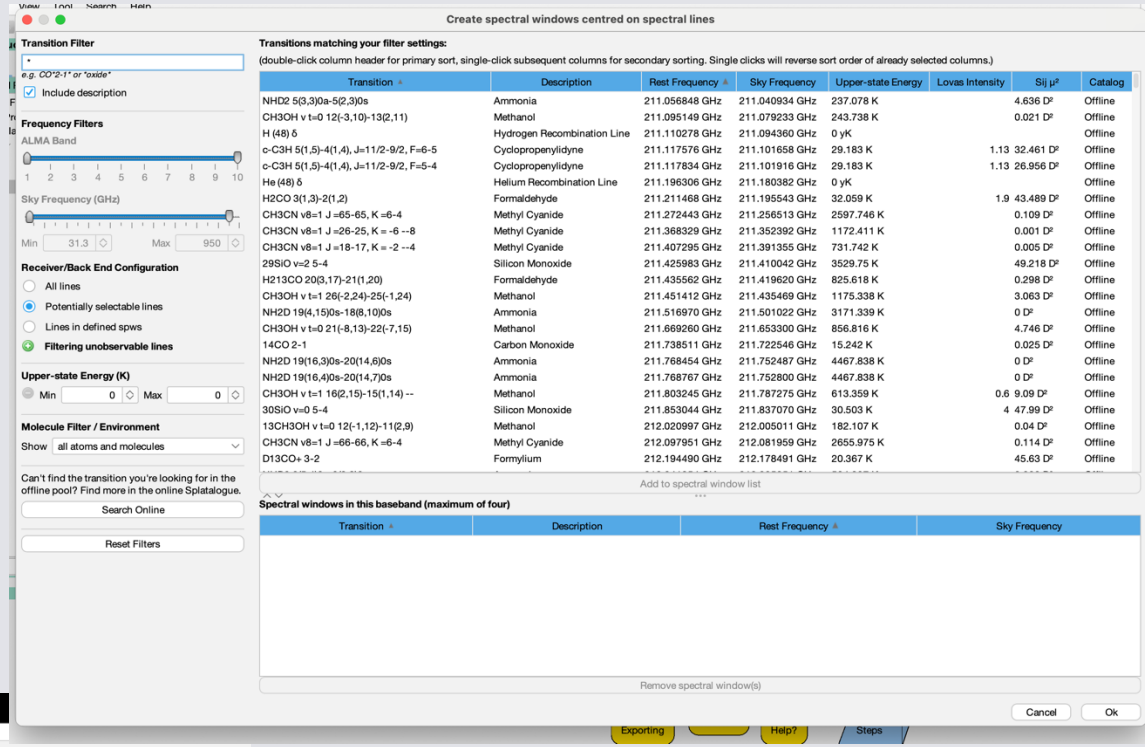




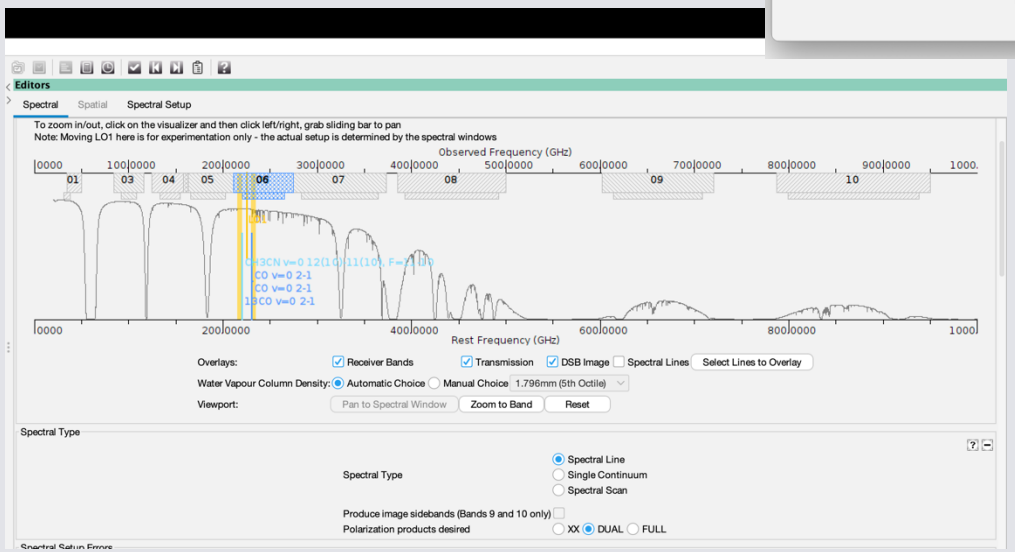
Project>>Proposal>>Planned Observing>>Science Goal>>Spectral Setup 2) Spectral Line

Adding spectral windows either manually or from Splatalogue.

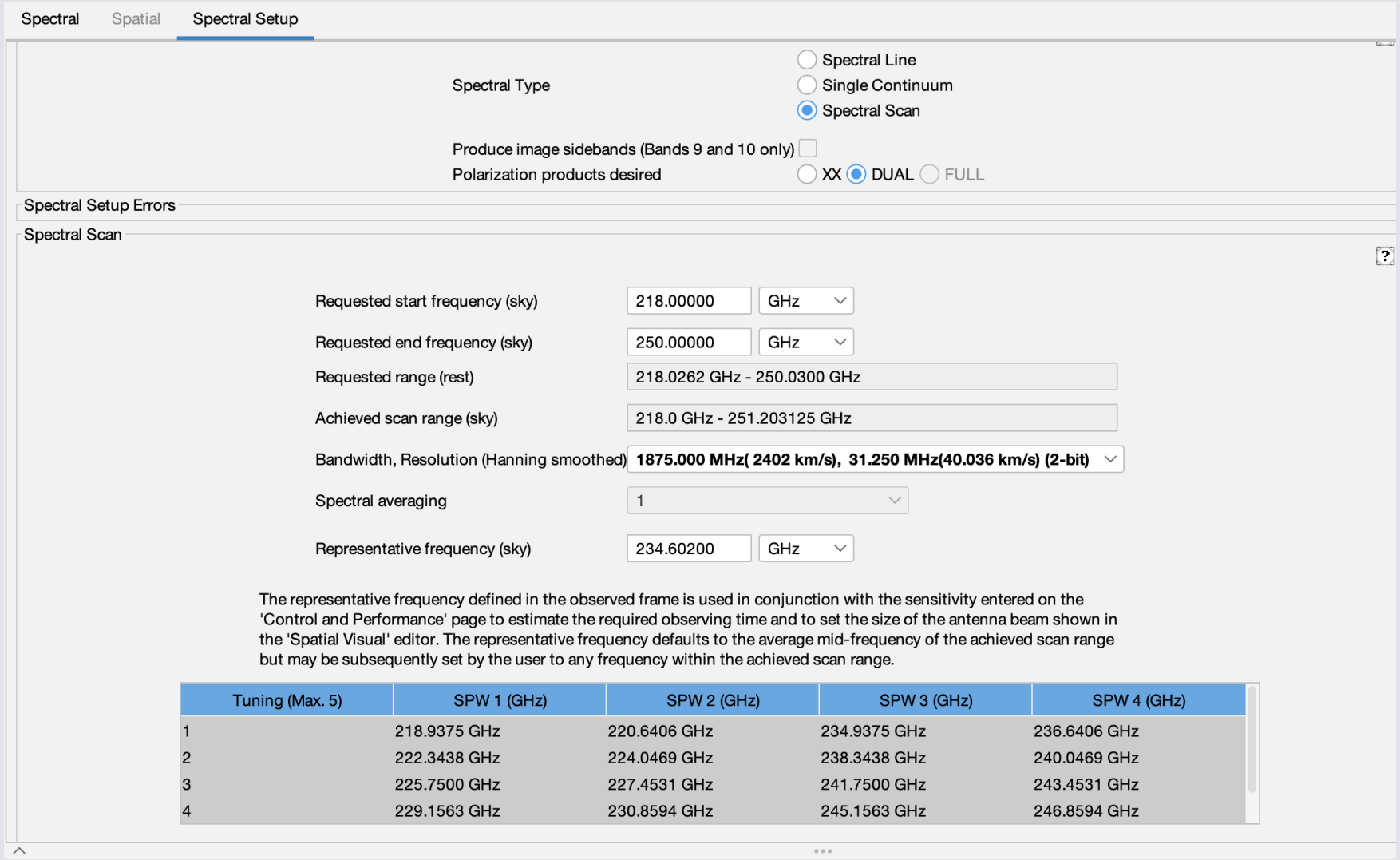




Selected spectral windows can be seen in the observed frequency range in the chosen ALMA band.

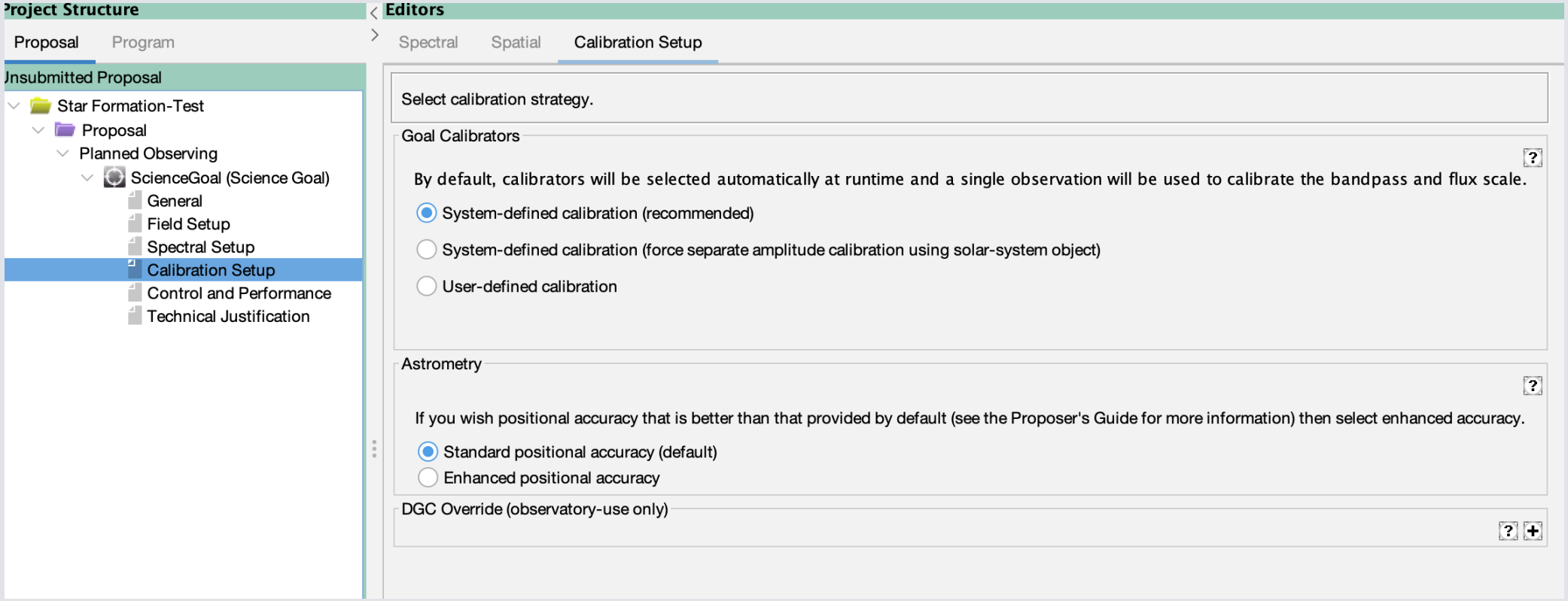


Project>>Proposal>>Planned Observing>>Science Goal>>Spectral Setup 3) Spectral Scan



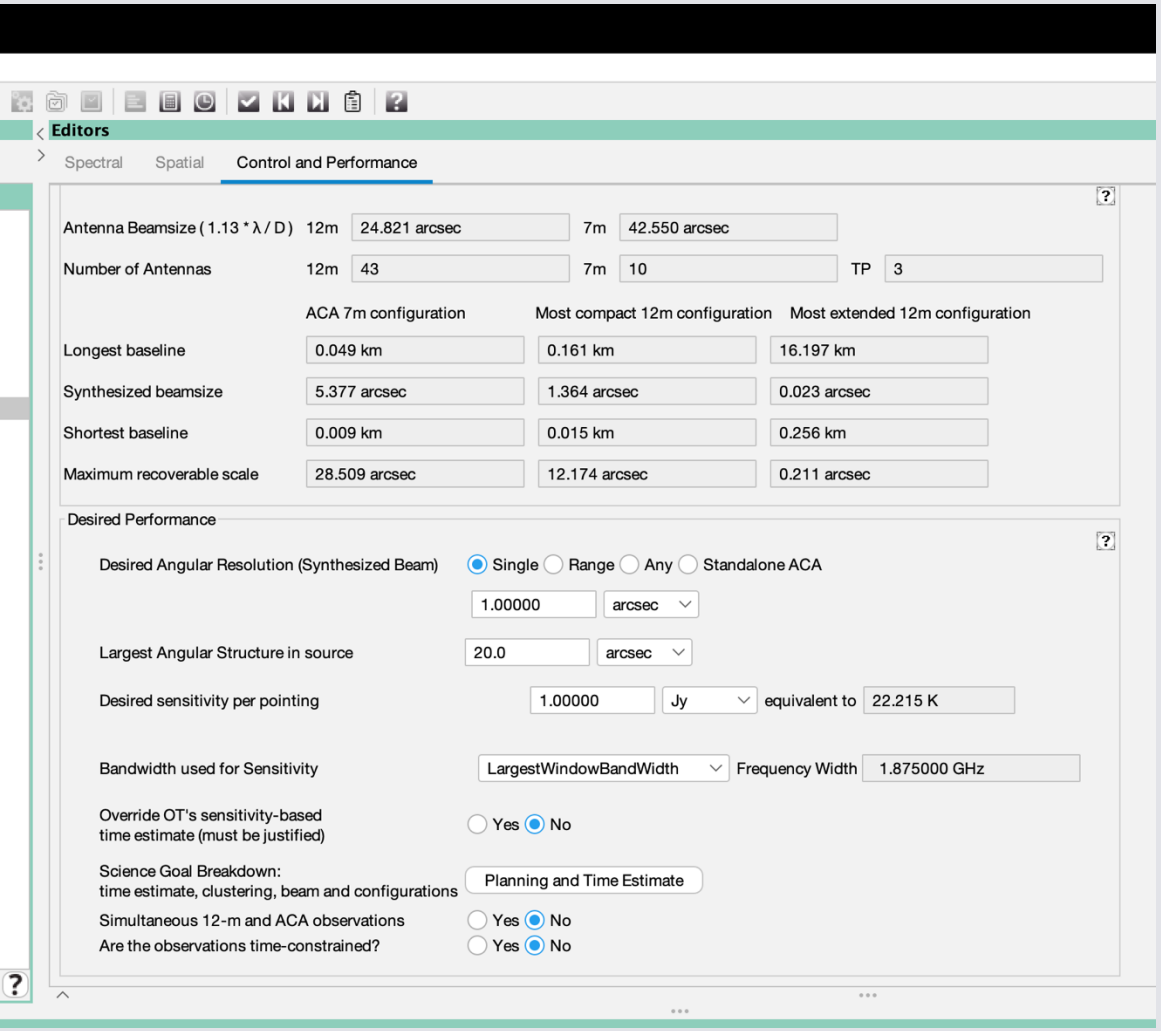
Basically specifying frequency range

Project>>Proposal>>Planned Observing>>Science Goal>>Calibration Setup



Most of the time, the default option is chosen.
However, in the case of increased flux calibration, the second option can be chosen.

Project>>Proposal>>Planned Observing>>Science Goal>>Control and Performance



Decide the best observation features related to your scientific content.

The OT will give you details on the estimated observation.

Angular resolution:
-Giving range for the angular resolution can be the best option if you do not need to specify.
-Goals for source detection can have "any" option.
For extended emission:
The source emission when estimating the peak surface brightness.

Project>>Proposal>>Planned Observing>>Science Goal>>Technical Justification and Submit!