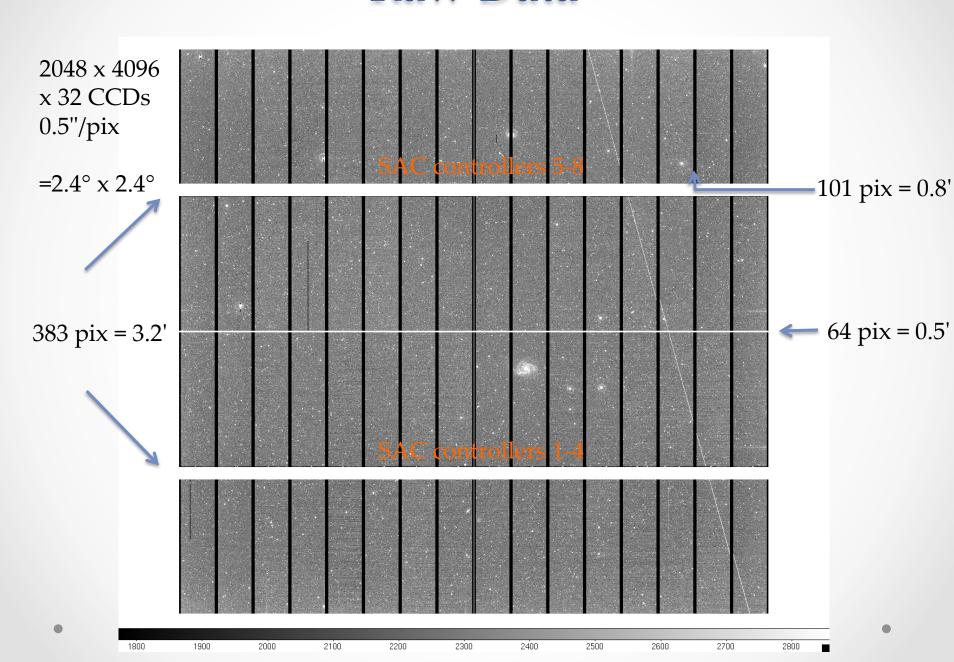
Detector array & cosmetics

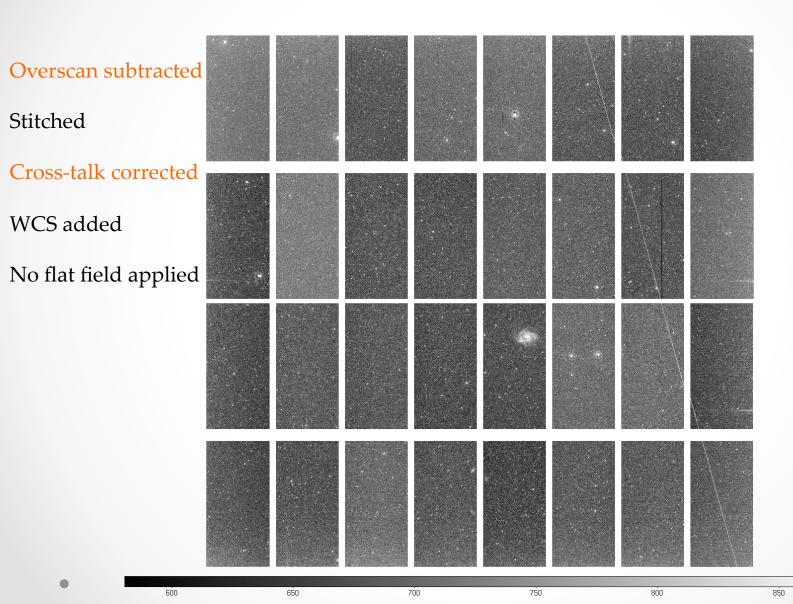
(and currently applied pre-processing)

Fang Yuan ANU

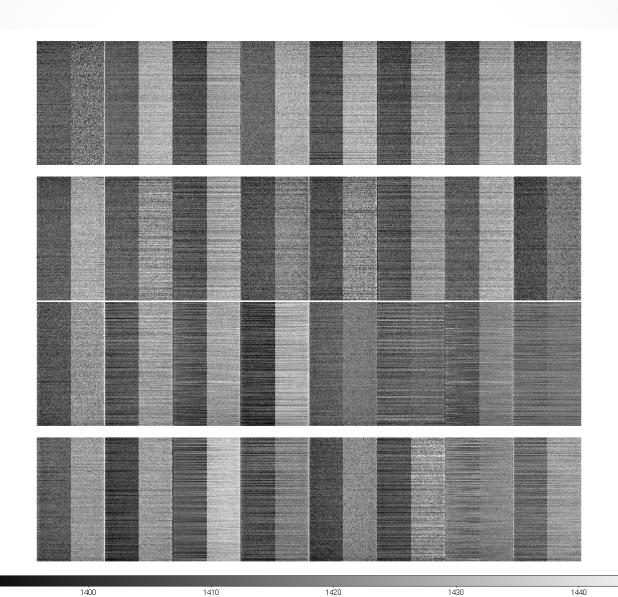
Raw Data



Pre-processed into 32 Images



Bias Frame



1390

Bias Frame

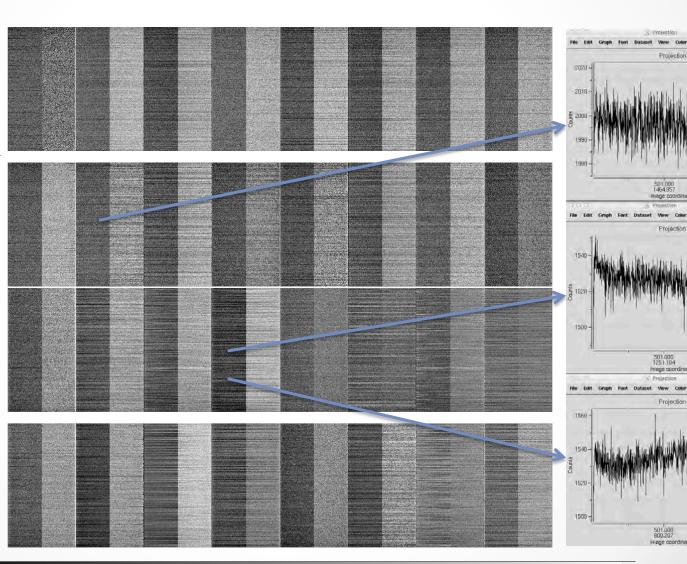
Currently:

No bias subtraction

Use overscan region

Fit slope line by line

Noise <~ 10



890

1400

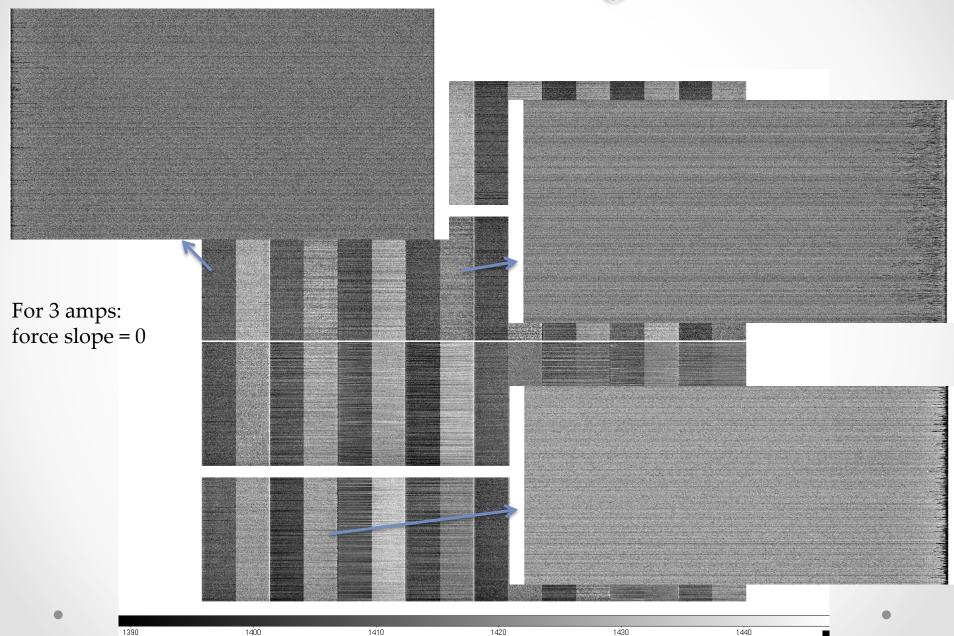
1410

1420

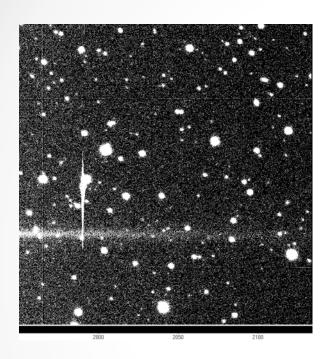
1430

1440

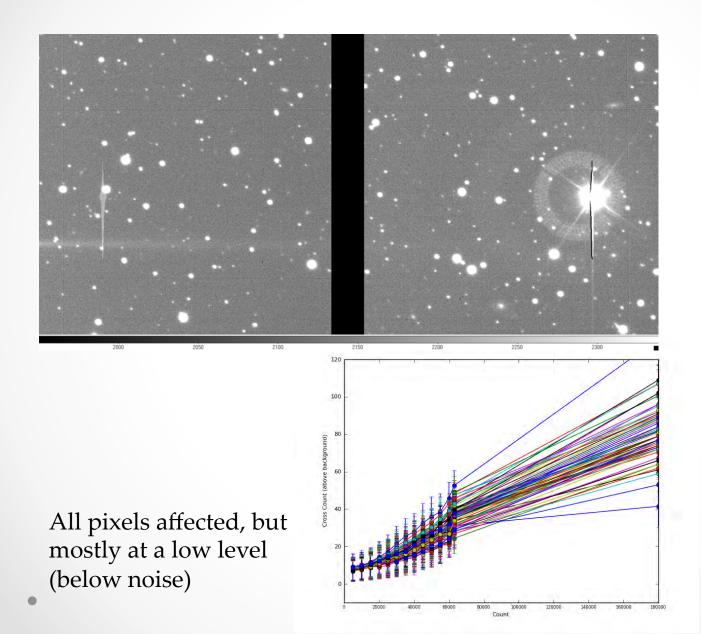
Bias Frame - Fingers



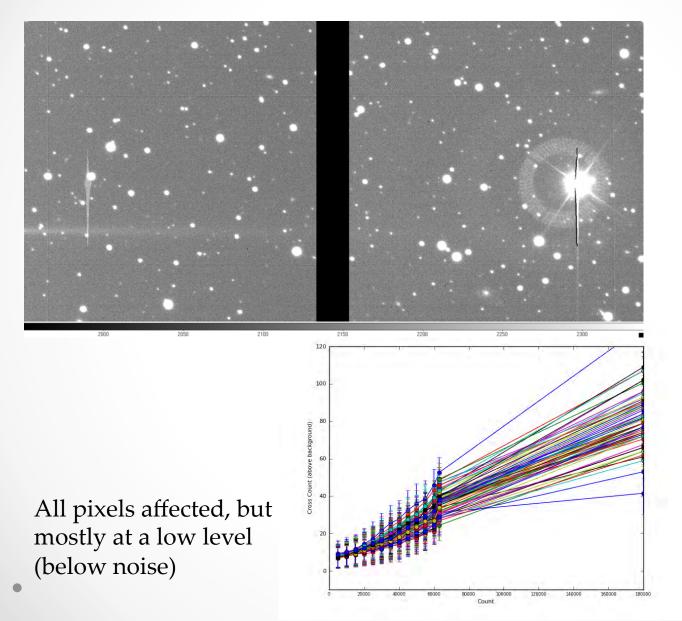
Cross-talk - ghost



Cross-talk - ghost



Cross-talk - correction



Solution:

Subtract a scaled mirrored image

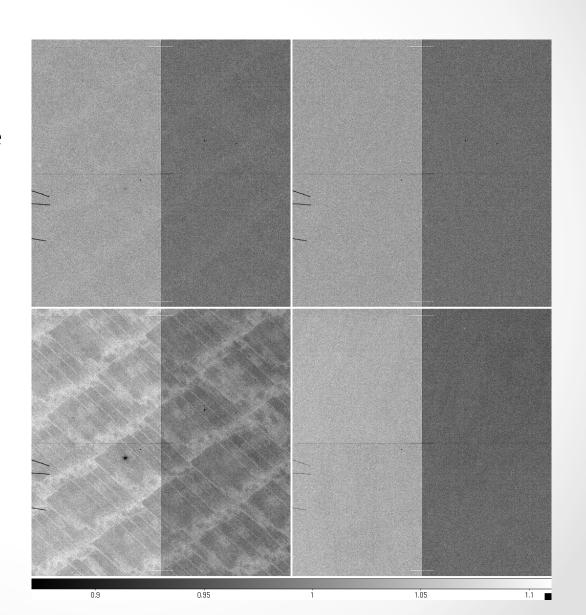
Additional correction applied when count truncated at 65535.

Mask pixels at high intensity and mirror pixels

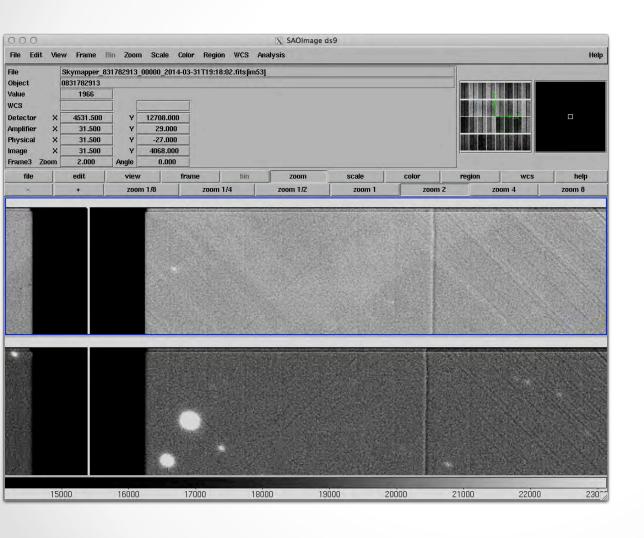
Flat Field

Reasonably flat response

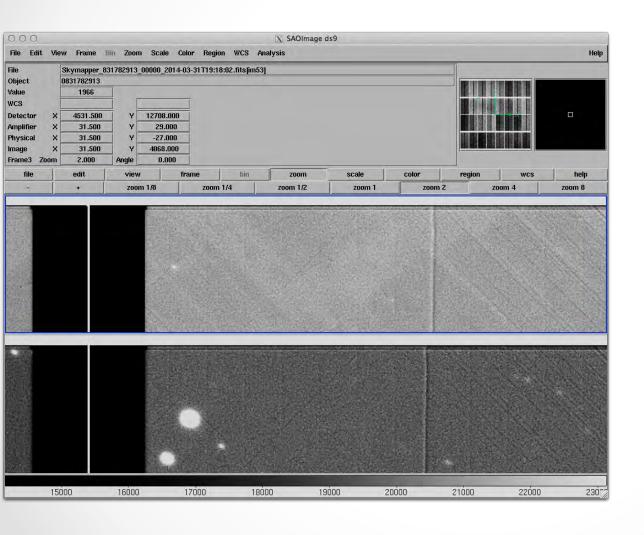
Some small/median scale structures



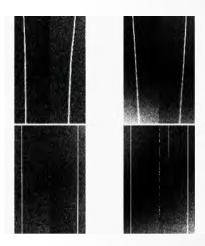
Moving (Mysterious) Artifact



Moving (Mysterious) Artifact



~5% peak to peak Move by ~ 10 pixels In minutes In all amps



Of unknown cause "dark current edge"?

Detailed report by Chris Onken