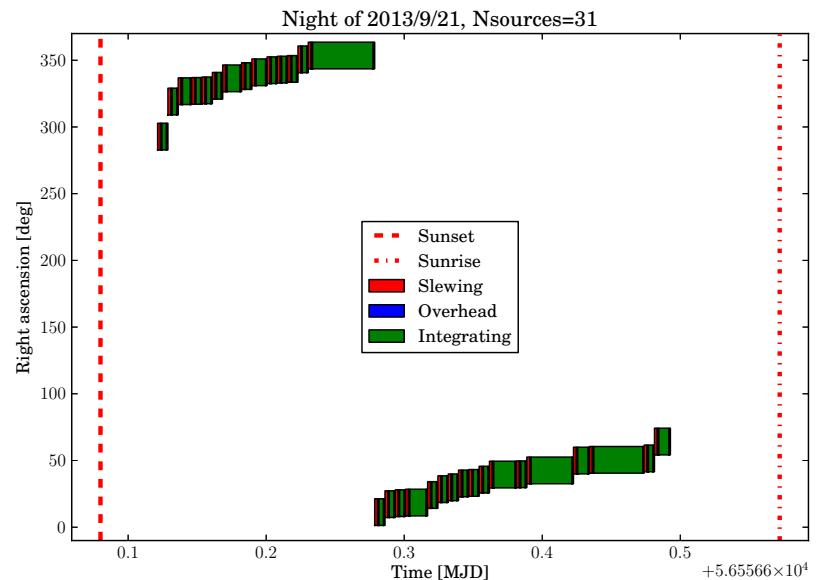
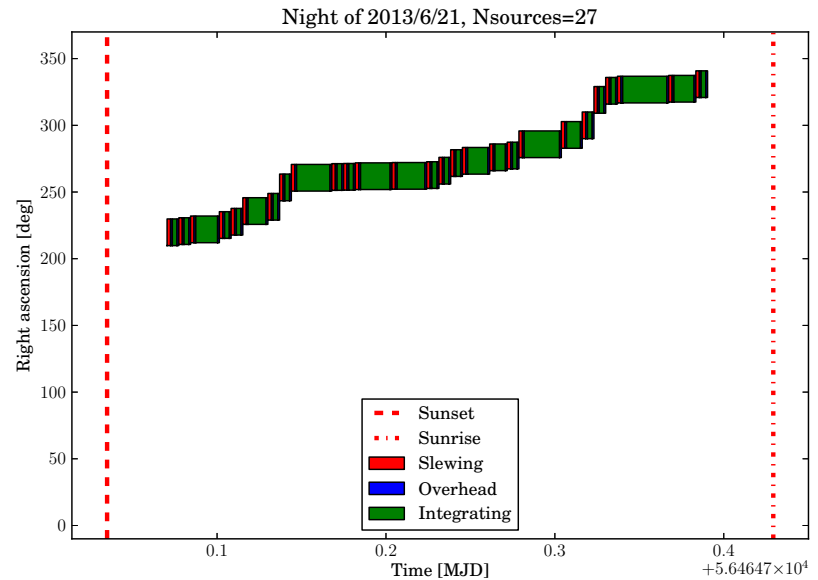


# RoboPol Dynamic Scheduling

# Current scheduling code

- Get meridian transit times for all the sources
- Define start and stop observing windows for each object in the sample (start 30 minutes before meridian transit, stop 30 minutes after)
- Calculate expected integration time for each source
- Discard all sources which approach too close to sunrise and sunset (45 minute window)
- Create initial observing schedule, where every object starts at the beginning of its observing window
- Attempt to resolve any conflicts by shifting the start times
- If conflicts remain, delete lower-priority objects from the list
- Expand observing time by equal factors for all the objects to fill up the night
- Shift again to avoid overlap, breaking the window start and stop times if necessary



# Thoughts

- We are limited by number of sources in sample: with 120 sources, only ~30 are visible on any particular night
  - Determined by sensitivity assumptions
  - Will have to determine actual sensitivity of instrument during commissioning
- Observing plan:
  - Observe every source at least once
  - Devote extra available time to high-priority sources: flaring objects