



National Aeronautics and Space  
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# WISE Operations MMR

## IPAC/WSDS Weekly Status Report

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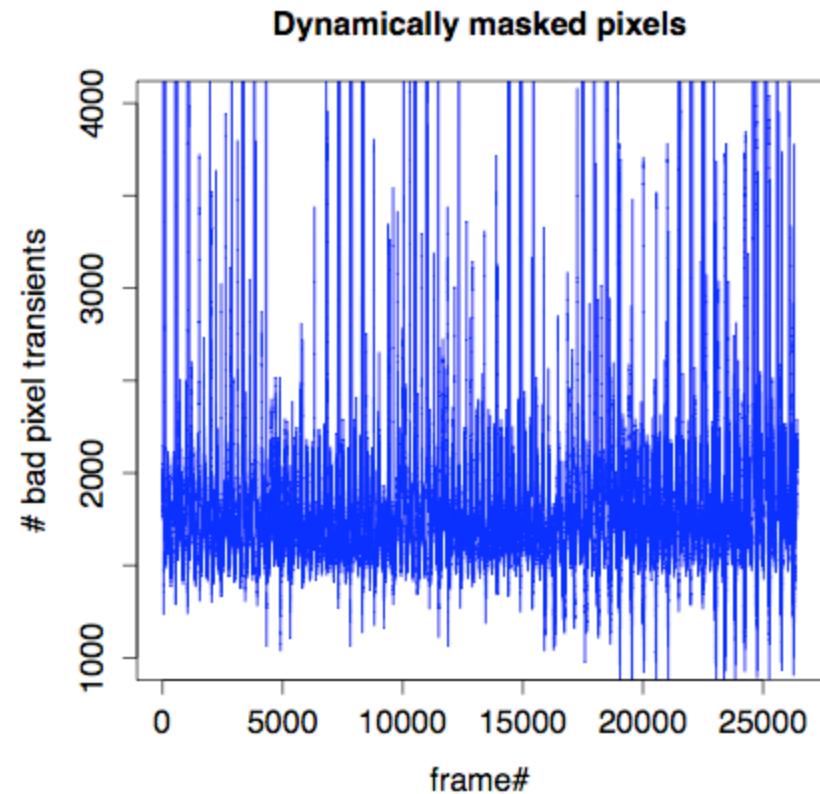
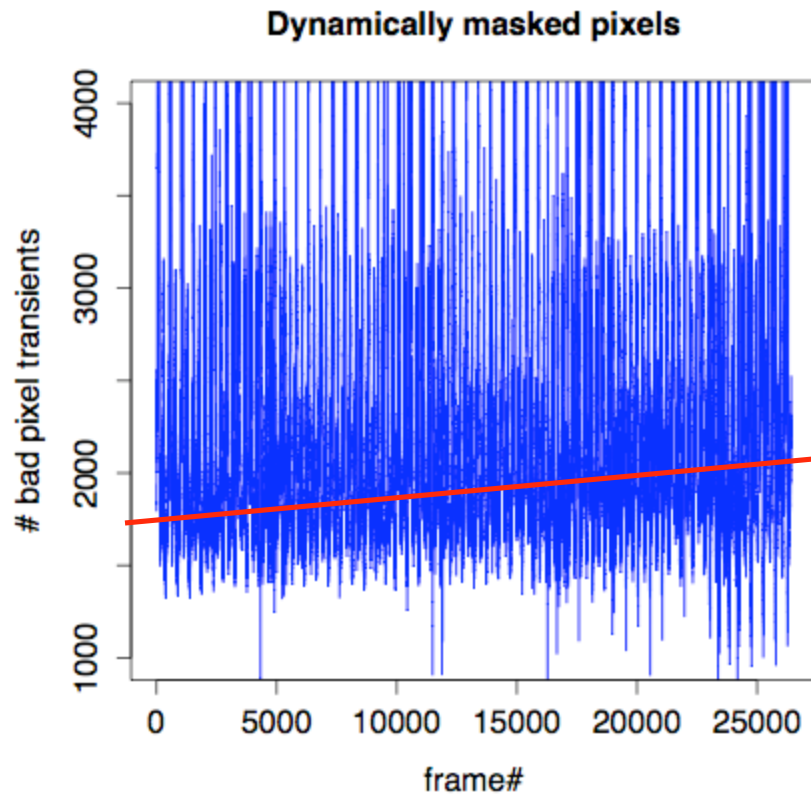




# W1, W2 transient bad pixels



- 26,416 frames with 4.4 sec exposure time, from scans: 07325a - 07434a [acquired Aug 13 - 16]
- includes pixel-spike (spatial) outliers and transients lasting for  $\geq 9$  consecutive frames. Static (known) bad-pixels omitted
- upward trend seen in W1. None in W2, W3.



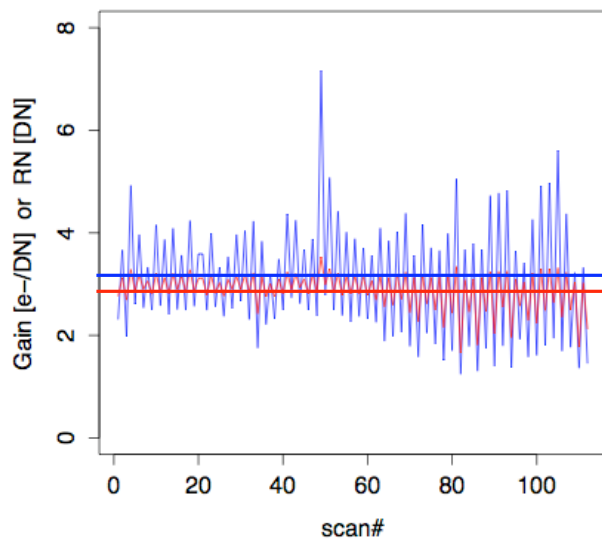


# W1, W2, W3 electronic gains and read-noise

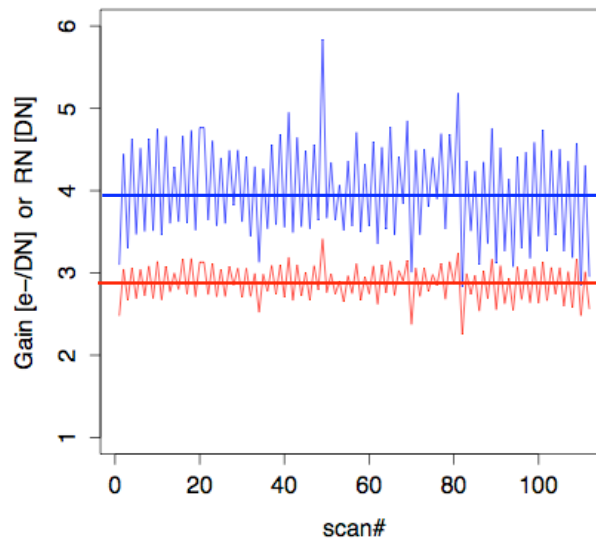


- from 112 scans with 4.4 sec exposure time, scans: 07325a - 07434a [acquired Aug 13 - 16]
- based on fitting simple noise model to robust frame variance vs. background in single scans
- W1, W2 still close to nominal. W3 gain is up from nominal, even after accounting for exposure time change  
=> fewer DN/Jy for fixed Q.E., consistent with photometric Zero-Point trends

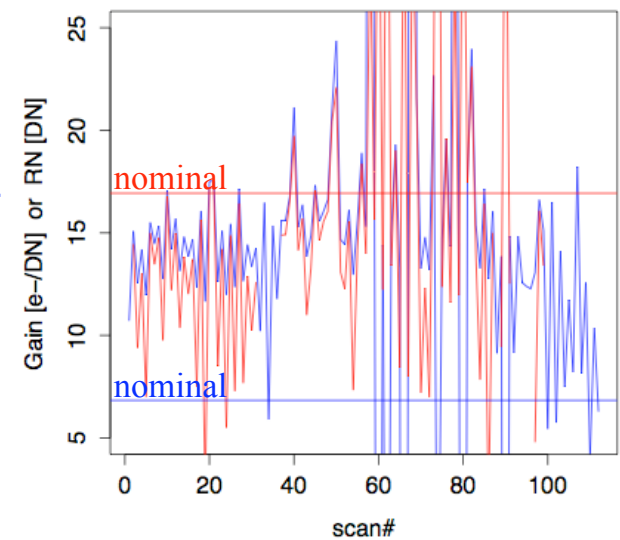
W1 Gain (BLUE); Read-Noise (RED)



W2 Gain (BLUE); Read-Noise (RED)



W3 Gain (BLUE); Read-Noise (RED)







# W3 relative-responsivity map evolution



- made using the change-in-zodi method from scans soon after anneals with ~stabilized temperature
- it is unknown whether the change in structure is being driven by incorrect knowledge of the input dark, linearity, or both

