

## Contents

- 1 Revision Log
- 2 Removal of SHOC Science mounting
- 3 Mounting of SHOC commissioning setup (VI stages)

## Revision Log

- 20160815 started by aas

## Removal of SHOC Science mounting

--> Telescope should be set to park position: Nasmyth ports aligned north-south for ease of access to instruments, and derotator positioned such that the "https://topswiki.sao.ac.za/elya solutions" box is in the east.

--> Need allen keys and the SHOC camera cap (which is stored in the wooden SHOC camera box underneath the pier).

- Turn off power to SHOC system.
  - ◆ ssh into the computer and run "https://topswiki.sao.ac.za/sudo shutdown -h now"https://topswiki.sao.ac.za
- Turn of power switch at back of SHOC box.
- Disconnect cables from camera (Andor, power, and GPS trigger)
- Disconnect filter wheel control cables from the filter box (2).
- Remove camera + plate unit, by unscrewing 3 screws in the triangular plate.
  - ◆ Place the camera cap gently over the window. Can screw the cap in lightly with fingertips.
- Remove camera from mounting plate.
  - ◆ remove 4 screws holding the camera to the small plate.
  - ◆ these screws are used in both science and VI mountings
  - ◆ store the window-covered camera off to the side in a very safe place.
- Remove insert plate from front of box, containing ND filter wheel, 9 screws. Place in large plastic filter box.
- Remove broadband filter wheel from side of box. 12 cap screws around the edge. Place in large plastic filter box.
- Remove box from telescope, 8 screws. Be *\*very\** careful of optic in the center!
  - ◆ these screws are used in both science and VI mountings

- Make sure all screws and parts are stored safely and securely!
- Check cabling to ensure nothing will snag with telescope or derotator motion.
- Turn on power on back of box. Turn on computer (button on front).
- To test: use web interface (`shoc1m.suth.sao.ac.za:5000`) or ssh into `shocndisbelief.suth.sao.ac.za`

## Mounting of SHOC commissioning setup (VI stages)

--> Telescope and rotator should be set to park positions: Nasmyth ports aligned north-south for ease of access to instruments and autoguider box up.

--> Have a laptop handy and allen keys.

. No need for the laptop, if you move the X,Y stages to stage 1 = +100 before powering the system down.

- Ensure that power is off to SHOC system.
  - ◆ ssh into the computer and run "`https://topswiki.sao.ac.za`sudo shutdown -h now"`https://topswiki.sao.ac.za`
  - ◆ turn off power switch at back of SHOC box.
- Attach the mounting plate to the telescope port. 8 screws (2 dowels for alignment). Be *\*very\** careful of optic in the center!
- Slightly unscrew the 3 threaded bars on the mounting plate to enable easier spring+cap installation.
- Mount the X-Y and tip/tilt plate by sliding threaded rods into holes. Screw in shoulder bolt, then add (3) springs and caps. Ensure that both of the caps are secure and the threaded rods are sufficiently screwed in (can use pliers to grasp the rods and turn).
  - ◆ if you cannot access a threaded rod because the stages are in the way, the stage cables must be connected, the system must be powered up, and the stages moved. This can be done using a laptop in the dome (via ssh into the SHOC computer). Once completed, everything needs to be powered down again (see the first step).
- Mount the SHOC camera to its faceplate. This uses the same 4 screws as the science setup.
- Just before mounting the faceplate onto the X-Y stages, remove the camera cap cover by carefully unscrewing. Place cap in the wooden SHOC camera box and store box under the pier.
- Check cabling to ensure nothing will snag with telescope or derotator motion.
- Turn on power on back of box. Turn on computer (button on front).
- To test: ssh into `ccd@shocndisbelief.suth.sao.ac.za`. Start xy stage server and then the cli (following Nic's notes or Amanda's cheat sheet).