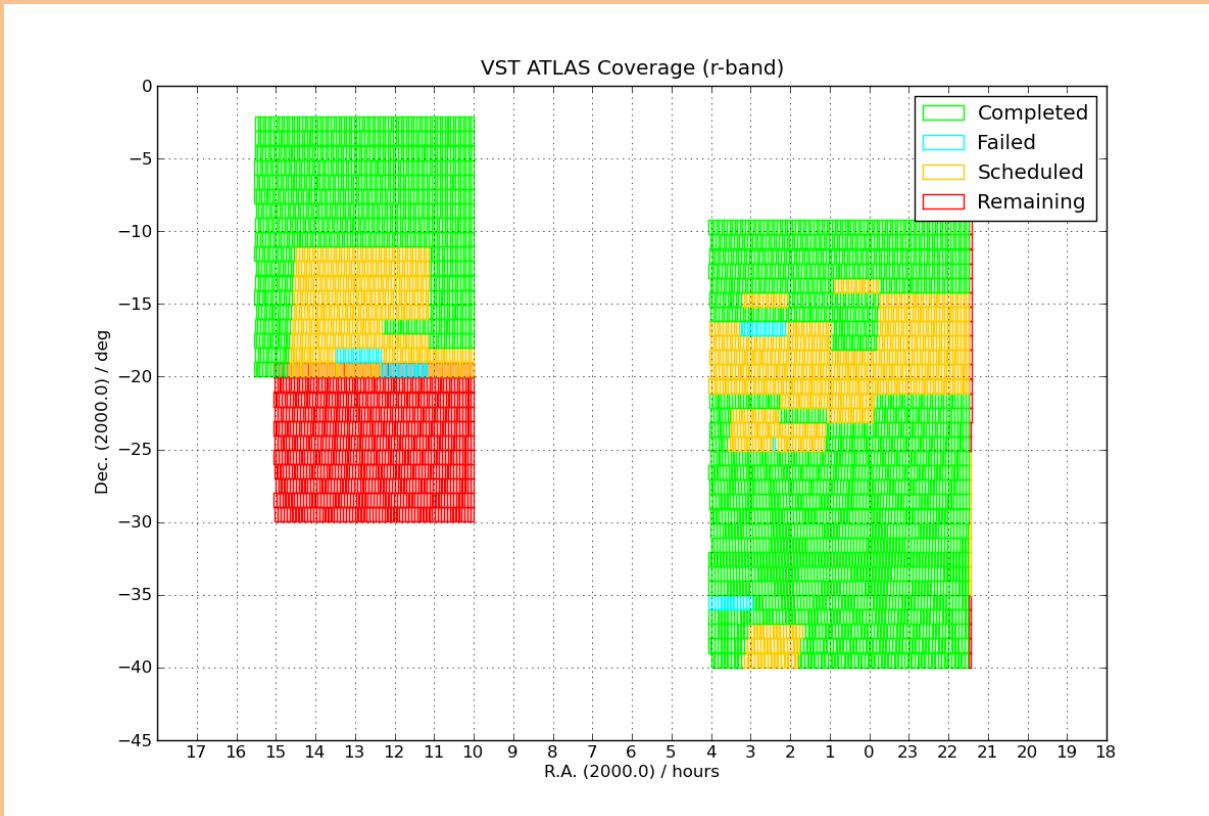


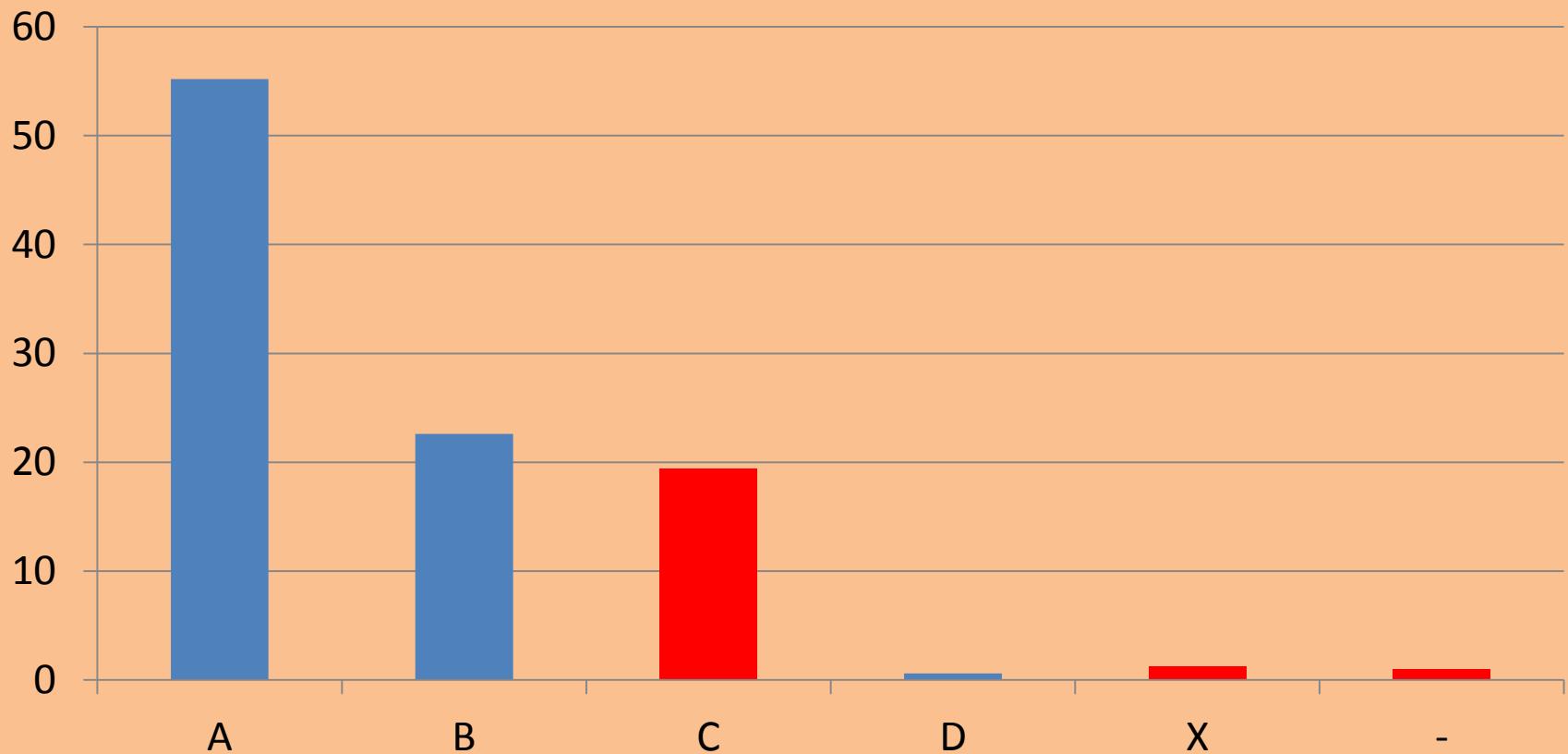
VST ATLAS Data Quality

- Overlap with Pan-STARRS (g,r,i,z), Dec > -30
- Some overlap with SDSS (u,g,r,i,z) Dec > -10



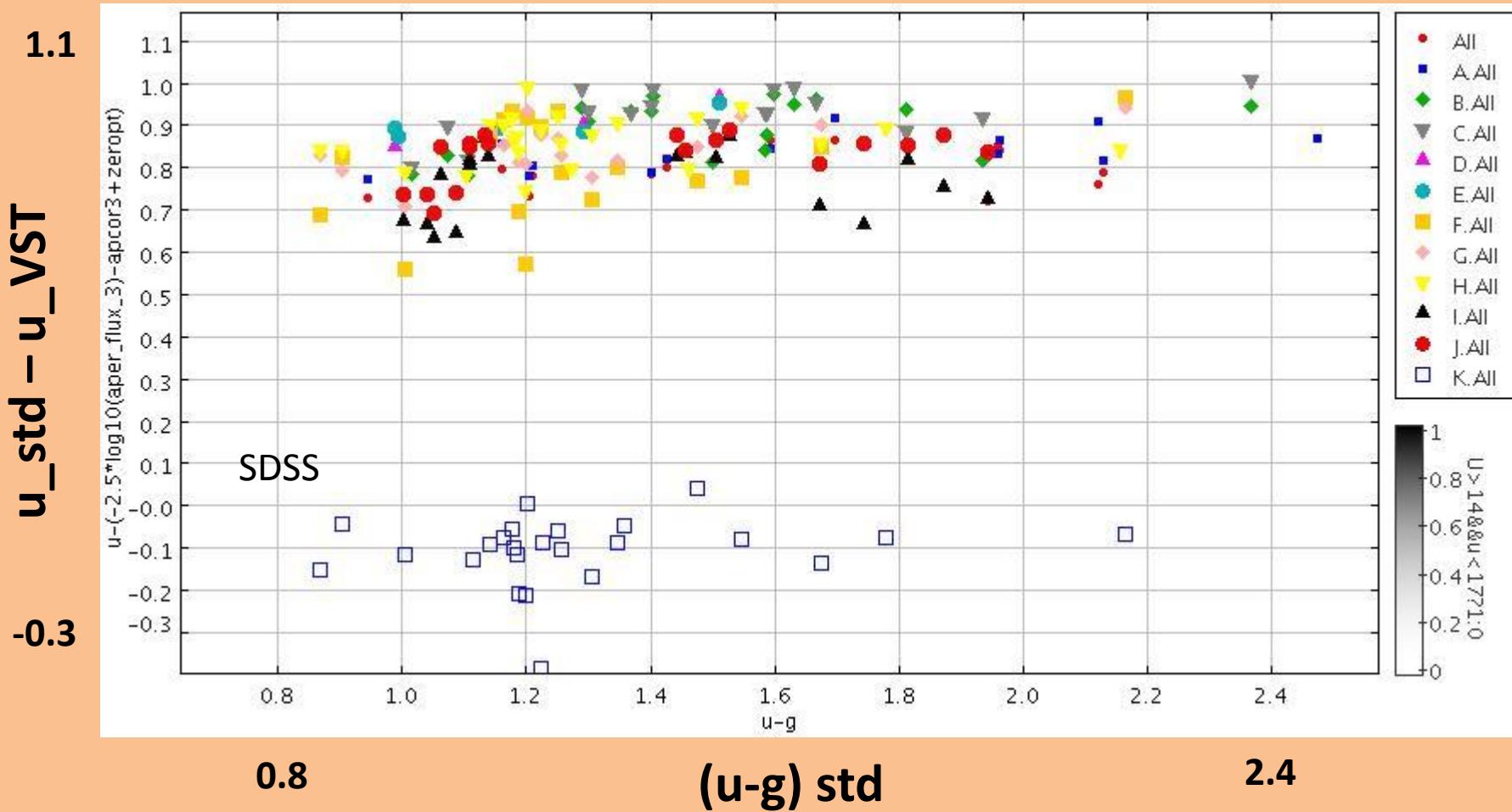
ESO OB Quality

Statistics for Run C OBs (%)

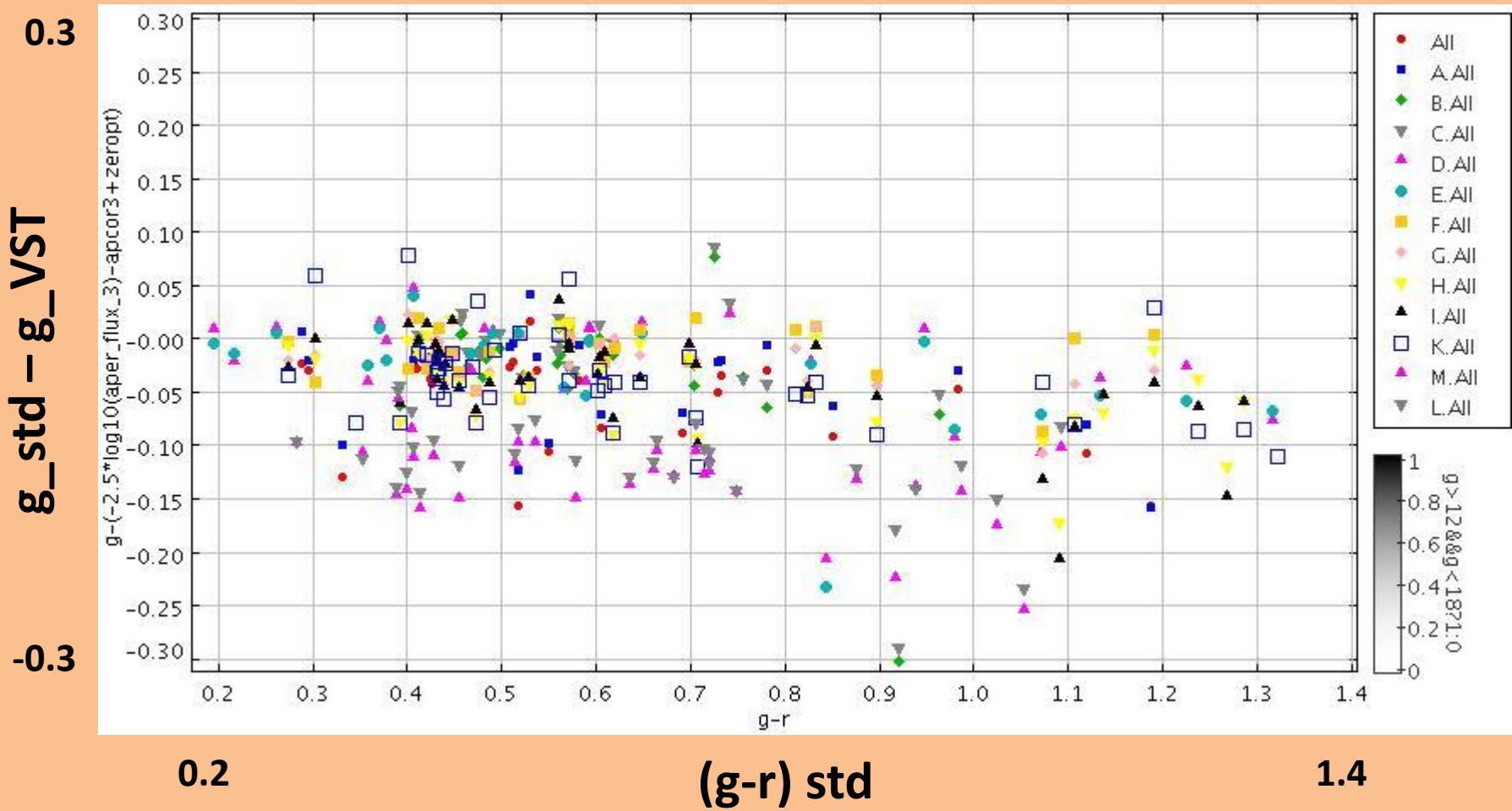


Standard stars fields

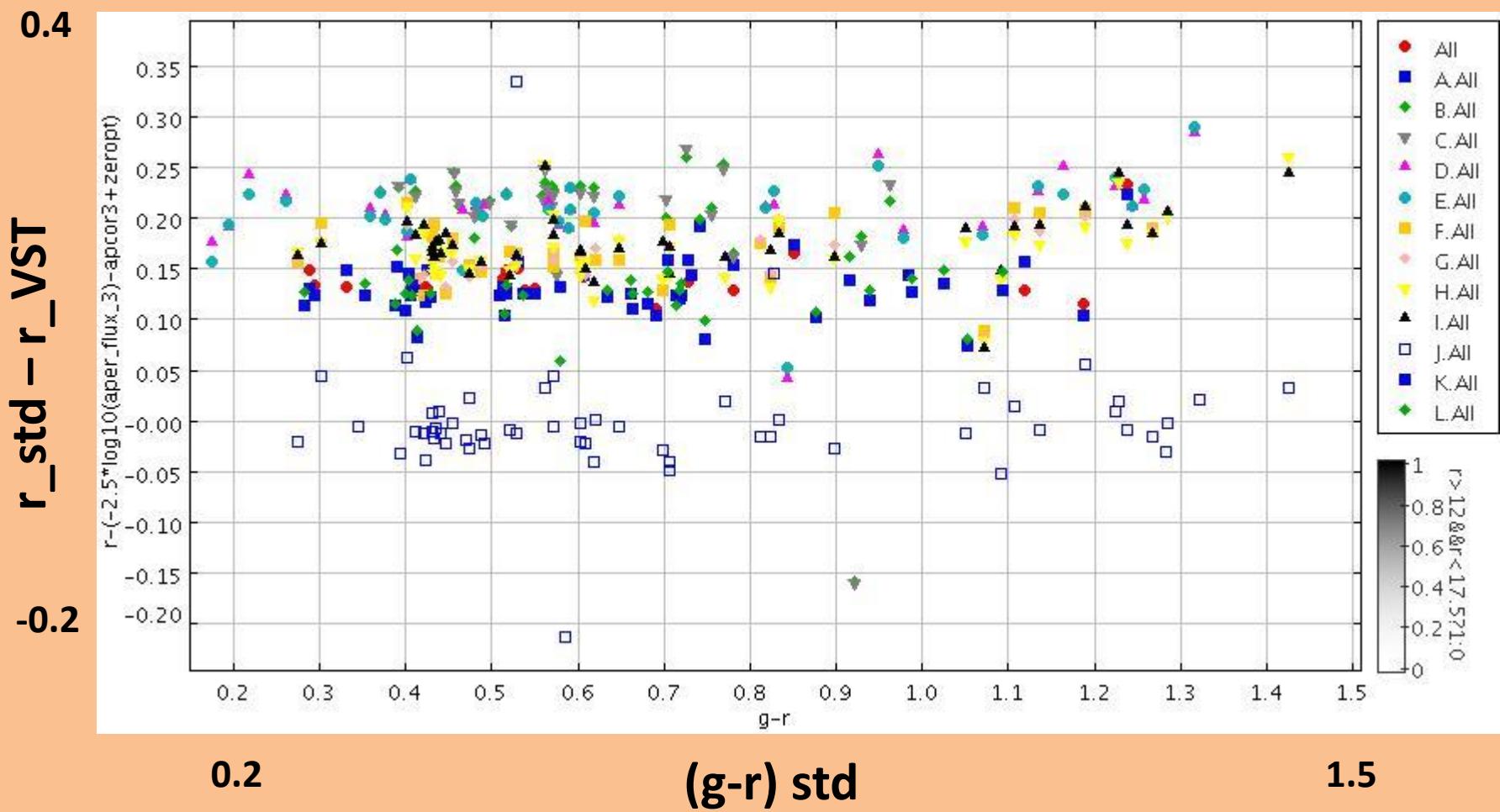
(NOAO Southern Standard Stars for ugriz)



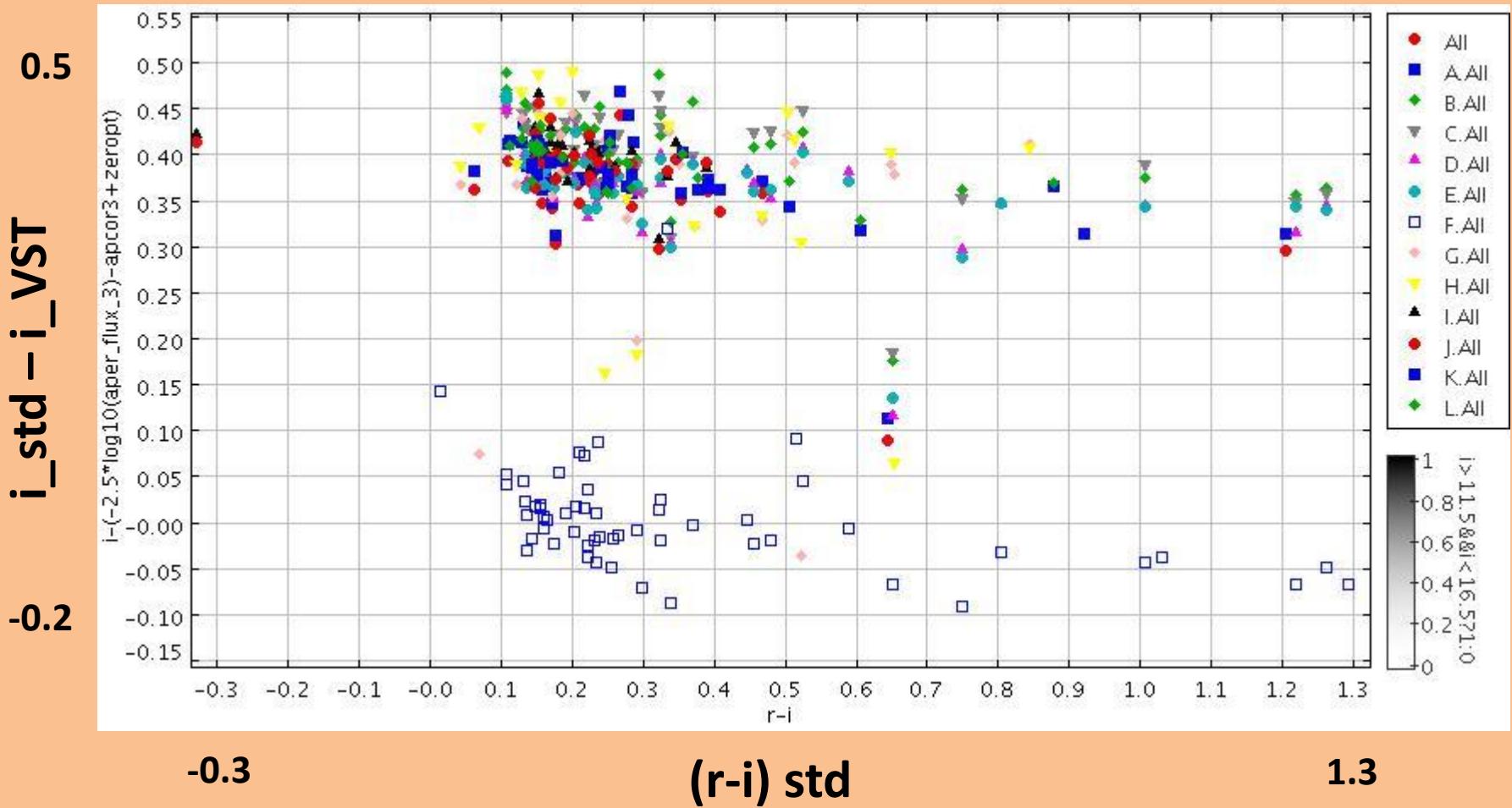
Standard star fields



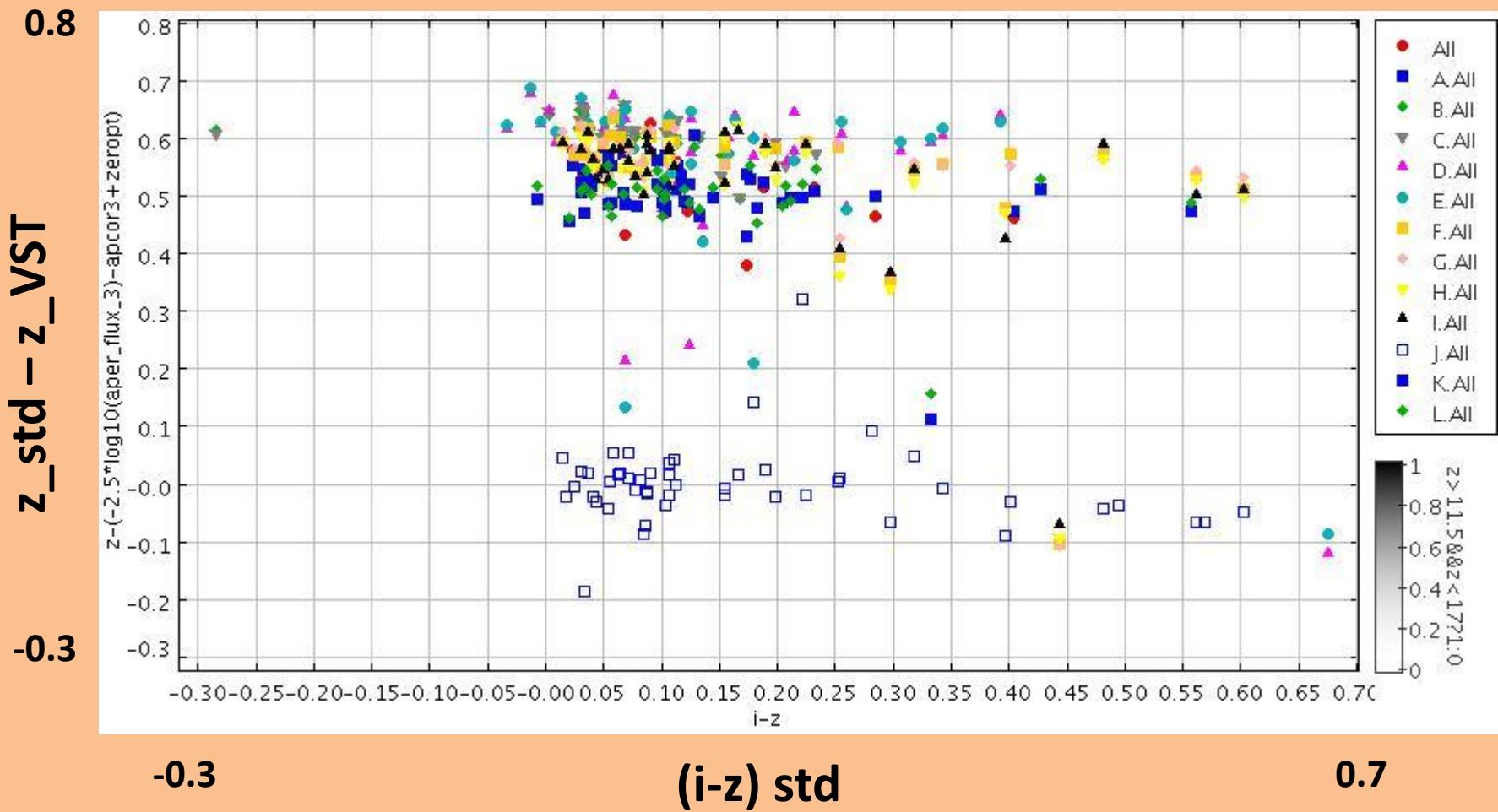
Standard star fields



Standard fields

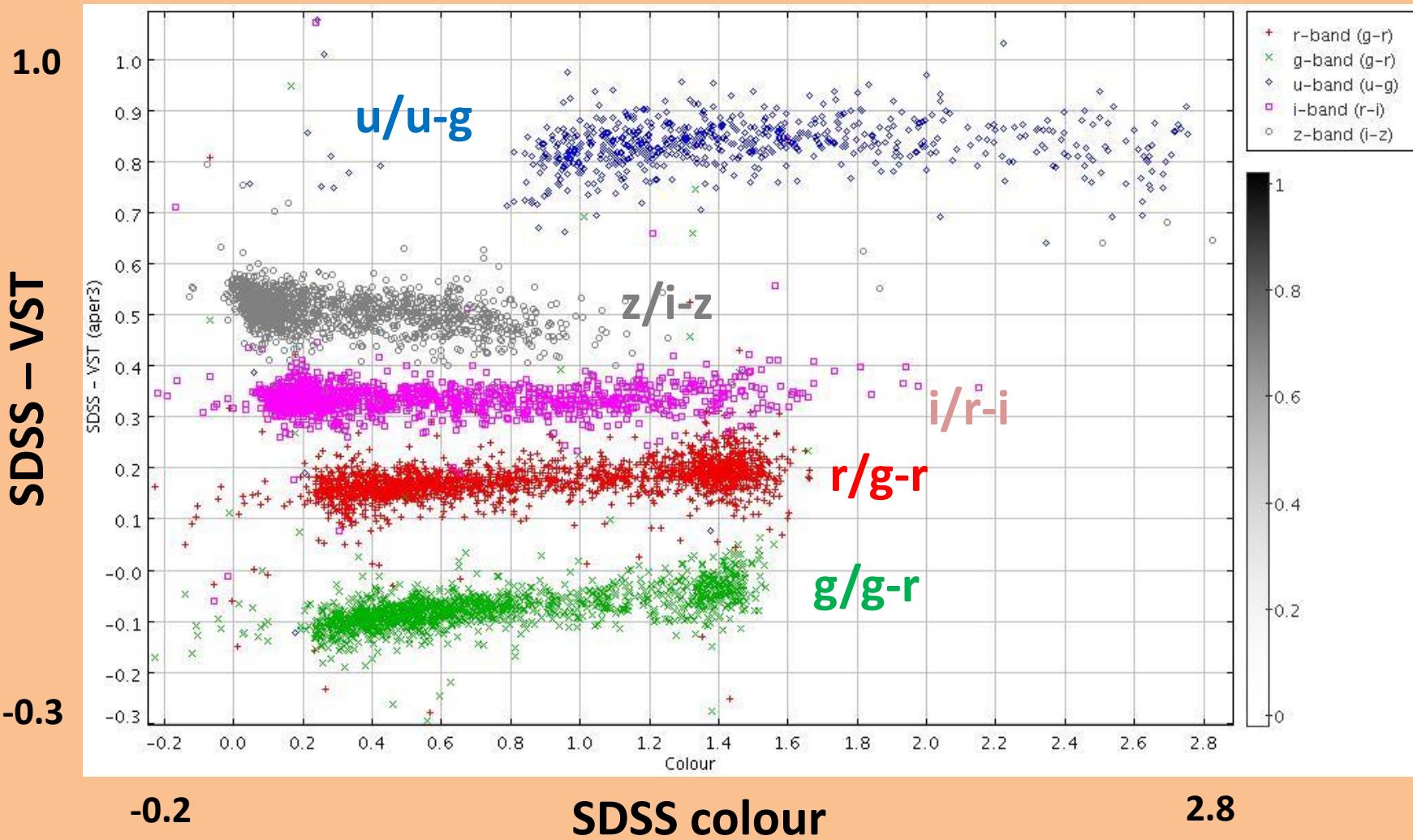


Standard star fields



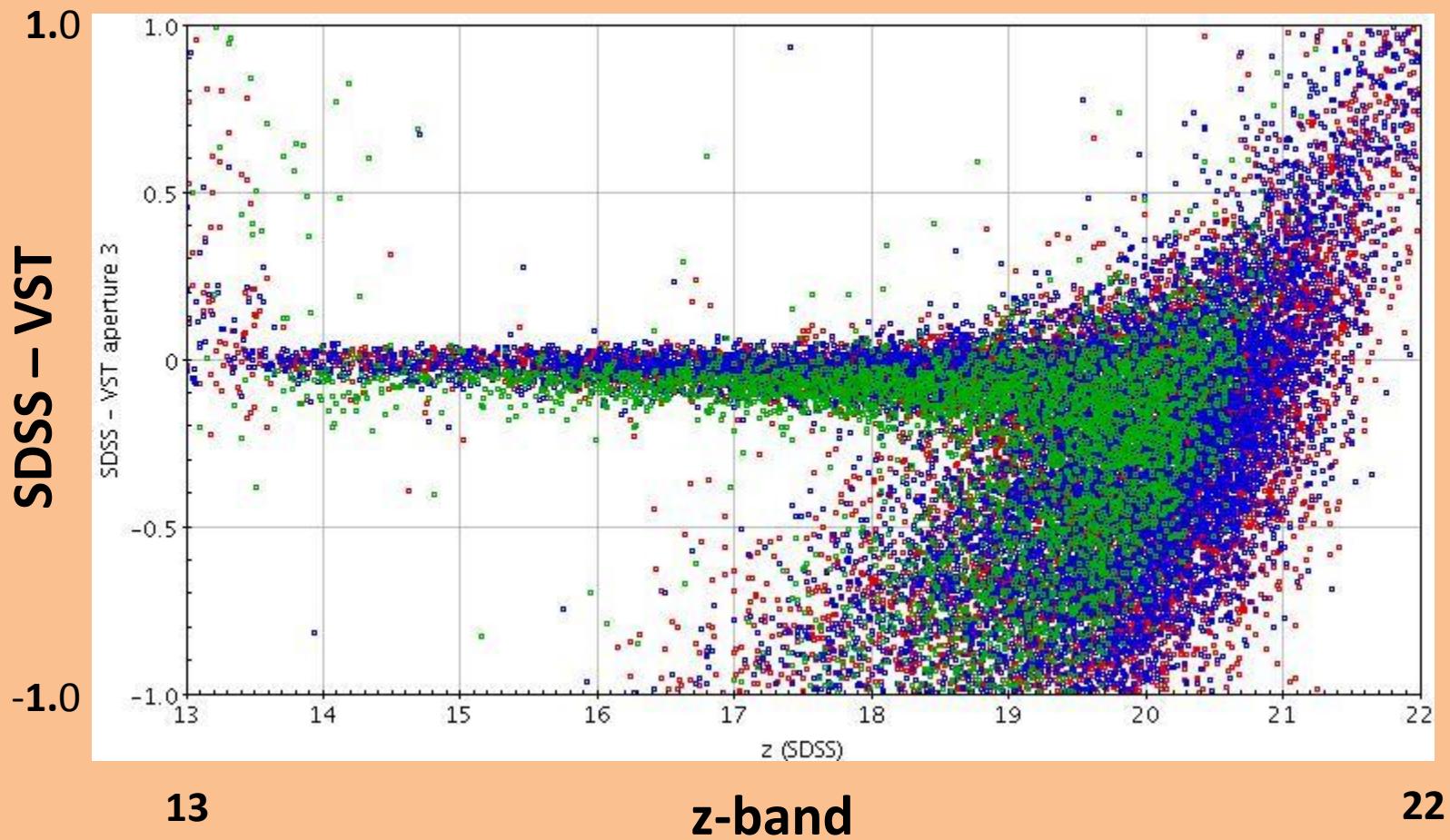
SDSS colour terms

(Stars)



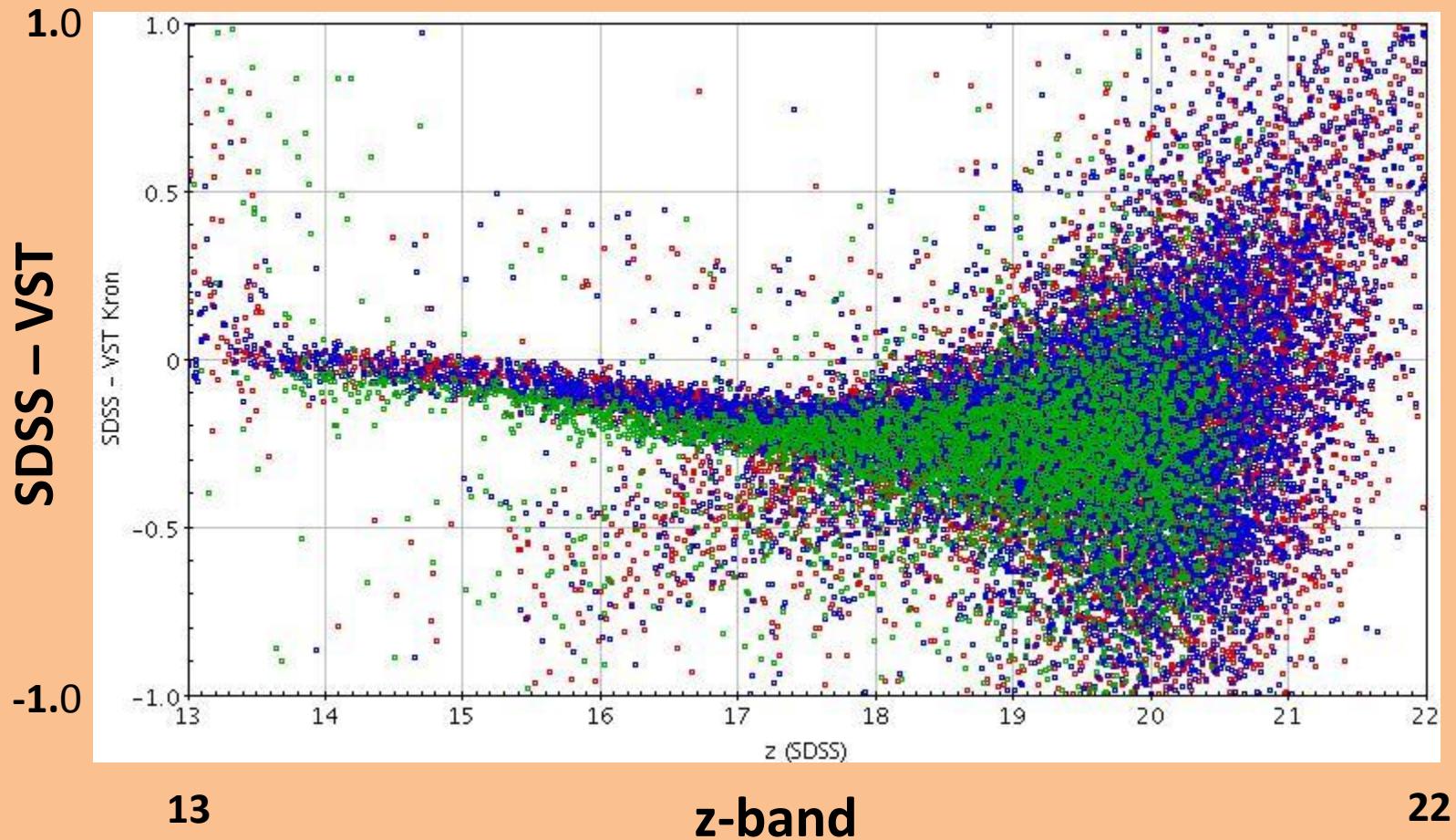
Magnitude comparisons

VST aperture magnitudes, all objects



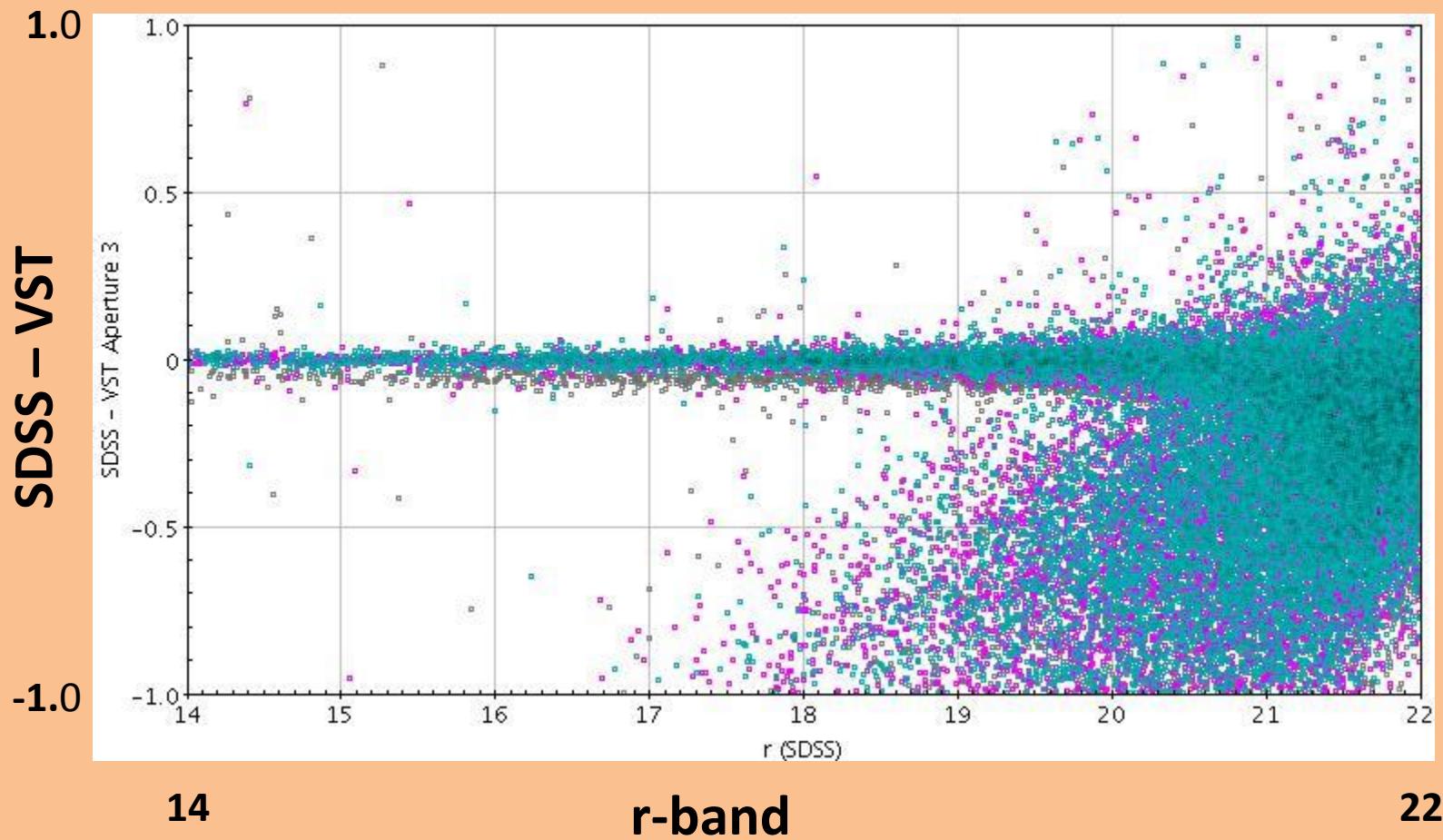
Magnitude comparisons

VST Kron magnitudes, all objects



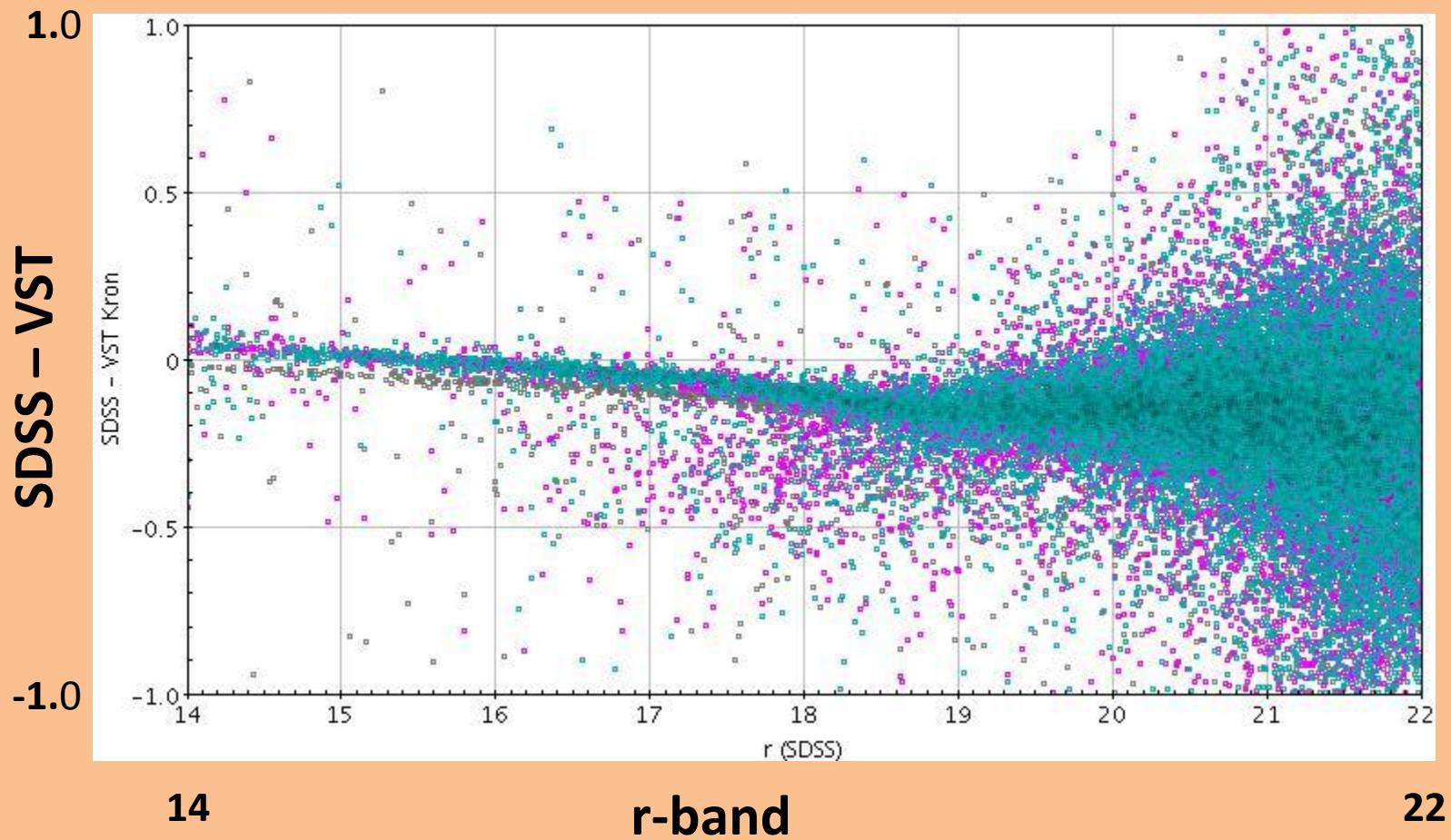
Magnitude comparisons

Aperture magnitudes, all objects



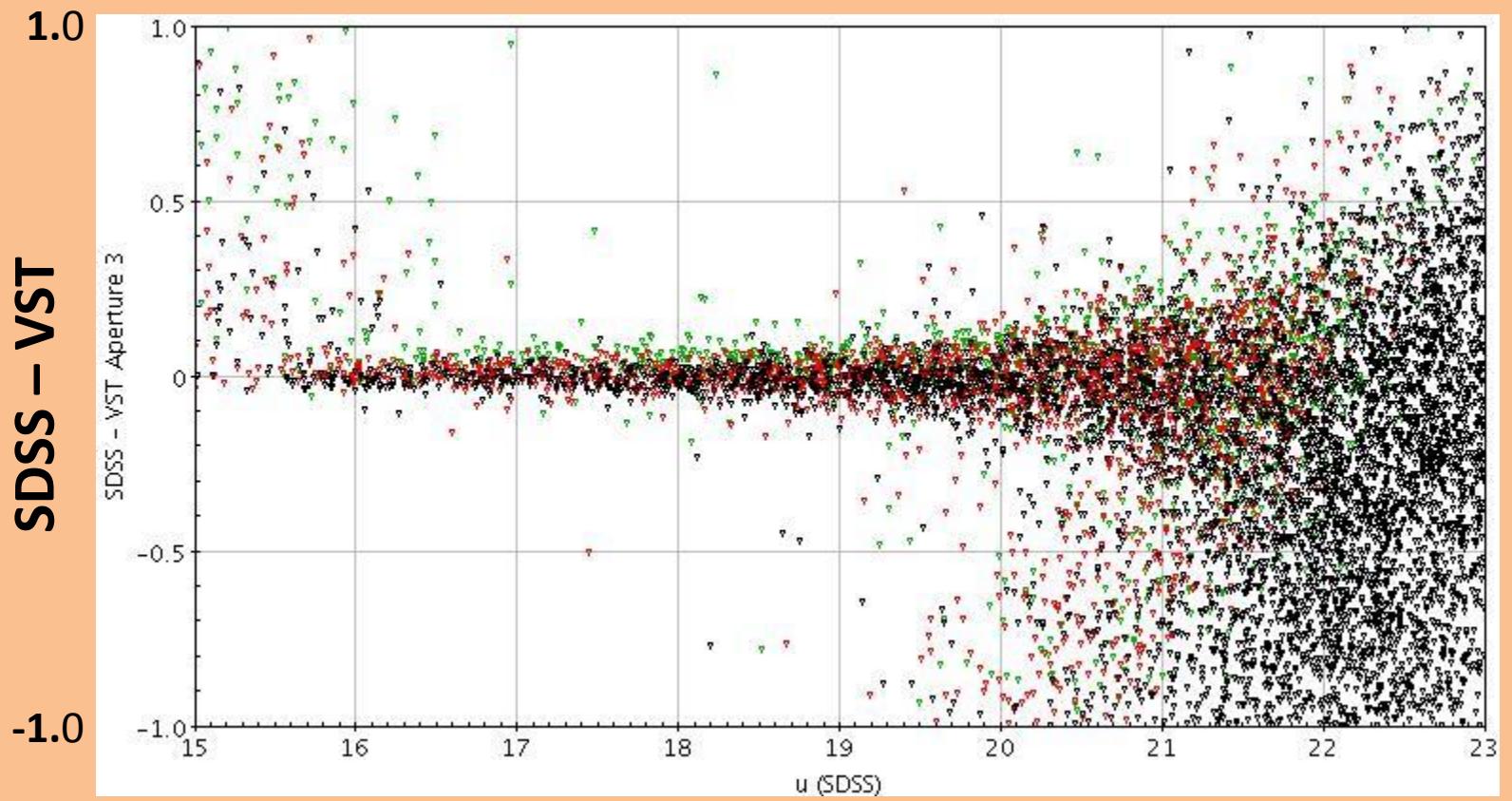
Magnitude comparisons

Kron magnitudes, all objects



Magnitude comparisons

Aperture magnitudes, all objects



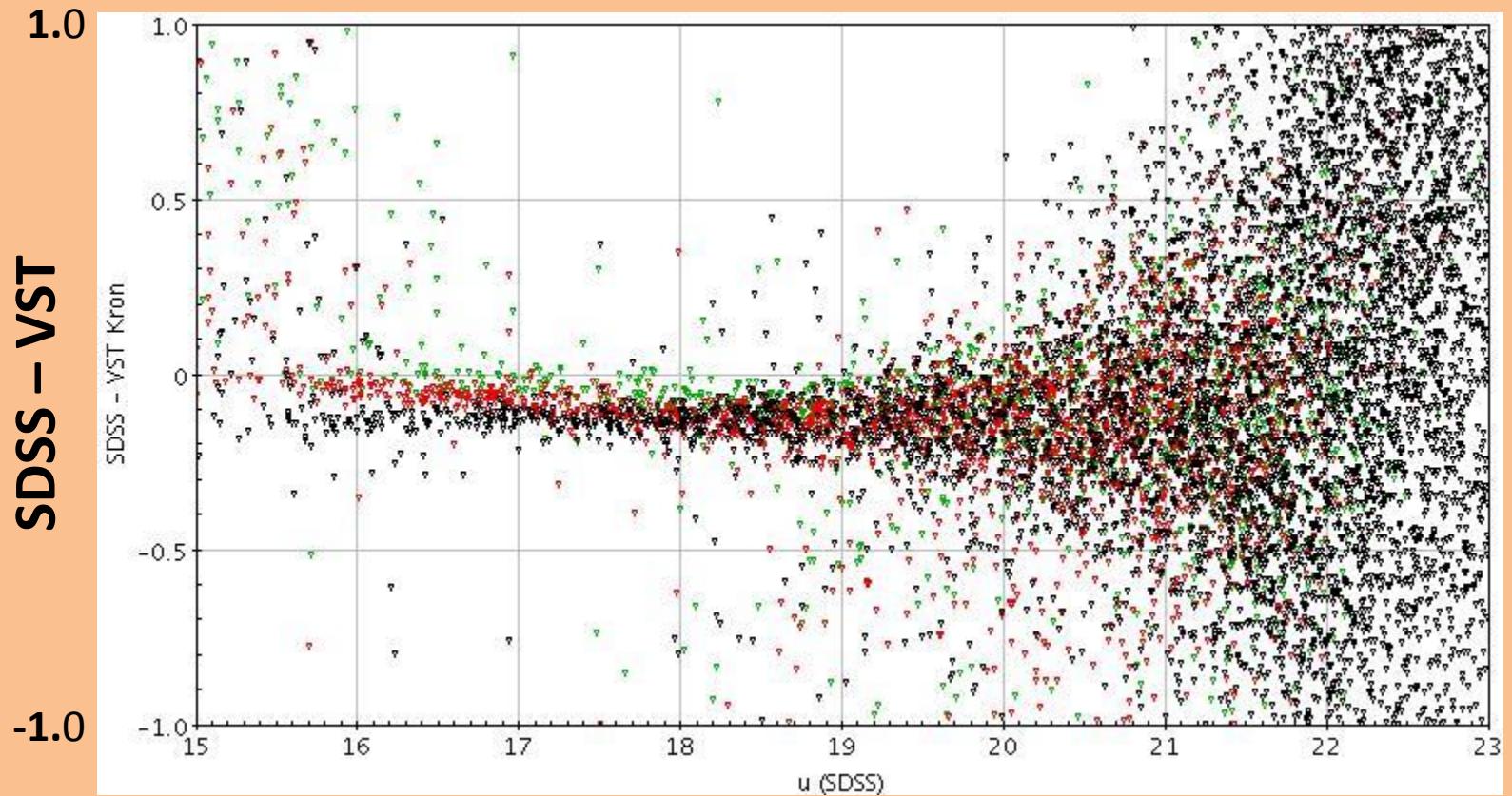
15

u-band (black points forced)

23

Magnitude comparisons

Kron magnitudes, all objects



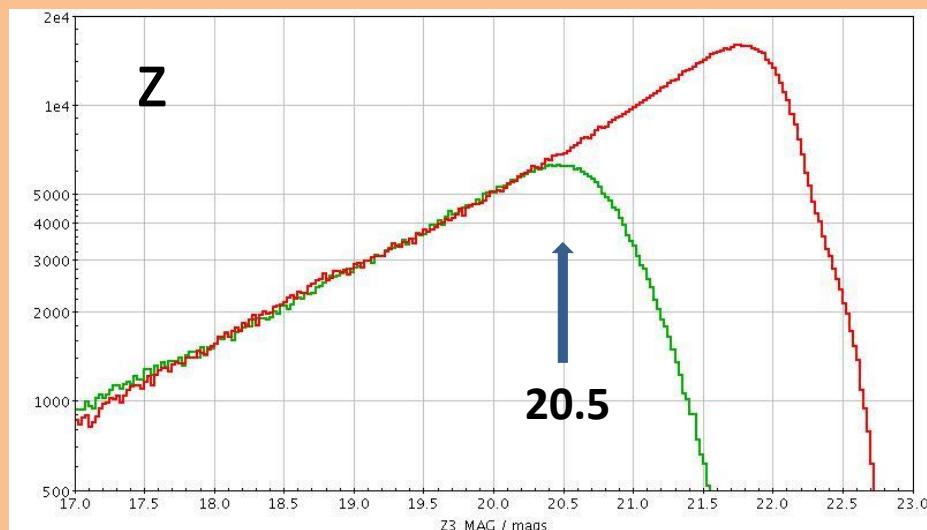
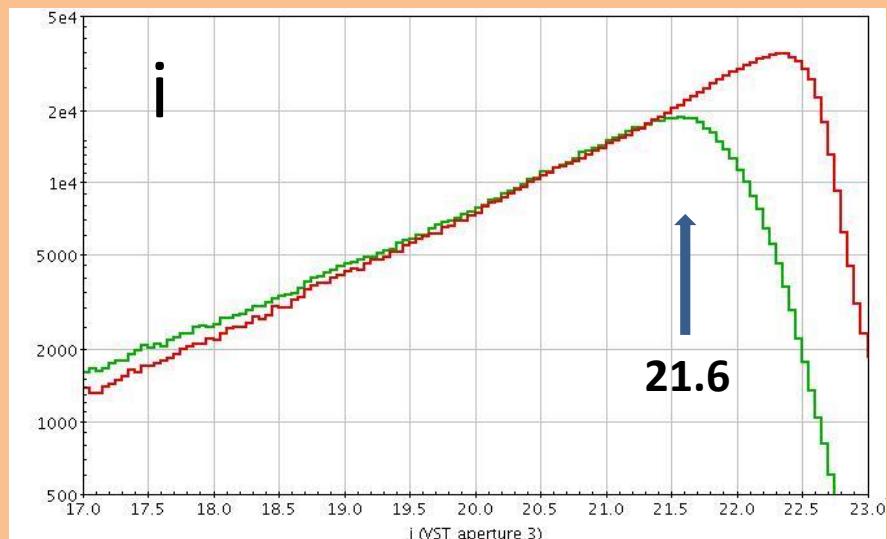
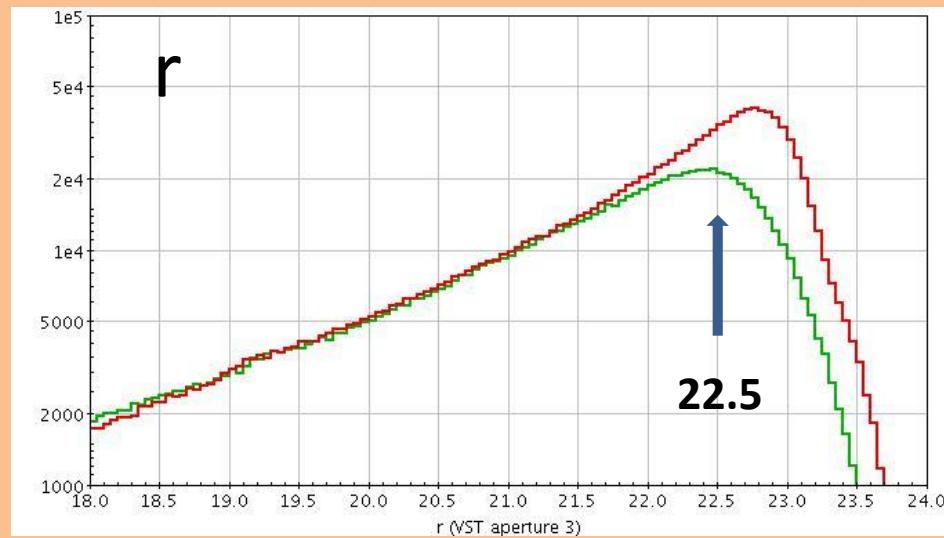
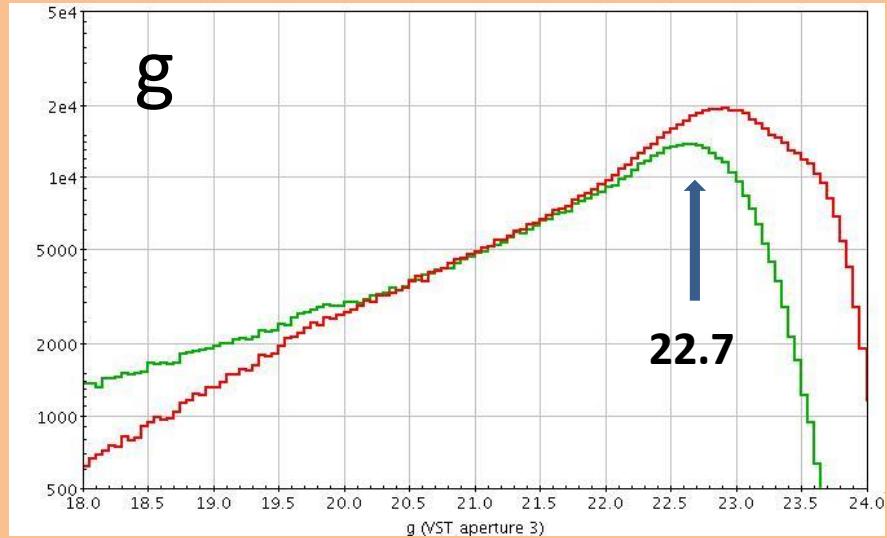
15

u-band (black points forced)

23

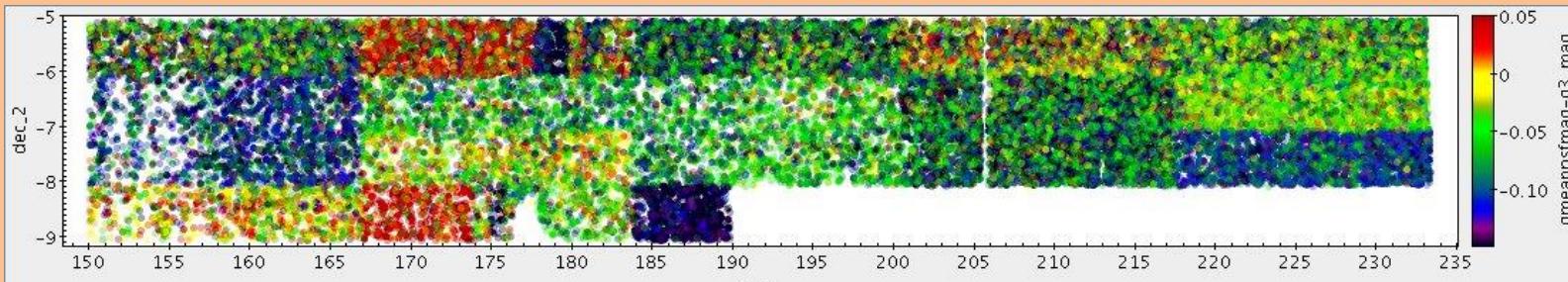
Magnitude limits

Green – VST , matched to Pan-STARRS (AB, point source)

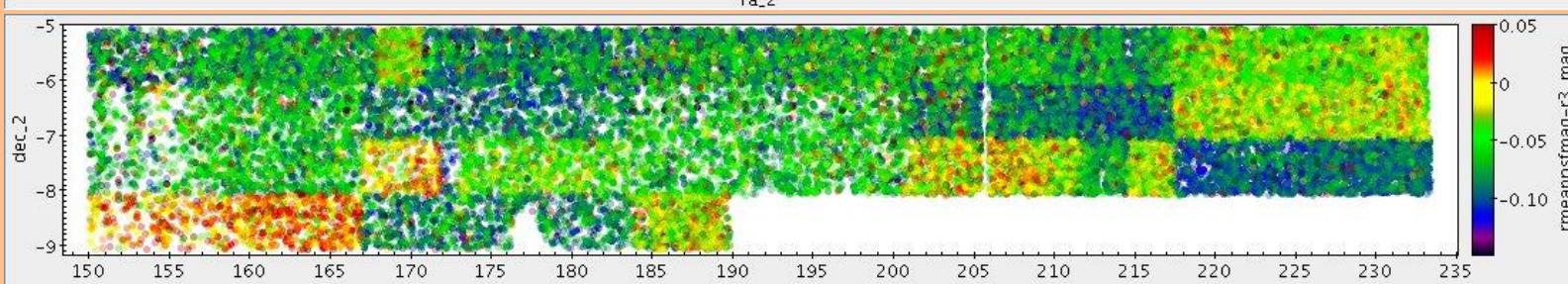


Calibration: VST v PS1

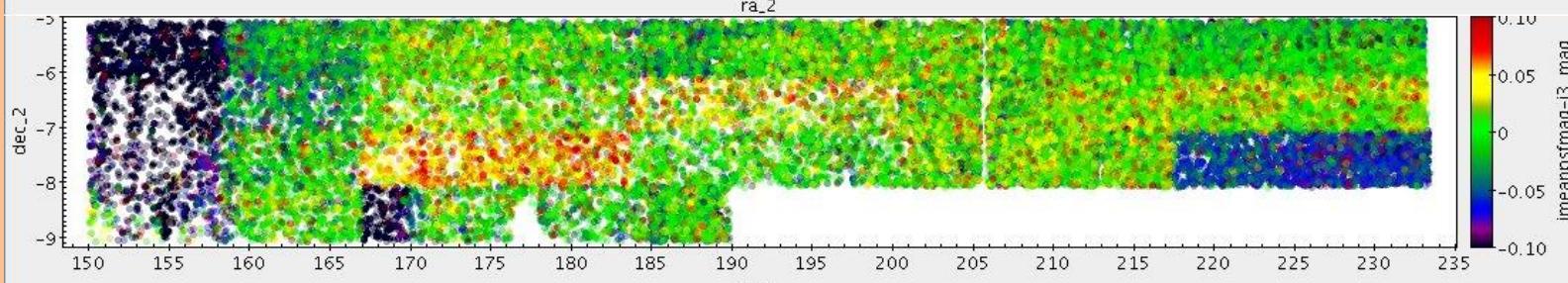
b0



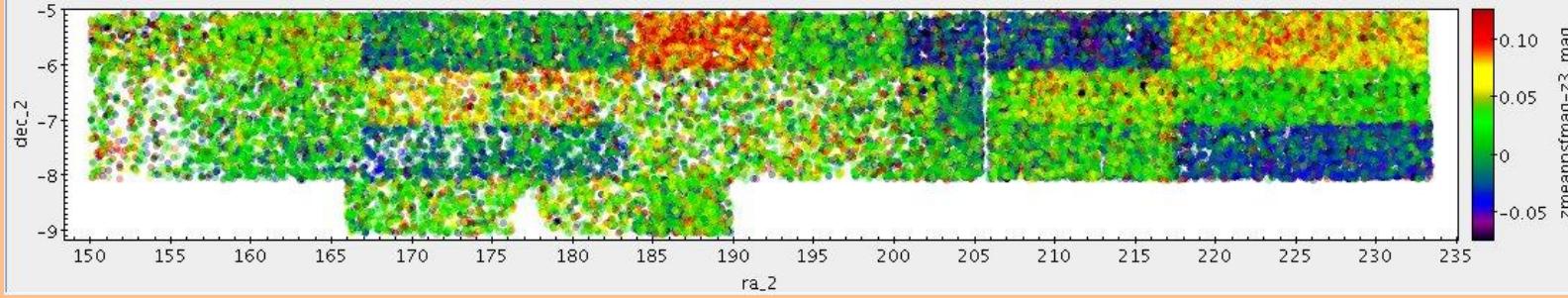
r



i



z



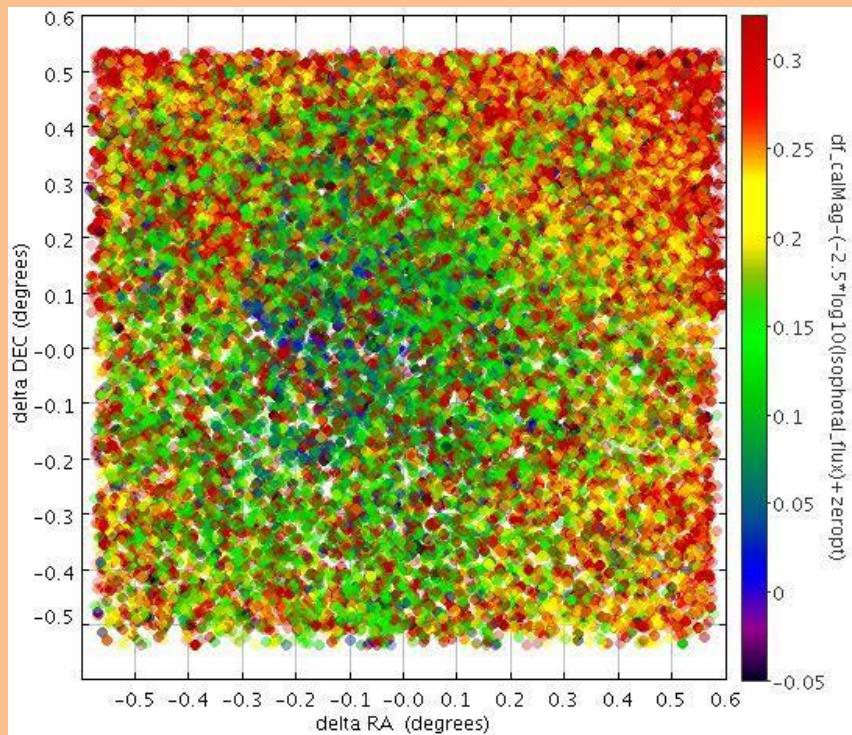
Colours span 0.2 mag

Residual Gradients

Stacked tiles – comparison with Pan-STARRS

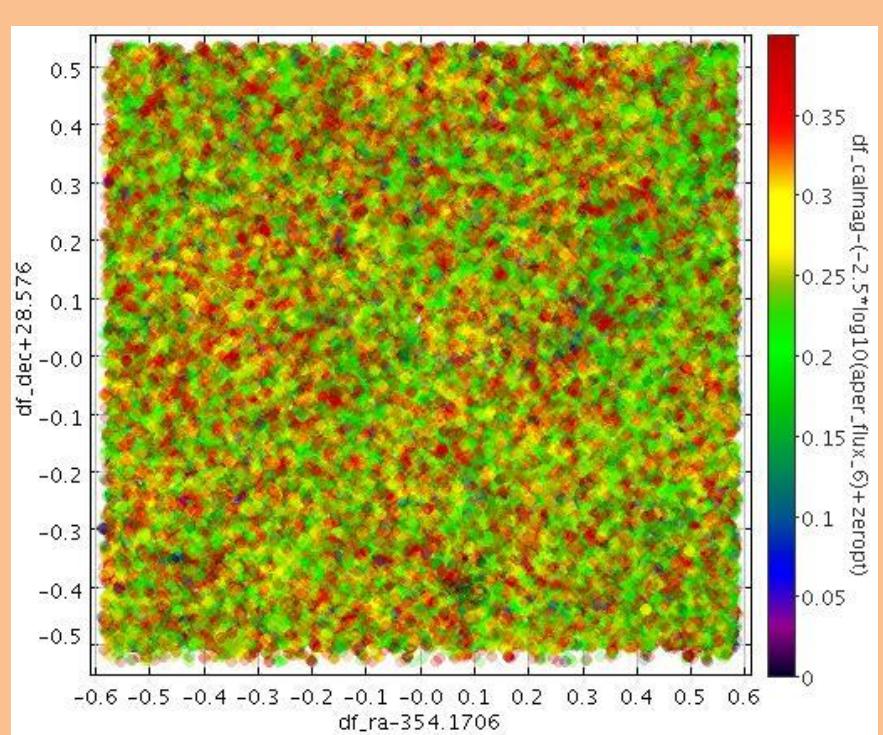
Before illumination correction

Δ Dec



Δ RA

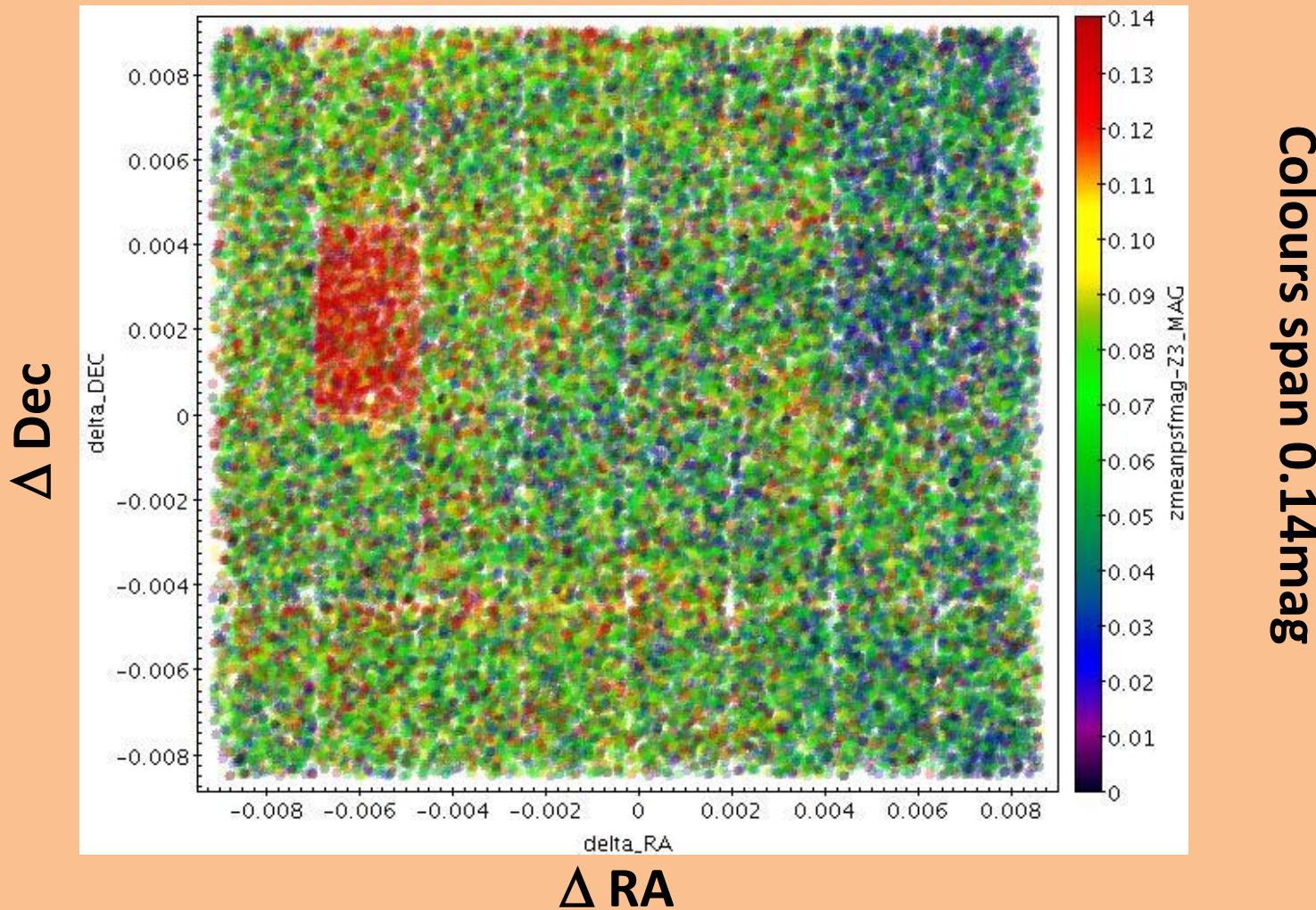
After



Colours span 0.4 mags

Residual Gradients

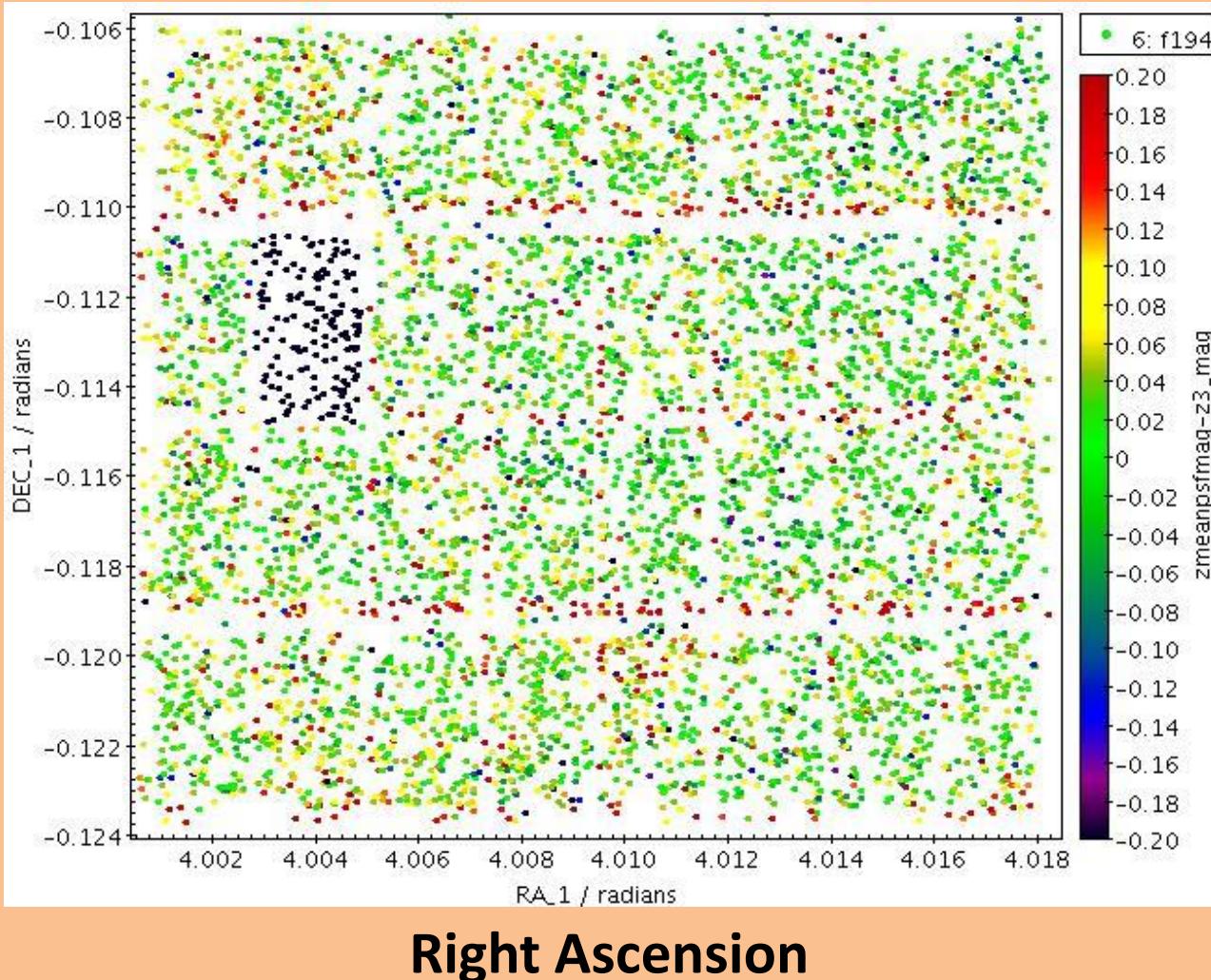
~10 z-band stacks from May 2012 after correction



Variable seeing

Single A-grade z stack: stars only – aper magnitude offsets

Declination



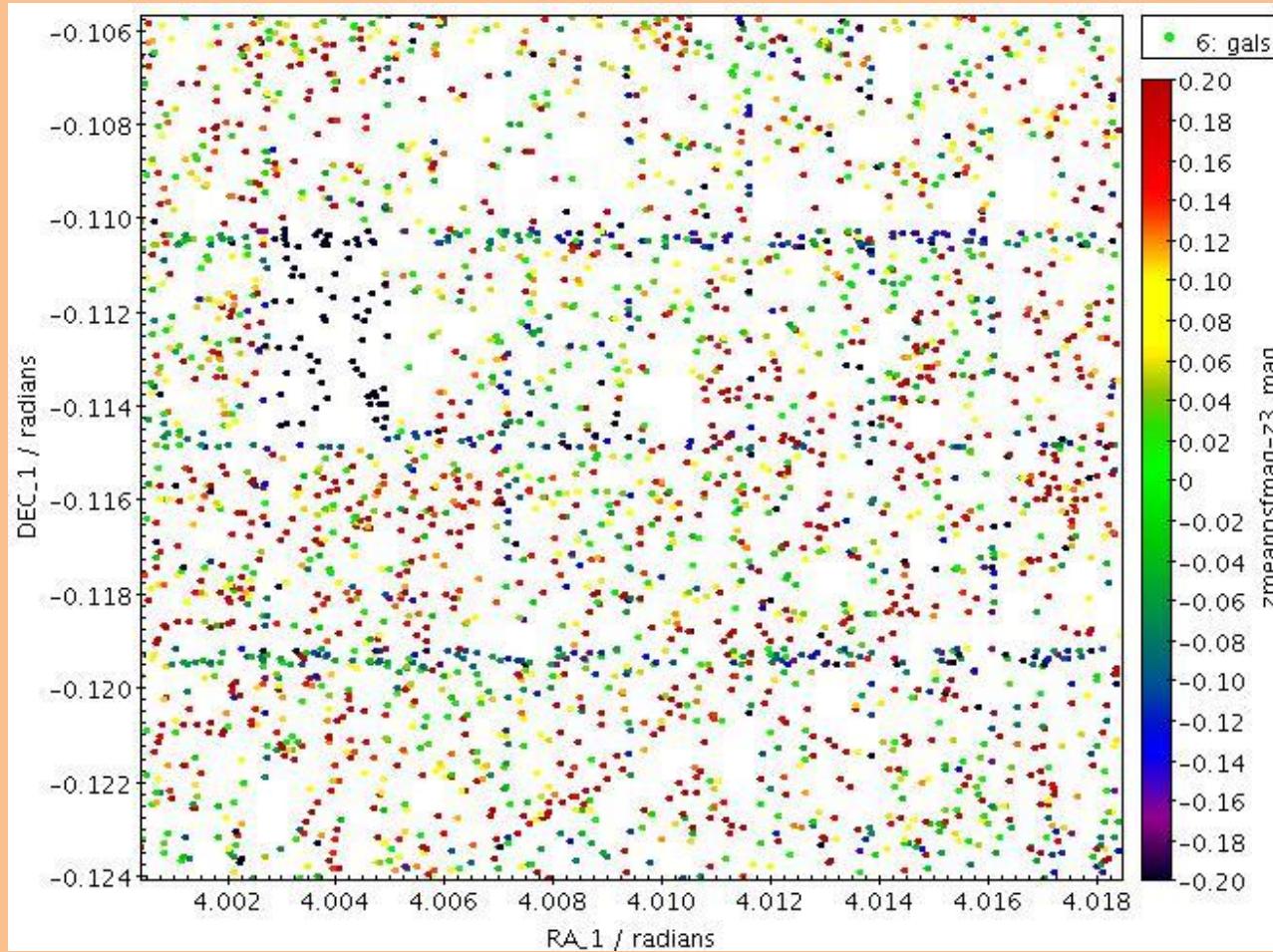
Right Ascension

Colours span 0.4 mag

Variable seeing

Same stack: now the bright galaxies only

Declination

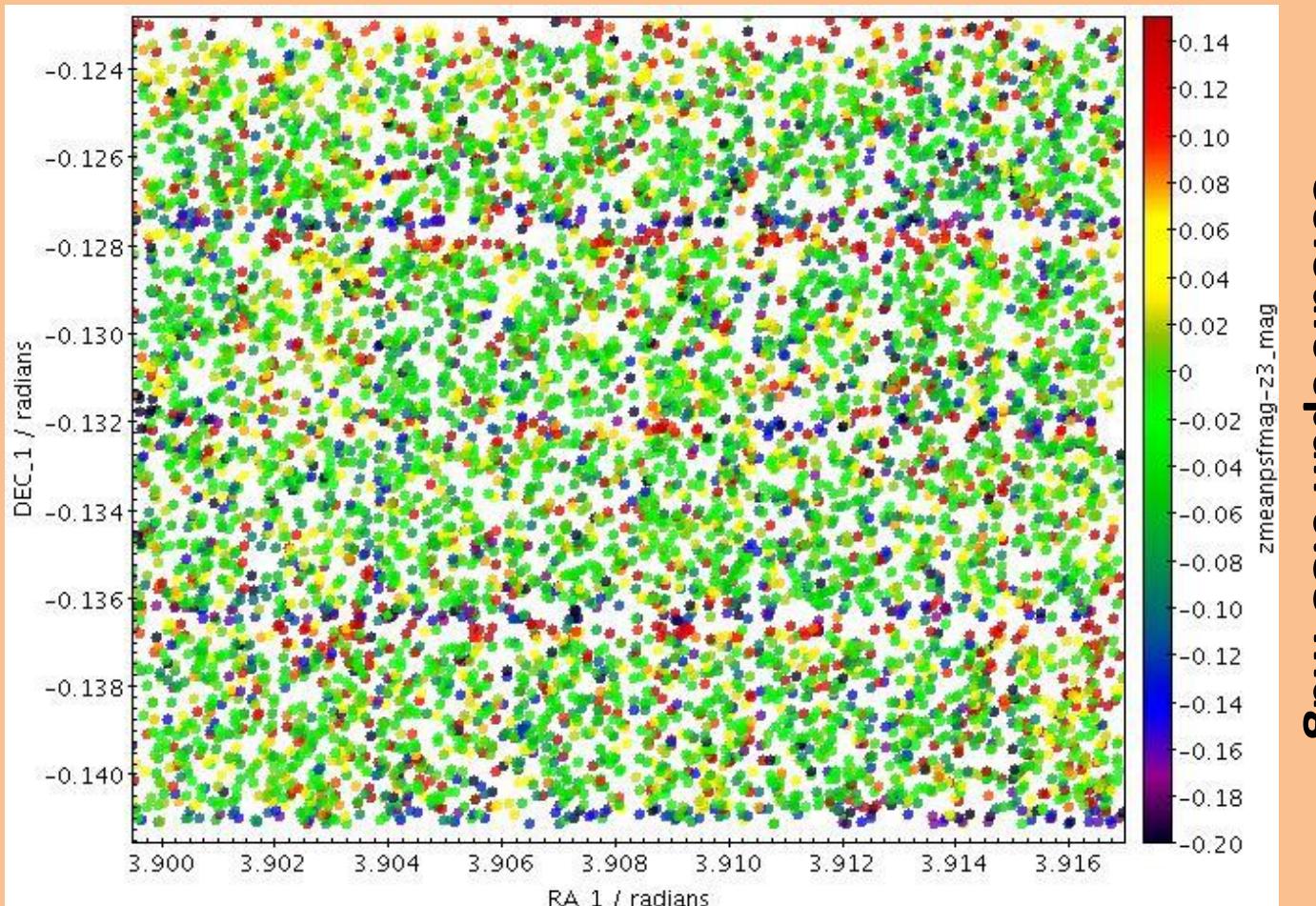


Right Ascension

Variable seeing

Different A-grade z stack: all objects

Declination

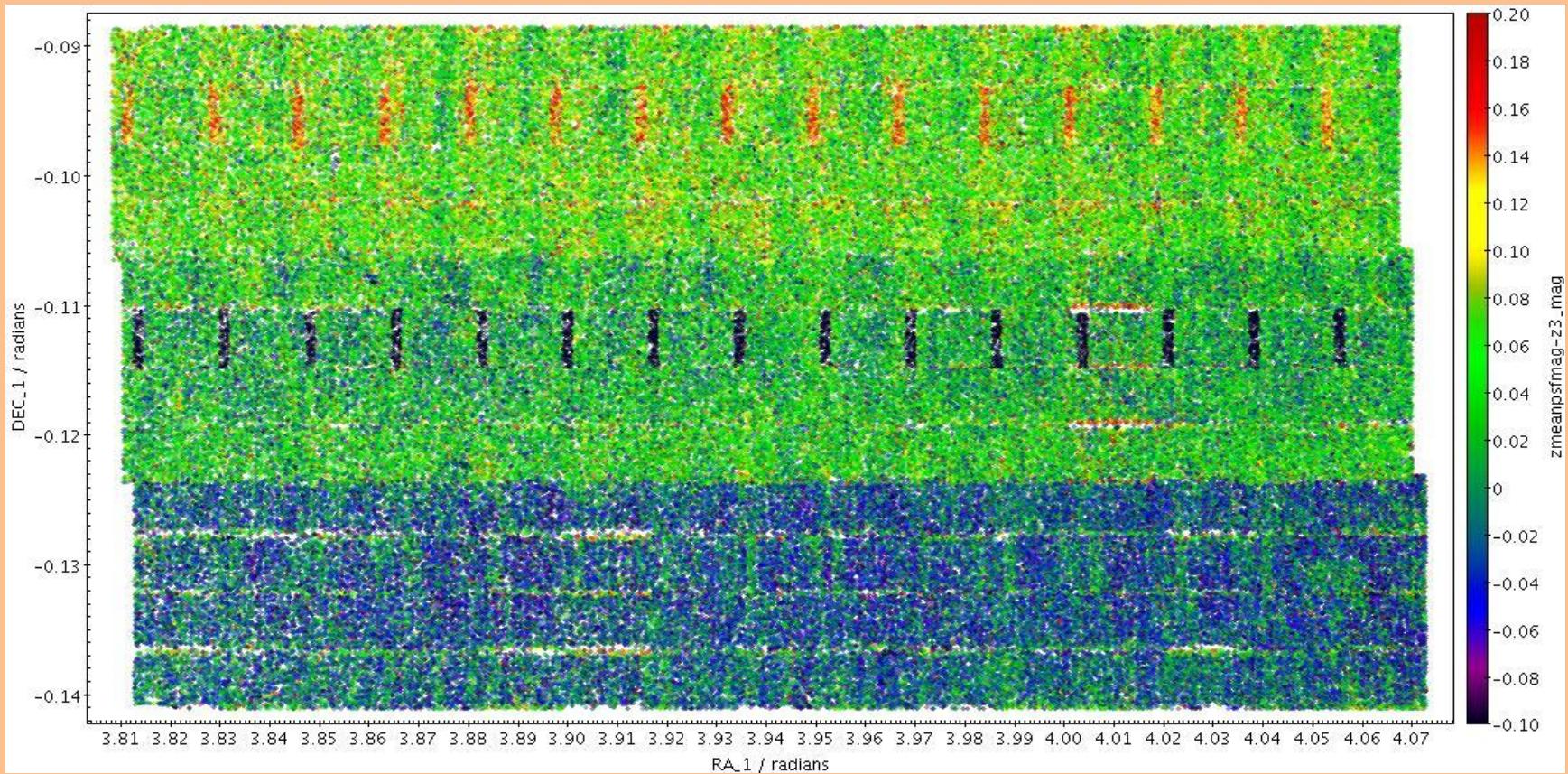


Right Ascension

Colours span 0.35 mag

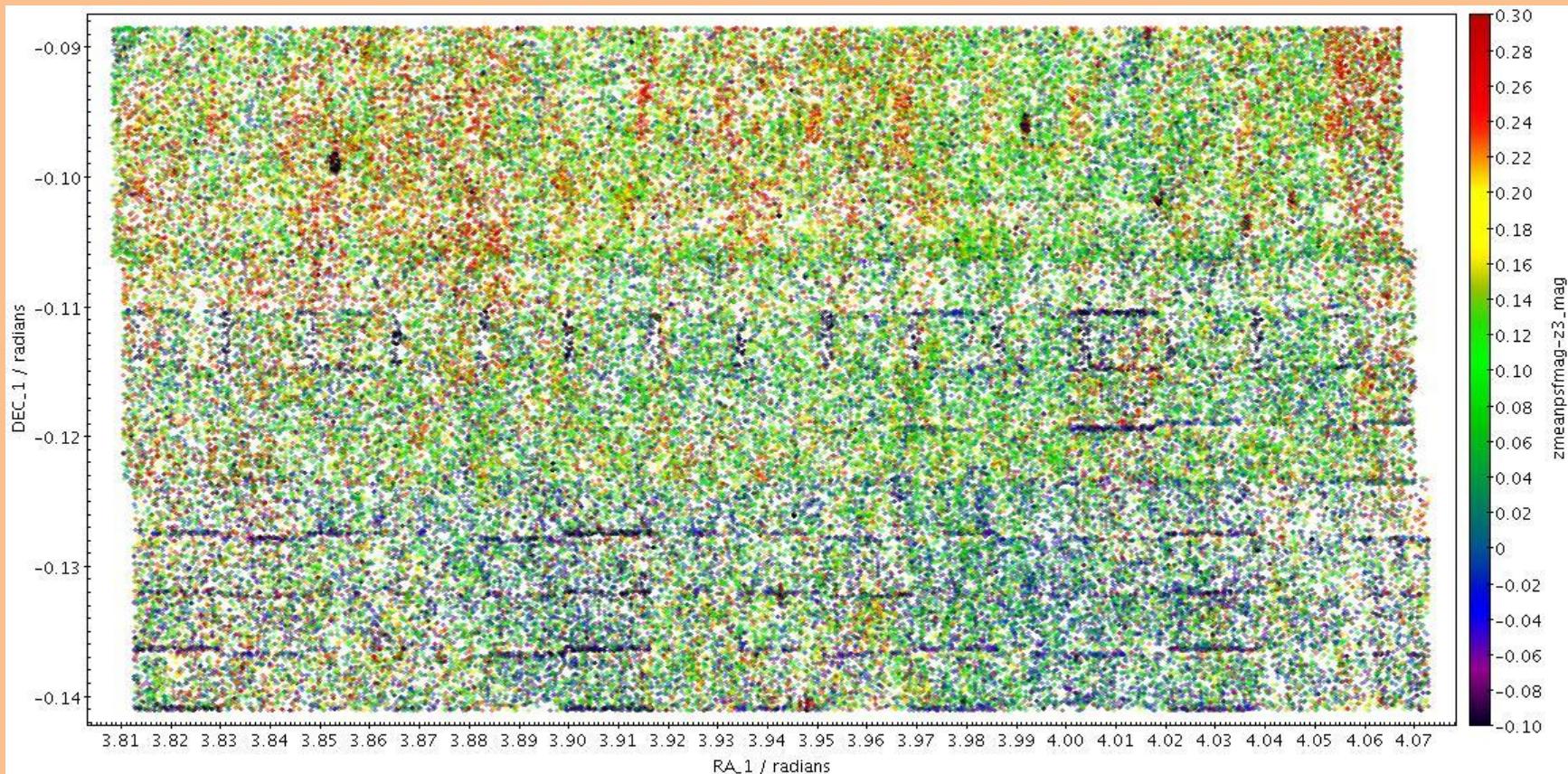
Variable seeing

z-band aper mag offsets over 40 square degrees



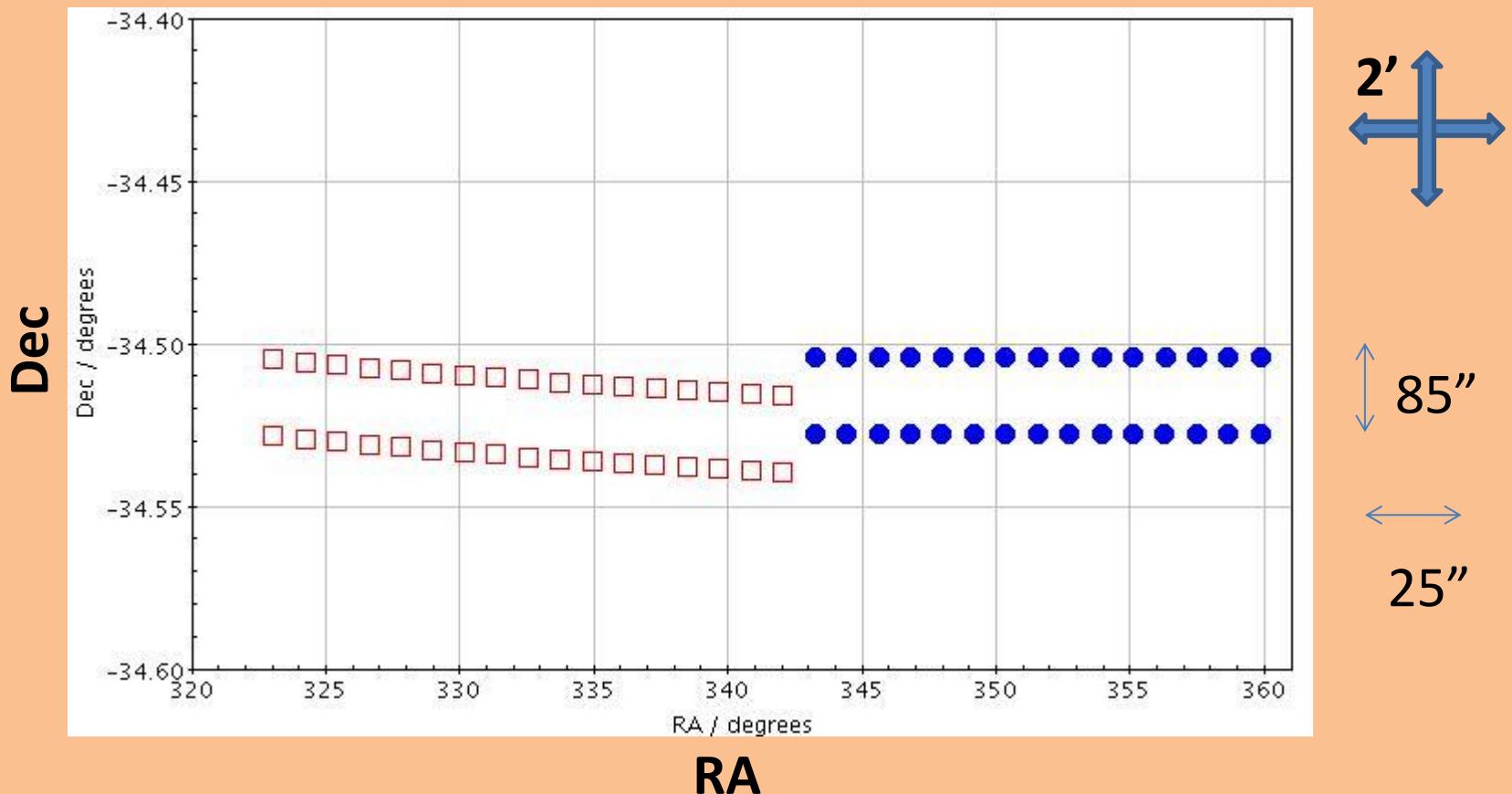
← One concatenation (17 OBs) →

Variable seeing



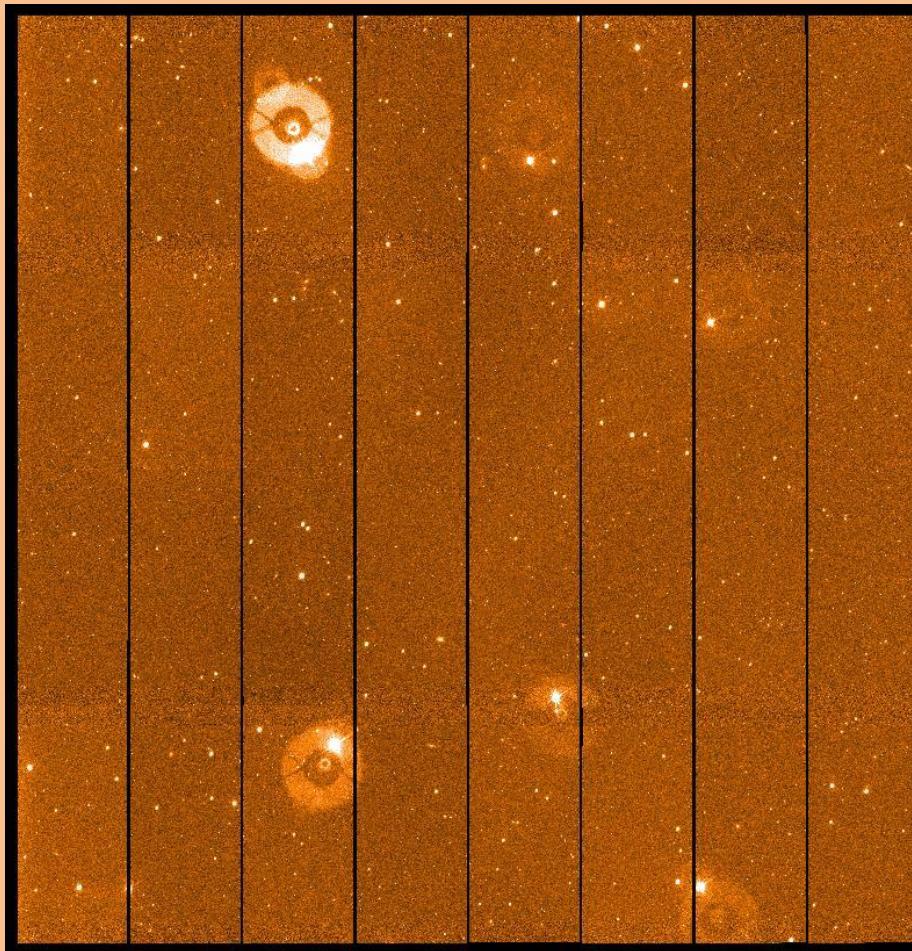
Pointing (lack of!)

Red boxes – offset OB; Blue circles – 17 OB concatenation
Centre positions of each tile



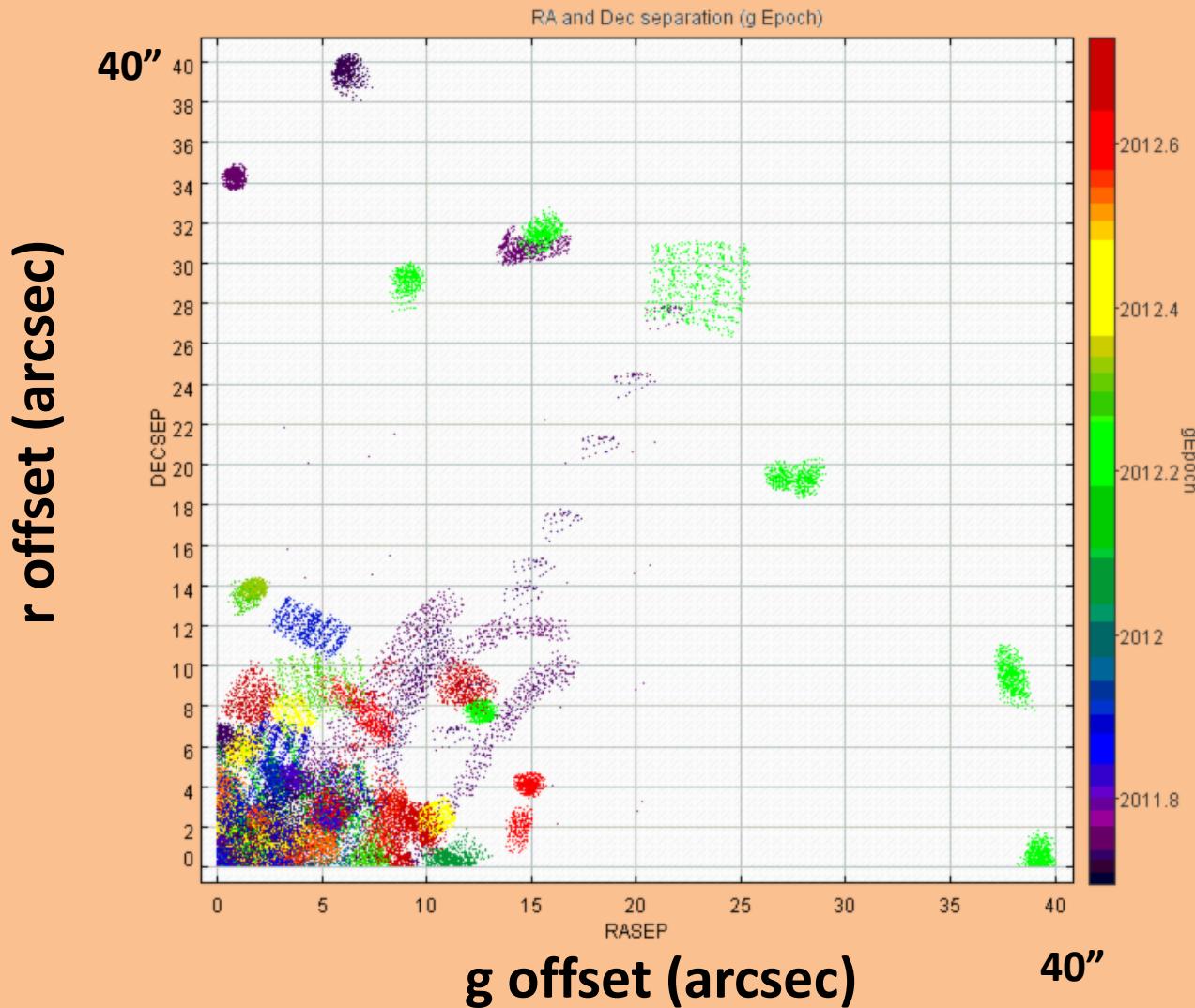
Pointing

Result was gaps between the CCDs in the tiles at the end in the OB



Pointing

Offset from requested centre



Pointing

r-band

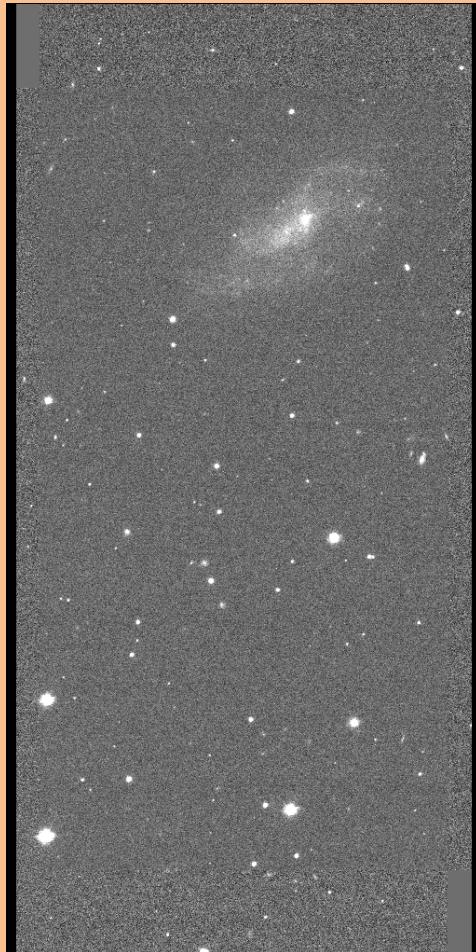
12:36:48.2
-07:35:02.3



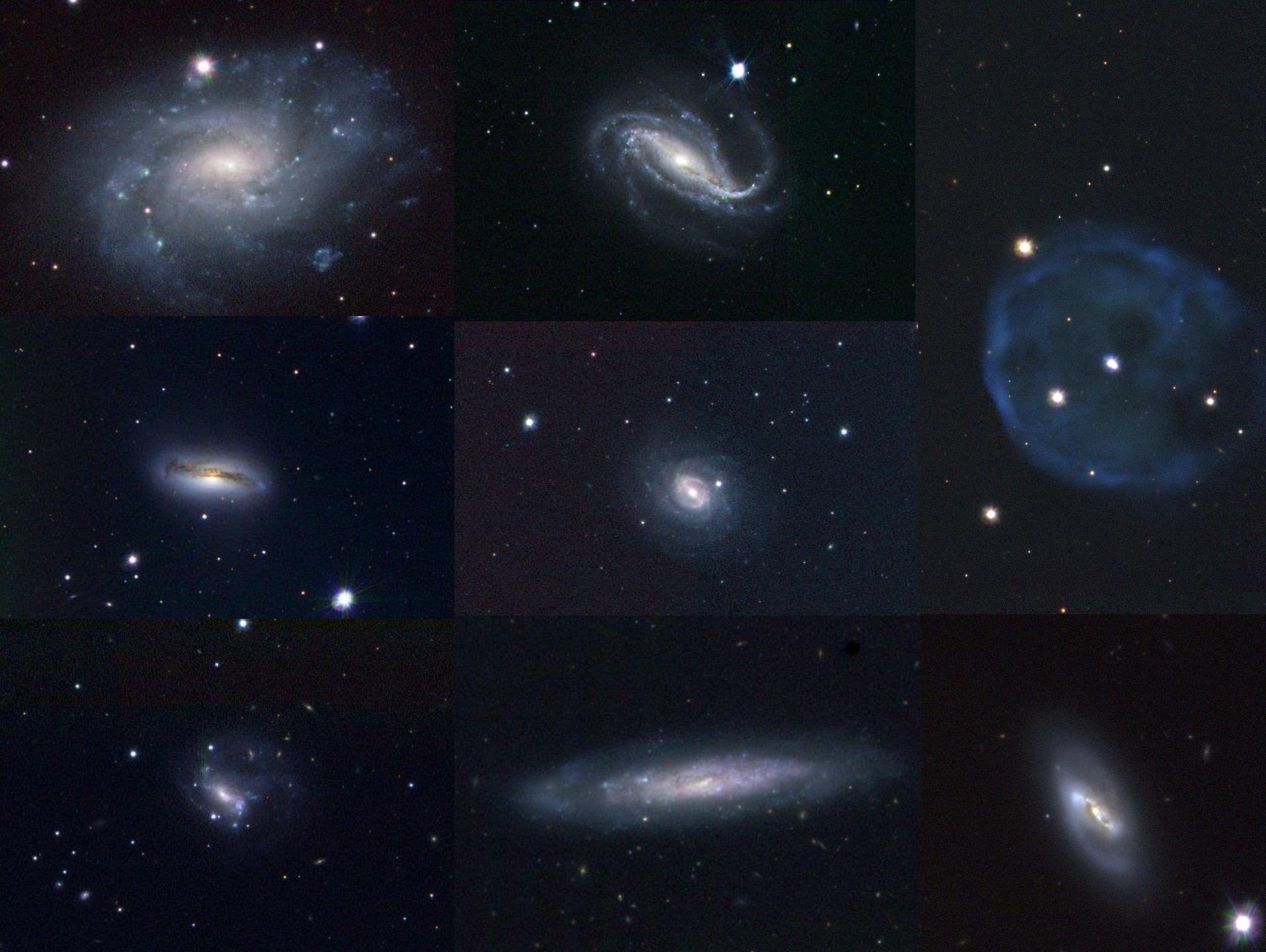
Pointing

g-band

12:36:48.2
-07:35:02.3



Shift is around 20" in
both RA and Dec
(one of the worst
examples)



Spot the Survey!

