

What's New at the 90"?

2018

October

22

- [Kitt Peak Weather Websites](#)
- We have re-aluminized the secondary, laser aligned it and collimated the primary. The f/9 focus may have changed a small amount for instruments at cass focus since we made an improvement in the secondary housing by adding cork between the glass and metal structure.

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- Some lights on console do not work, for example Dome Left/Right, Screen Up/Down. These buttons still work correctly, the lights are just out.

September

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- Azcam & Azcam xterm
 - We now only have one computer (Bokccd2) for both the B&C and 90Prime instruments. You sign in using the same username/password as before (azcam/azcam). Bokccd2 has been renamed on the xterm's selection screen as "BokCCD2 Azcam Login" On the desktop after logging in, there are two icons-one for the B&C and one for 90Prime. We will soon have BokCCD4 installed as "Spare Azcam Login", but it hasn't been yet. This will also function for both instruments.
 - Scripts & header templates are now located on the Azcam computer in the C:/data directory. For B&C users they're located in C:/data/bcspec for 90Prime users they're located in C:/data/90prime.
 - There are two desktop icons, one for the B&C and one for 90Prime for Azcam Consoles to access scripts.
 - BokCCD2 issue: This computer has an issue we are in the process of fixing where it will freeze when you try to take the first exposure after turning the computer on after using the Shutdown option on the start menu to turn it off previously. The whole computer freezes, so you have to hard shut down the computer and start again. To avoid doing this, we suggest after turning it on using the power button on the front of the computer, sign in and immediately restart the computer from the start menu. This clears the problem, and you can use the computer normally.
- Always-on Network
 - We have an UPS now that always remains on and is located in the closet behind the computer rack. Plugged into this is a power strip feeding BokPOP, BokAux, the internet

and wifi (renamed Draytek; was TRENDnet), the Young wind sensor and phones. All these will now stay on during lightning shutdown, and you can monitor the weather conditions using BokAux. There is also no need to remove batteries from the phones.

- Weather computer
 - New weather computer mounted to the wall next to the display monitor. While going into lightning shutdown you now have to turn this computer off by minimizing the browser window, clicking the penguin icon on the lower right, and using the power icon shown there to shut it down. To turn it back on there is a power button on the wall mounted computer on the upper left hand side, on the upper edge of the 45 degree bevel.
 - This computer is also password protected. The password is posted on the weather monitor, and the weather computer.
 - There is a dome open/dome closed readout on the weather webpage. This has been around for a while but we thought it was worth mentioning again.
 - Under development currently, we have a place on the weather page to read out the RA oil pressure. It's not quite finished, but we hope to roll that out soon.
- Lightning shutdown
 - We have updated the lightning shutdown procedures on the wiki: https://lavinia.as.arizona.edu/~tscopewiki/doku.php?id=bok_90_inch_telescope, and there are copies in the control room. Please let us know if you notice any inconsistencies and we'll correct them as soon as we can.
- IP addresses
 - Thanks to Jeff Rill for putting together this summary (copied & pasted from a previous email) of changes to IP addresses that happened recently and their benefits:
 - The outside public address of the 90" is now 140.252.86.113 (was 140.252.86.128)
 - The NTP Time Server is now 140.252.86.114 (was 140.252.86.106)
 - The Young wind sensor near the 36" is now 140.252.86.115 (was 10.30.3.10)
 - These changes will have several benefits:
 - Ability to use the Control Room Wi-Fi anytime
 - Allow the SuperLotis to see the Young Weather Sensor when the 90" is shutdown
 - Keep at least one of the Control Room telephones working all the time
 - Allow access to 'bokpop' from outside the 90" for various tasks
 - Allow the Aux-PC to be used during a shutdown to see radar maps
- New Console UPS
 - A new Console UPS has been installed in the computer rack in the control room. To turn this on and off you have to hit the power button and then use the arrow and OK buttons to choose "Turn Off Immediately" or "Turn On Immediately". Just using the power button will not turn the UPS on or off.
 - There's a newer computer mounted to the bottom of the IIS called BokCCD5, that's been around for a while, but there's some things worth mentioning.
 - Both Bokccd5 and Bokccd2 have to be on for the B&C to work.
 - When turning on/off Bokccd5 use the small grey button and hold it down until it turns off. Also, the "on" light comes on sometimes, even when it's not really on. Make sure after turning it on you hear beeping, otherwise you're going to have some connectivity issues with Azcam.
- 90Prime users
 - You may notice your focus values have changed since downtime, Greg has worked on the actuators since you've used it last.
 - On the 90Prime guider there is currently a strange blob. We are going to address it before 9/17. Please let us know if you need to use it before that.

March

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- New Weather PC installed (note: password needed to boot up, it's posted on the PC box and monitor)

February

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- TCS Console is now powered by the Control Room UPS mounted in the rack.

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