

# DM QA Line list before & after

## PIPE2D-1235

### Visits:

- 92736, 92738, 92740, 92743

### Detectors:

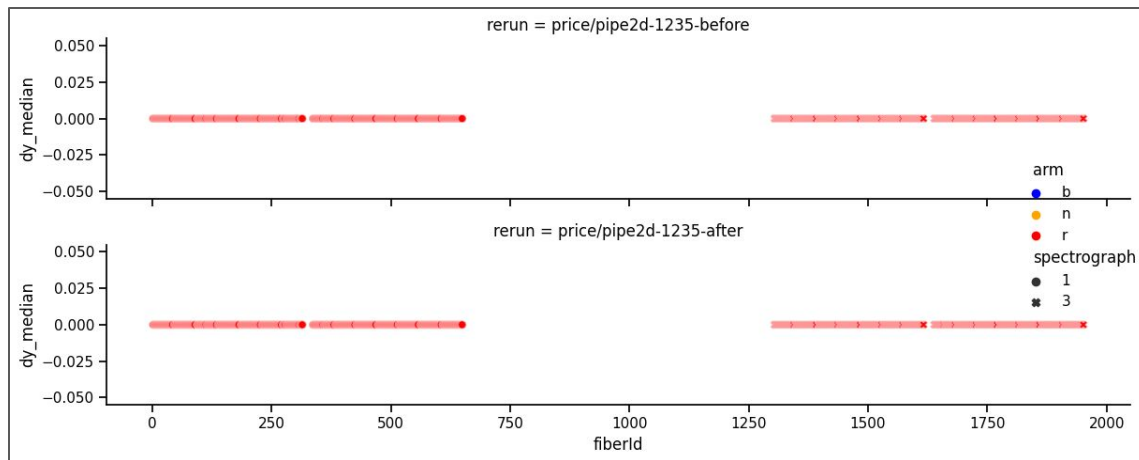
- b1 b3
- r1 r3
- n1

### Reruns:

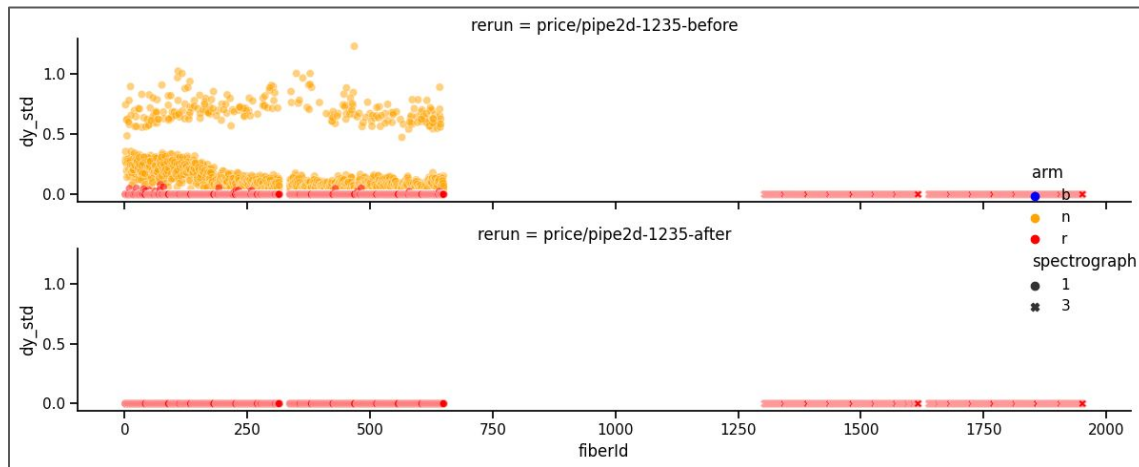
- price/pipe2d-1235-before
- price/pipe2d-1235-after

### Summary:

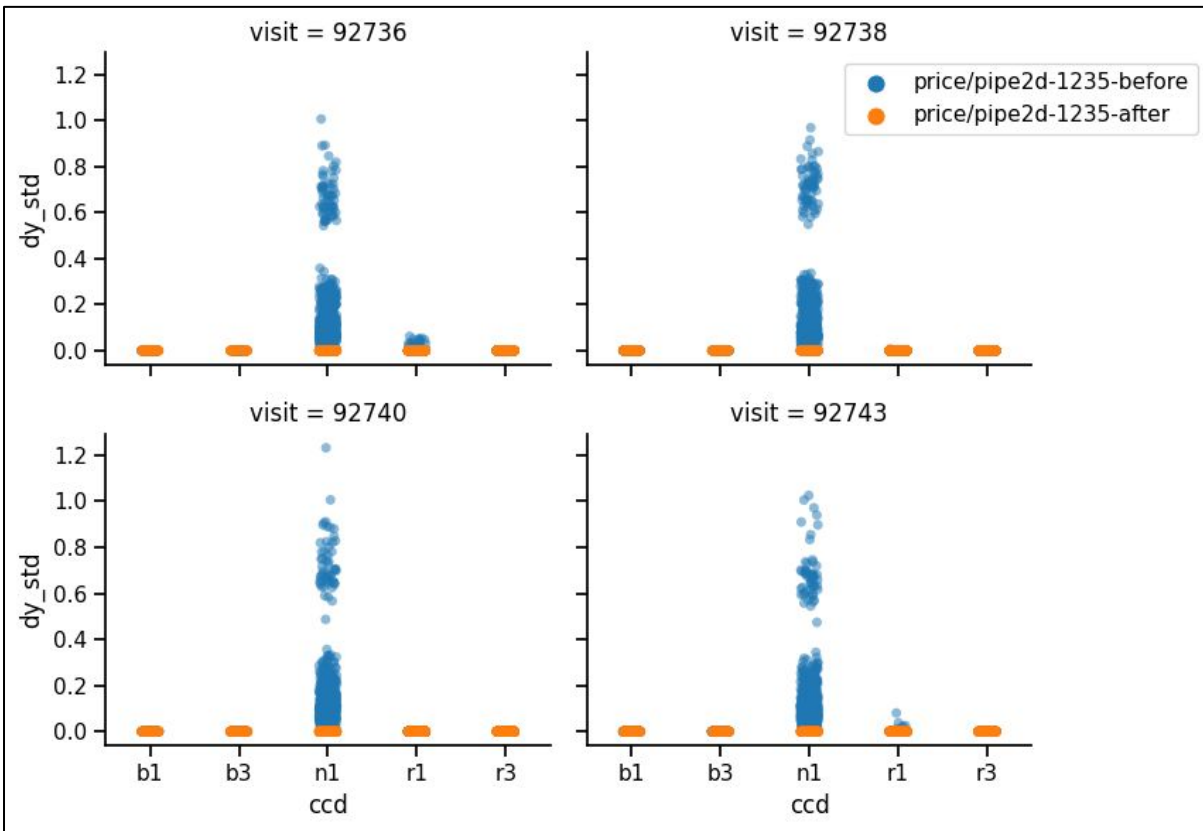
- n1 improvement in dy\_std for 50 lines.
- r1 improvement for a single line in 2 out of 4 visits.



The median dy (pixels) value for each fiber across the detectors. All values are essentially zero (0) and show no before and after changes.

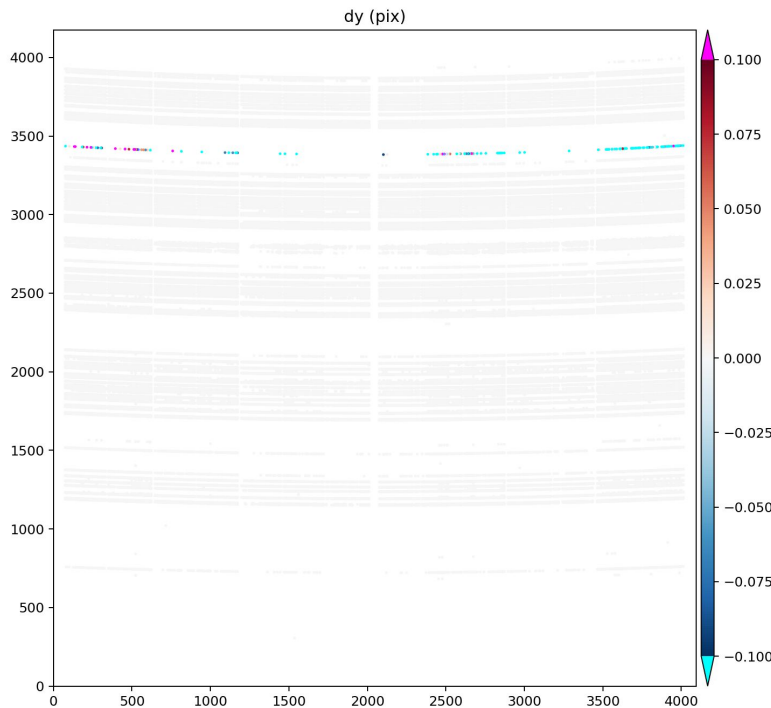


The std of dy (pixels) for each fiber. n1 shows an improvement for nearly all measured fibers. r1 also has some corrections (a single line, see below).

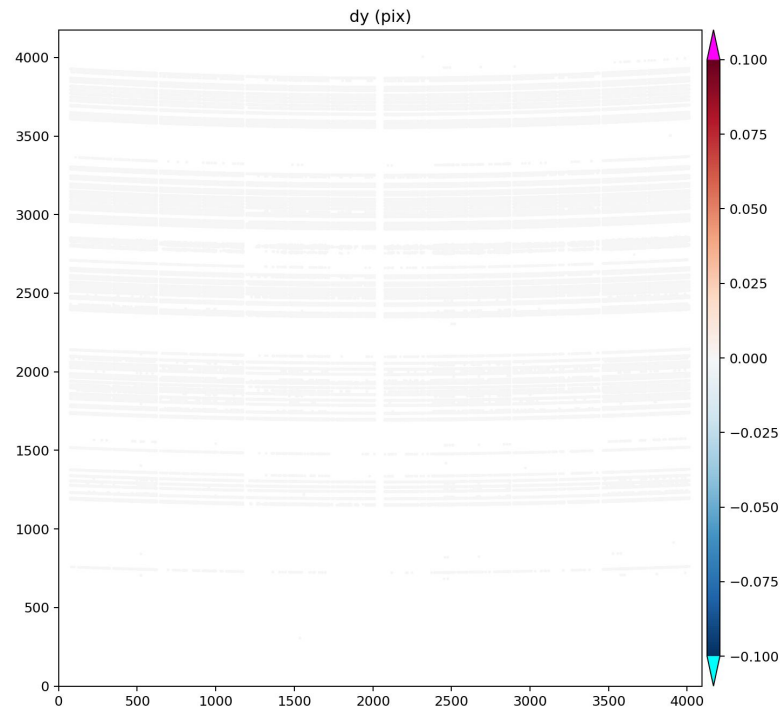


Looking at the dy std changes by visit we can see an improvement in n1 overall but oddly only 2 of 4 visits for r1 saw an improvement.

2D residuals {'visit': 92736, 'arm': 'r', 'spectrograph': 1, 'label': 'sky'}  
/work/drp/rerun/price/pipe2d-1235-before



2D residuals {'visit': 92736, 'arm': 'r', 'spectrograph': 1, 'label': 'sky'}  
/work/drp/rerun/price/pipe2d-1235-after



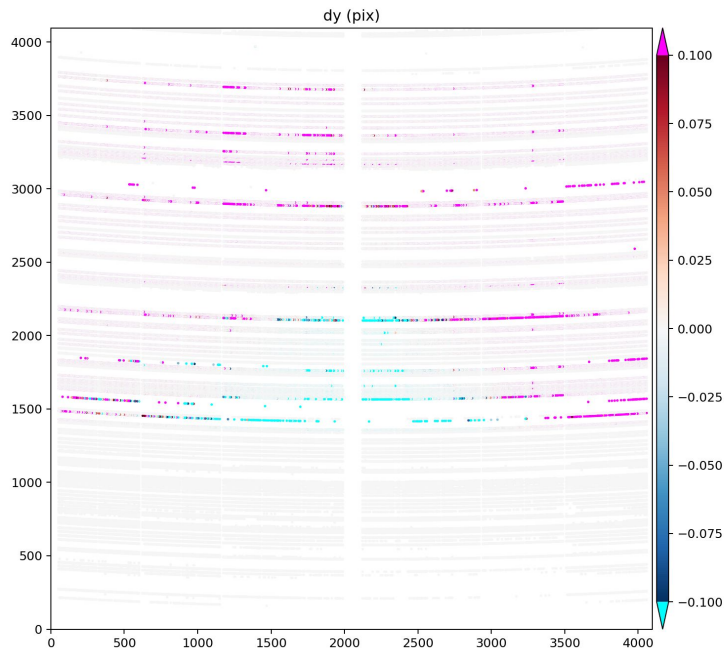
r1 shows improvement for a single line in 92736 (shown here) and 92743. These are all marked as OH transition lines.

std: 0.006 to 0.000

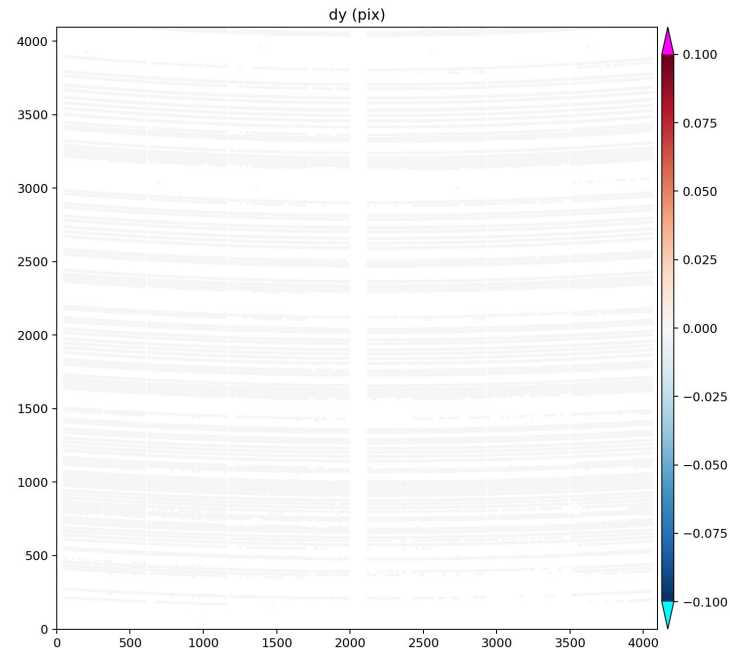
wavelength	description	transition	count
916.37894	OH	7-3_P1f(8.5)	21

("count" is the number of reserved data points with an improvement)

2D residuals {'visit': 92736, 'arm': 'n', 'spectrograph': 1, 'label': 'sky'}  
/work/drp/rerun/price/pipe2d-1235-before



2D residuals {'visit': 92736, 'arm': 'n', 'spectrograph': 1, 'label': 'sky'}  
/work/drp/rerun/price/pipe2d-1235-after



n1 shows an improvement across 50 number of lines. Three of these lines are marked as UNKNOWN for the OH transition.  
std: 0.151 to 0.000

wavelength	description	transition	count
1052.76575	OH	4-1_P1(5.5)	45
1057.54015	OH	4-1_P2(5.5)	33
1065.52065	OH	UNKNOWN	13
1070.00445	OH	5-2_R1(4.5)	55
1071.26905	OH	5-2_R1(3.5)	58