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SHARK 20230112 Overview

1 message

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To: AO Operations <aoops@lbto.org>

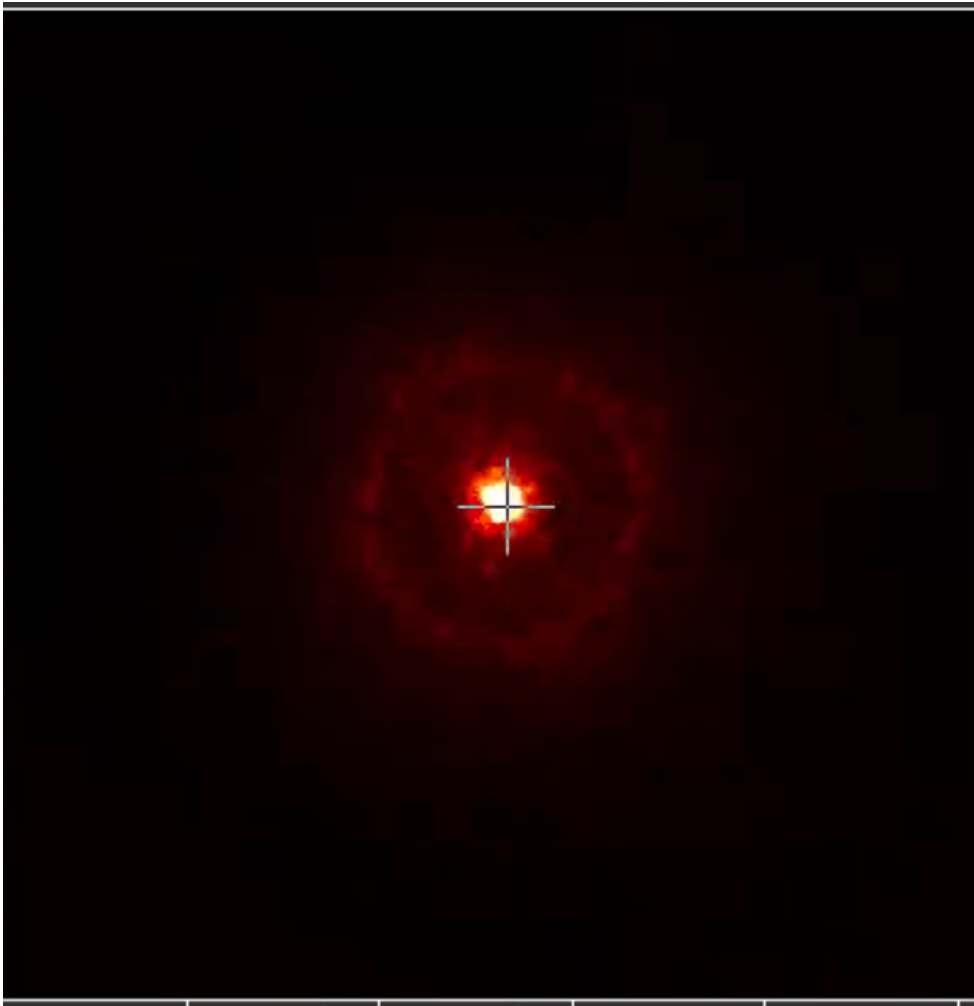
Thu, Jan 12, 2023 at 6:10 AM

Hi All,

Shark NIR and Forerunner have wrapped up. Just a few notes from the SHARK run and notes about last night's woes.

SharkNIR had a very productive night on sky, even executing a few tasks originally slated for the next comm run. Mask centering procedure worked well and they obtained an hour of data on a gaussian coronagraphy target. Despite 3 nights lost to weather this was a very productive run (to quote Jacopo ;)). They pass along their thanks for the support.

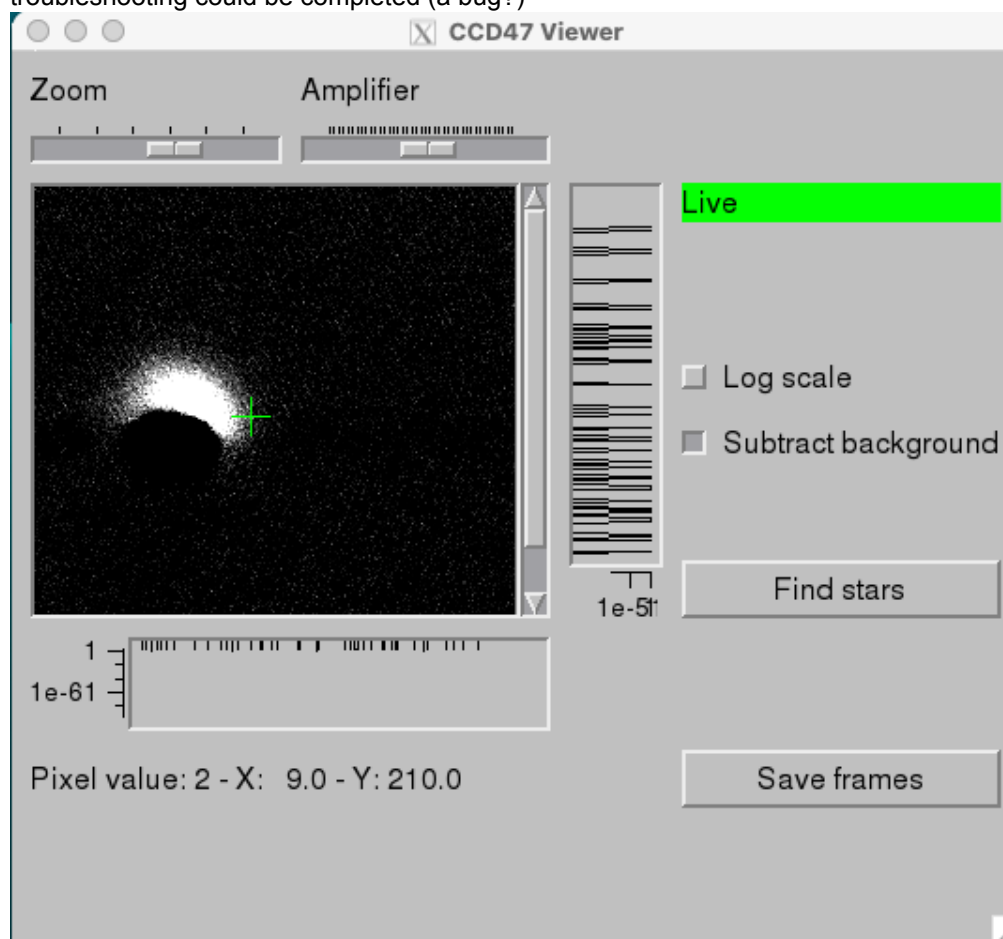
Forerunner took several data sets in mediocre seeing on AB Aur. The focus was refined as well as field centering. The target of interest had minimal field rotation by the time seeing and clouds had improved so they opted not to continue taking data. But they seemed quite happy with the performance of SOUL and the quality of the data obtained.



A few WFS and adsec hiccups tonight:

At the start of the night, the DX frame counter was not incrementing. This switch BCU comm issue was resolved with

an adsc_stop/start. I also noted an odd vignette on the DX WFS that fixed itself before a more in-depth troubleshooting could be completed (a bug?)



SX had a number of issues with the BCU2K becoming unpingable (IT8637). Two instances required physical intervention, where Jared and Tim went to the telescope and reseated a connector. But several were brief and resolved themselves, more frequently noted at elevations 50-60deg. Not sure if that means anything. Each instance of the BCU2K becoming unpingable, the OCAM2K would go not live. The WFS would show open loop while the adsec would show closed. To recover on pingable again, the OCAM was rebinned and params reset, then the adsc, wfs, and AOS were sync'd into close loop. Reoptimize typically wrapped up the recovery. One instance the WFS frame counter stopped updating when trying to close loop and the adsc stopped start was required followed by a cycle of the WFS BCU2K to recover. Alessandro mentioned that there were plans to replace the problematic connector with a soldered connection. Hopefully that will resolve these BCU2K issues.

Log:

<https://docs.google.com/spreadsheets/d/1JvcjpwqMm5UdDt4harK55P1DY63-tnvlsB1e4F3HS7E/edit?usp=sharing>

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