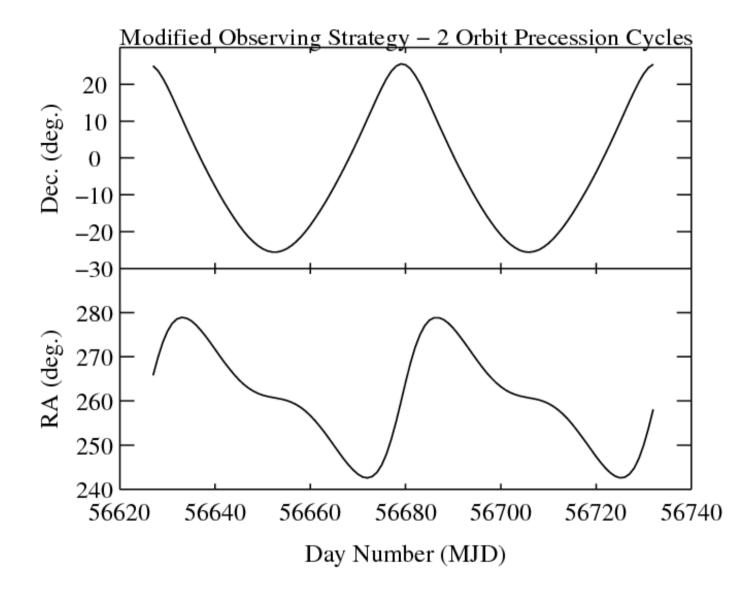
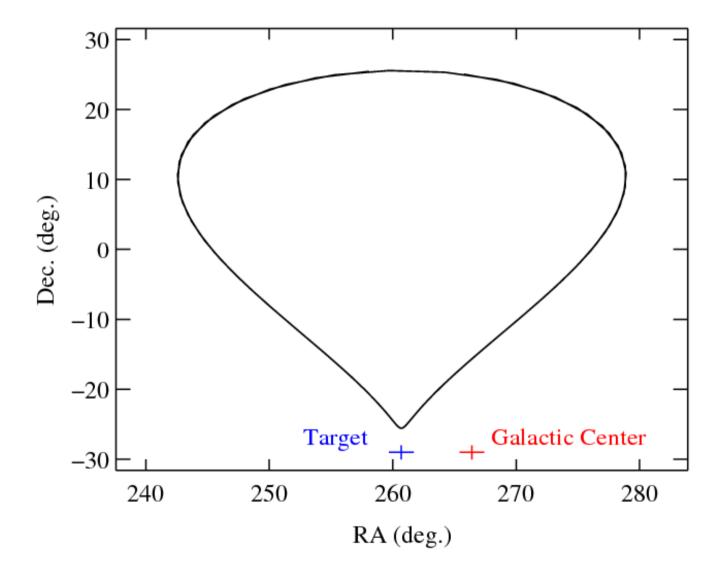
Implementing the Modified Observing Strategy

Robin Corbet For FSSC Operations

New Observing Mode

- Increase exposure of Galactic center while continuing all-sky observations.
- Galactic center (offset by 5° in RA) is the target, but pointing position is kept on orbit plane.
- Interleave with regular sky survey mode during target occultations.
- Initial scheme. (RA fixed):
 - Dec = (pole_dec 90) * cos (RA pole_RA)
- Updated scheme:
 - Target = (Pole x Target) x Pole
 - (Variables are vectors, "x" = cross product.)
- Update pointing direction once per day.





Status

- Observations with modified strategy started Dec. 5.
- But interrupted by TOO observations of Nova Cen 2013 from Dec. 6 Dec. 10.
- Now resumed modified strategy observations.

Implementation

- Takes more effort to schedule than previous simple sky survey. However, time is manageable.
 - Expect some speed-up as we complete one precession cycle and can "recycle" target positions.
- More complicated scheduling gives more potential for errors:
 - timelines double-checked by second scheduler
 - script planned to do checks on timeline e.g. "sanity" of pointing positions, phasing of rock profile.

