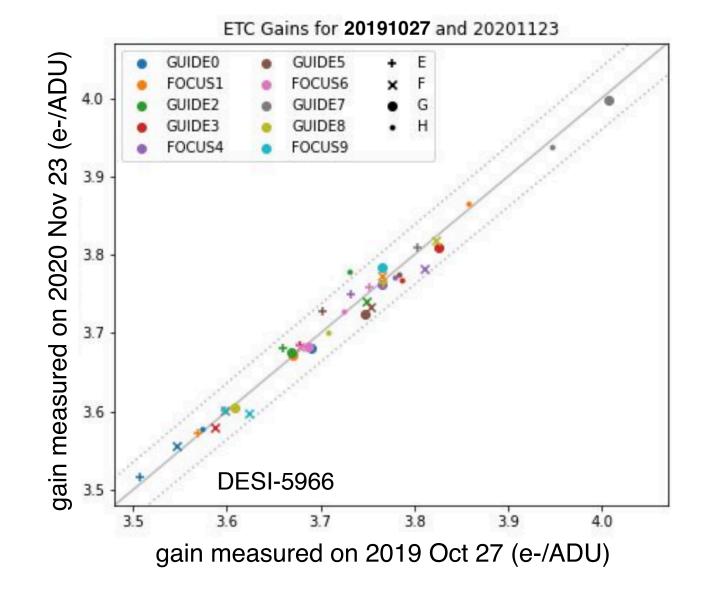






GFA re-characterization

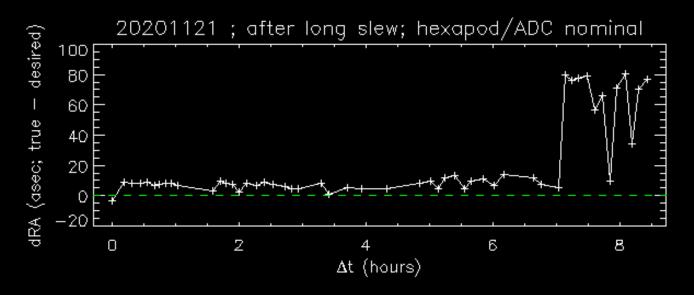
- Re-verify guide-focus-alignment (GFA) camera performance
- Gather various basic data sets (darks, biases, dense stellar field for photometric zeropoints, ...)
- Gains and throughput consistent with fall 2019 to within ~1%, similar read noise and A/D conversion

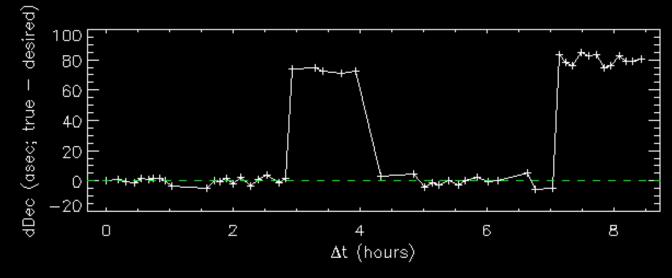




Pointing model validation/improvements

- 2020 pointing maps showed occasional pointing offsets of up to ~1 arcminute
- Traced to blips in communication between telescope servos and control system software
- New pointing map from 20210225 verifies that such occurrences have now been eliminated



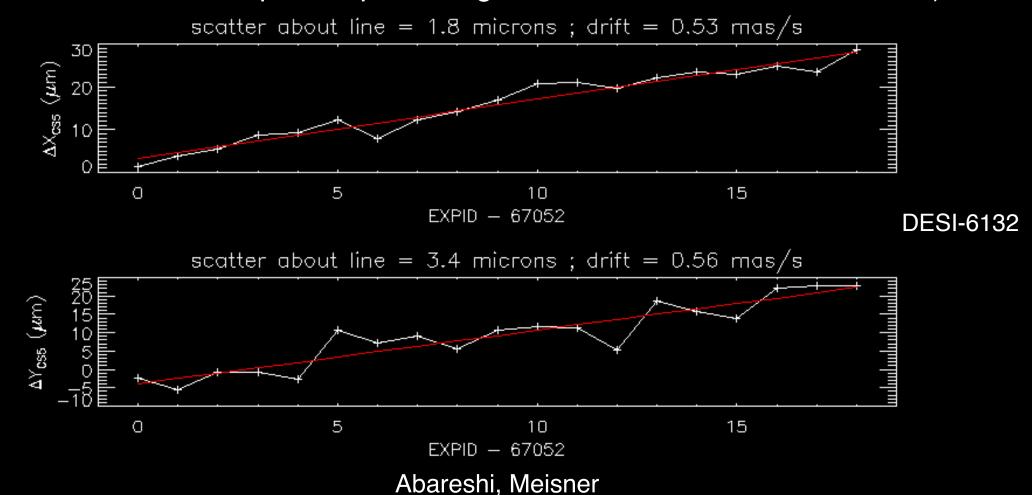




Pointing model validation/improvements

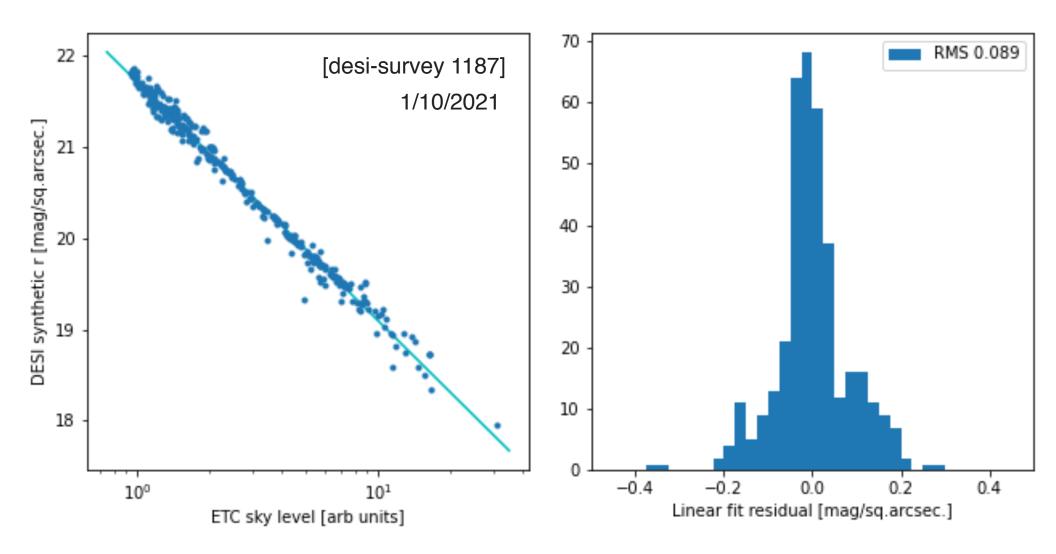
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 Current pointing model has excellent performance (pointing offset RMS of a few arcseconds, open loop tracking drift <~ 1 milliarcsecond/second)



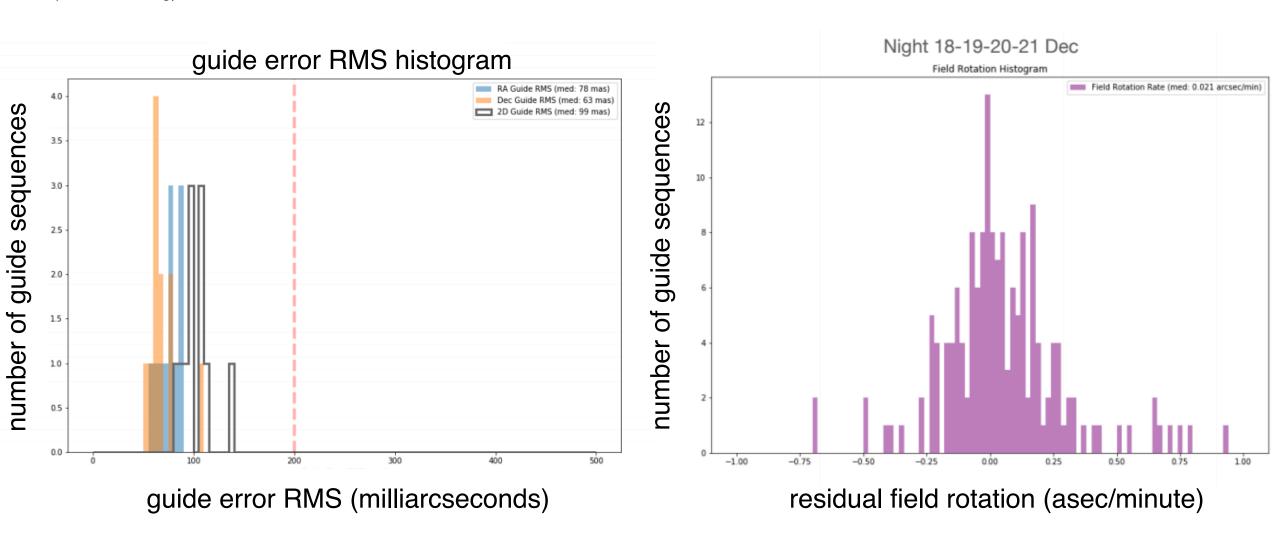


Sky Monitor sky brightness



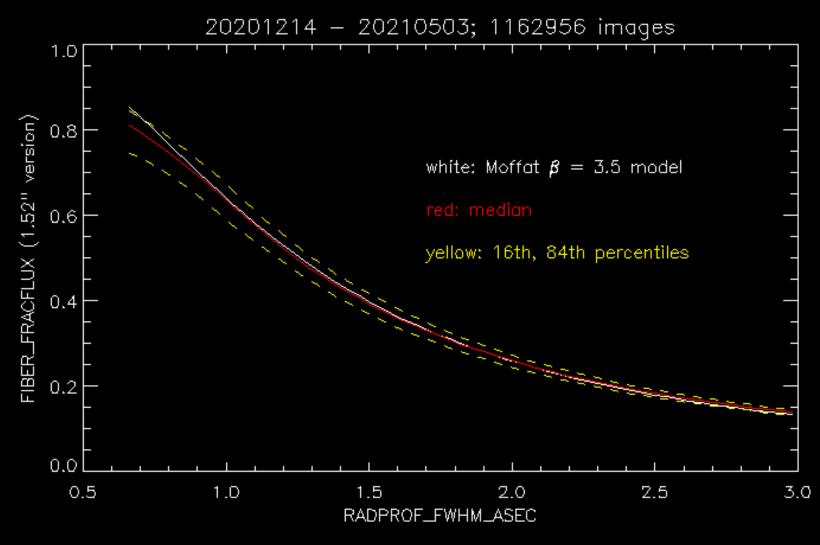


Guider performance and field rotation



Active Optics System validation

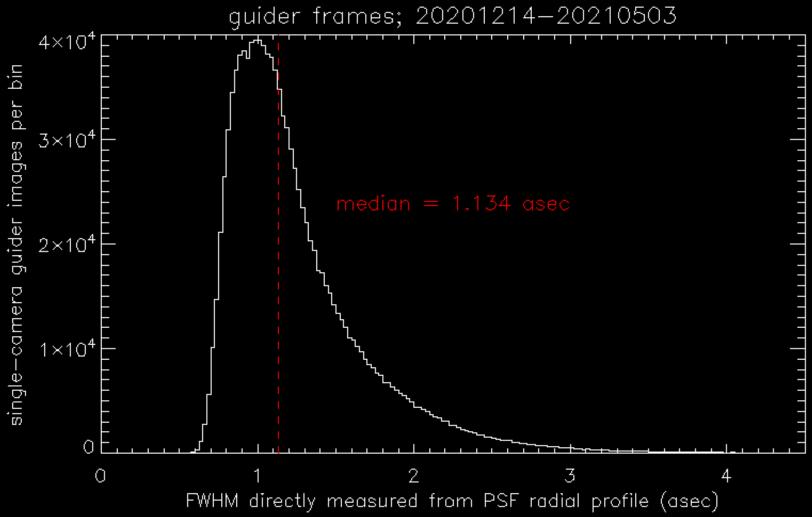
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Active Optics System validation

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DARK ENERGY SPECTROSCOPIC INSTRUMENT

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