

61” Status and Near Term Plans

University of Arizona
Steward Observatory

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61" Kuiper Status

- Next-Gen TCS implemented on the 61" and tested.
- RTS2 implemented on 61".
 - Camera driver written and tested.
 - RTS2 can command the telescope and gather images nearly uninterrupted for a complete night.
 - Astrometry.net server installed and functioning.
 - RTS BB “Big Brother” development ongoing.
 - More RTS2 testing planned for 2018.

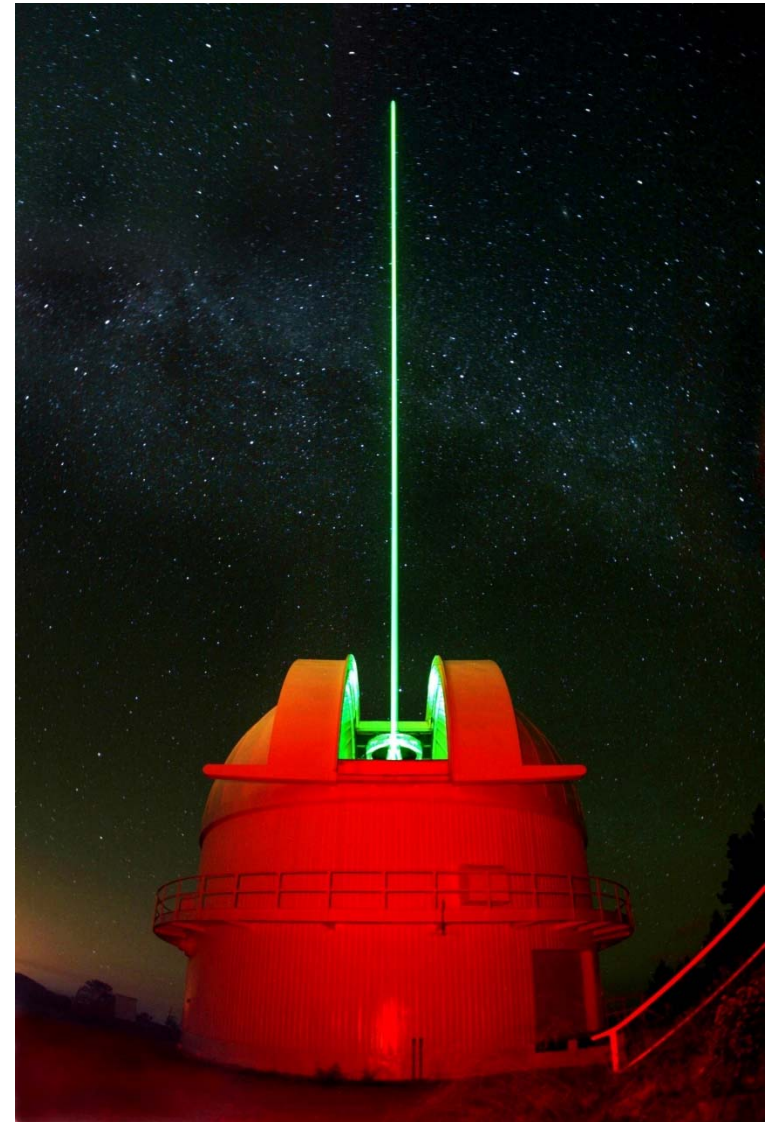


Photo Credit: Dave Harvey

61” Kuiper Near Term Goals

- Winter 2018
 - Complete Science and Technical Requirements (also for ARTN in General).
 - Complete automation of the dome shutter, windscreen and flat field lamps.
 - Prove out un-interrupted queue observing for complete night.
- Spring/Summer 2018
 - Complete and implement human and equipment safety system.
 - Develop RTS2 – BB “Big Brother” for handling requests from broker and overseeing queues of the individual networked telescopes.
- Fall 2018/Winter 2019
 - Commissioning Remote and Automated Observing.
 - Testing of RTS –BB with other networked telescopes (VATT).

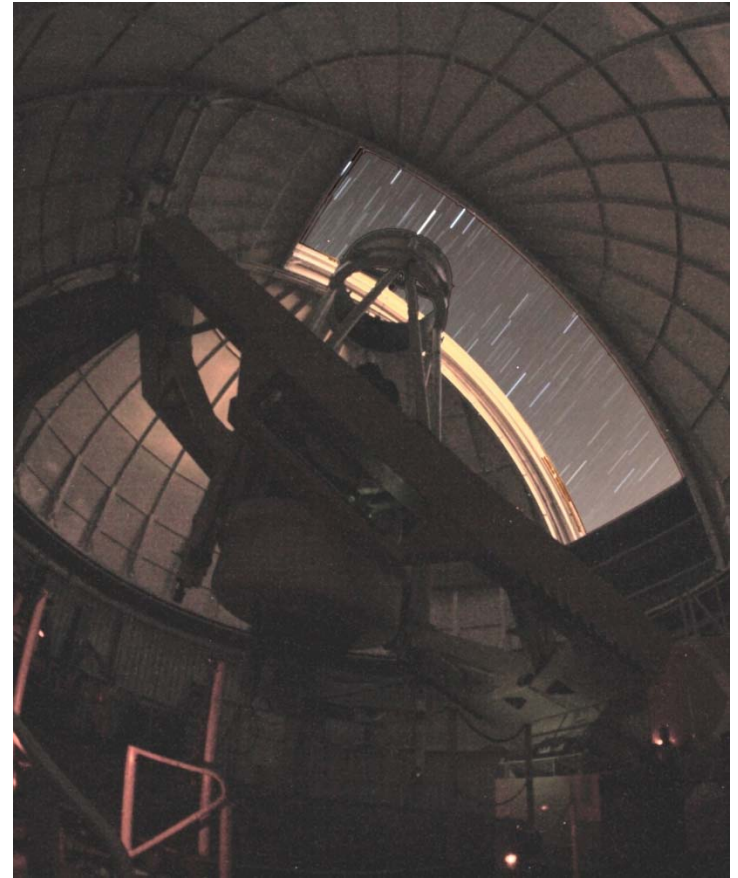


Photo Credit: George Rieke

All goals dependent on available resources and time for testing at the telescope.

VATT and 90" Updates

VATT Automation Status

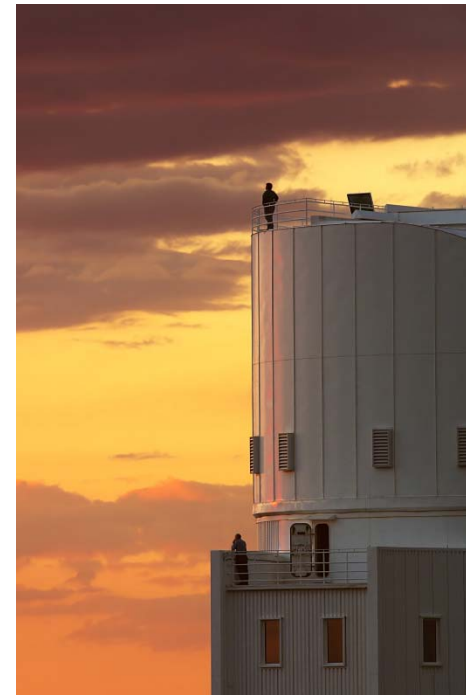
- New azimuth and elevation encoders mounted.
- New Telescope LCU built.
- New Secondary PI Hexapod installed and commissioned.
- Dome control, Oil System, Telescope Peripherals (mirror covers, stow pin, temperature control) all in process.

90" Automation Status

- Some work on the weather station is complete.
- Work will begin in earnest once 61" is complete.



Photo Credits: Dave Harvey



Other Future ARTN Telescopes

- 0.6m Super LOTIS
- 2m MAGNUM
- 40" Mt Lemmon
- 32" Schulman
- Others?



- **Questions and Discussion**