

FinalCut Changes

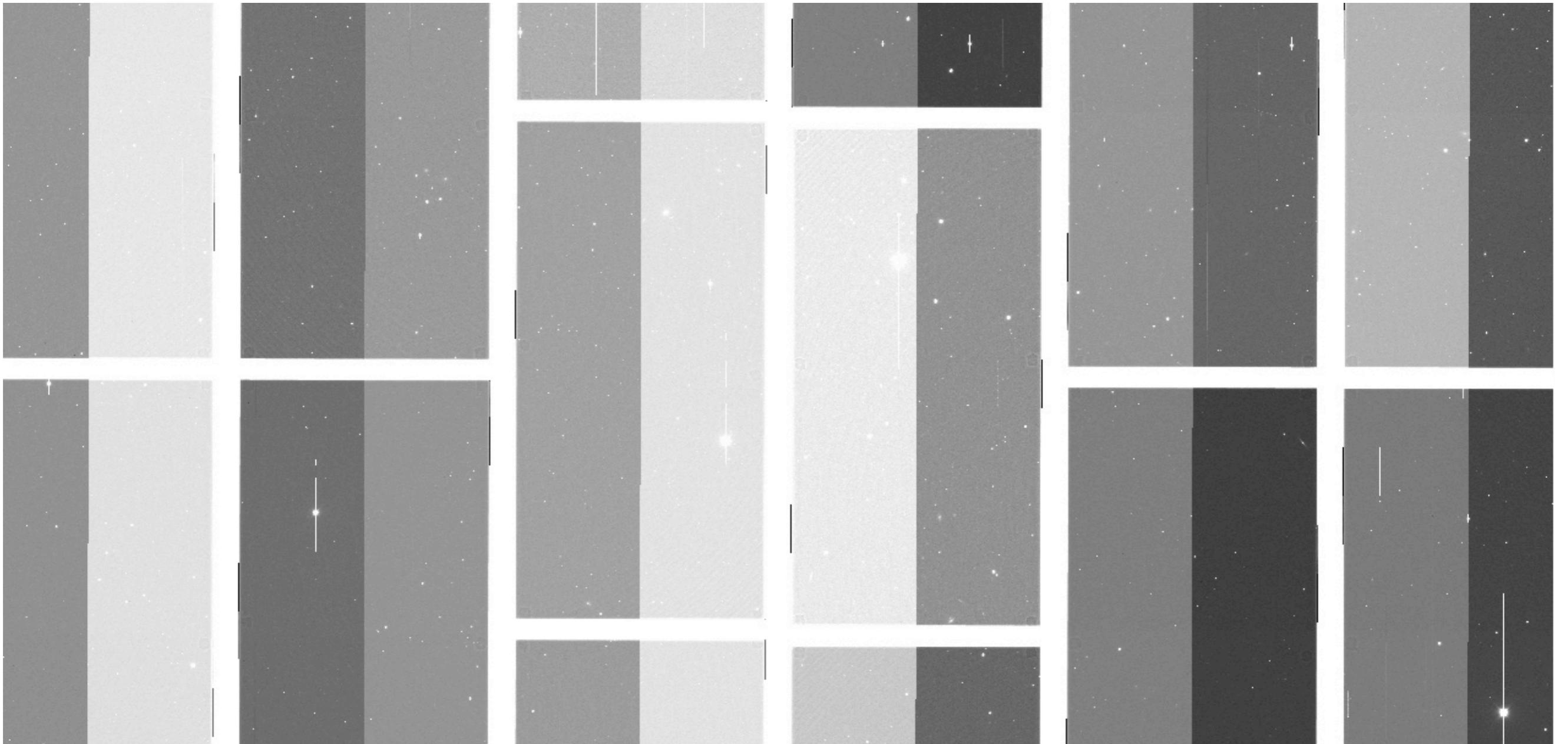
(very broad picture)

The Steps

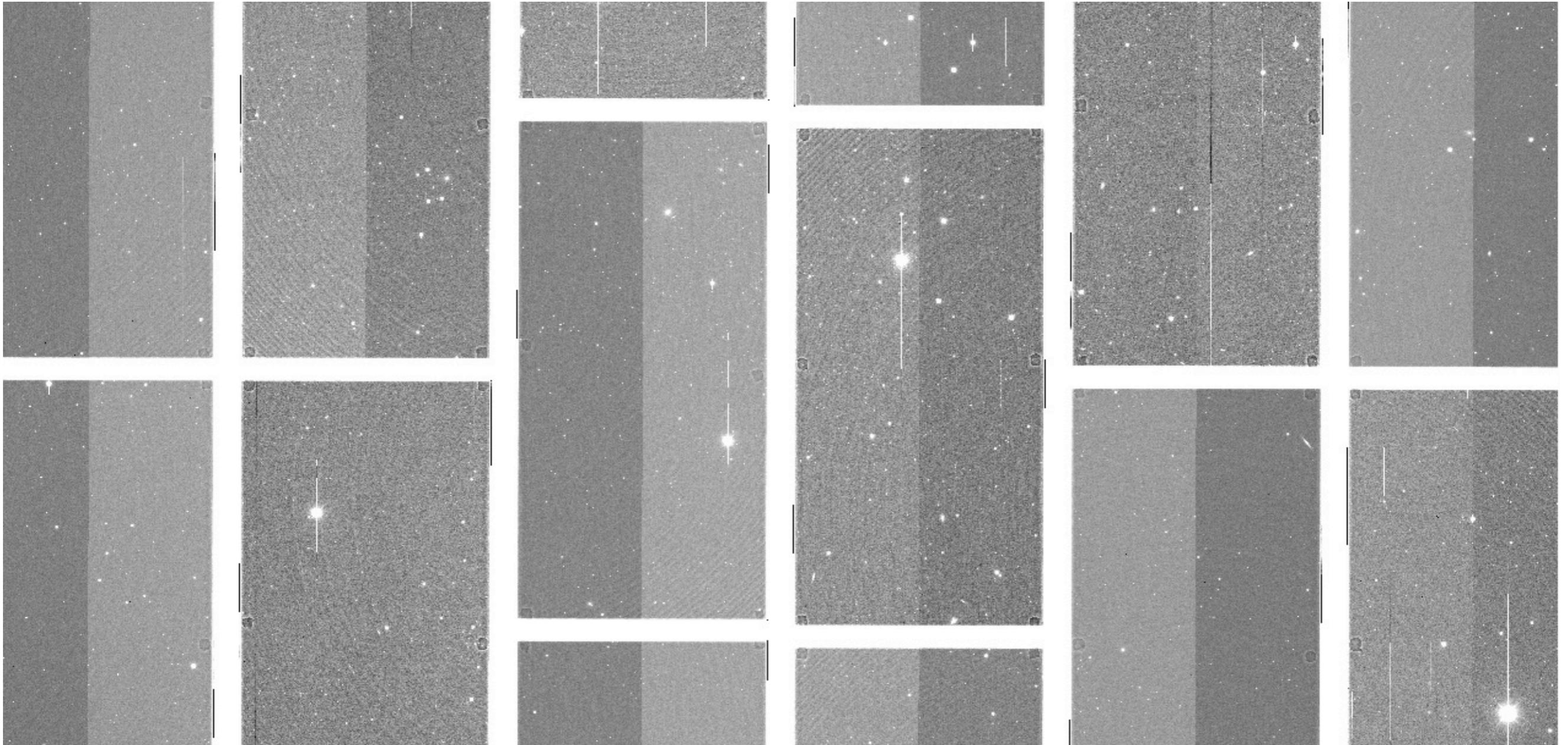
- cross-talk
- pixcorrect (flat/bias/resaturate)
- super-alignment
- bleed-trails
- sky fitting
- sky subtraction
- immask

An Example with DECcam

Section of "raw" data from DECam



cross-talk correction



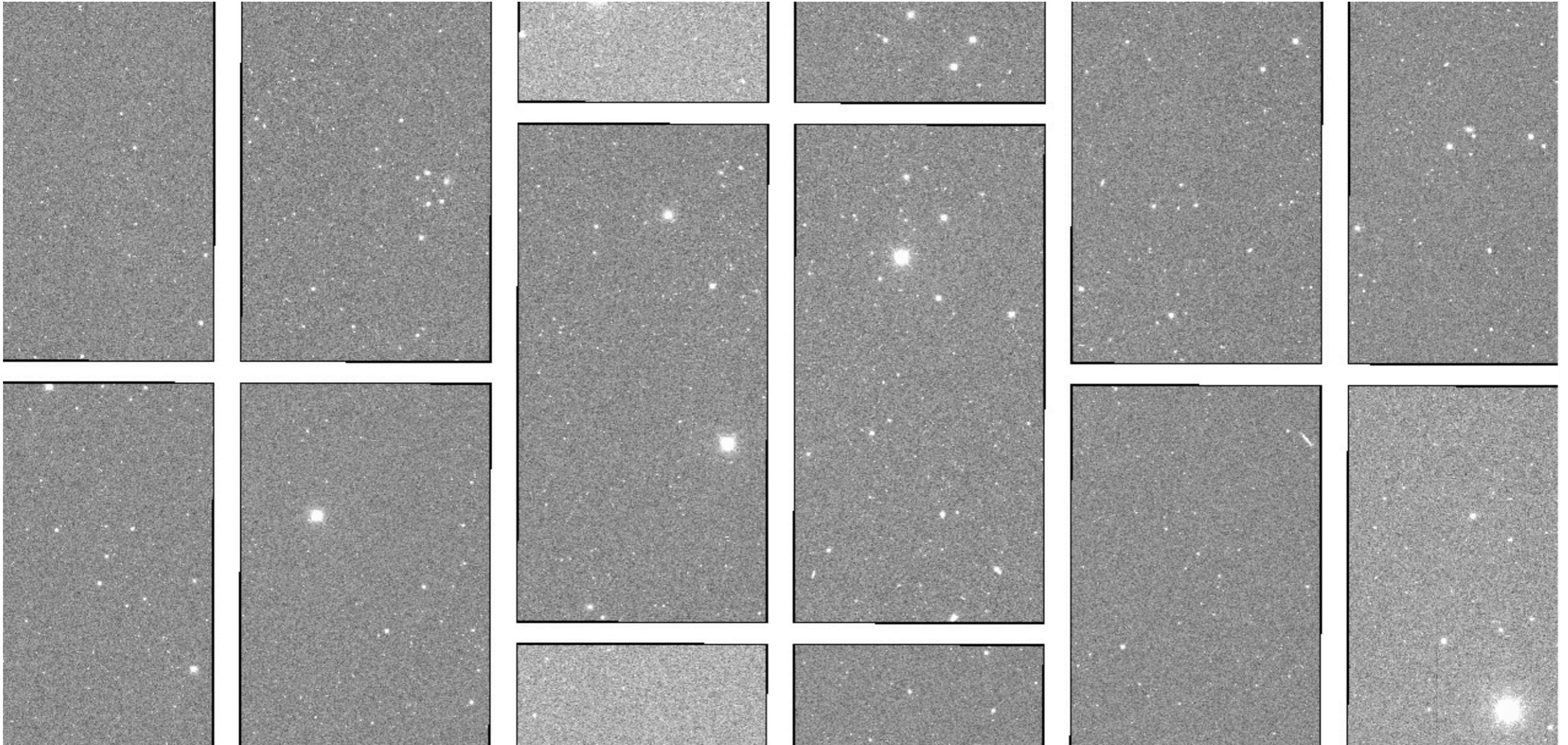
Bias and Flat corrected



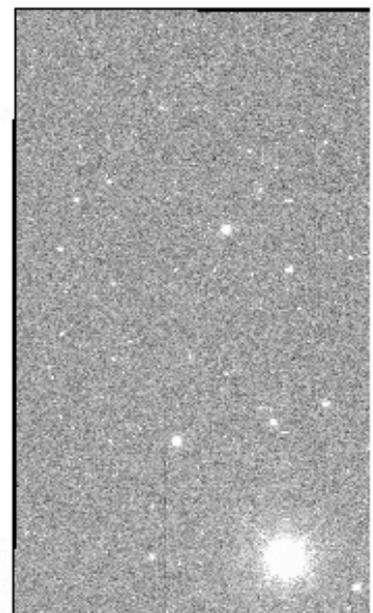
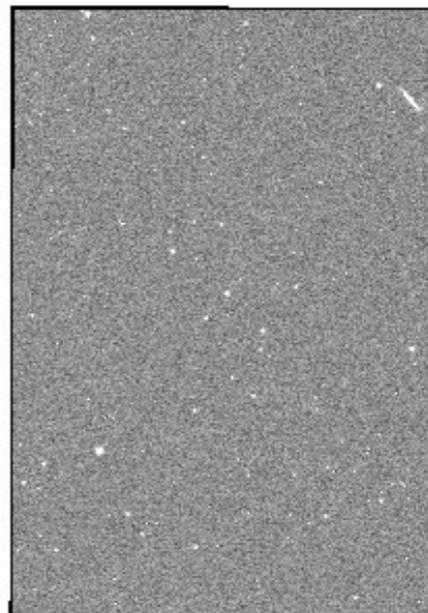
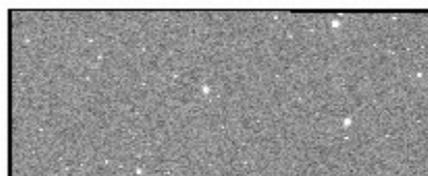
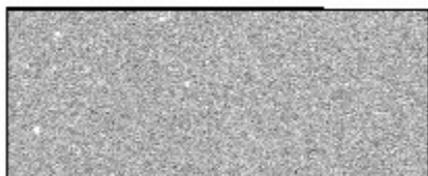
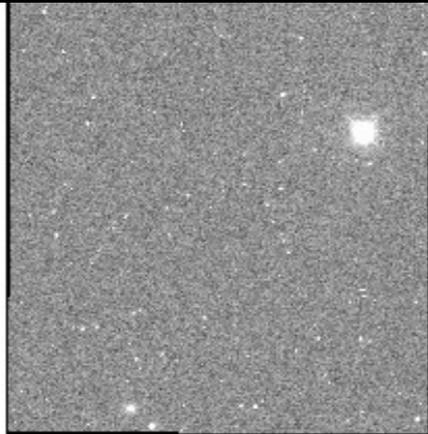
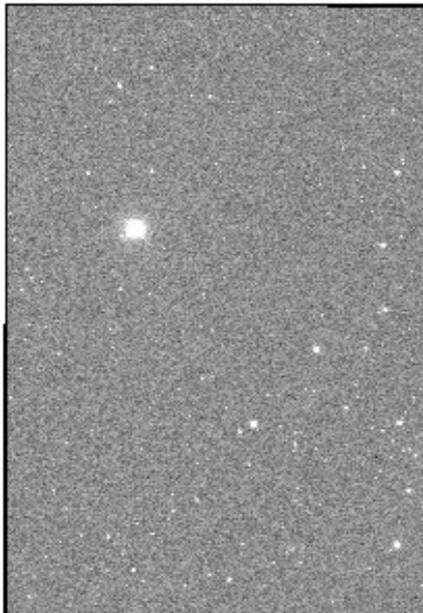
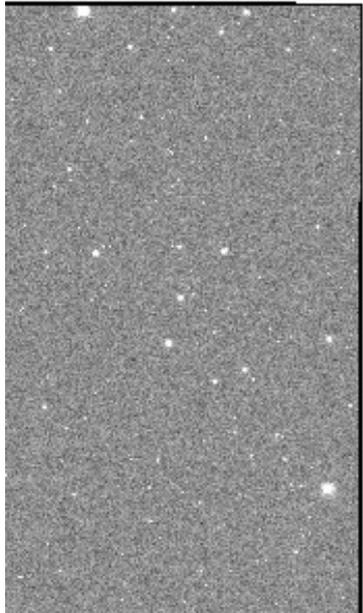
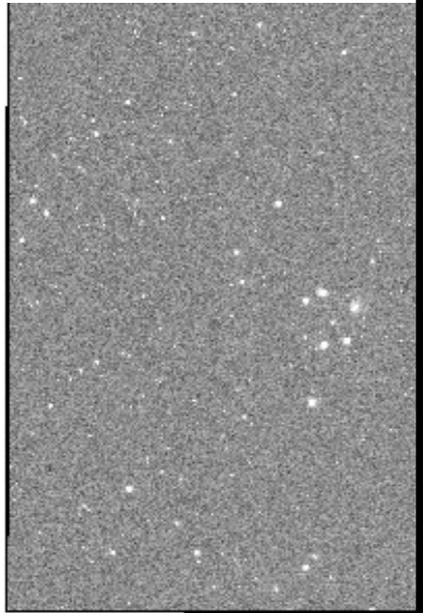
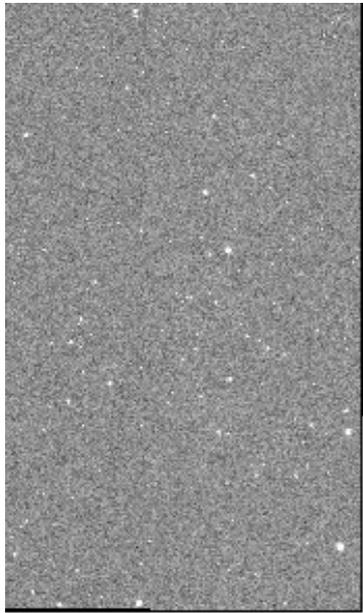
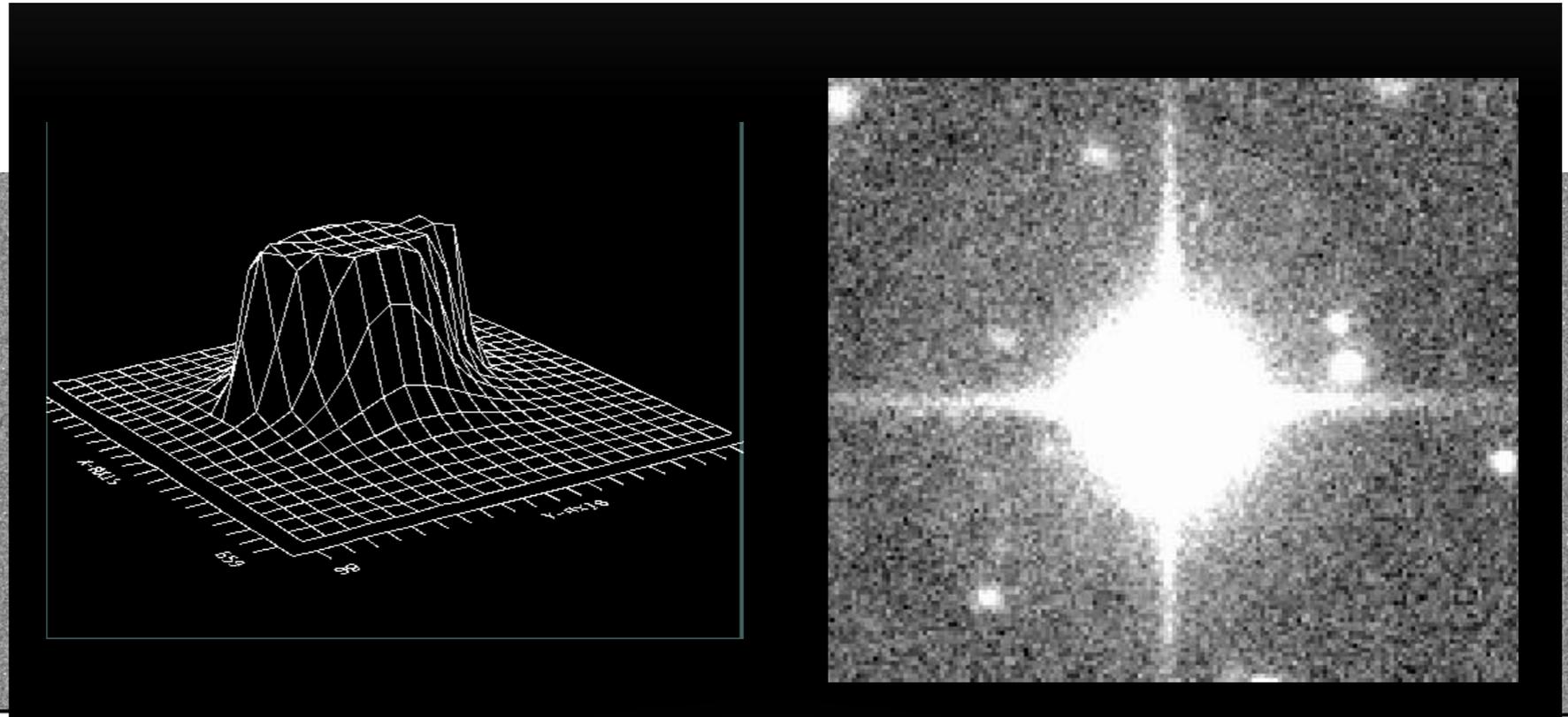
Astrometric Alignment



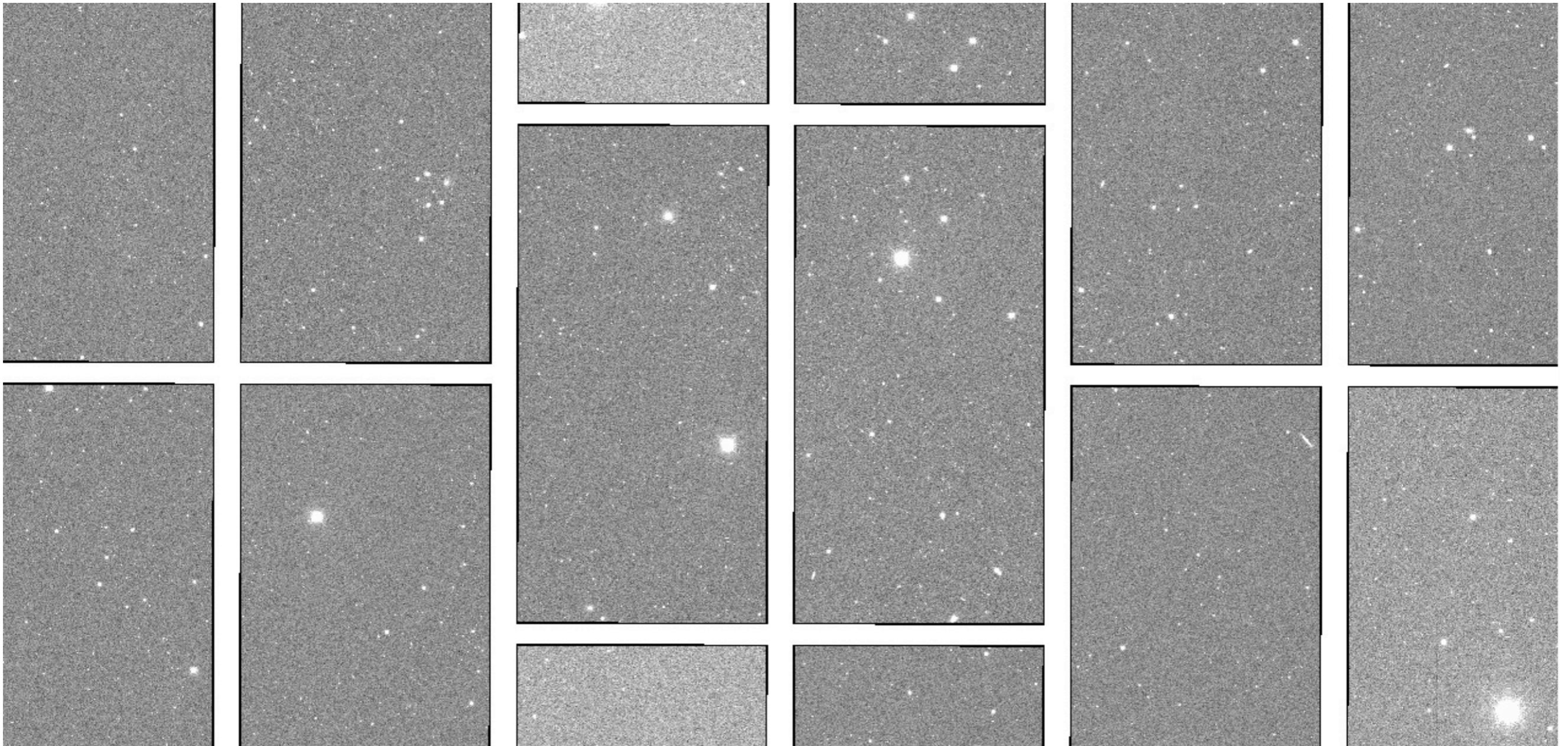
Bleed Trails (saturated stars)



Bleed Trails (saturated stars)

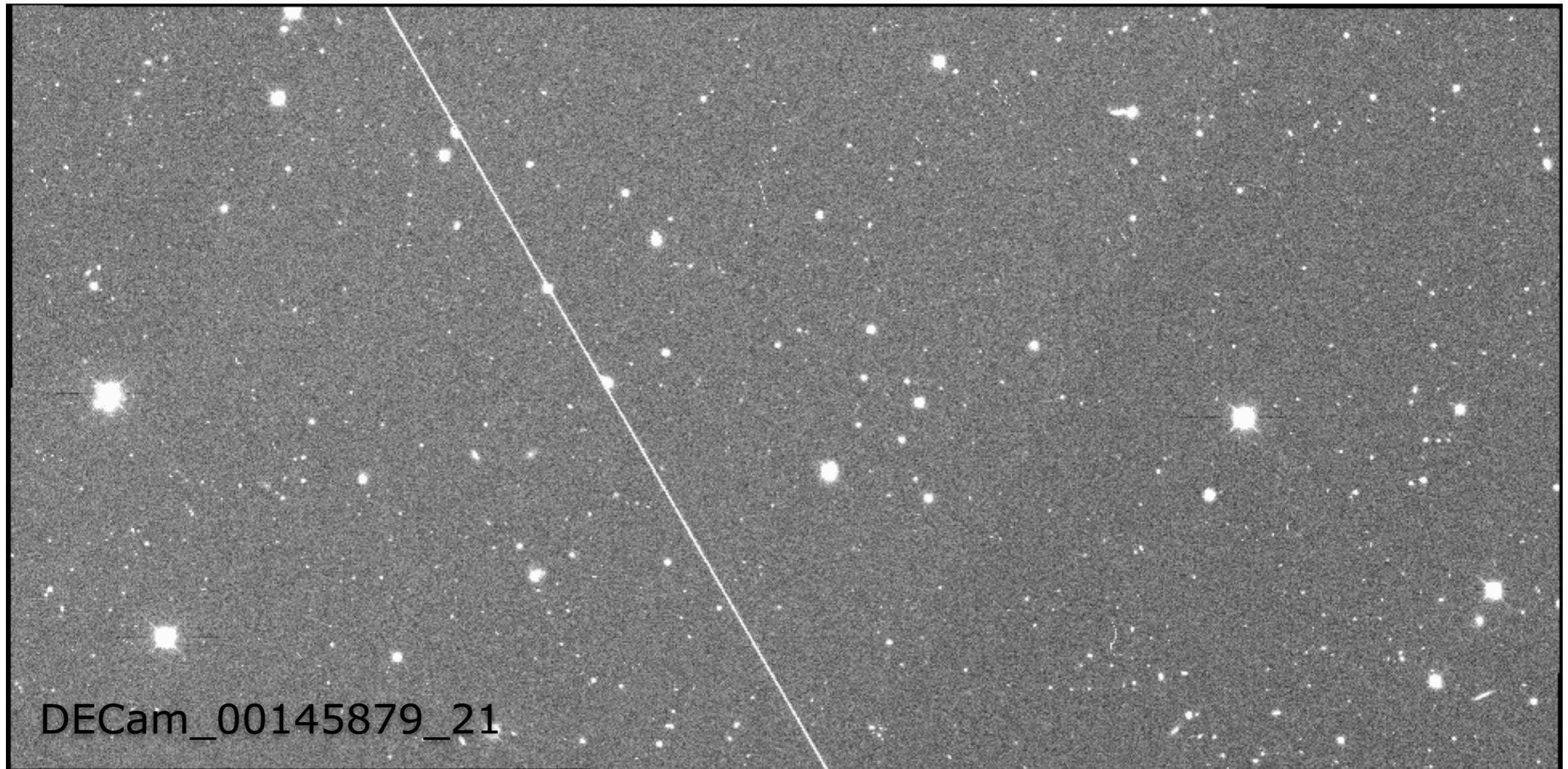


CR Masking and Satellite Trails



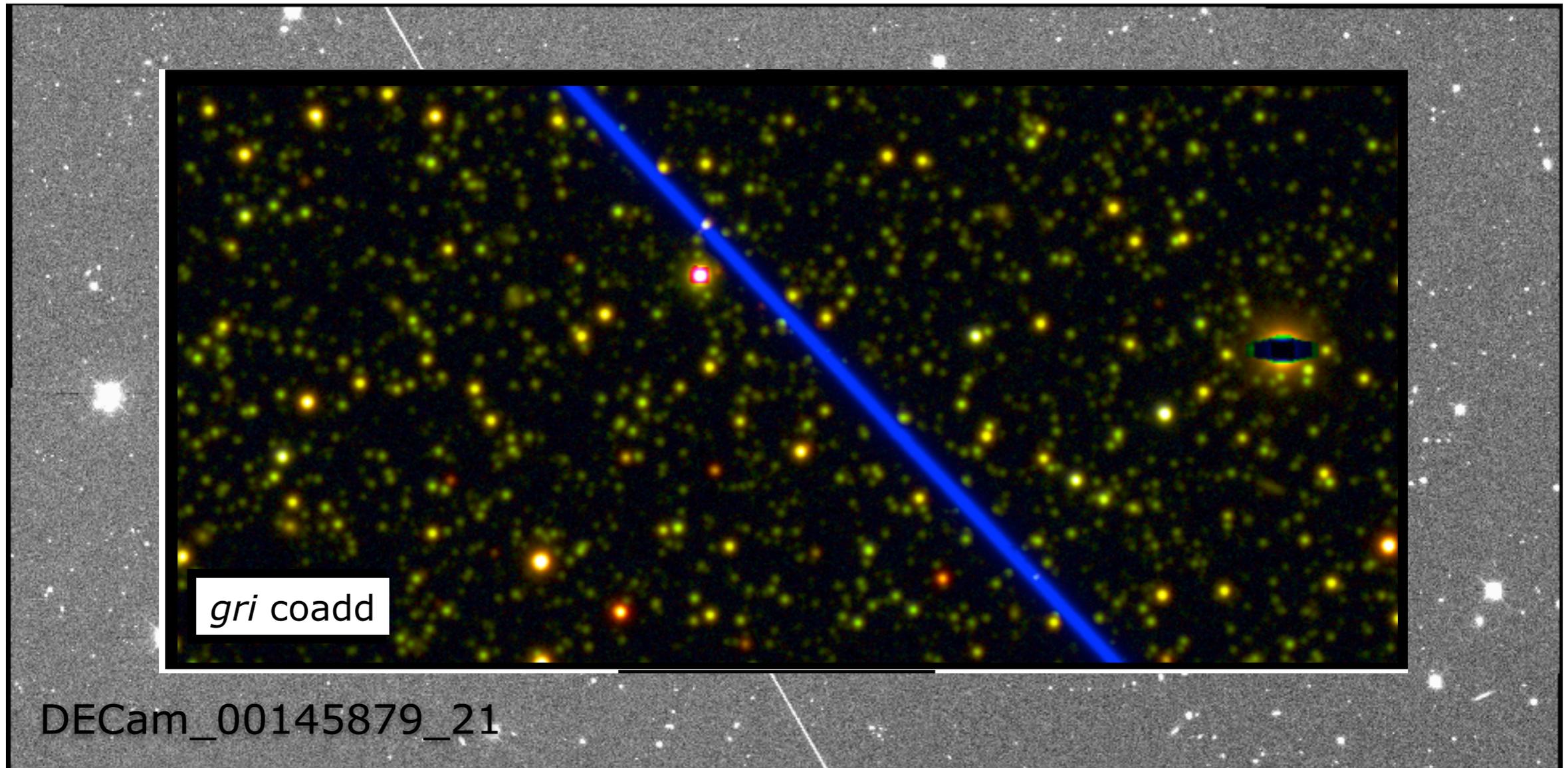
Side Note I: Satellite Trails

- Occasionally (~6% of CCDs in single epoch exposures) have bright objects streaking across them (satellites, meteors, etc.)
- Streaks can impact photometry in both single epoch and co-added images.

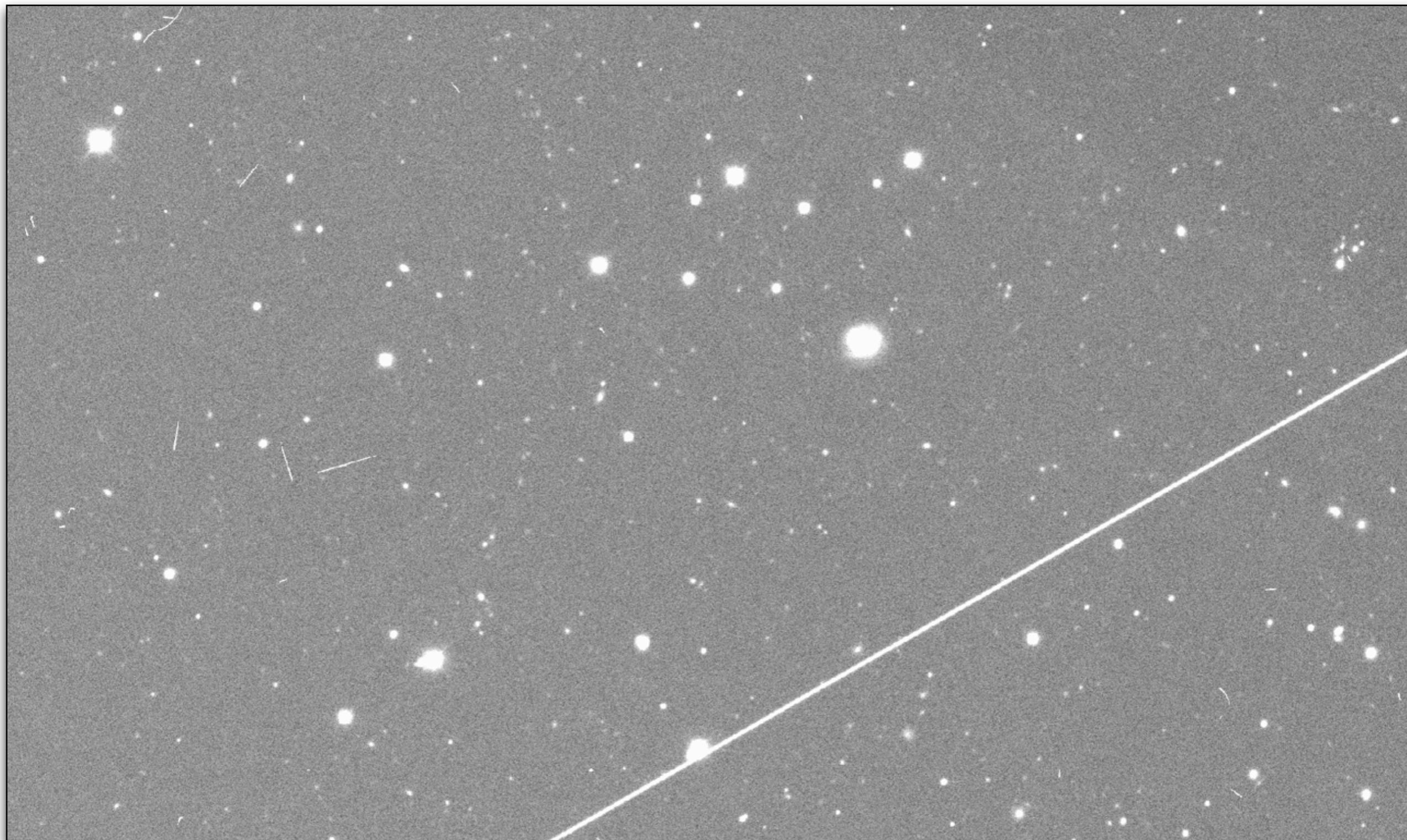


Side Note I: Satellite Trails

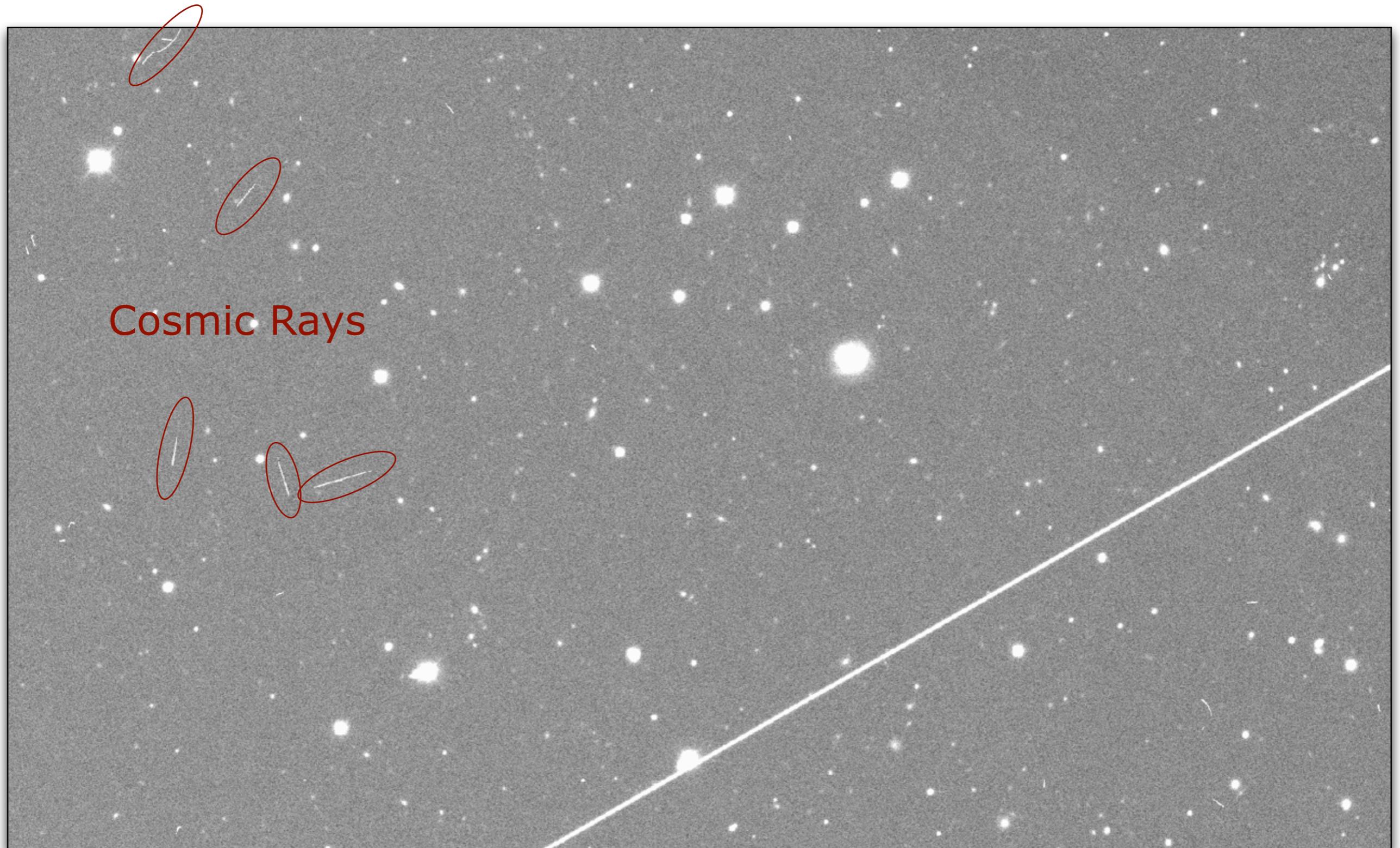
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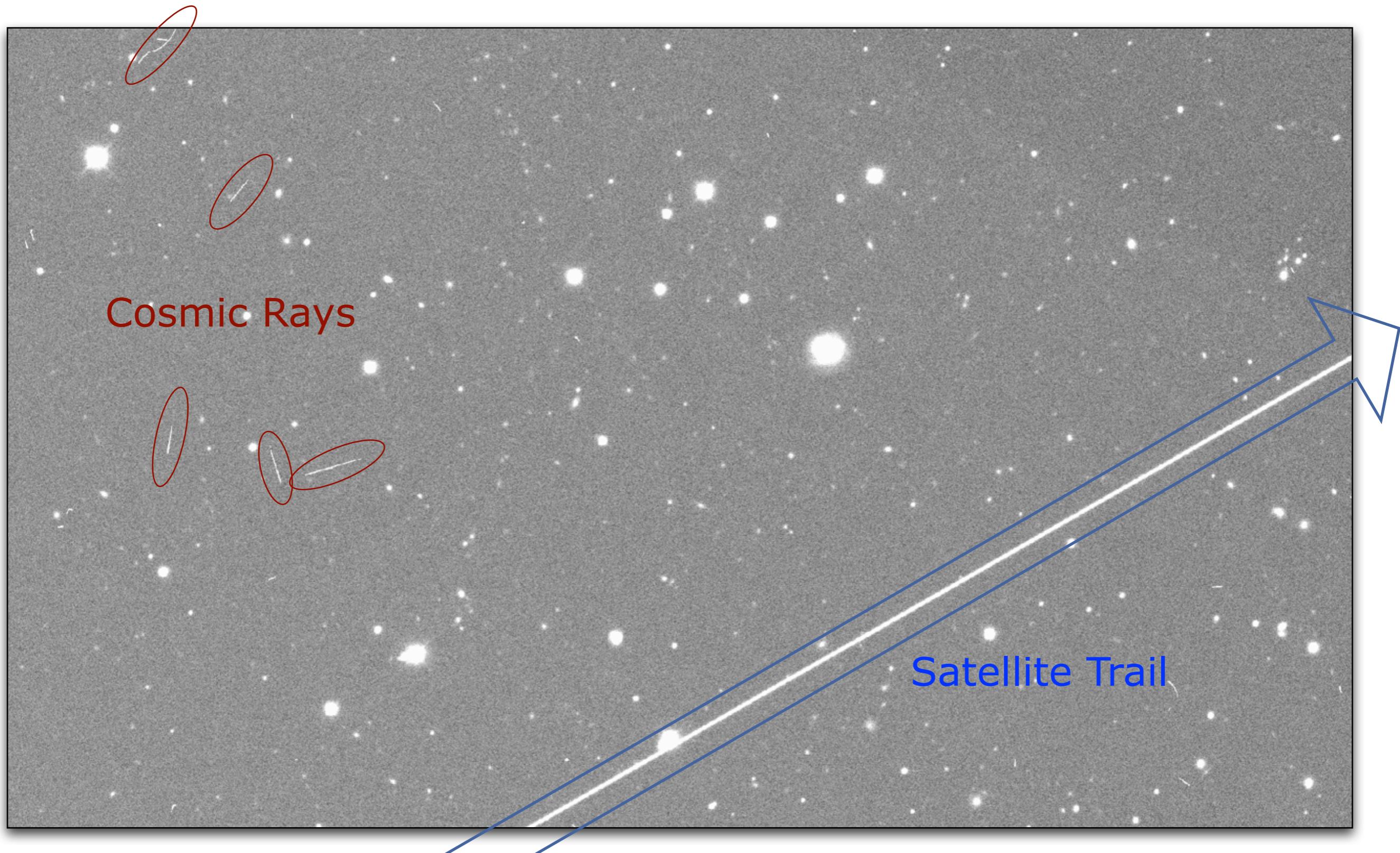
DECam de-trended image



DECam de-trended image



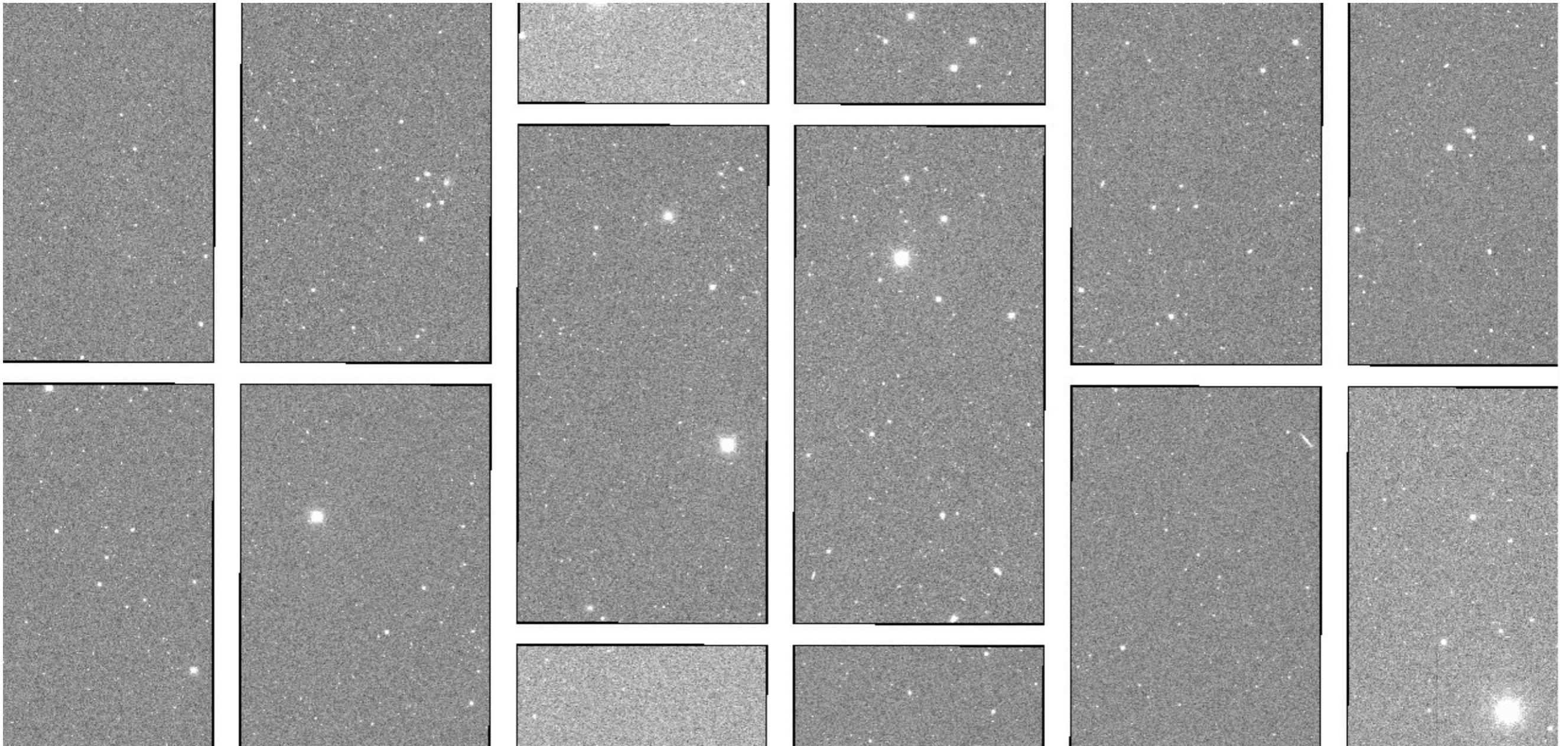
DECam de-trended image



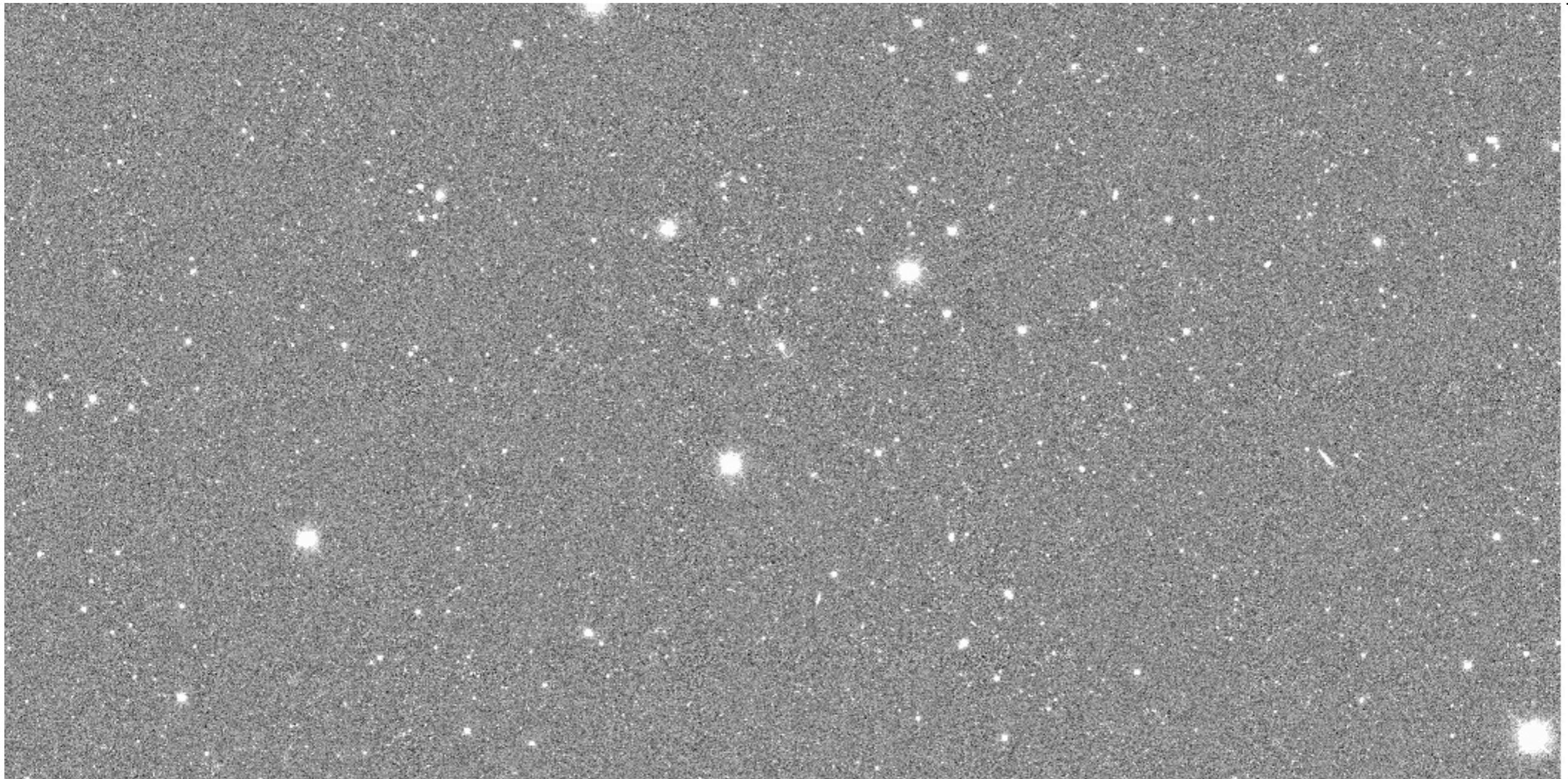
Immask CR and Streak image



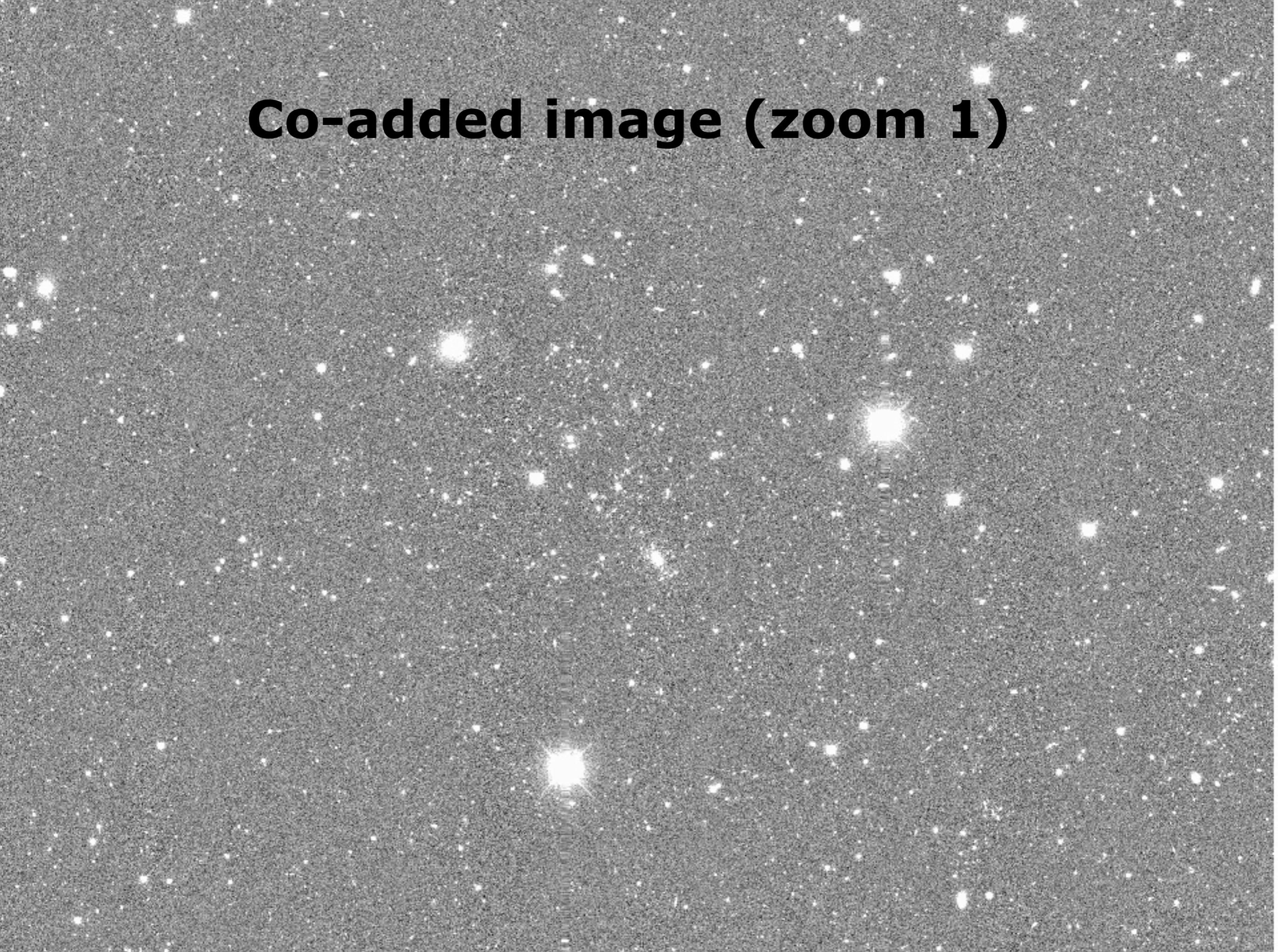
CR Masking and Satellite Trails



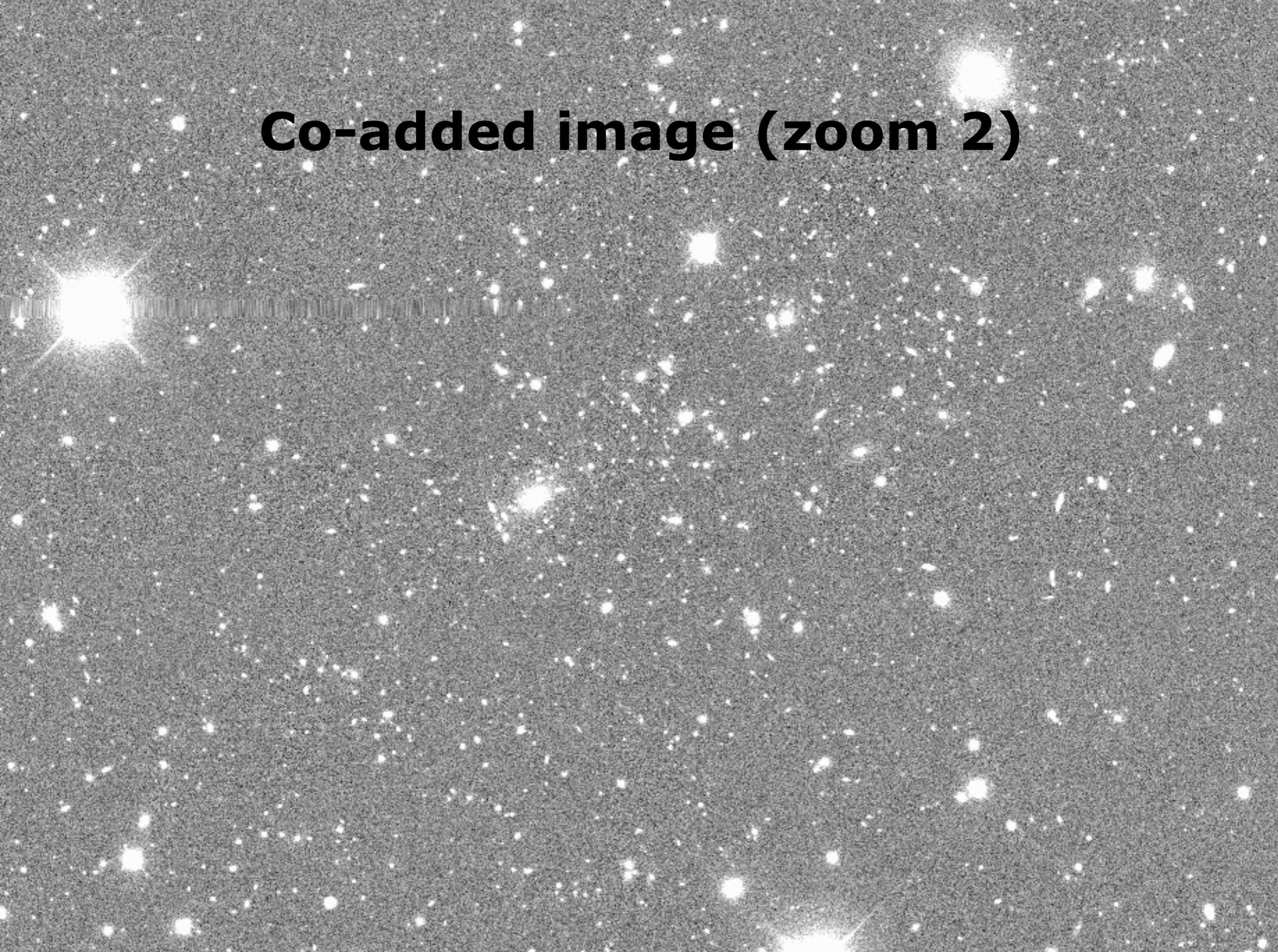
Co-added (stacked) image



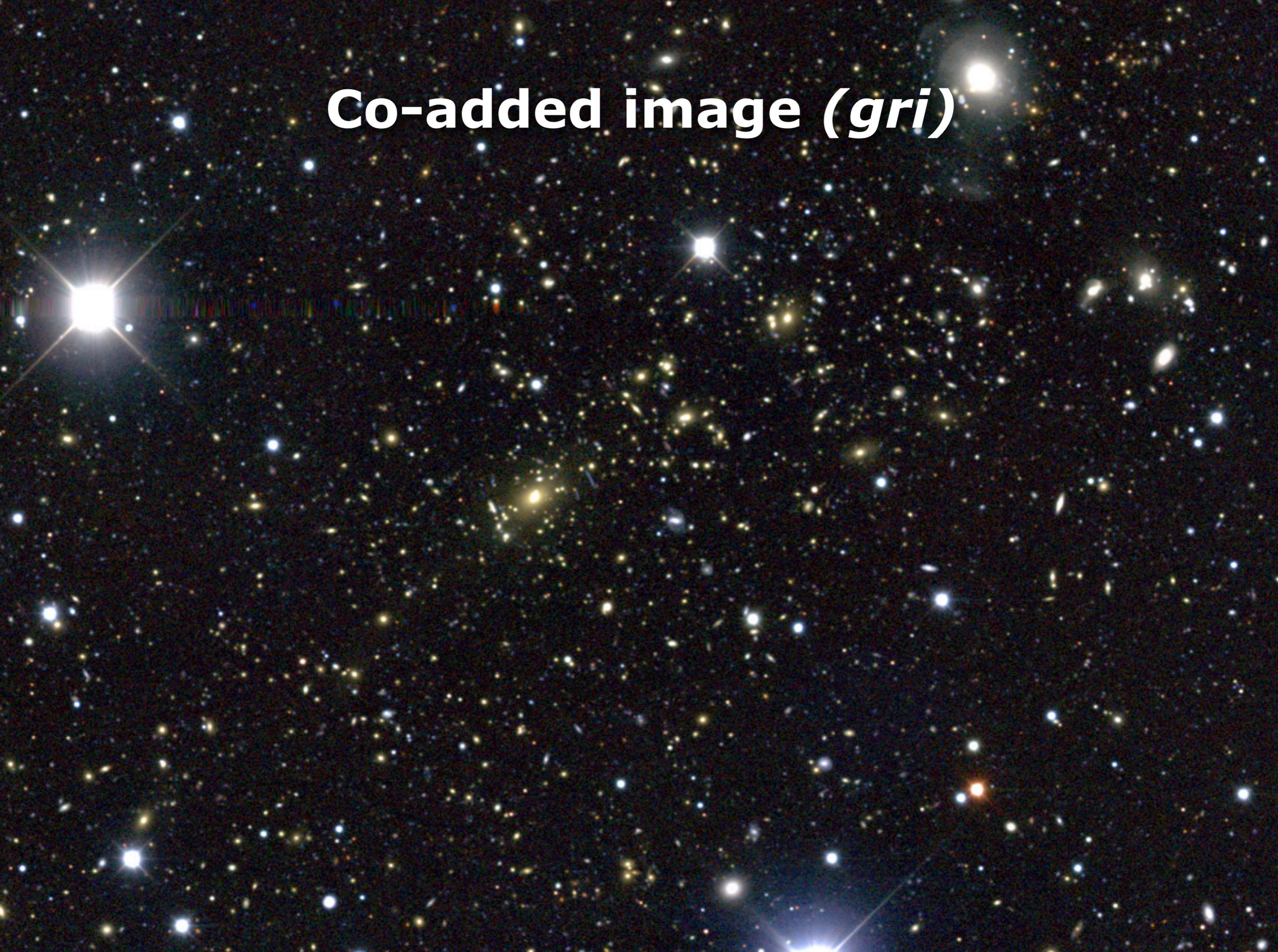
Co-added image (zoom 1)



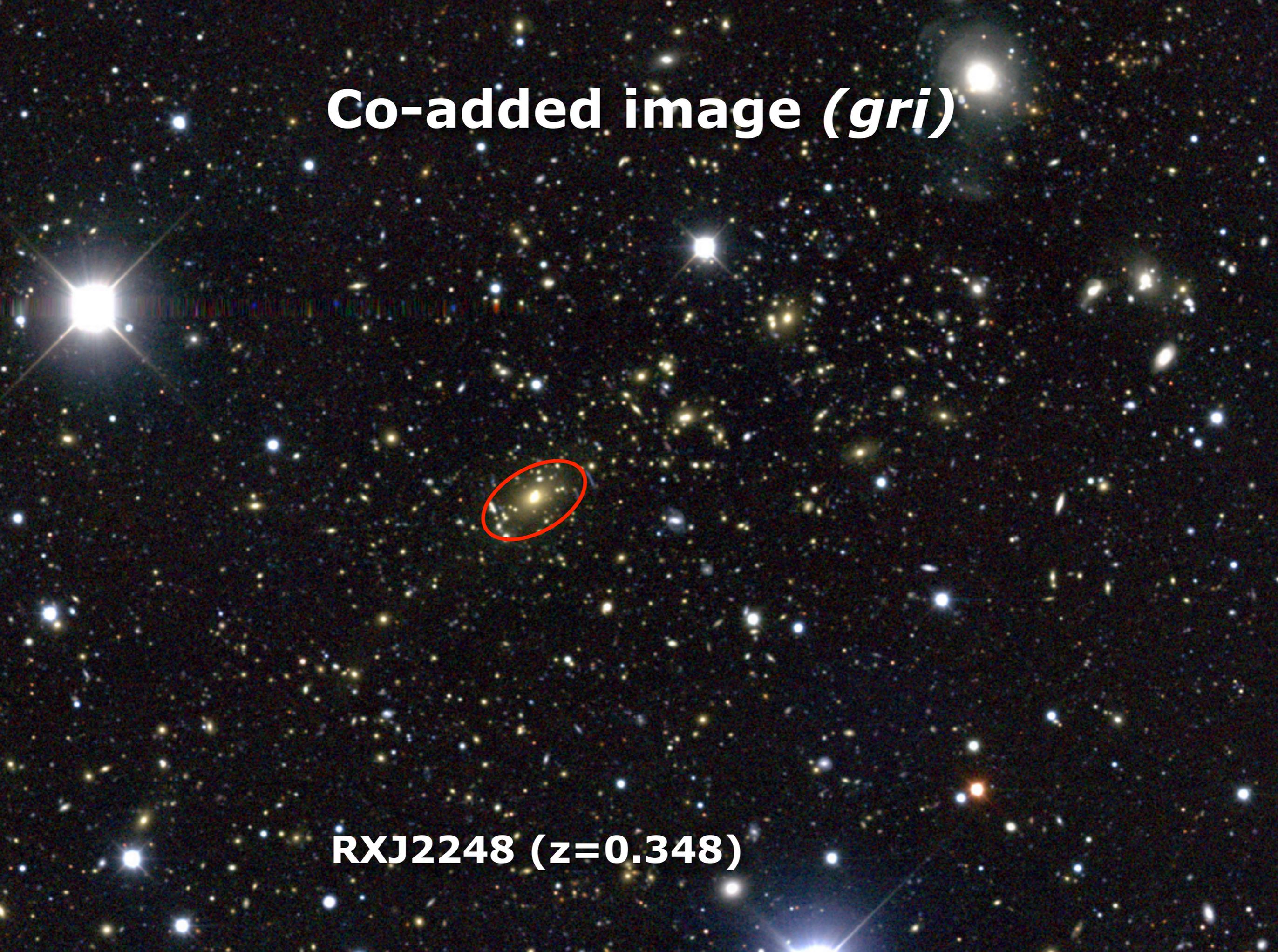
Co-added image (zoom 2)



Co-added image (*gri*)



Co-added image (*gri*)

A co-added astronomical image in the gri color space, showing a dense field of galaxies. The image is filled with numerous galaxies of various colors and sizes, set against a dark background. A prominent galaxy is highlighted with a red oval, indicating its significance. The text "Co-added image (gri)" is displayed at the top, and "RXJ2248 (z=0.348)" is displayed at the bottom.

RXJ2248 ($z=0.348$)