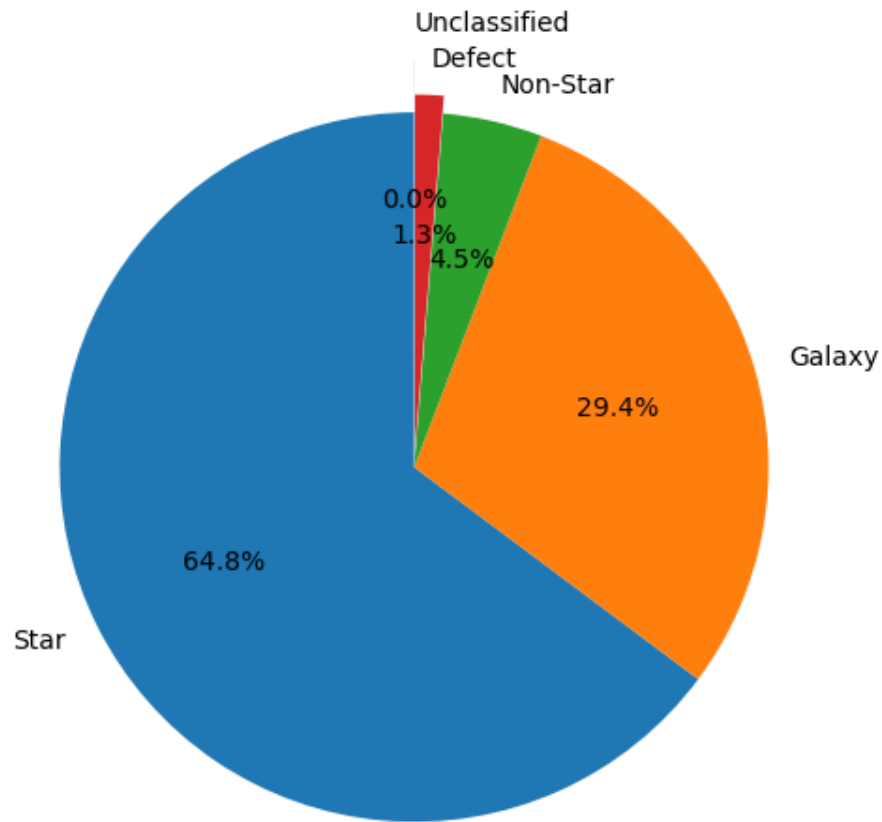
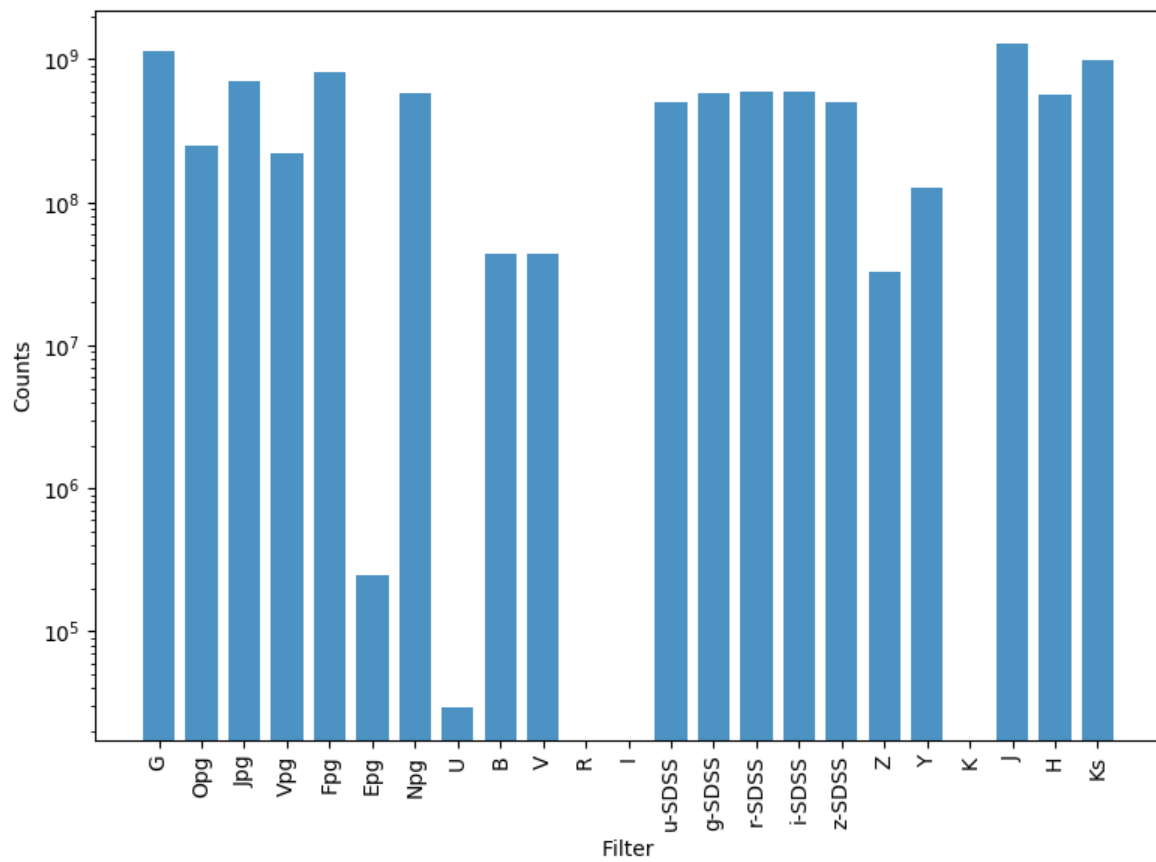


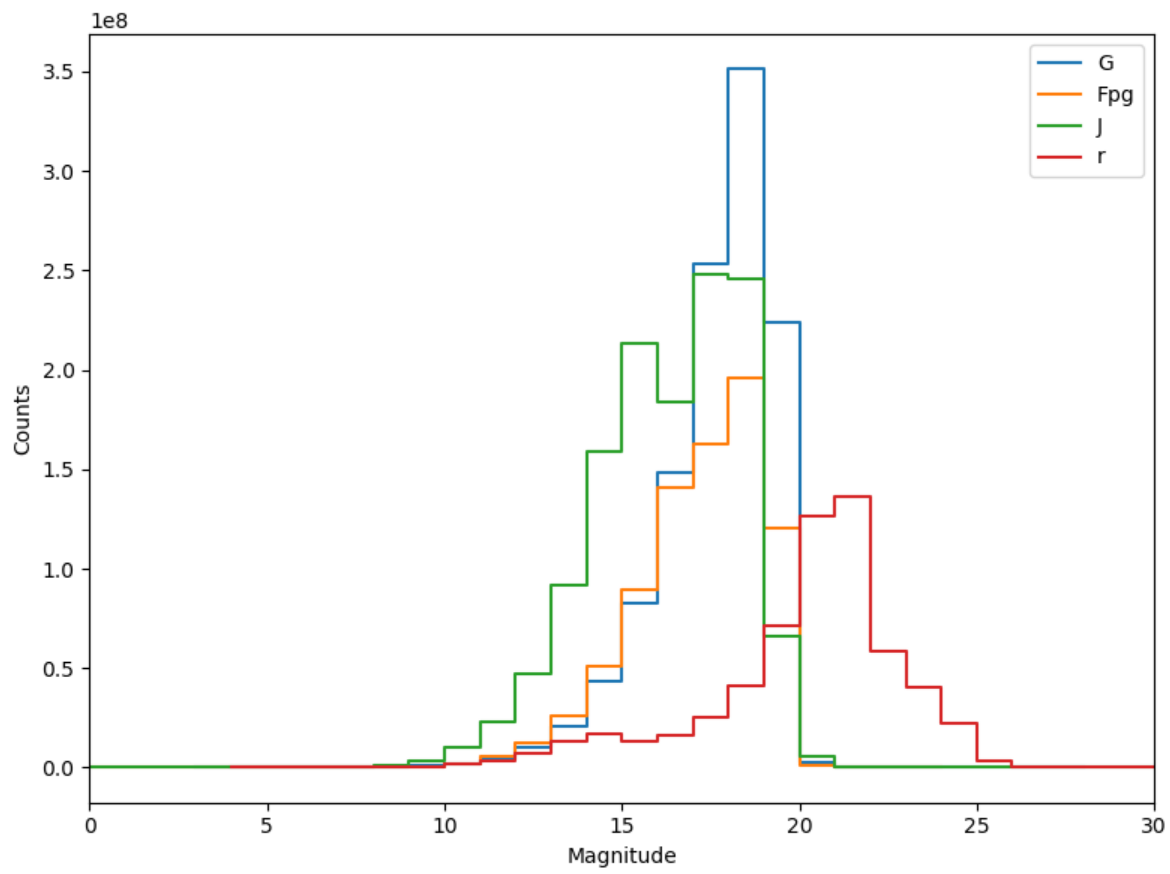
## GSC 2.4.1



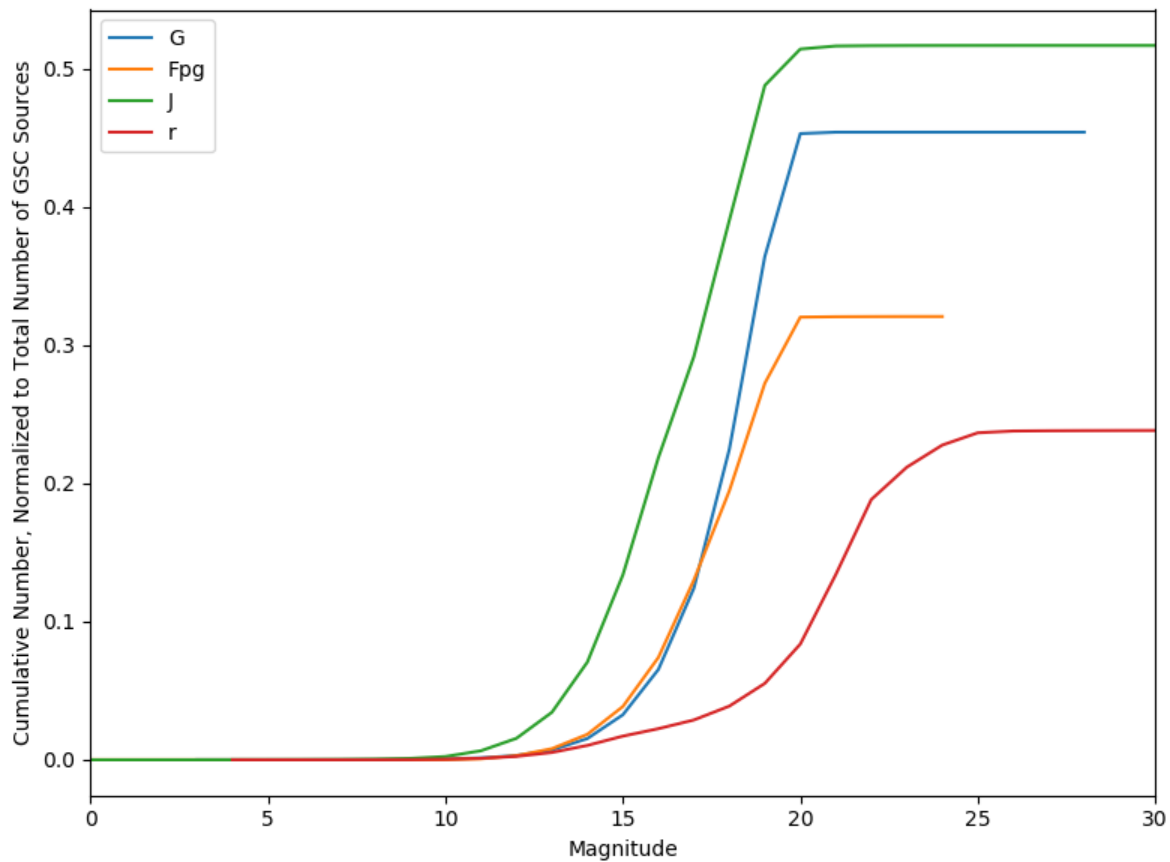
Number of photometry measurements by filter



Histogram of select bands



Cumulative histogram, normalized to total number of GSC241 sources



## Astrometry comparison 2MASS

A comparison of GSC2 coordinates against 2MASS.

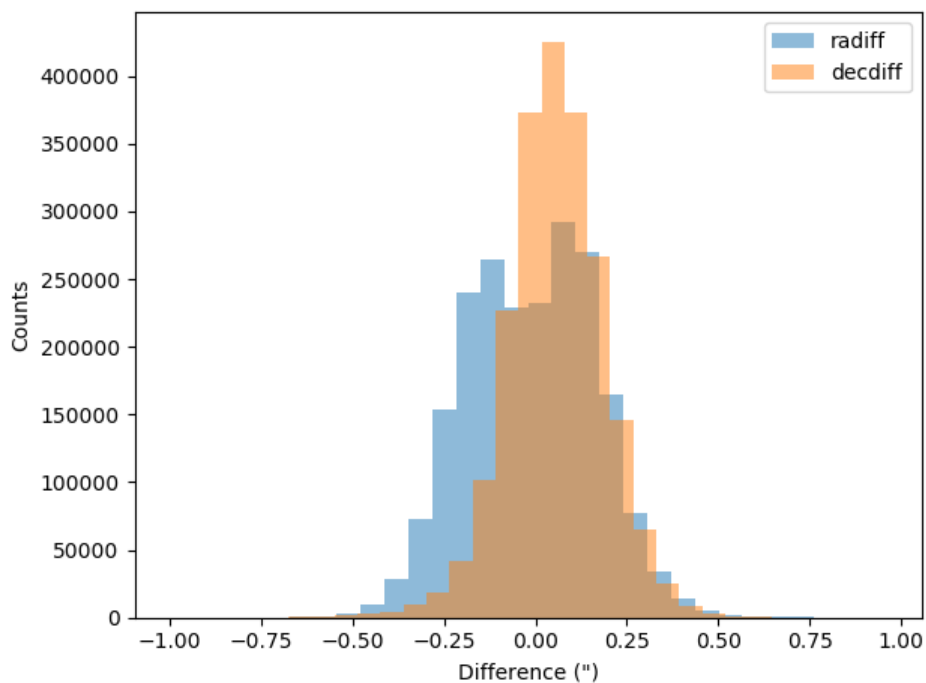
Not only does GSC241 alleviate the systematic hemisphere error (see, eg, [Lasker et al. 2008](#)), it also improves uncertainties by about a factor of 2.

These RA/Dec difference plots and statistics are from the averages of the differences for each level 10 HTM trixels ( $\sim 0.015$  square degrees).

In the scatter plots of ra/dec differences vs ra/dec/glon/glat, the orange line is the average across 5-degree cuts along the abscissa.

<b>GSC23</b>	
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RA difference:  $-0.012 \pm 0.176$

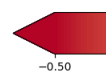
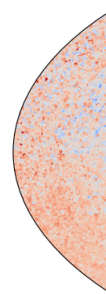
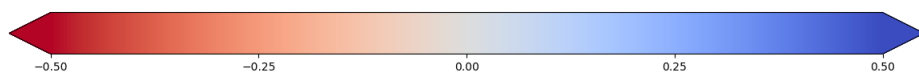
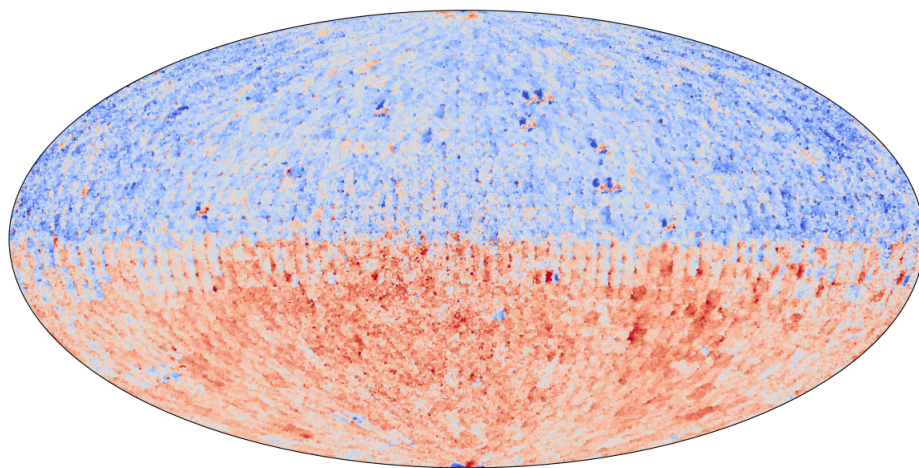
Dec difference:  $0.056 \pm 0.131$

RA difference: -

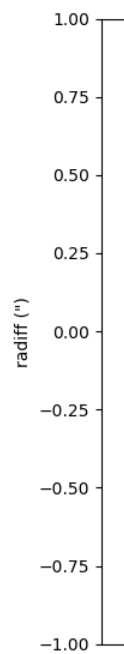
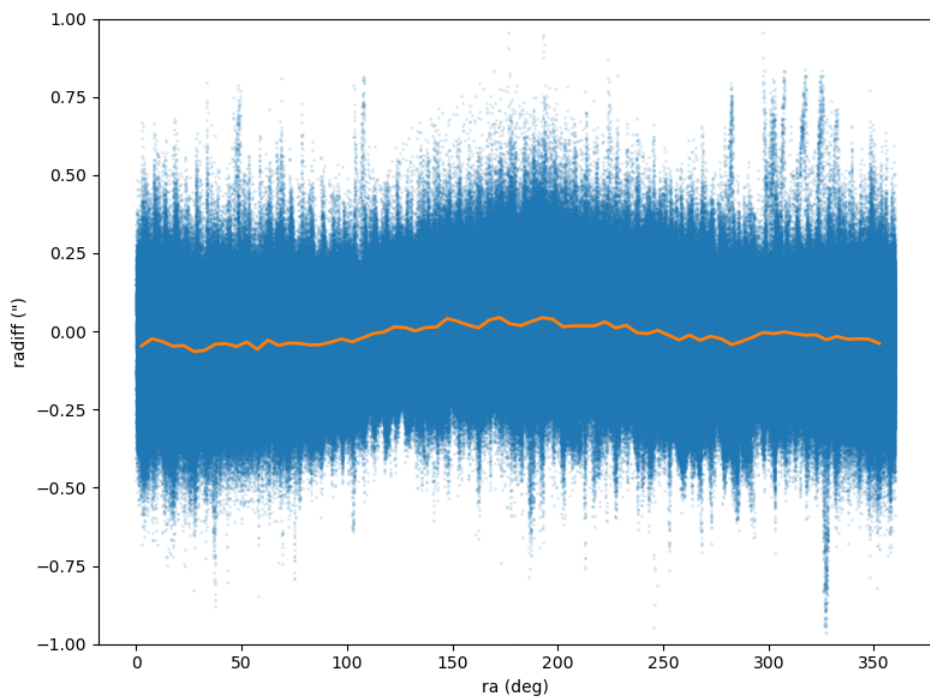
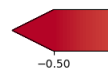
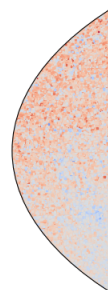
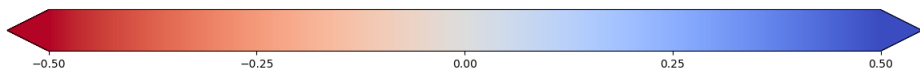
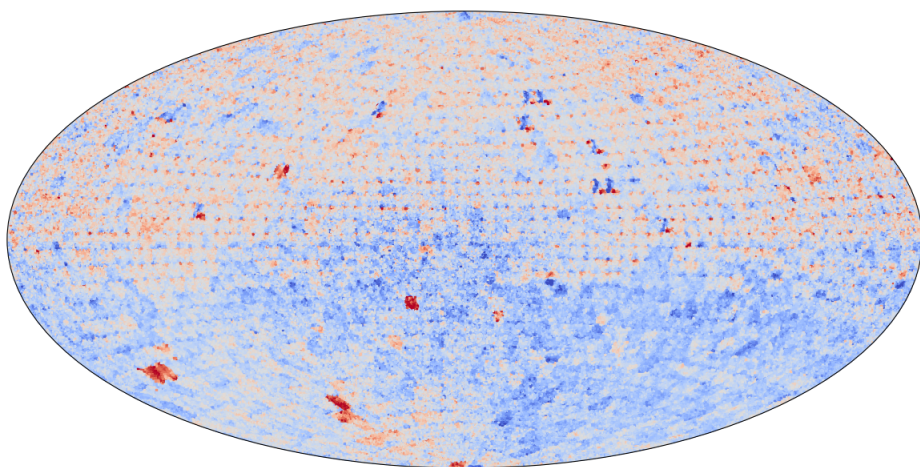
Dec difference:

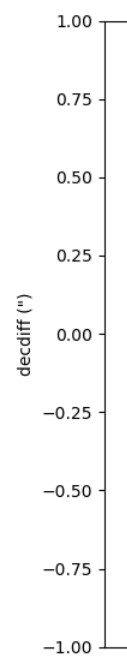
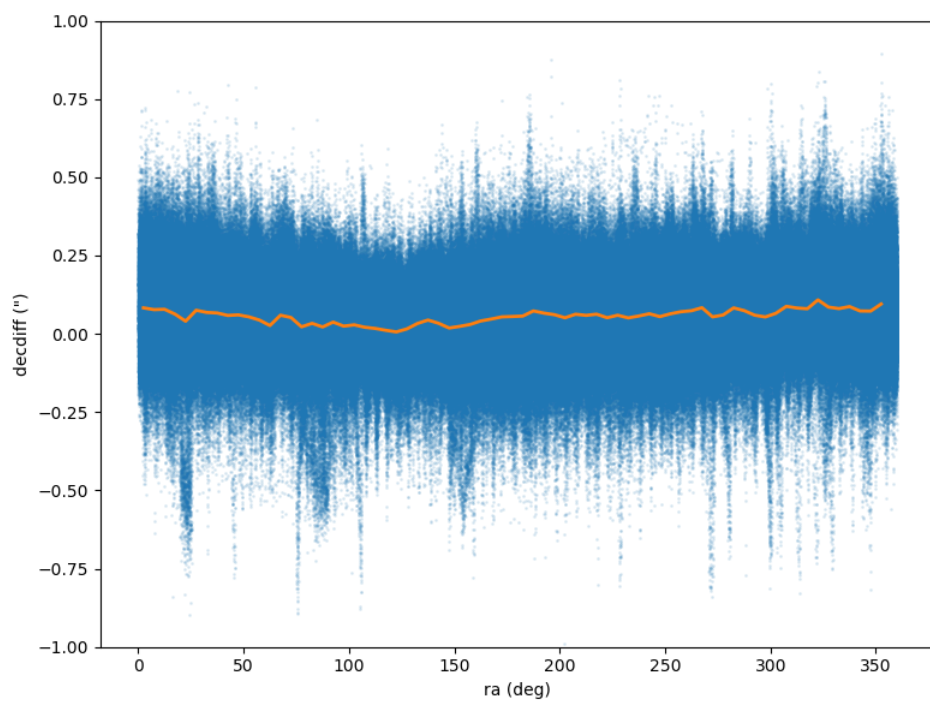
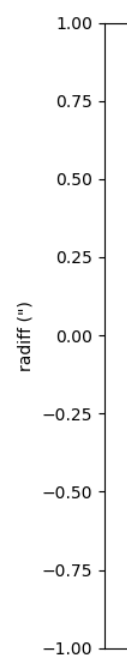
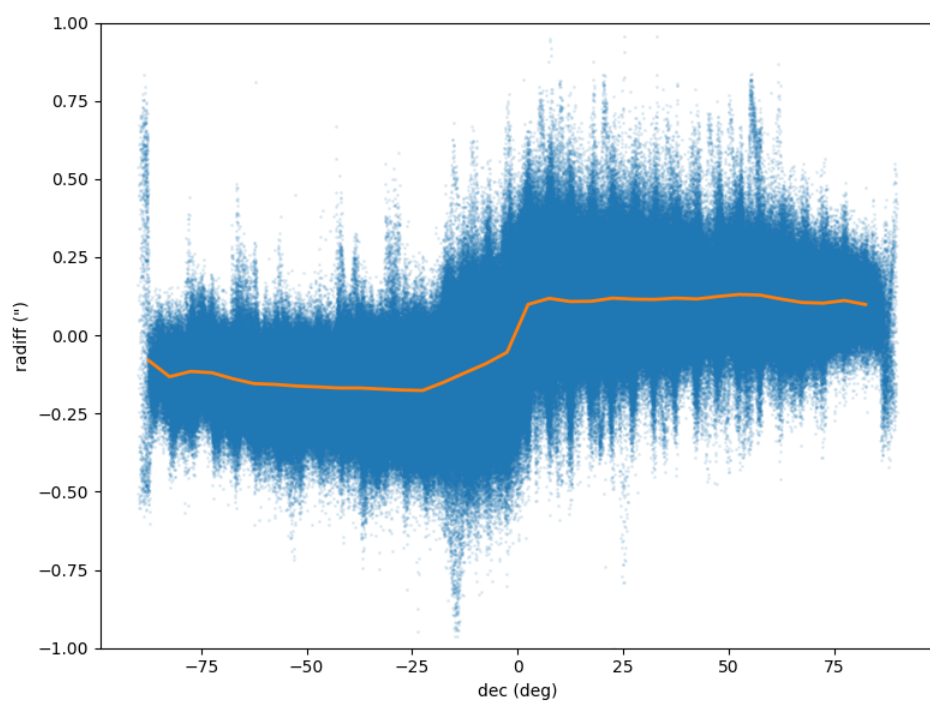
### Comparisons in Equatorial coordin

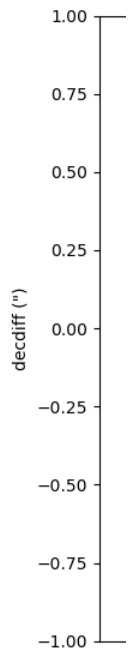
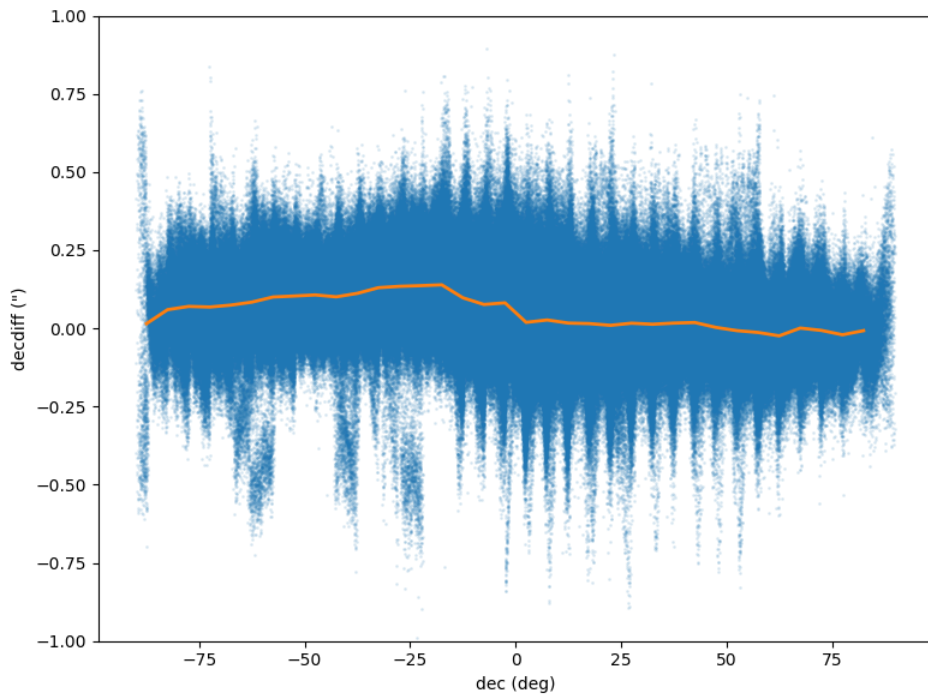
RA difference



Dec difference

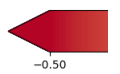
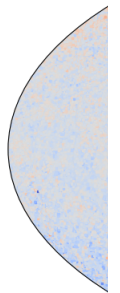
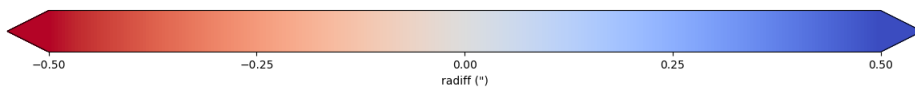
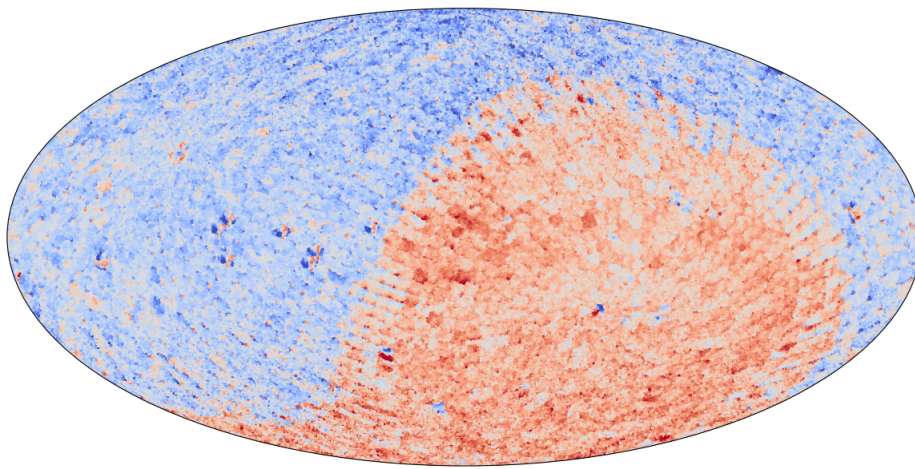






Comparisons in Galactic coordinate

RA difference



Dec difference



