

FinalCut Changes

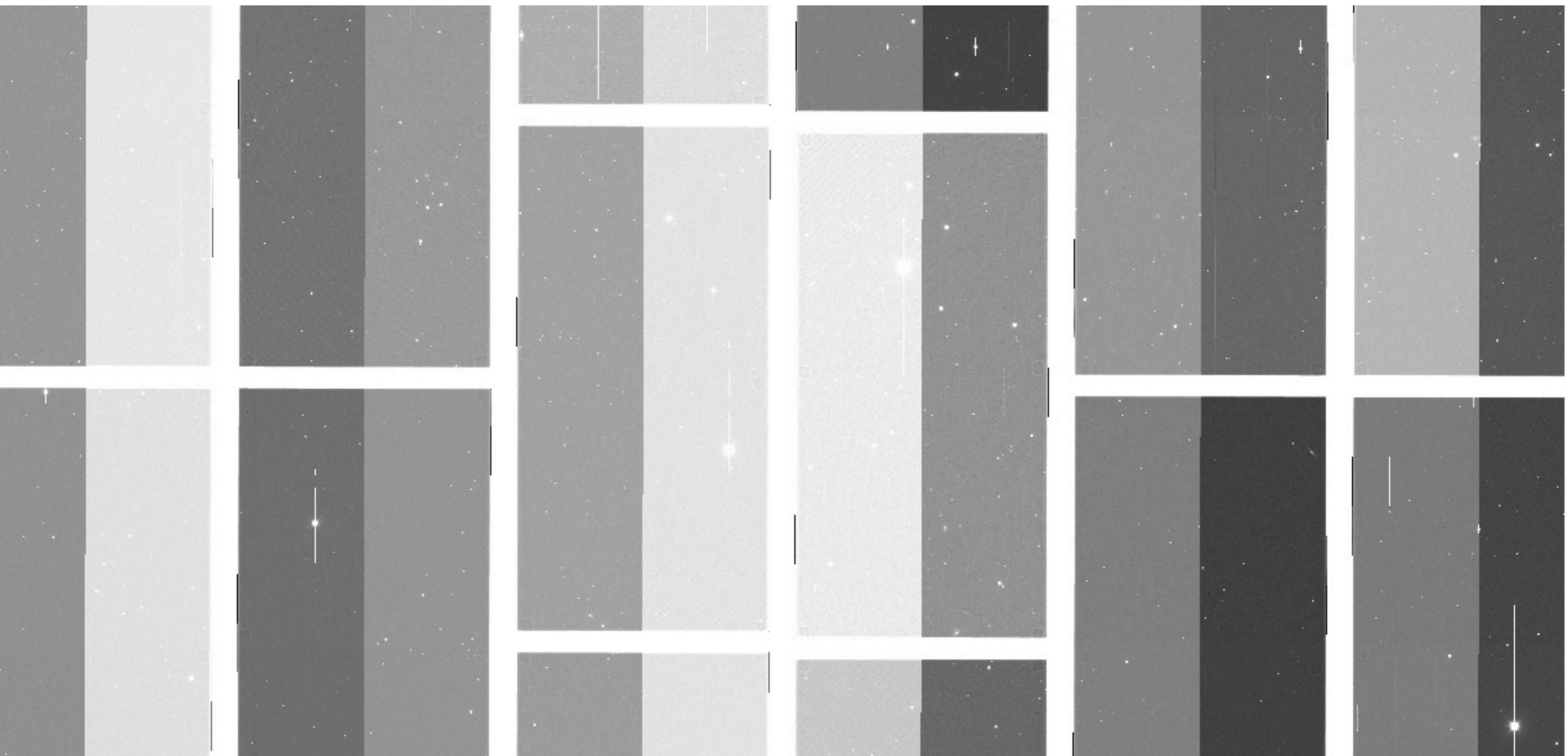
(very broad picture)

The Steps

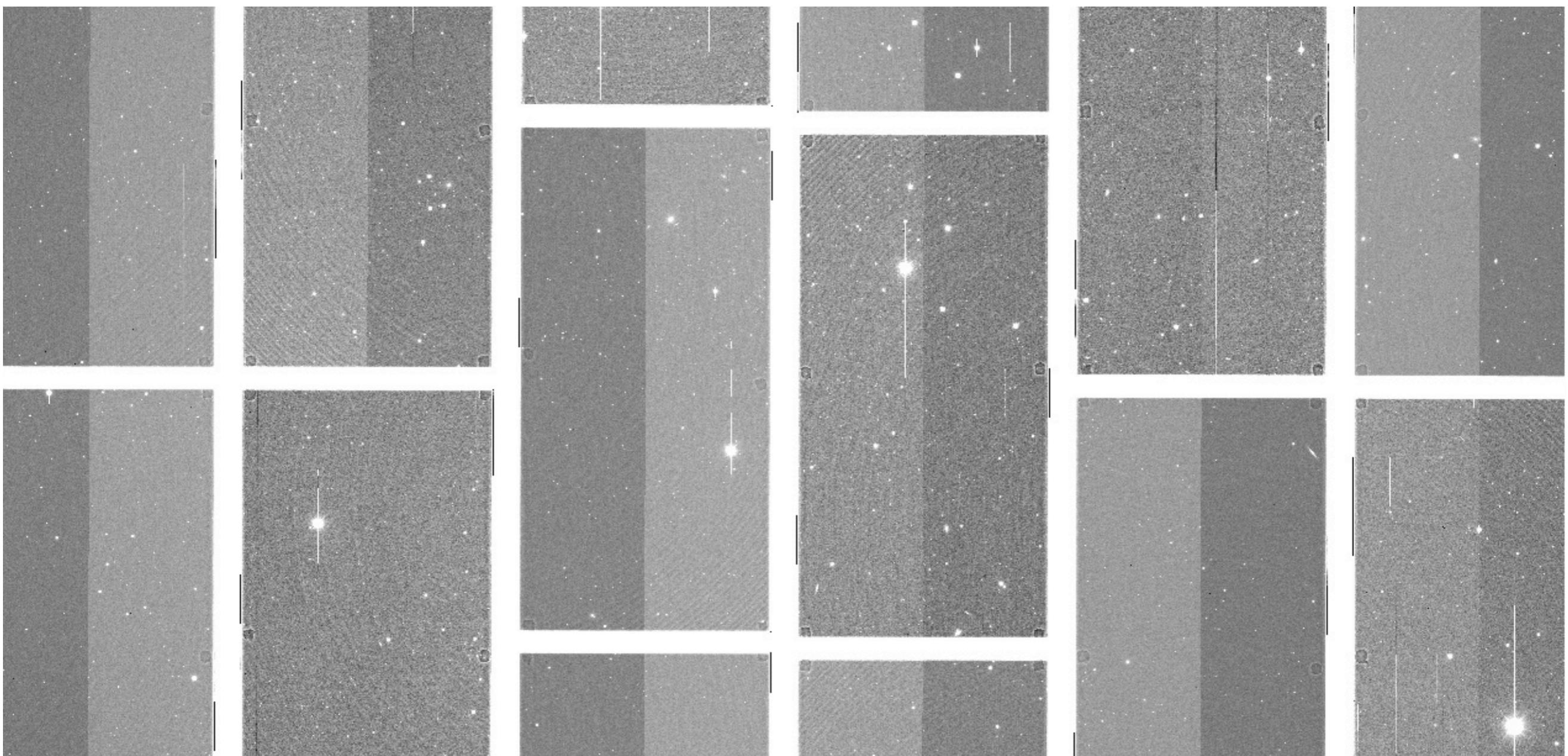
- cross-talk
- pixcorrect (flat/bias/resaturate)
- super-alignment
- bleed-trails
- sky fitting
- sky subtraction
- immask

An Example with DECam

Section of “raw” data from DECam



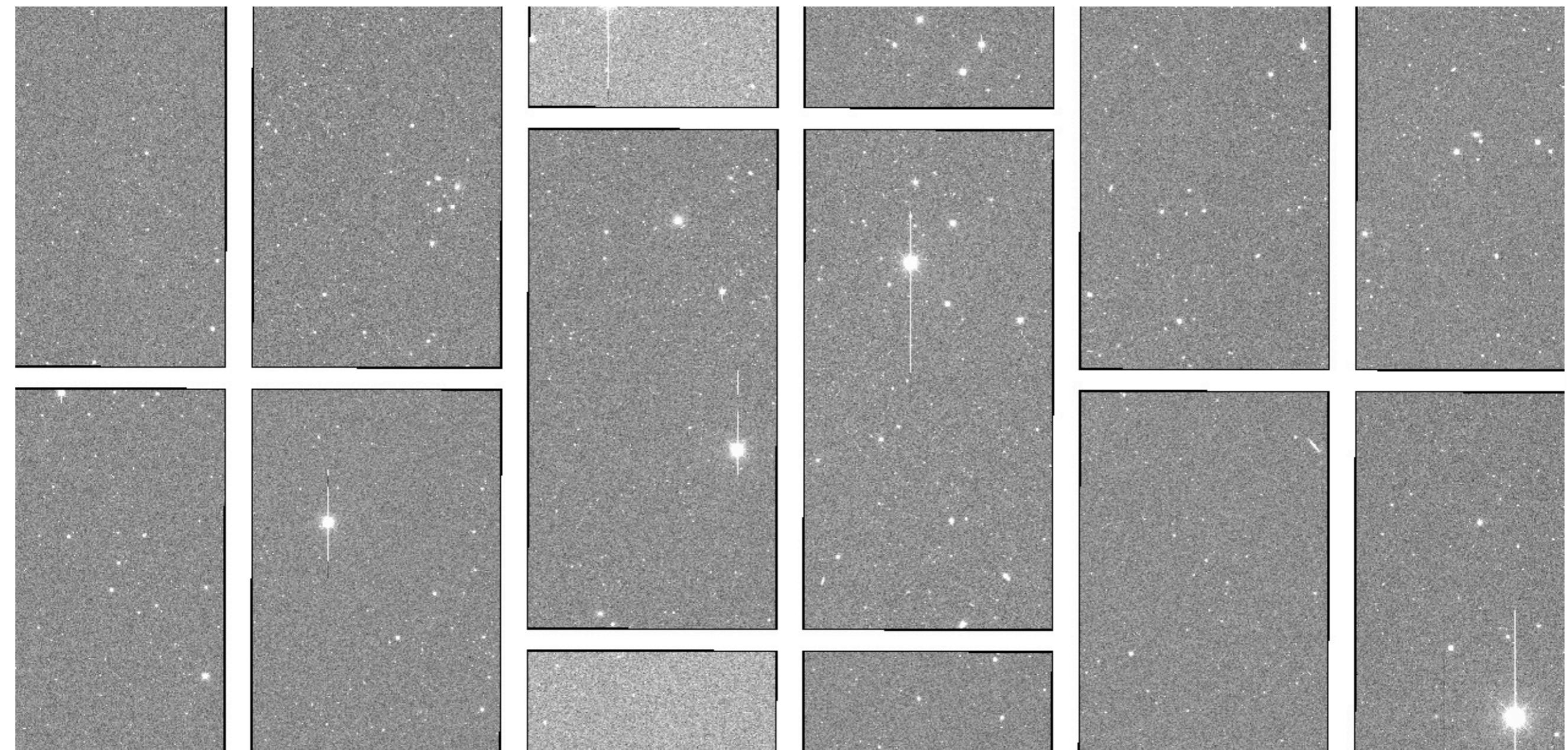
cross-talk correction



Bias and Flat corrected



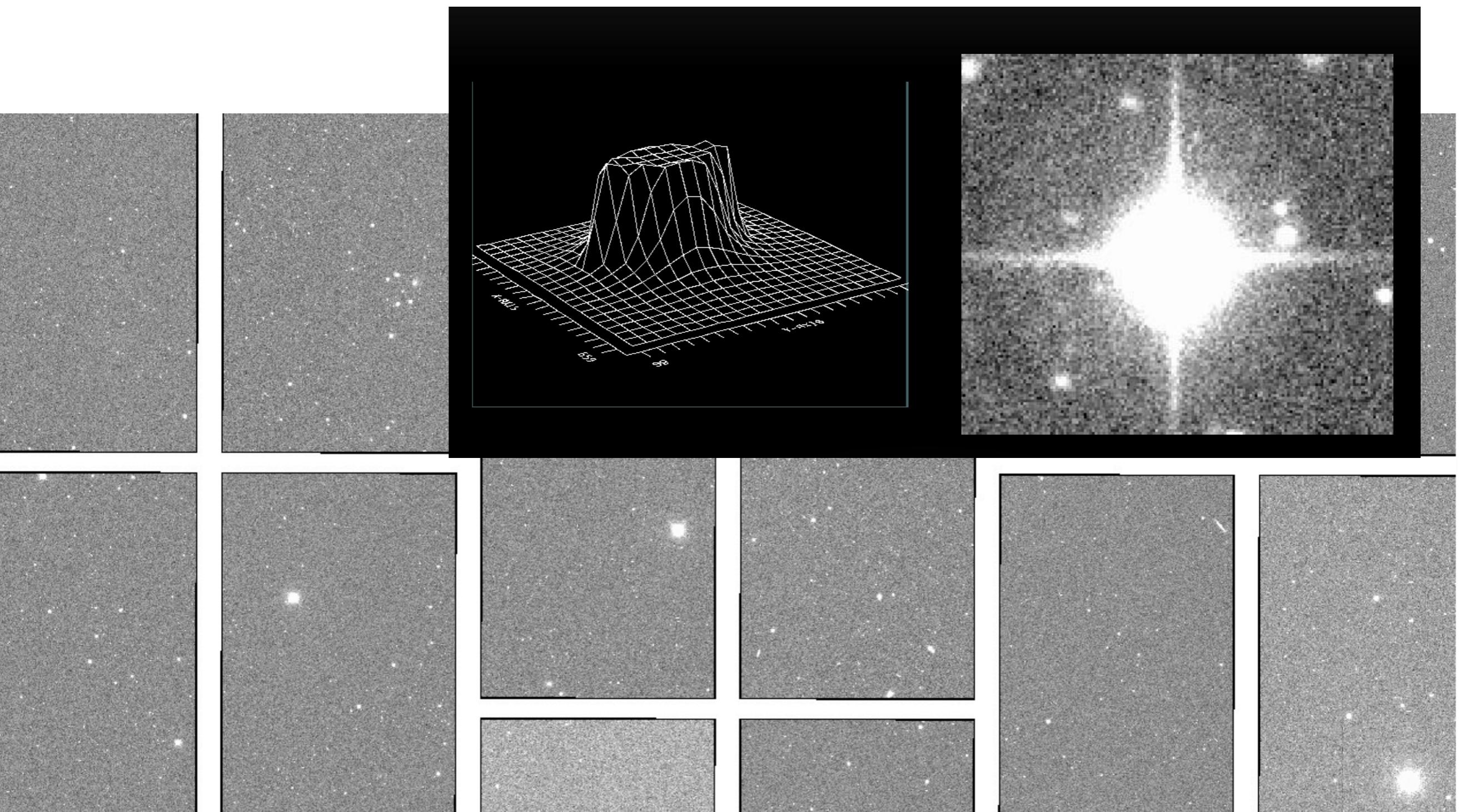
Astrometric Alignment



Bleed Trails (saturated stars)



Bleed Trails (saturated stars)

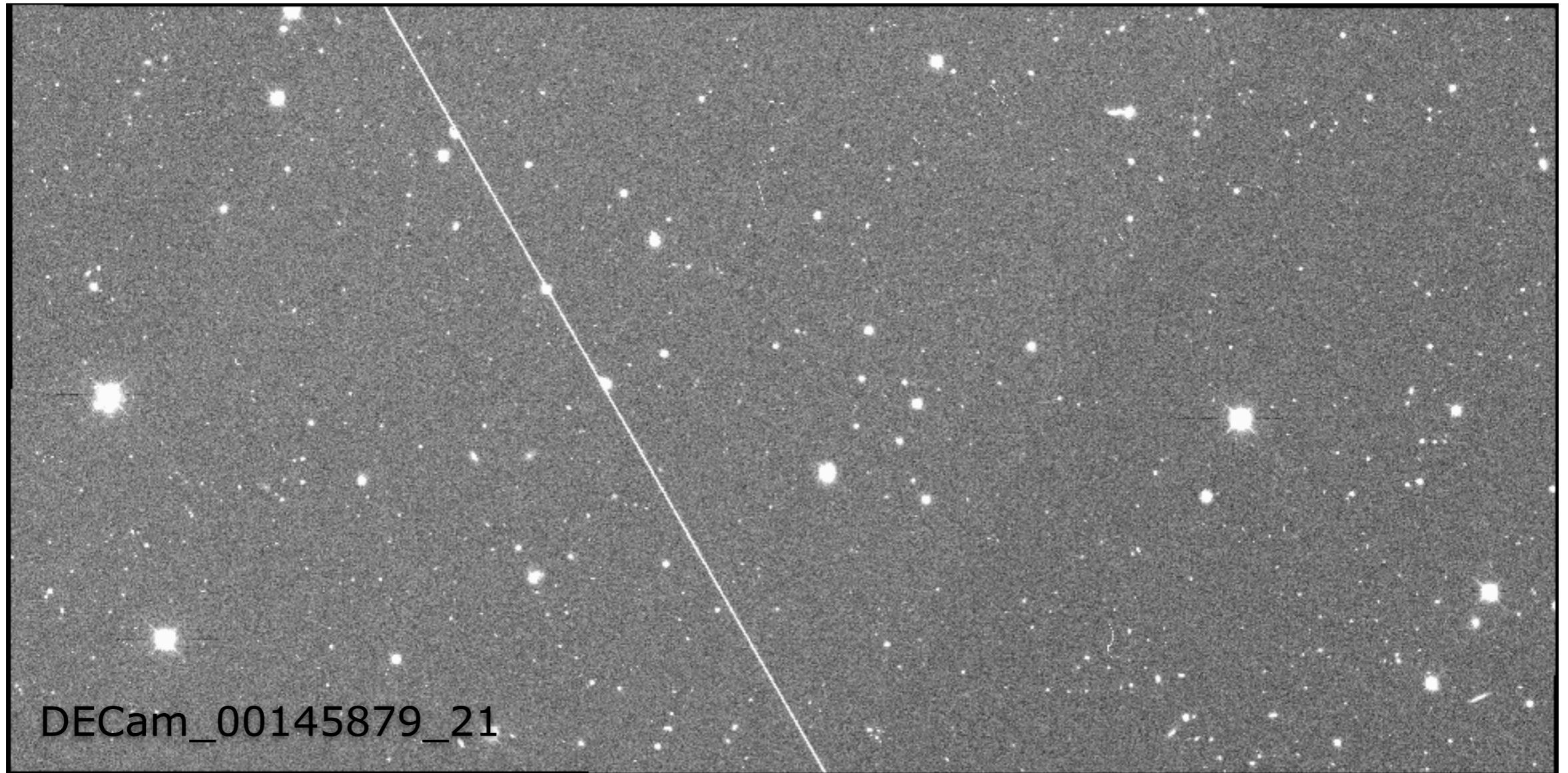


CR Masking and Satellite Trails



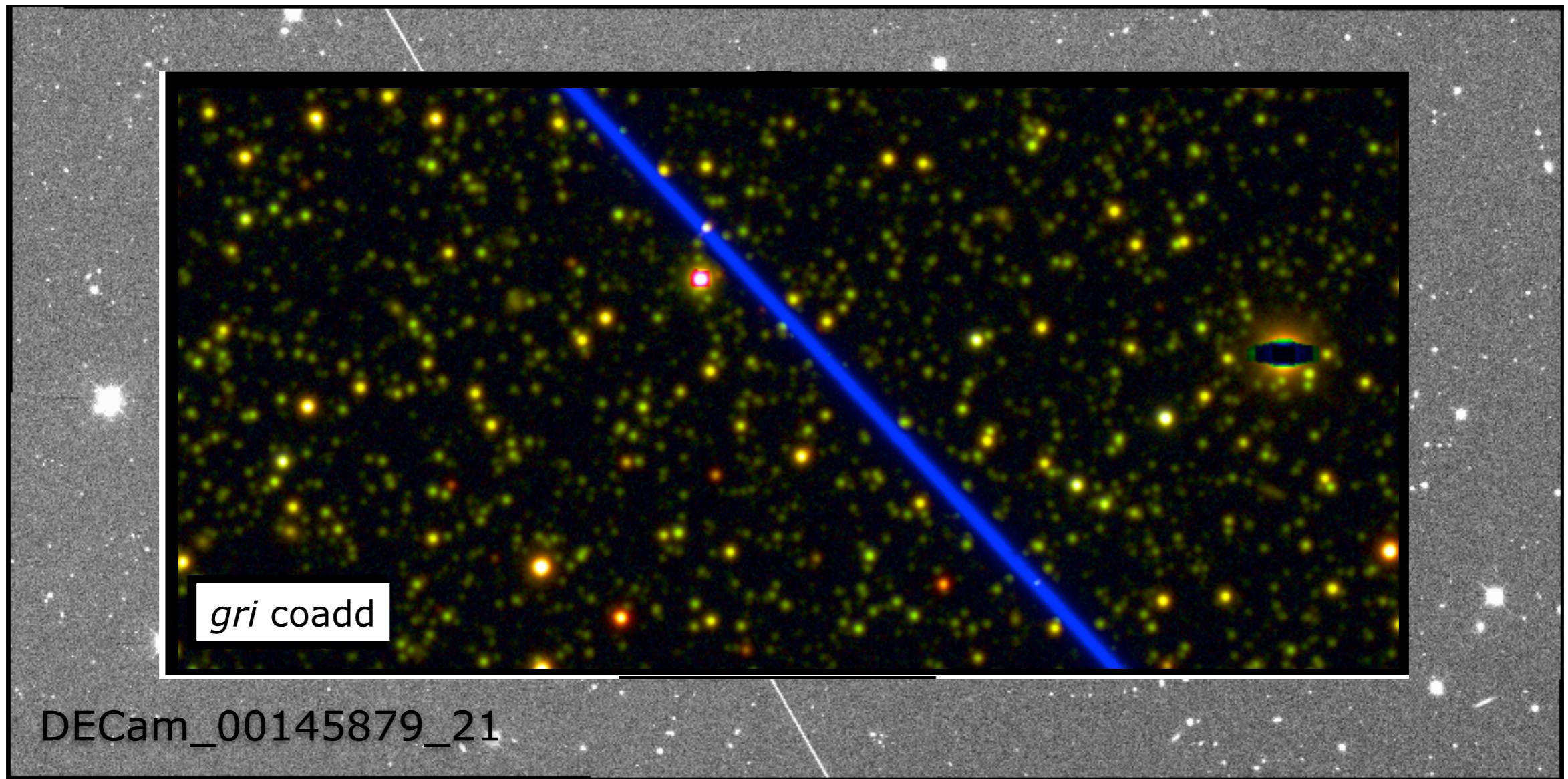
Side Note I: Satellite Trails

- 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

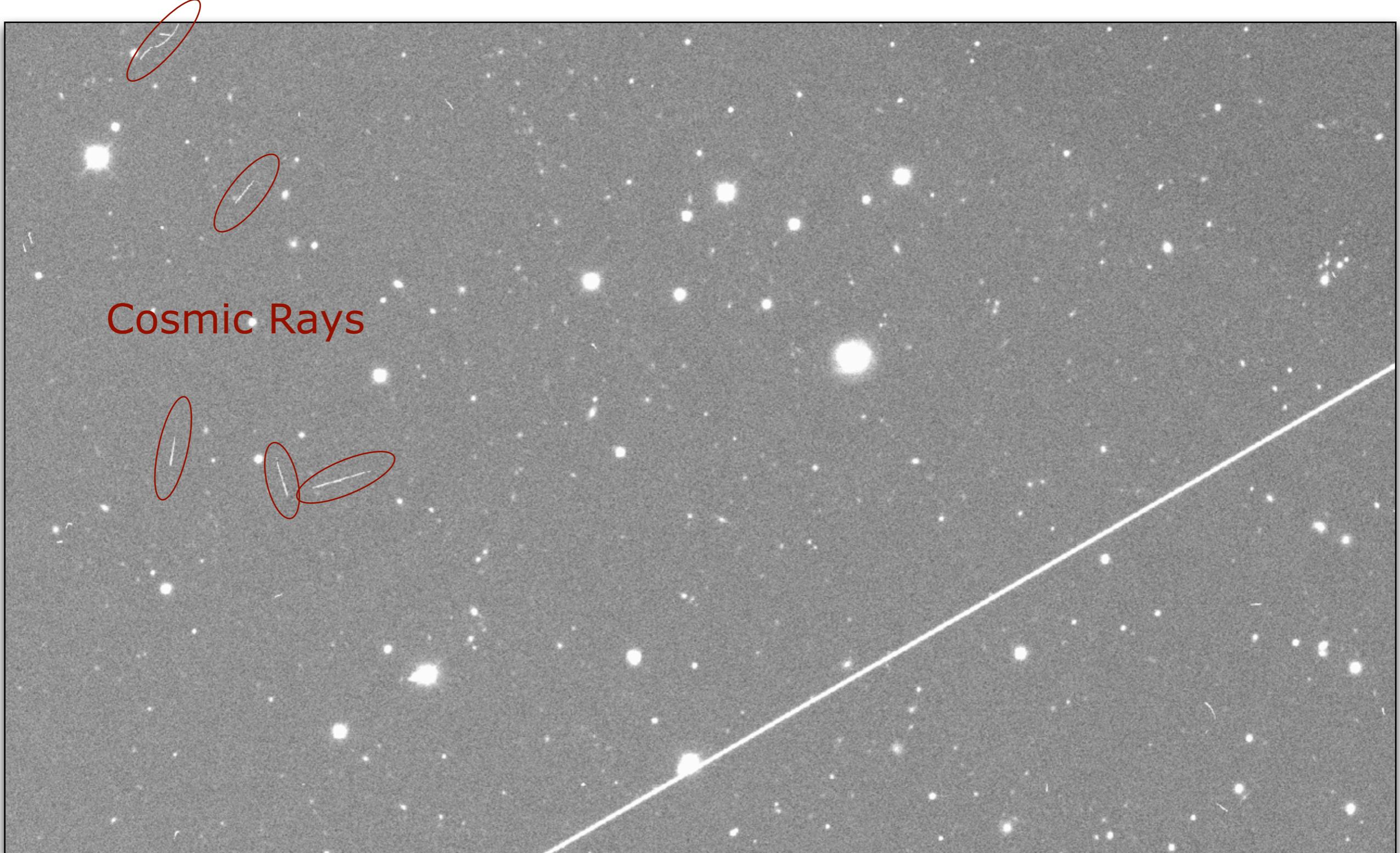
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- Streaks can impact photometry in both single epoch and co-added images.



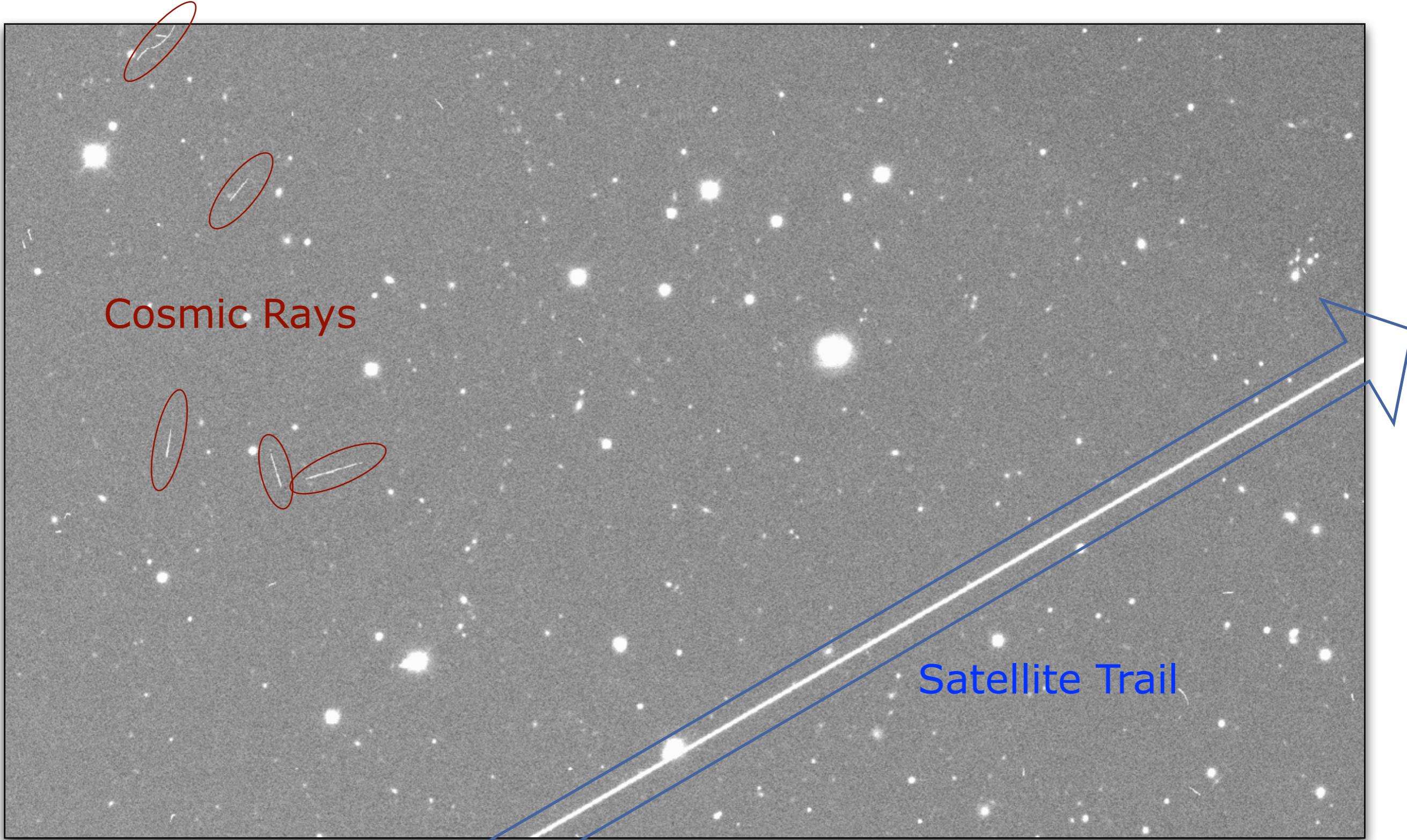
DECam de-trended image



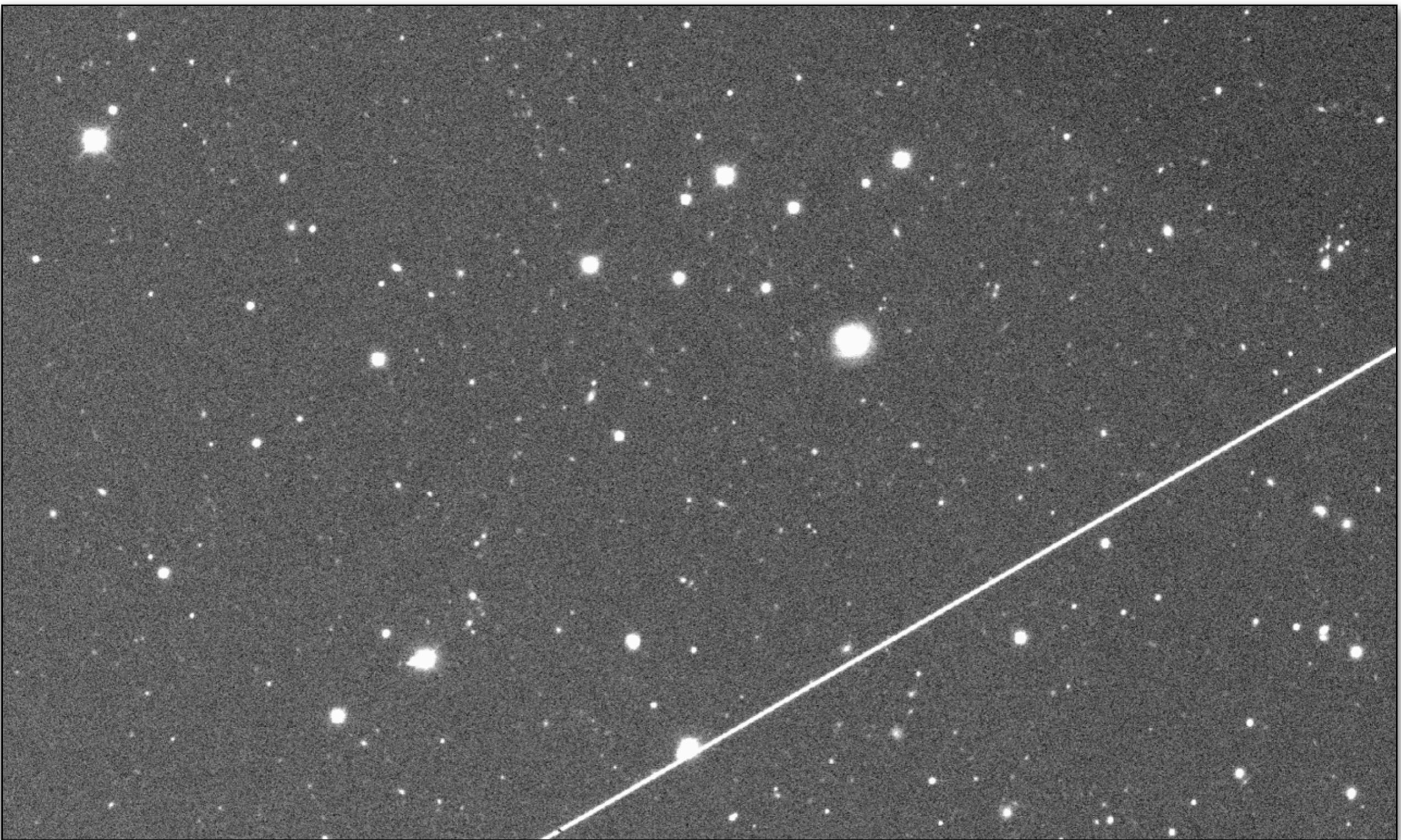
DECam de-trended image



DECam de-trended image



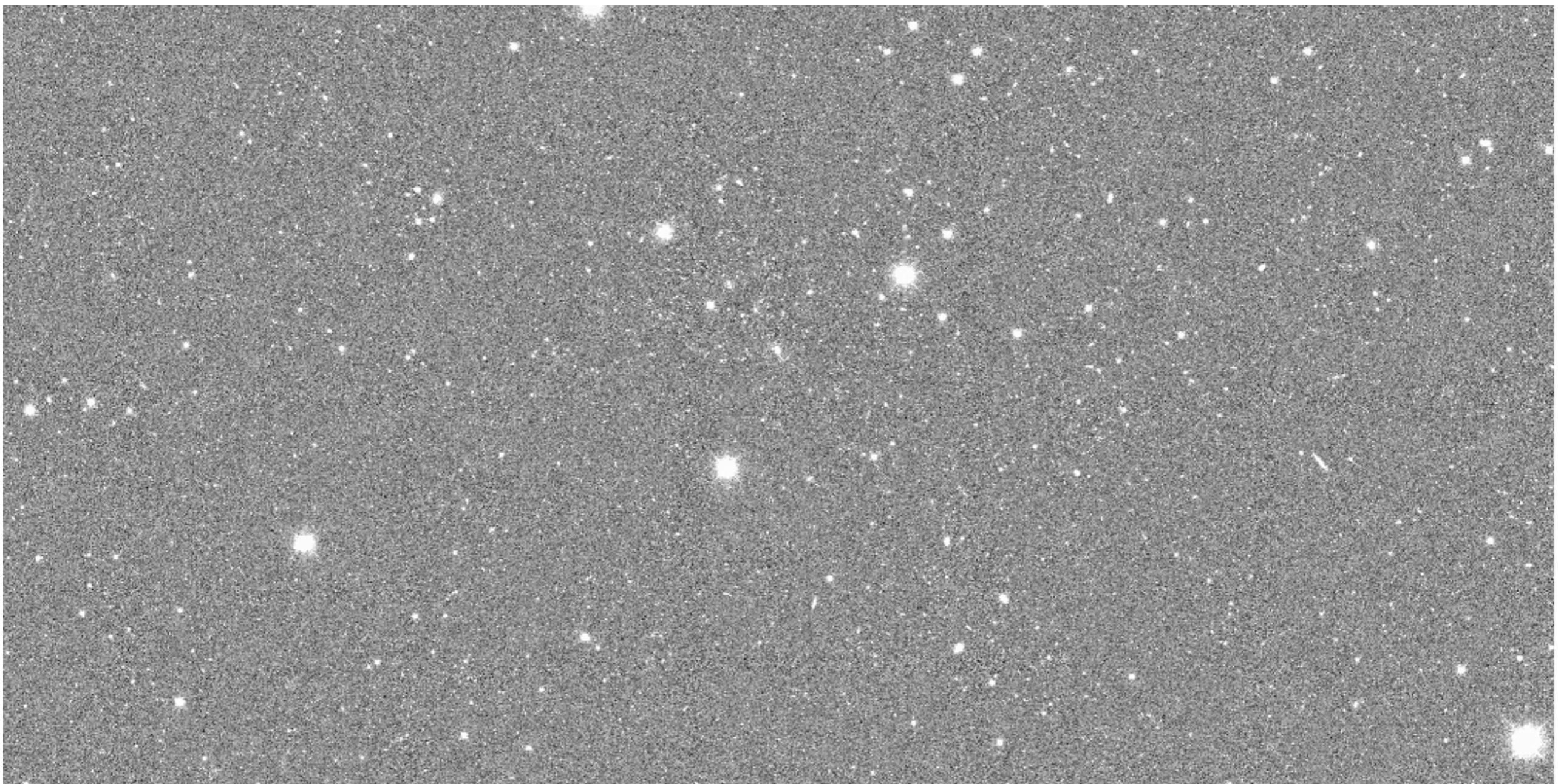
Immask CR and Streak image



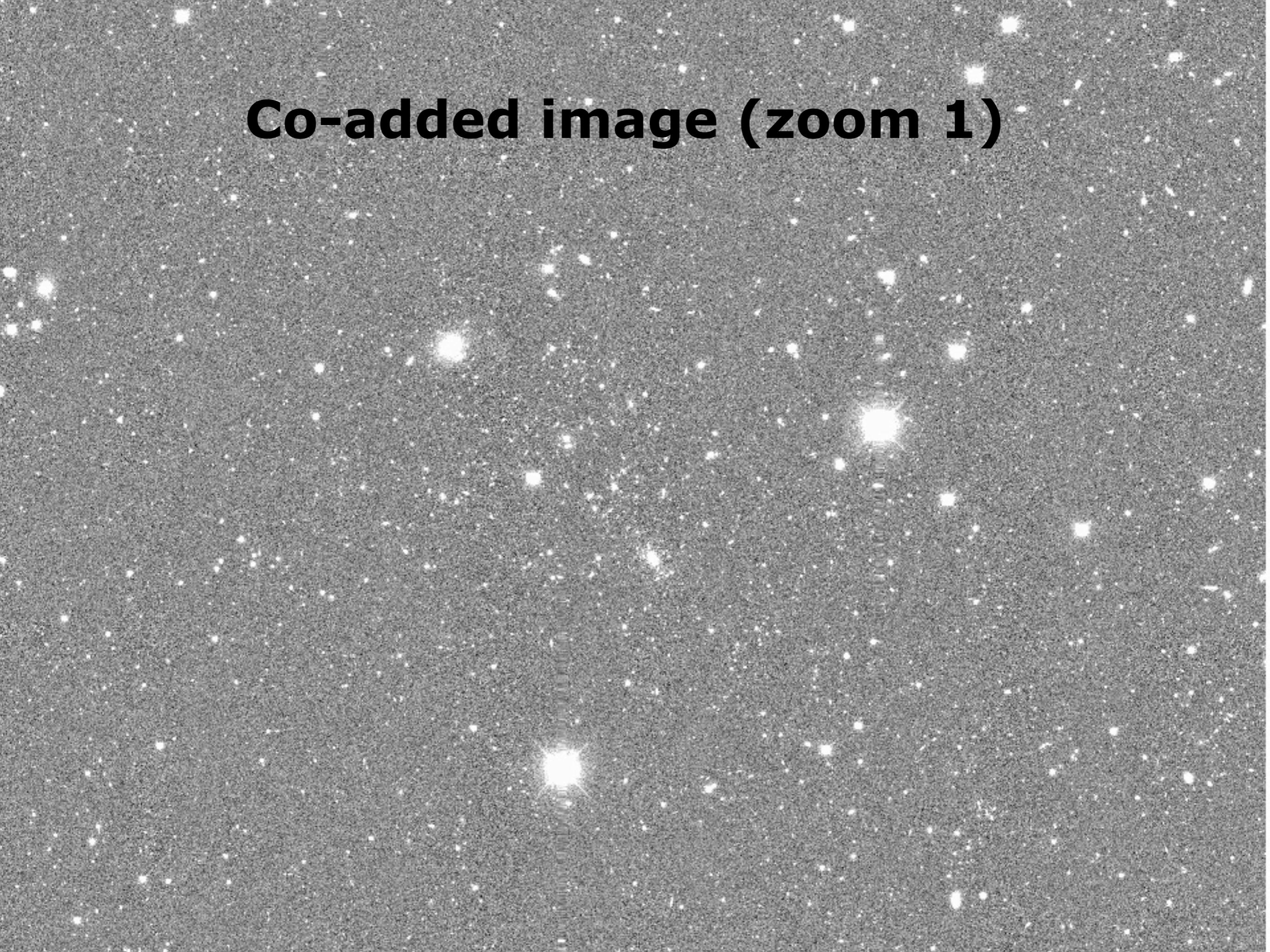
CR Masking and Satellite Trails



Co-added (stacked) image

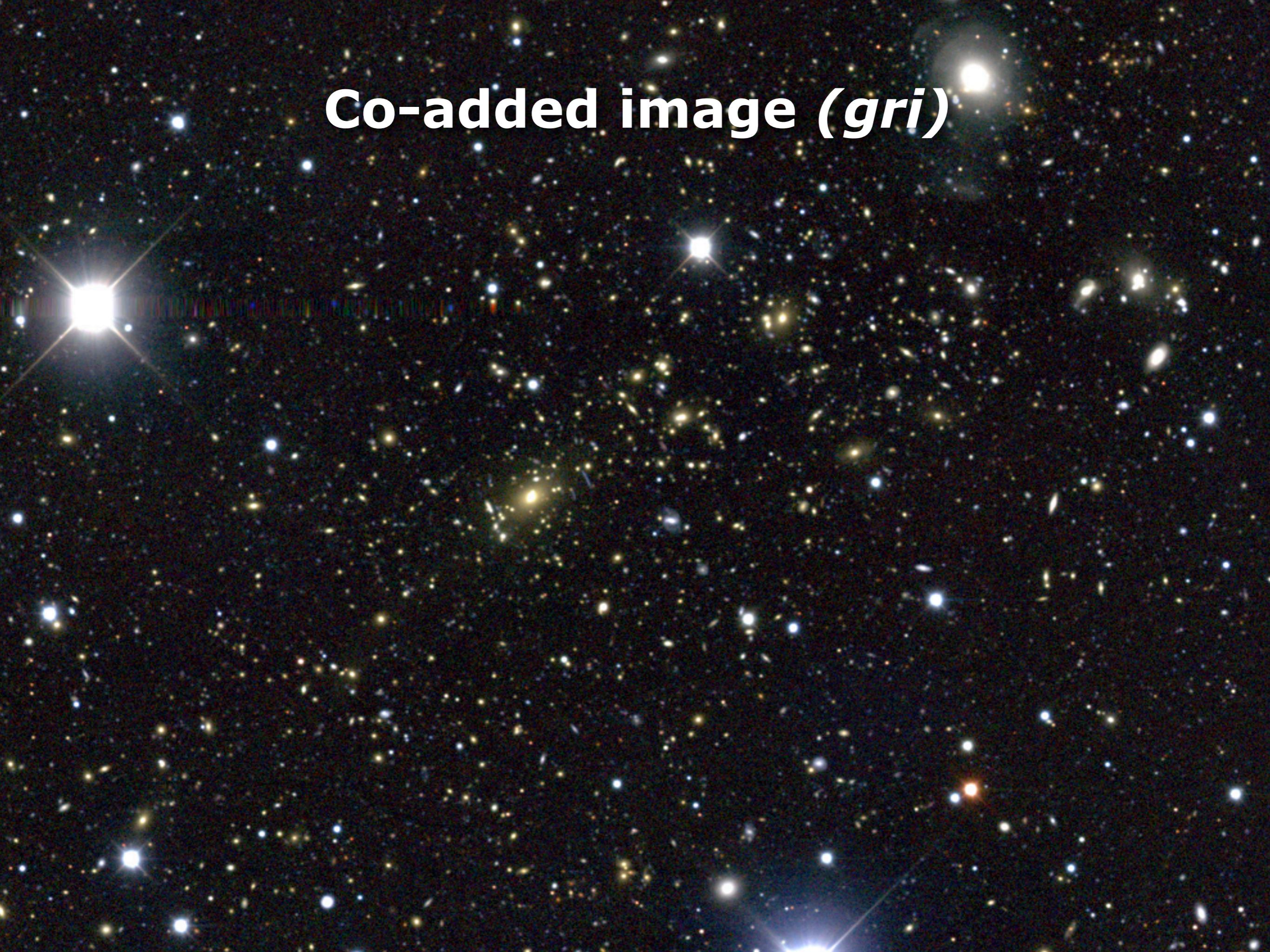


Co-added image (zoom 1)



Co-added image (zoom 2)

Co-added image (*gri*)



Co-added image (*gri*)



RXJ2248 (z=0.348)