Green Bank Proposal Handling Tool





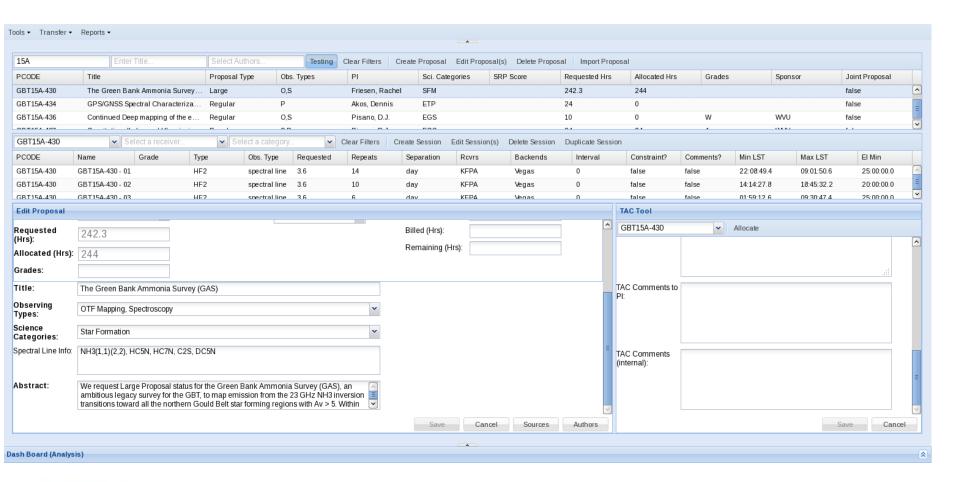
Atacama Large
Millimeter/submillimeter Array

Karl G. Jansky Very Large Array
Robert C. Byrd Green Bank Telescope
Very Long Baseline Array



- Does all the "local telescope" work between proposal submission (PST) and the "NRAO" PHT (TAC meeting display tool)
- Developed in 6 months with 2 software engineers
- Used successfully since 11B semester



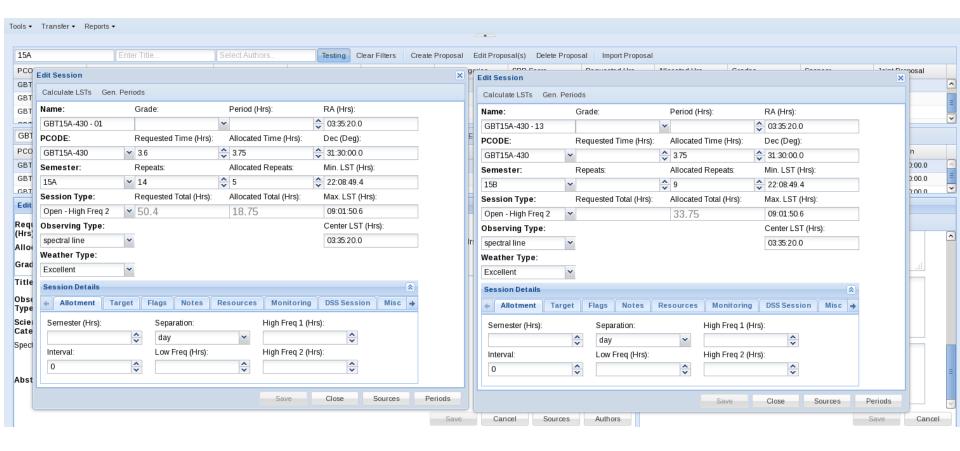




Session Editing

- Allows session editing not permitted in PST
 - Avoids resource and source group issues
- Creation of new sessions
 - Poor RA, Dec source groupings
 - Multiple semesters
- Remove/add sources
 - Source conflict
 - Requested additional sources
- Correction of resources
- Correction of session type (fixed, windowed, elective, open)
- Correction of session weather conditions (poor, good, excellent)



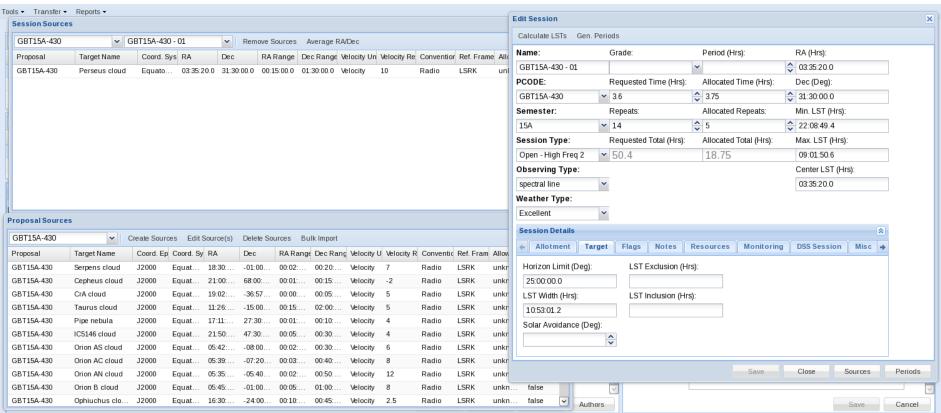




LST Range

- Calculate LST range
 - Average RA and DEC of all sources in session
 - Observer requested
 - Elevation limit



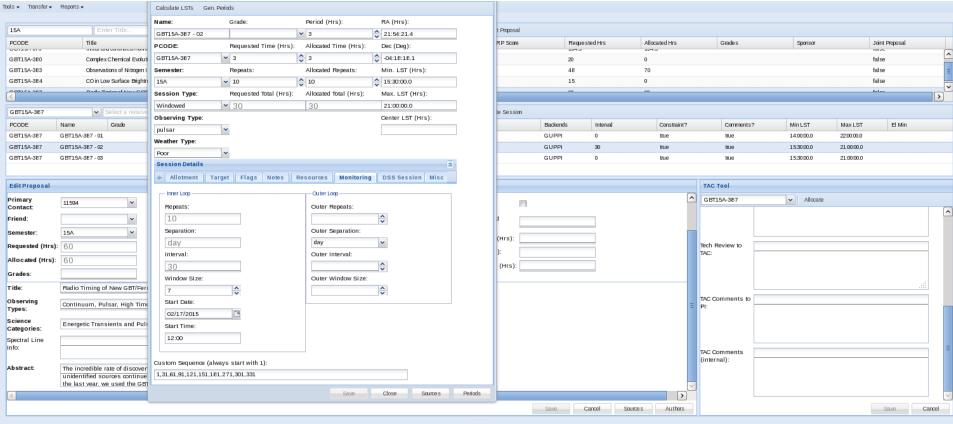




Monitoring

- Windowed (monitoring) and Fixed Date parameters
 - Interval
 - separation
 - Window size
 - Start date/time
 - Inner and outer loop





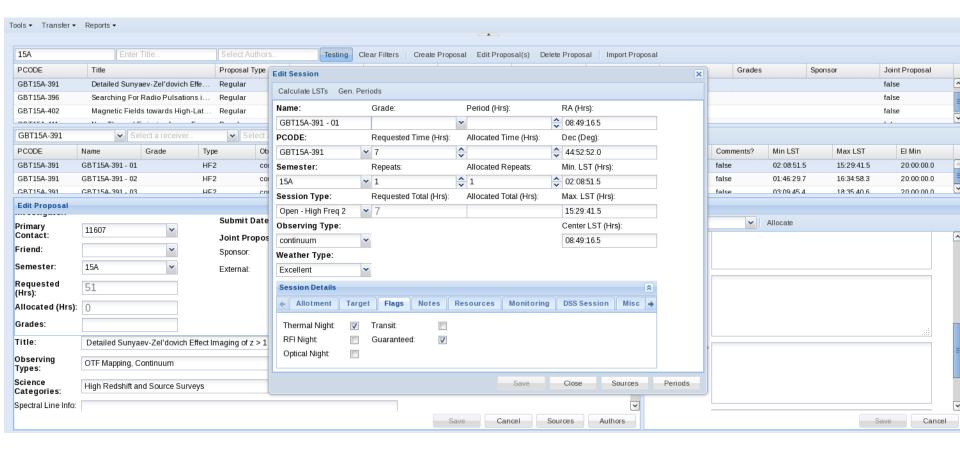


Dash Board (Analysis)

Observing Flags

- Solar avoidance
- Flags
 - Night time
 - Thermal, RFI, and Optical
 - Transit
 - Guaranteed

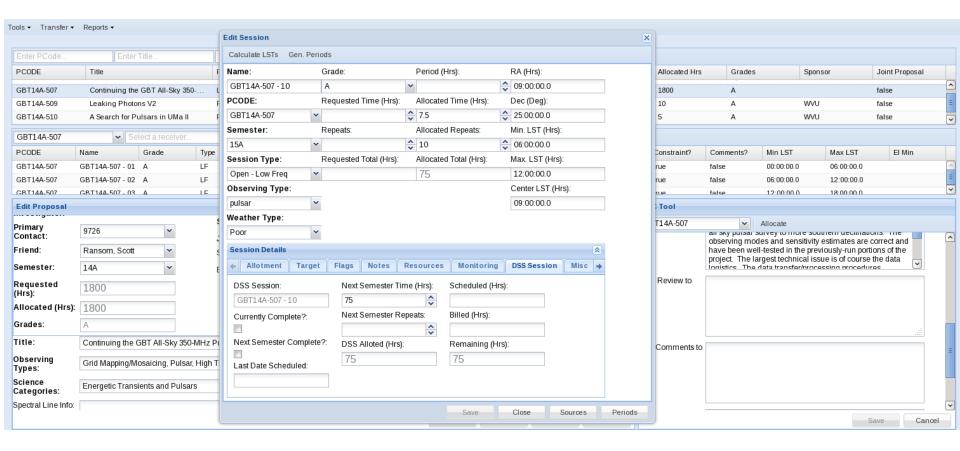






Carry Over

- Carry over settings
 - Complete
 - Complete next semester
 - Next semester time
 - Next semester repeats
- Carry over values from DSS
 - Last date observed
 - Hours allocated
 - Hours scheduled
 - Hours billed
 - Hours remaining

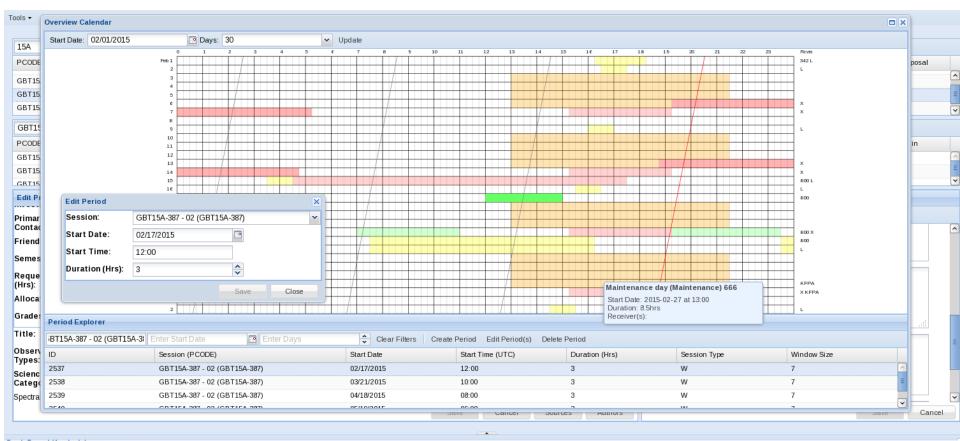




Overview Calendar

- Preliminary semester scheduling
- Needed to know what monitoring and fixed time can be accepted
- Brings in maintenance, shutdown from DSS
- Brings in monitoring and fixed observations from prior semesters from DSS









LST Pressure Plots

- LST pressure plots
- All, poor, good and excellent weather
- Total, by project or by session
- Sponsored viewable or hideable in carry over
- Hide any category









Timeline Plot

Track schedule sponsored time observing







Reports

- Proposal Summary
- Proposal Worksheet
- Semester Summary
- LST Pressures
- Sponsored Proposals
- Export Proposals
- Source Conflicts
 - No restrictions
 - Same receiver
 - Same receiver within proprietary period

TAC Functions

- Assign priority to each session
- Assign project friend
- NRAO comments
- View SRP comments and Technical Review
- TAC comments to PI
- TAC comments to NRAO



Import/Export

- •Import individual proposals or entire semester
- Transfer to DSS
- •All information needed by DSS to immediately schedule observations
- Create database entries needed in ASTRID (GBT observing interface)
- Provides fields to "NRAO" PHT for LST plots
- Provides fields to "NRAO" PHT for disposition letters



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