Brainstorm on what is required to do queue observing in 2018B.

Observer experience and responsibilities

1. Easy instructions that any certified observer can follow.
2. Instructions must also include troubleshooting and known ‘problems’ and how to get out of them.
3. Simple data quality checking. Bias levels, flat field counts, sky background levels, access to user proposals?
4. Add notes to a log sheet of data taken and some records of cloud cover, seeing, etc.

Capabilities

1. Simple observation blocks, but more complex than what we do now. Multi-band, but also allow dithering. Guiding may be a stretch goal depending on demand.
2. Deliver basic calibration data (bias, flat fields, standard stars).
3. Deliver in-focus images.
4. Deliver fully populated, informative headers.
5. Non sidereal tracking? Let’s see what demand is.
6. Timing: One off, or simple cadences. “Two observations spaced three hours apart during 3 ARTN nights”. “I just want this observation performed once during the semester”.
7. A simple interface for users to submit observations that then spits out RTS2 plans.
8. Automatic logging of night’s activities, which also allows the observer to add comments.

Data archiving

1. Should have simple data archive of nightly observations with observing log & notes, trouble report, calibration data, etc.