

What's New at the 90"?

2020

February

3

- New Liquid Nitrogen Policy implemented, see the top of the [Bok wiki homepage](#)

2019

Changes Coming out of Summer Shutdown 2019

- **KP site**
 - Both windscreens at the 90" are now functional
 - Bokwalk resealed, and no longer leaks. New ceiling installed in second floor electronics shop.
 - Road going to dorm is finished being patched, barricades are no longer present.
 - Starting the week of 9/30, Ron Gayler will be living in the North apartment onsite with plans to move into the resident's house ASAP. He is planning on working M-F, 8 hour days.
 - We have a dedicated KP custodian, Cruz Mancha, who will be taking care of custodial needs for the 90", our site, and the 12m.
 - We currently have no weekend coverage on the mountain.
 - Smoke alarm upgrades are complete in the upper dorm.
 - Phone numbers are no longer on the 90" white board in control room. Please find numbers in green phone binder.
 - New oil pressure readout on weather page in 90" control room. The power plug for this is located in second floor pier room. It's plugged into a tan power strip, and the power strip needs to be unplugged for lightning shutdown.
 - New trouble reports; all links on control room computers have been updated. New trouble reports look very similar to old ones.
- **B&C**
 - After reports of images shifting last semester by Betsy, we took apart the B&C and tightened up the collimator. Tightening and blowing off optics "resulted in about 25% more throughput from 3600A to 6900" according to Betsy's trouble report.
 - Newest version of Azcam working.
 - Bokccd2 still freezes after lightning shutdown. Immediately restart computer before starting Azcam.
- **90Prime**
 - Brake installed on filter wheel. Can now turn off 90Prime System Power rotary switch at any location, though we still only recommend turning power on and off at stow.
 - All 90Prime filters were cleaned.
 - Newest version of Azcam working
 - Bokccd2 still freezes after lightning shutdown. Immediately restart computer before

starting Azcam.

March

22

- Updated checklist for certifiers and updated form for observer certification. Only applies to certifiers.
- New “What's new for certifiers” page to better keep certifiers informed. Only applies to certifiers.

February

15

- The lower windscreen is not operational, do not use.
- The furnace in the lower dorm is out of order, do not use. We have provided oil filled radiators to be left on all the time, and there are space heaters for use only while you are awake and in the dorm. **Fixed**
- There is an open trench on the road that it next to the dorms. There are barricades and caution tape, but please use caution when walking around there (especially in the dark).
- Siding on dorm is going to be repaired. **Fixed**
- Added [Fire Safety Procedure](#) to the requirements for certification. Please follow the link and look those over.
- Windvane not in use at the moment, please use the handheld anemometer on the Bokwalk and compare to WIYN data. **Fixed**

2018

December

10

- 90Prime users-the only place now allowed to turn off the two rotary switches on the black computer rack labeled “90Prime CCD” and “90Prime System” is at stow. At any other locations doing this can cause a filter jam and the loss of a night.

October

22

- [All Sky Cameras](#)

- 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.

19

- 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

6

- 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

16

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

February

18

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

From:

<https://lavinia.as.arizona.edu/~tscopewiki/> - **MOON**

Permanent link:

https://lavinia.as.arizona.edu/~tscopewiki/doku.php?id=public:kitt_peak:bok_90:what_s_new_at_the_90

Last update: **2020/02/27 13:31**

