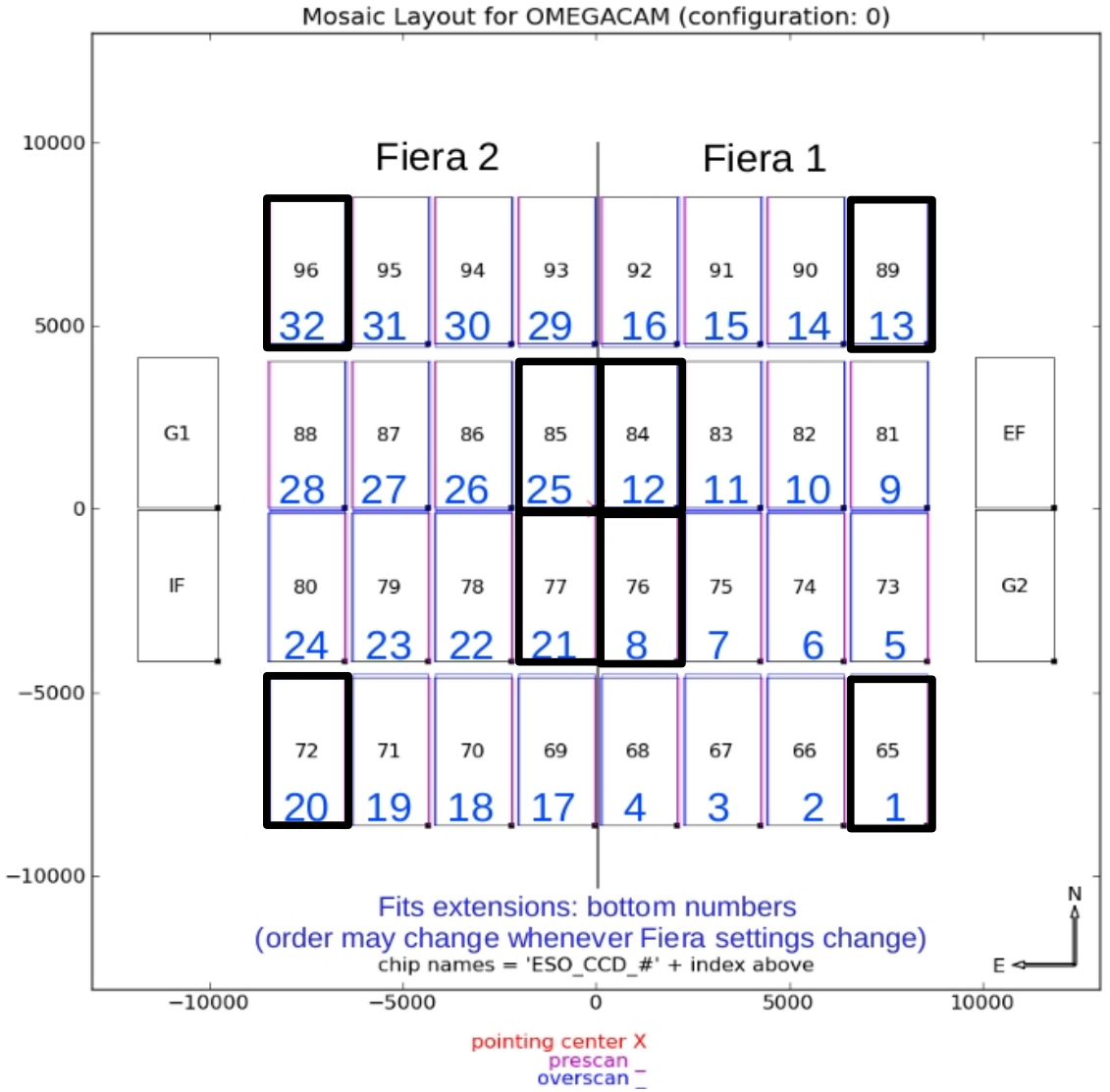
OmegaCAM QC0 procedures

To enable real-time QC0 on Paranal via pipeline results, only 8 of the 32 chips are reduced. Tests in dry runs have shown that the sub-set of 8 chips is representative of the whole array.



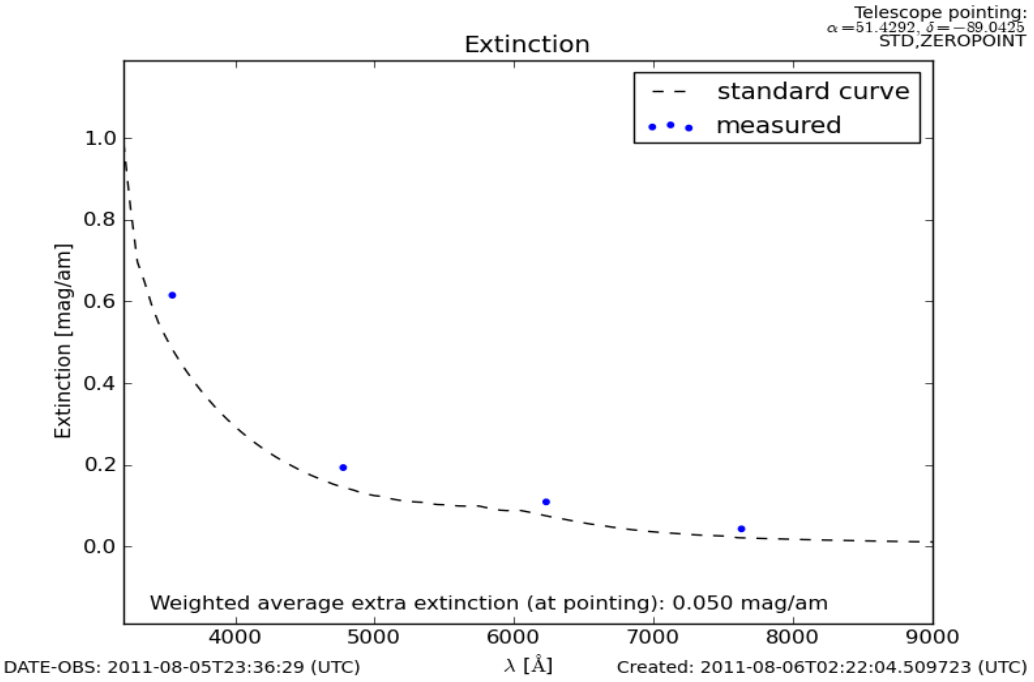
OmegaCAM QC0 procedures

Photometric monitoring and night classification

- Equatorial Standards in ugriz twice per night (evening twilight and middle of the night)
- Polar Monitoring field in u-g-r-i three times per night (start/middle/end)
- One equatorial standard in user band (e.g. H_alpha, V_John) whenever science was observed

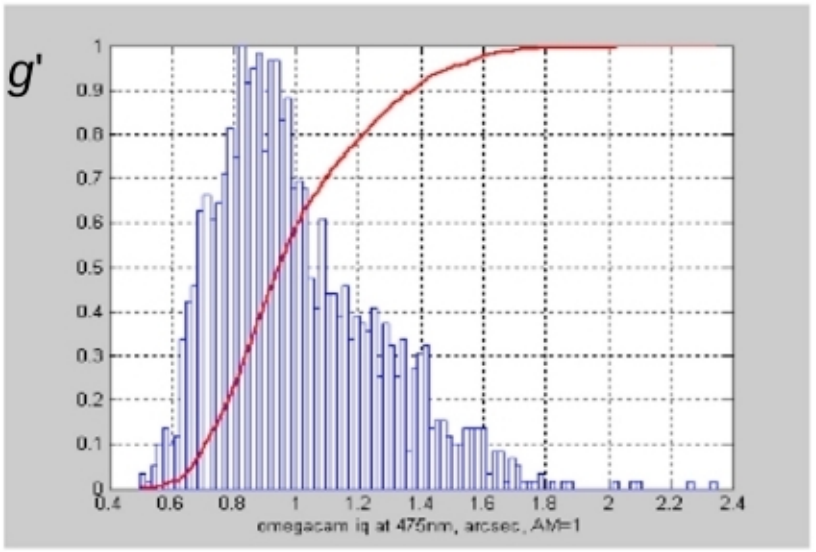
Classifications as PHOTOMETRIC if

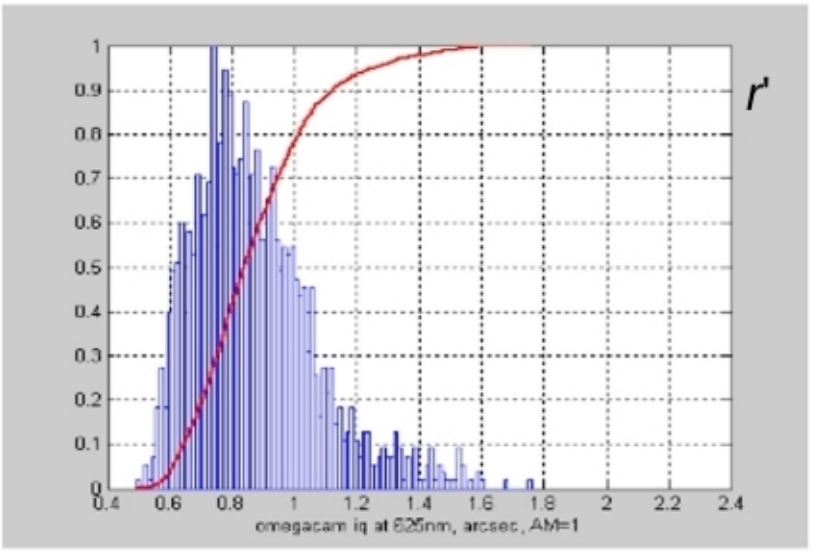
Condition 1: ZPs from gri equatorial standard is within 0.05 mag of long-term mean and the two nightly measurements differ by <= 0.05 mag (Paranal Rule).
Condition 2: Extinction from Polar field is between 0.04 and 0.09 mag (empirical calibration).

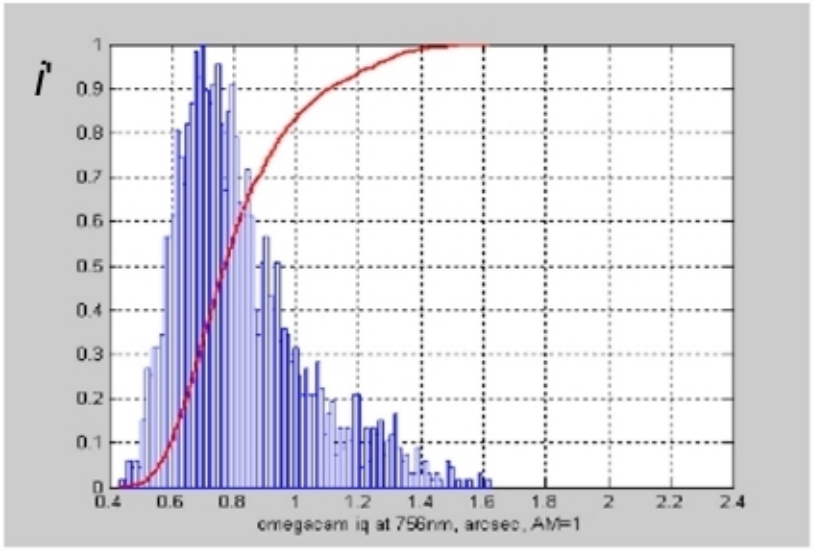


OmegaCAM IQ distribution August – December 2011

-- each data point is average IQ in one image over full chip array --







Median IQ in g' ~0.95”
Median IQ in r' ~0.85”
Median IQ in i' ~0.80”

Internal IQ ~0.4-0.5”

-> Outside median IQ ~ 0.80” @ 600nm

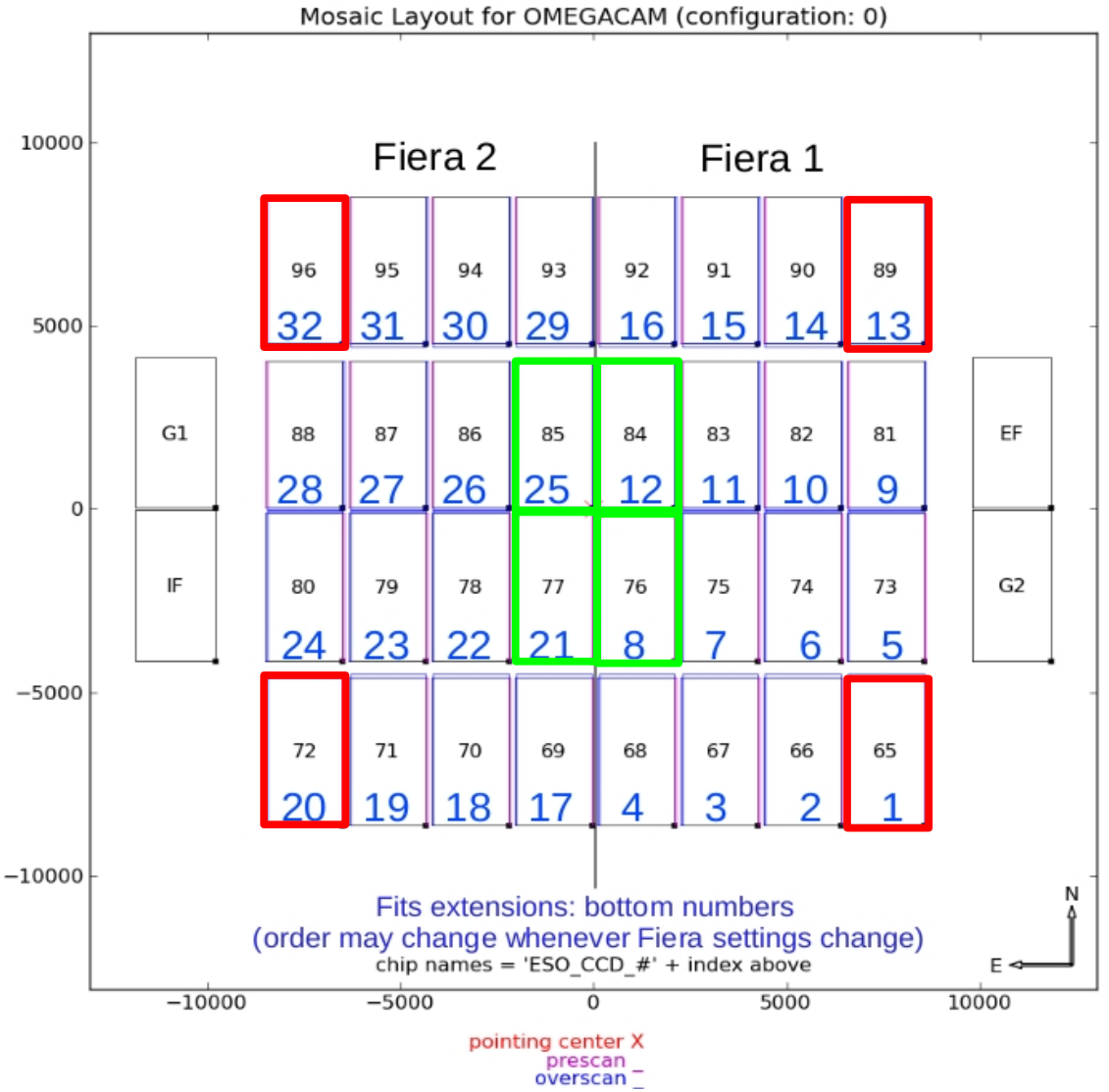
OmegaCAM QC0 procedures

QC0 parameters:

IQ: mean FWHM over all eight chips

IQ variation: ratio between FWHM in inner and outer four chips.

Ellipticity: mean ellipticity over all eight chips



OmegaCAM QC0 procedures

QC0 rules for single OBs:

'A' classification (fully within constraints):

* Average IQ < requested IQ.
* Average ellipticity < 0.10.
* Ellipticity < 0.20 for all individual chips.
* Image quality variation inner-vs-outer < 10%.

'B' classification (almost within constraints):

* Average IQ < 1.1 * requested IQ.
* 0.10 < Average ellipticity < 0.15.
* Between 1 and 4 of the 8 chips of any single exposure have ellipticity > 0.20
* Image quality variation inner-vs.outer between 10% and 25%.

'C' classification (out of constraints):

* Any of the criteria for B classification is not met

OmegaCAM QC0 procedures

QC0 rules for concatenations:

A classification for OBs:

* As for individual OBs

B classification for OBs in a concatenation (slightly more relaxed):

* Average IQ is within 0% and 20% of constraint.
* Average ellipticity is <0.15.
* Average image quality variation is between 10% and 30%.

If the non-concat 'B' constraints (10% in IQ, 25% in IQ variation) are met on average over the full concatenation, then one can tolerate for individual OBs:

* Between 0% and 10% of individual OBs have IQ more than 20% out of constraint (QC grade D)
* Between 0% and 10% of all chip exposures have ellipticity > 0.20 (QC grade D)
* Between 0% and 10% of individual OBs have IQ variation beyond 30% (QC grade D)

C classification of at least one OB --> Concat is repeated:

* Average IQ over all OBs is more than 10% of constraint.
* Average ellipticity over all OBs is >0.15.
* Average Image quality variation inner-vs-outer over all OBs is beyond 25%.

If none of the above constraints is violated, then the concatenation can still go 'C' if one of the three following conditions apply:

* More than 10% of individual OBs have imaqe quality variation beyond 30%.
* More than 10% of all chip exposures have ellipticity > 0.20
* More than 10% of inidividual OBs have IQ more than 20% out of constraint.

OmegaCAM QC0 procedures

QC0 rules for concatenations:

Example 1 for IQ in ATLAS concat of 16 Obs, with 1.4” as FWHM constraint: **Concat is completed**

1.3
1.3
1.3
1.5 <10% B
1.6 <20% B
1.7 >20% ! D: only one OB in concat affected
1.5 <10% B
1.4
1.4
1.3
1.4
1.4
1.5 <10% B
1.4
1.6 <20% B
1.2
Avg < 1.4*1.1

OmegaCAM QC0 procedures

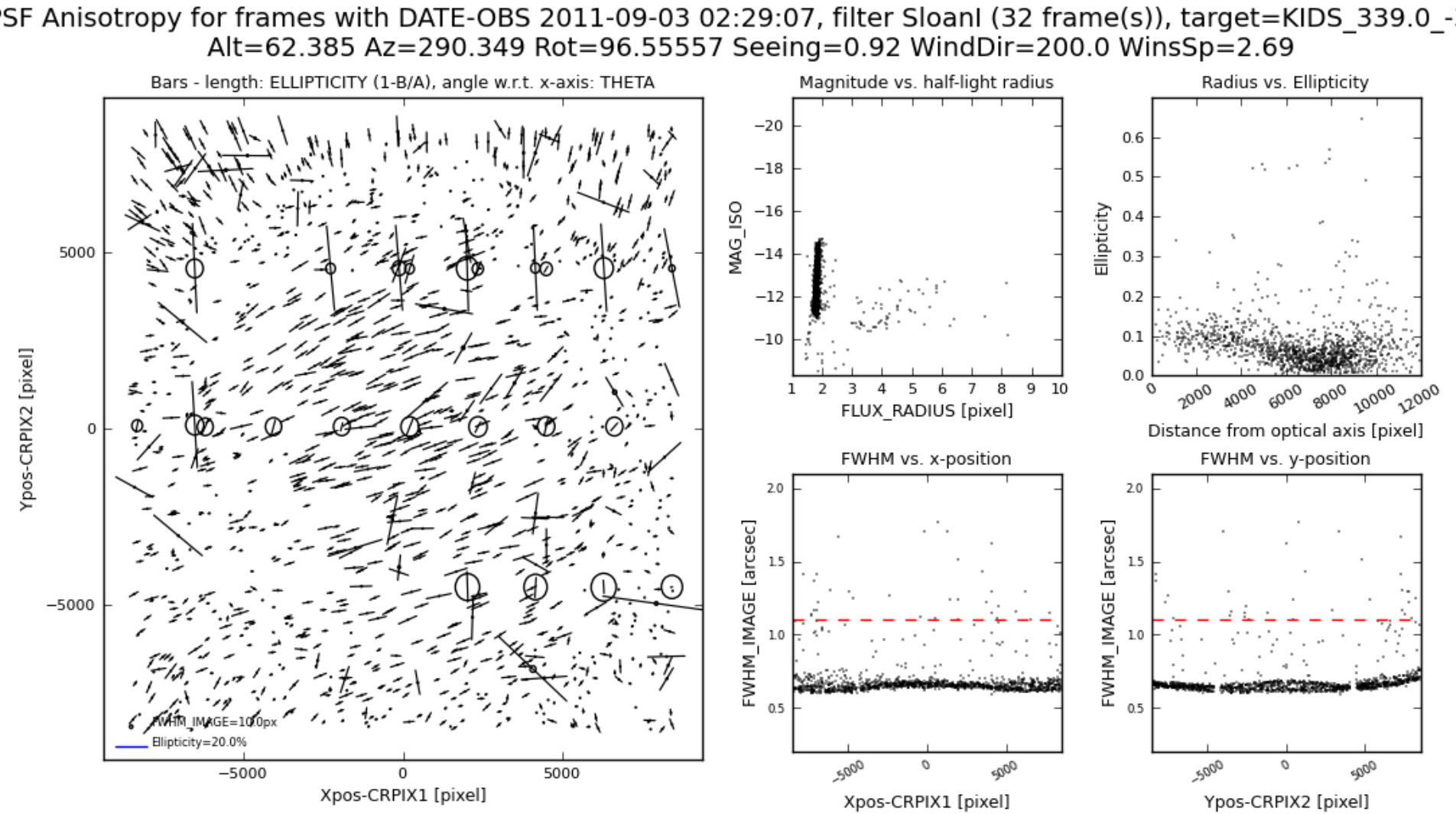
QC0 rules for concatenations:

Example 2 for IQ in ATLAS concat of 16 Obs, with 1.4” as FWHM constraint: **Concat must be repeated**

1.3
1.3
1.3
1.5 <10% B
1.6 <20% B
1.7 >20% ! D: only one OB in concat affected
1.5 <10% B
1.4
1.4
1.3
1.4
1.4
1.5 <10% B
1.4
1.7 >20% ! C: second 'red' OB, hence more than 10% of OBs
1.2
Avg < 1.4*1.1

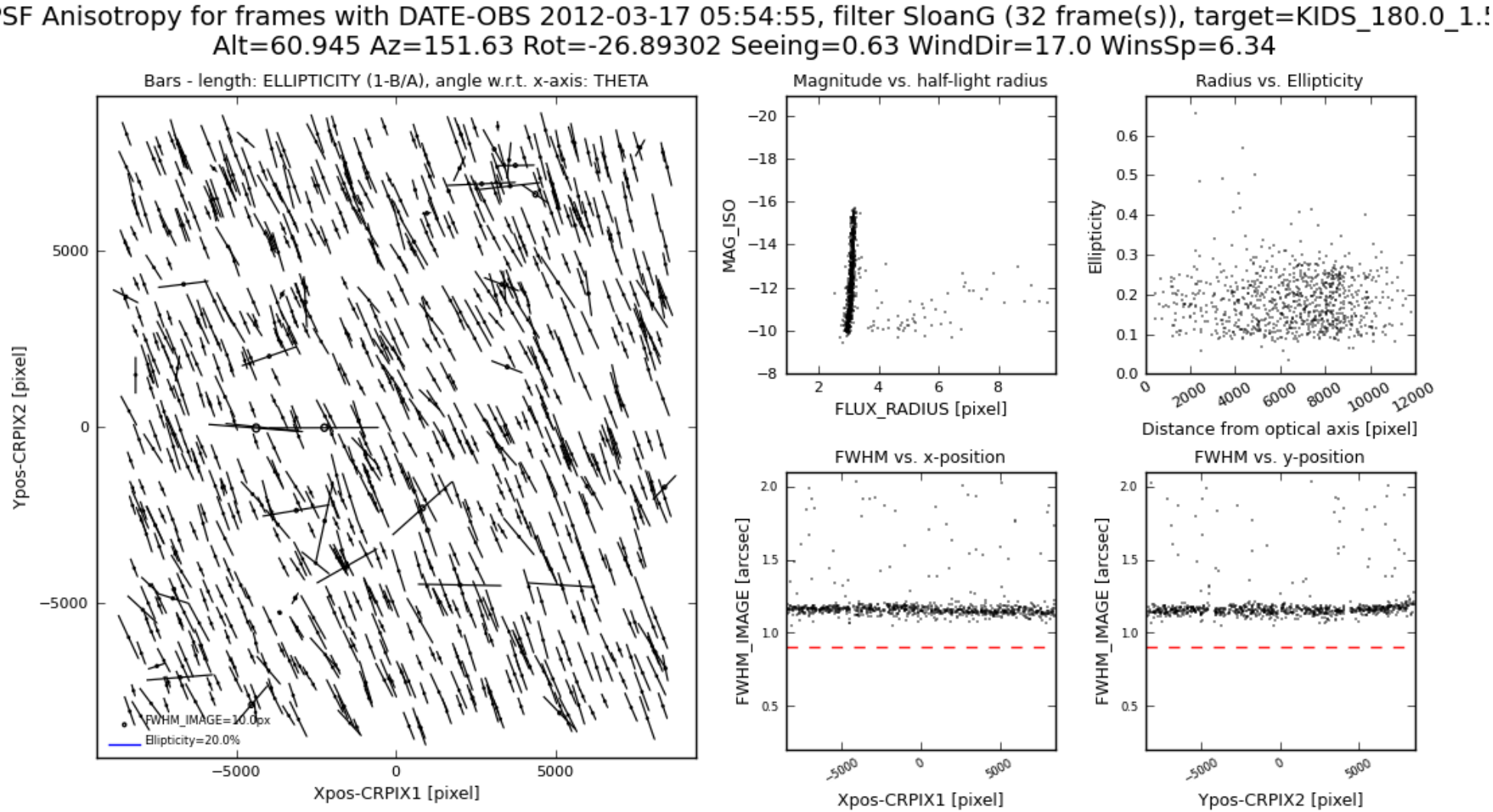
OmegaCAM QC0 procedures

Output of Groningen AWE script OCAM_psf_anisotropy, used for special case analysis.



OmegaCAM QC0 procedures

Output of Groningen AWE script OCAM_psf_anisotropy, used for special case analysis.



OmegaCAM QC0 procedures

Description CLASSIFICATION:
Se : Seeing
ID : Image Quality Degradation
ME : Mean Ellipticity
Ai : Airmass
MD : Moon Distance
MD : Moon FLI

Paranal QC0 script output

Date	OBid	Filter	ImaQuality Chip65 (" , %)	ImaQuality Chip76 (" , %)	Ellipticity Chip85 (" , %)	Ellipticity Chip96 (" , %)	N_El	MeanIQ Ima (arcsec)	MeanIQ OB/F (arcsec)	IQ_degr Ima (%)	IQ_degr OB/F (%)	MeanELL(%) Ima (%)	MeanELL(%) OB/F (%)	msg	CLASSIFICATION Se	ID	ME	Ai	MD	FL	FINAL	CONCATEN. contain.ID	IQ Req	IQ Concat	Degr Concat	Ell Concat
2011-11-05T23:56:32	595887	u_SDSS	1.49", 2	1.44", 4	1.44", 4	1.45", 4	0	1.45"	1.45"	1.9	1.9	3.7	3.7		-	-	-	-	-	-	- STD					
2011-11-06T00:03:19	595887	g_SDSS	1.38", 3	1.42", 3	1.42", 3	1.42", 4	0	1.41"	1.41"	0.9	0.9	3.7	3.7		-	-	-	-	-	-	- STD					
2011-11-06T00:06:05	595887	r_SDSS	1.26", 6	1.24", 4	1.28", 5	1.21", 3	0	1.24"	1.24"	2.1	2.1	4.0	4.0		-	-	-	-	-	-	- STD					
2011-11-06T00:09:00	595887	i_SDSS	1.30", 4	1.38", 4	1.36", 4	1.23", 2	0	1.31"	1.31"	9.3	9.3	4.0	4.0		-	-	-	-	-	-	- STD					
2011-11-06T00:12:45	595887	z_SDSS	1.04", 4	1.21", 7	1.17", 4	1.04", 3	0	1.11"	1.11"	14.3	14.3	5.1	5.1		-	-	-	-	-	-	- STD					
2011-11-06T00:23:04	596089	u_g_r_i_SDSS	0.00", 0	0.00", 0	0.00", 0	0.00", 0	0	0.00"	0.00"	0.0	0.0	0.0	0.0		-	-	-	-	-	-	- STD					
2011-11-06T00:42:33	628093	z_SDSS	0.99",10	0.91", 5	0.92", 5	0.98", 7	0	0.94"	--	6.0	-	4.8	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T00:44:02	628093	z_SDSS	0.98", 9	0.90", 5	0.93", 7	0.93", 6	0	0.93"	0.94"	2.5	4.3	5.5	5.2		A	A	A	A	A	A	A	(628092)	1.4	0.94	4.3	5.2
2011-11-06T00:45:47	628096	z_SDSS	1.03", 7	0.92", 4	0.93", 3	0.97", 3	0	0.95"	--	5.6	-	3.6	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T00:47:15	628096	z_SDSS	0.95",10	0.87", 5	0.87", 3	0.91", 9	0	0.89"	0.92"	6.5	6.0	4.8	4.2		A	A	A	A	A	A	A	(628092)	1.4	0.93	5.1	4.7
2011-11-06T00:49:04	628099	z_SDSS	0.91", 7	0.84", 4	0.80", 4	0.84", 4	0	0.85"	--	5.6	-	4.1	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T00:50:31	628099	z_SDSS	1.05", 8	0.99", 3	1.01", 4	1.02", 6	0	1.02"	0.94"	3.9	4.7	4.6	4.3		A	A	A	A	A	A	A	(628092)	1.4	0.93	5.0	4.6
2011-11-06T00:52:21	628102	z_SDSS	1.10", 7	1.07", 4	1.07", 3	1.02", 4	0	1.06"	--	1.4	-	4.1	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T00:53:46	628102	z_SDSS	0.93", 5	0.92", 4	0.92", 4	0.89", 4	0	0.92"	0.99"	1.4	1.4	4.2	4.2		A	A	A	A	A	A	A	(628092)	1.4	0.95	4.1	4.5
2011-11-06T00:55:32	628105	z_SDSS	1.25", 5	1.21", 4	1.21", 3	1.22", 4	0	1.21"	--	0.6	-	3.6	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T00:56:58	628105	z_SDSS	1.04", 5	1.02", 5	1.02", 5	1.01", 5	0	1.01"	1.11"	0.2	0.4	4.3	4.0		A	A	A	A	A	A	A	(628092)	1.4	0.98	3.4	4.4
2011-11-06T00:58:46	628108	z_SDSS	0.94", 7	0.90", 4	0.94", 3	0.93", 6	0	0.92"	--	0.7	-	4.5	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:00:11	628108	z_SDSS	1.04", 5	1.04", 4	1.02", 4	0.95", 4	0	1.02"	0.97"	2.3	1.5	4.0	4.2		A	A	A	A	A	A	A	(628092)	1.4	0.98	3.0	4.3
2011-11-06T01:02:04	628111	z_SDSS	0.92", 5	0.97", 3	0.99", 2	0.91", 4	0	0.95"	--	6.1	-	3.3	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:03:29	628111	z_SDSS	1.03", 5	0.98", 5	0.97", 6	0.96", 2	0	0.98"	0.96"	0.7	3.4	4.0	3.6		A	A	A	A	A	A	A	(628092)	1.4	0.97	3.1	4.2
2011-11-06T01:05:15	628114	z_SDSS	1.08", 7	1.07", 4	1.06", 4	1.02", 4	0	1.06"	--	2.6	-	4.3	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:06:44	628114	z_SDSS	1.14", 8	1.07", 6	1.06", 5	1.09", 5	0	1.09"	1.08"	4.5	3.5	4.9	4.6		A	A	A	A	A	A	A	(628092)	1.4	0.99	3.1	4.3
2011-11-06T01:14:05	628117	z_SDSS	1.03", 8	0.93", 6	0.94", 4	0.95", 3	0	0.96"	--	5.4	-	5.5	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:15:31	628117	z_SDSS	1.14",10	1.00", 6	0.99", 4	1.03", 8	0	1.03"	0.99"	7.4	6.4	6.0	5.8		A	A	A	A	A	A	A	(628092)	1.4	0.99	3.5	4.4
2011-11-06T01:17:20	628120	z_SDSS	1.07", 7	0.91", 3	0.90", 3	0.98", 5	0	0.97"	--	11.7	-	4.2	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:18:46	628120	z_SDSS	1.05",10	0.86", 6	0.85", 4	0.94", 6	0	0.93"	0.95"	14.8	13.3	5.5	4.8		A	B	A	A	A	A	B	(628092)	1.4	0.98	4.5	4.5
2011-11-06T01:20:35	628123	z_SDSS	0.94", 4	0.97", 8	0.97", 5	0.90", 5	0	0.95"	--	5.0	-	5.6	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:22:03	628123	z_SDSS	0.87", 6	0.82", 4	0.81", 4	0.76", 5	0	0.82"	0.89"	1.3	3.1	5.2	5.4		A	A	A	A	A	A	A	(628092)	1.4	0.98	4.4	4.6
2011-11-06T01:23:56	628126	z_SDSS	0.99", 6	0.92", 3	0.93", 3	0.96", 5	0	0.95"	--	4.3	-	4.4	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:25:24	628126	z_SDSS	1.01", 5	0.96", 3	0.93", 6	0.89", 4	0	0.94"	0.94"	0.3	2.3	5.0	4.7		A	A	A	A	A	A	A	(628092)	1.4	0.97	4.2	4.6
2011-11-06T01:27:13	628129	z_SDSS	1.02", 9	0.94", 6	0.94", 7	0.94", 5	0	0.96"	--	4.4	-	6.8	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:28:38	628129	z_SDSS	1.20", 8	1.04", 9	1.06", 8	1.08", 6	0	1.09"	1.02"	6.0	5.2	7.3	7.0		A	A	A	A	A	A	A	(628092)	1.4	0.98	4.3	4.8
2011-11-06T01:30:26	628132	z_SDSS	1.10", 8	0.99", 9	0.98", 7	1.07", 8	0	1.03"	--	9.4	-	6.8	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:31:53	628132	z_SDSS	1.08", 8	1.00", 7	0.98", 7	1.00", 7	0	1.02"	1.02"	5.6	7.5	6.7	6.8		A	A	A	A	A	A	A	(628092)	1.4	0.98	4.5	4.9
2011-11-06T01:33:40	628135	z_SDSS	0.91", 6	0.81", 6	0.81", 7	0.84", 5	0	0.86"	--	9.5	-	6.2	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:35:05	628135	z_SDSS	1.02", 6	1.01",11	0.94", 8	0.88", 4	0	0.97"	0.92"	4.1	6.8	7.7	7.0		A	A	A	A	A	A	A	(628092)	1.4	0.98	4.7	5.0
2011-11-06T01:36:53	628138	z_SDSS	1.02", 7	0.95", 6	0.97", 8	1.02", 6	0	0.99"	--	6.4	-	5.9	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:38:20	628138	z_SDSS	1.10", 6	1.04", 8	1.04", 6	1.04", 6	0	1.06"	1.02"	2.4	4.4	6.3	6.1		A	A	A	A	A	A	A	(628092)	1.4	0.98	4.6	5.1
2011-11-06T01:40:11	628141	z_SDSS	1.20", 7	1.13",10	1.13",10	1.13", 4	0	1.14"	--	3.0	-	7.0	-		-	-	-	-	-	-	-	(628092)				
2011-11-06T01:41:39	628141	z_SDSS	1.10", 7	1.08", 8	1.09", 8	1.07", 4	0	1.10"	1.12"	2.1	2.5	7.0	7.0		A	A	A	A	A	A	A	(628092)	1.4	0.99	4.5	5.2
2011-11-06T01:51:33	628301	z_SDSS	0.87",10	0.79", 5	0.78", 4	0.78",10	0	0.80"	--	2.7	-	6.4	-		-	-	-	-	-	-	-	(628300)				
2011-11-06T01:53:00	628301	z_SDSS	0.81", 5	0.85", 7	0.85", 6	0.83", 5	0	0.83"	0.81"	5.2	3.9	5.9	6.2		A	A	A	A	A	A	A	(628300)	1.4	0.81	3.9	6.2

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2011-11-06T04:01:16 629246 z_SDSS      1.03", 6  0.94", 5  0.96", 4  0.95", 5   0   0.98" --      5.9  -     6.0  -      - - - - - -   -     (629197)
2011-11-06T04:02:41 629246 z_SDSS      1.10", 5  1.03", 8  1.05", 9  1.08", 9   0   1.09" 1.04"   9.3  7.6   8.7  7.3    A A A A A A   A     (629197)   1.4  0.86   9.8  7.2

2011-11-06T04:13:22 595891 u_SDSS      1.34", 4  1.26", 2  1.26", 2  1.28", 2   0   1.28" 1.28"   4.4  4.4   2.6  2.6    - - - - - -   - STD
2011-11-06T04:20:02 595891 g_SDSS      1.05", 3  1.07", 3  1.08", 3  1.08", 2   0   1.06" 1.06"   1.8  1.8   2.8  2.8    - - - - - -   - STD
2011-11-06T04:22:53 595891 r_SDSS      1.00", 2  1.07", 3  1.08", 4  1.00", 3   0   1.03" 1.03"   6.4  6.4   3.0  3.0    - - - - - -   - STD
2011-11-06T04:25:49 595891 i_SDSS      1.02", 3  1.11", 9  1.12", 9  1.04", 3   0   1.06" 1.06"  10.0 10.0   5.5  5.5    - - - - - -   - STD
2011-11-06T04:29:30 595891 z_SDSS      1.04", 4  1.16", 3  1.17", 3  1.06", 2   0   1.10" 1.10"  11.4 11.4   3.1  3.1    - - - - - -   - STD
2011-11-06T04:40:54 596089 u_g_r_i_SDSS 0.00", 0  0.00", 0  0.00", 0  0.00", 0   0   0.00" 0.00"   0.0  0.0   0.0  0.0    - - - - - -   - STD

2011-11-06T04:52:27 625046 i_SDSS      1.25", 4  1.21", 4  1.19", 4  1.16", 3   0   1.21" --      1.3  -     3.7  -      - - - - - -   -     (625045)
2011-11-06T04:53:55 625046 i_SDSS      1.01", 5  0.90", 4  0.88", 4  0.95", 3   0   0.93" 1.07"   7.9  4.6   3.9  3.8    A A A A A A   A     (625045)   1.4  1.07   4.6  3.8
2011-11-06T04:55:55 625049 i_SDSS      0.98", 5  0.87", 4  0.87", 4  0.98", 4   0   0.92" --     12.1  -     4.3  -      - - - - - -   -     (625045)
2011-11-06T04:57:20 625049 i_SDSS      1.04", 4  0.98", 3  0.98", 3  1.00", 3   0   1.00" 0.96"   4.3  8.2   3.2  3.8    A A A A A A   A     (625045)   1.4  1.02   6.4  3.8
2011-11-06T04:59:20 625052 i_SDSS      1.40", 6  1.24", 3  1.31", 3  1.33", 5   0   1.32" --      4.9  -     4.3  -      - - - - - -   -     (625045)
2011-11-06T05:00:47 625052 i_SDSS      1.30", 6  1.18", 5  1.18", 4  1.30", 4   0   1.21" 1.27"   5.7  5.3   4.4  4.3    A A A A A A   A     (625045)   1.4  1.10   6.0  4.0
2011-11-06T05:02:44 625055 i_SDSS      1.02", 7  0.86", 4  0.91", 3  0.96", 4   0   0.94" --     10.4  -     4.3  -      - - - - - -   -     (625045)
2011-11-06T05:04:09 625055 i_SDSS      0.96", 5  0.81", 4  0.83", 4  0.87", 4   0   0.86" 0.90"  10.6 10.5   4.2  4.2    A B A A A A   B     (625045)   1.4  1.05   7.1  4.0
2011-11-06T05:06:02 625058 i_SDSS      1.06", 6  0.83", 5  0.84", 4  0.99", 6   0   0.92" --     17.5  -     5.3  -      - - - - - -   -     (625045)
2011-11-06T05:07:27 625058 i_SDSS      0.88", 5  0.72", 5  0.74", 4  0.83", 5   0   0.79" 0.85"  15.3 16.4   5.0  5.2    A B A A A A   B     (625045)   1.4  1.01   9.0  4.3
2011-11-06T05:09:21 625061 i_SDSS      0.86", 9  0.69", 4  0.72", 3  0.79", 3   0   0.75" --     13.4  -     4.1  -      - - - - - -   -     (625045)
2011-11-06T05:10:45 625061 i_SDSS      0.88", 8  0.72", 3  0.73", 3  0.84", 3   0   0.79" 0.77"  16.6 15.0   4.1  4.1    A B A A A A   B     (625045)   1.4  0.97  10.0  4.2
2011-11-06T05:12:47 625064 i_SDSS      0.83", 4  0.70", 6  0.72", 5  0.80", 5   0   0.76" --     13.9  -     5.7  -      - - - - - -   -     (625045)
2011-11-06T05:14:12 625064 i_SDSS      0.85", 4  0.74", 3  0.75", 3  0.84", 5   0   0.81" 0.79"  14.6 14.2   4.8  5.2    A B A A A A   B     (625045)   1.4  0.94  10.6  4.4
2011-11-06T05:16:06 625418 i_SDSS      0.89", 4  0.75", 4  0.77", 4  0.87", 3   0   0.83" --     17.4  -     4.4  -      - - - - - -   -     (625045)
2011-11-06T05:17:31 625418 i_SDSS      0.81", 4  0.75", 4  0.77", 4  0.82", 4   0   0.80" 0.81"   9.4 13.4   4.3  4.3    A B A A A A   B     (625045)   1.4  0.93  11.0  4.4
2011-11-06T05:24:10 625421 i_SDSS      0.88", 4  0.74", 6  0.75", 5  0.82", 4   0   0.79" --     12.3  -     5.4  -      - - - - - -   -     (625045)
2011-11-06T05:25:35 625421 i_SDSS      0.75", 3  0.75", 6  0.75", 7  0.74", 3   0   0.75" 0.77"   0.7  6.5   5.4  5.4    A A A A A A   A     (625045)   1.4  0.91  10.5  4.5
2011-11-06T05:27:30 625424 i_SDSS      0.80", 6  0.65", 4  0.66", 5  0.72", 3   0   0.70" --     12.5  -     4.5  -      - - - - - -   -     (625045)
2011-11-06T05:28:58 625424 i_SDSS      0.71", 4  0.73",10  0.75", 7  0.69", 4   0   0.71" 0.70"   7.2  9.8   6.5  5.5    A A A A A A   A     (625045)   1.4  0.89  10.4  4.6
2011-11-06T05:30:56 625427 i_SDSS      0.75", 5  0.70", 6  0.71", 5  0.73", 4   0   0.71" --      2.7  -     5.5  -      - - - - - -   -     (625045)
2011-11-06T05:32:21 625427 i_SDSS      0.76", 5  0.76", 9  0.78", 7  0.78", 4   0   0.77" 0.74"   1.2  2.0   6.7  6.1    A A A A A A   A     (625045)   1.4  0.88   9.6  4.7
2011-11-06T05:34:16 625430 i_SDSS      0.76", 4  0.66", 5  0.69", 6  0.75", 5   0   0.71" --      9.1  -     5.2  -      - - - - - -   -     (625045)
2011-11-06T05:35:43 625430 i_SDSS      0.78", 3  0.76", 6  0.76", 5  0.73", 4   0   0.75" 0.73"   0.2  4.7   4.8  5.0    A A A A A A   A     (625045)   1.4  0.86   9.2  4.8
2011-11-06T05:37:33 625433 i_SDSS      0.89", 4  0.73", 6  0.75", 5  0.79", 4   0   0.78" --     10.9  -     5.2  -      - - - - - -   -     (625045)
2011-11-06T05:38:59 625433 i_SDSS      0.81", 4  0.74", 4  0.76", 4  0.78", 3   0   0.77" 0.78"   2.9  6.9   4.0  4.6    A A A A A A   A     (625045)   1.4  0.86   9.0  4.7
2011-11-06T05:40:55 625436 i_SDSS      0.91", 4  0.78", 6  0.79", 6  0.83", 3   0   0.81" --      6.3  -     4.7  -      - - - - - -   -     (625045)
2011-11-06T05:42:22 625436 i_SDSS      0.86", 3  0.77", 3  0.78", 4  0.79", 4   0   0.80" 0.81"   4.9  5.6   3.1  3.9    A A A A A A   A     (625045)   1.4  0.85   8.8  4.7
2011-11-06T05:44:16 625439 i_SDSS      0.85", 3  0.80", 4  0.81", 5  0.85", 3   0   0.82" --      6.4  -     4.9  -      - - - - - -   -     (625045)
2011-11-06T05:45:41 625439 i_SDSS      0.93", 3  0.88", 4  0.90", 4  0.87", 4   0   0.90" 0.86"   0.6  3.5   4.2  4.6    A A A A A A   A     (625045)   1.4  0.85   8.4  4.7
2011-11-06T05:47:39 625442 i_SDSS      0.80", 3  0.74", 4  0.77", 5  0.75", 3   0   0.76" --      1.9  -     3.6  -      - - - - - -   -     (625045)
2011-11-06T05:49:04 625442 i_SDSS      0.71", 2  0.71", 4  0.72", 5  0.69", 3   0   0.71" 0.73"   1.6  1.7   4.4  4.0    A A A A A A   A     (625045)   1.4  0.85   8.0  4.6
2011-11-06T05:51:14 625445 i_SDSS      0.79", 3  0.79", 6  0.82", 7  0.77", 2   0   0.79" --      3.1  -     4.7  -      - - - - - -   -     (625045)
2011-11-06T05:52:38 625445 i_SDSS      0.83", 4  0.80", 6  0.80", 5  0.81", 4   0   0.81" 0.80"   2.2  2.6   5.2  5.0    A A A A A A   A     (625045)   1.4  0.84   7.7  4.6

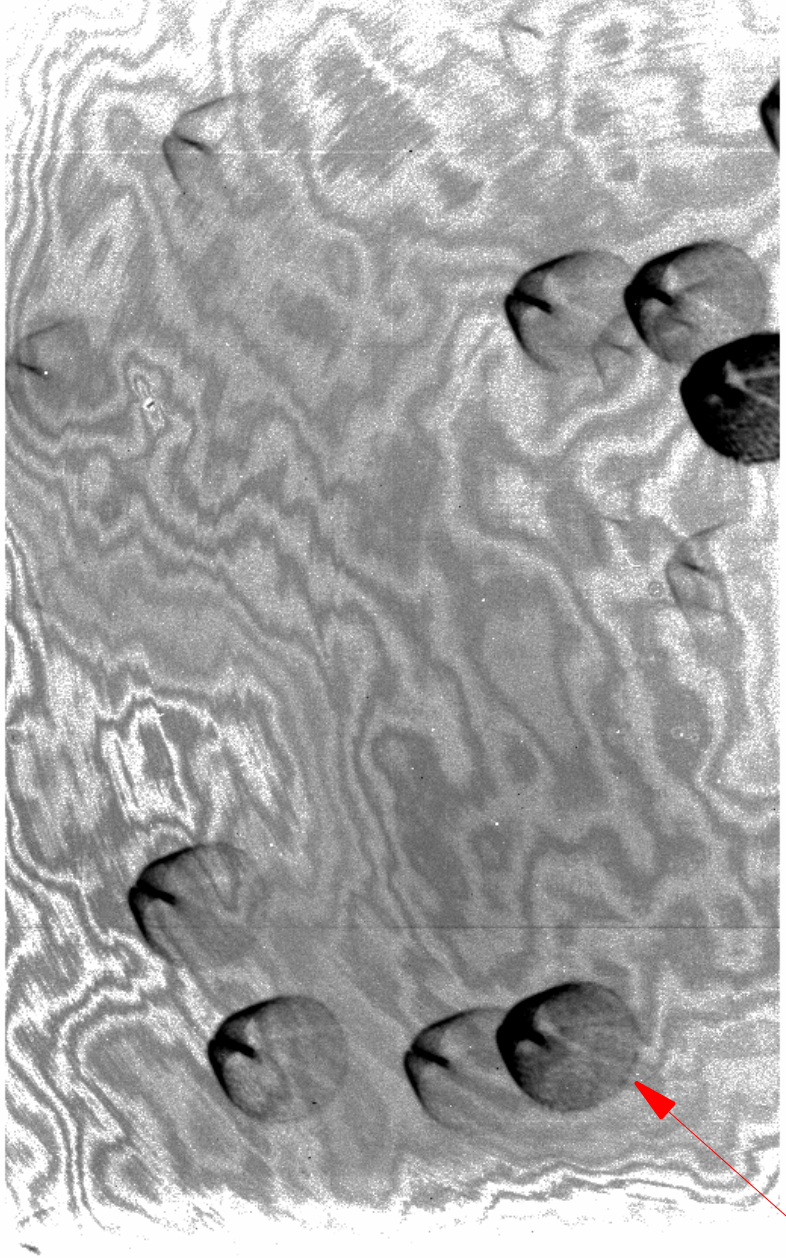
2011-11-06T06:01:16 613644 i_SDSS      0.85",10  0.83",11  0.84", 9  0.87",11   0   0.84" --      2.1  -     9.5  -      - - - - - -   -
2011-11-06T06:06:00 613644 i_SDSS      0.78", 3  0.80", 5  0.80", 5  0.77", 3   0   0.78" --      3.8  -     4.0  -      - - - - - -   -
2011-11-06T06:10:41 613644 i_SDSS      0.91", 2  0.89", 4  0.89", 4  0.87", 3   0   0.89" --      0.7  -     3.5  -      - - - - - -   -
2011-11-06T06:15:23 613644 i_SDSS      0.89", 4  0.91", 5  0.91", 4  0.87", 3   0   0.89" --      5.2  -     3.8  -      - - - - - -   -
2011-11-06T06:20:04 613644 i_SDSS      0.72", 4  0.75", 7  0.76", 8  0.70", 4   0   0.72" 0.82"   7.7  3.9   5.7  5.3    A A A A A A   A                1.1

2011-11-06T06:30:43 613904 i_SDSS      0.86", 3  0.82", 4  0.84", 6  0.91", 5   0   0.85" --      4.3  -     4.4  -      - - - - - -   -
2011-11-06T06:35:24 613904 i_SDSS      0.95", 5  0.95", 6  0.96", 5  0.91", 4   0   0.94" --      3.1  -     4.8  -      - - - - - -   -
2011-11-06T06:40:06 613904 i_SDSS      0.92", 4  0.94", 6  0.94", 6  0.90", 4   0   0.92" --      4.5  -     5.0  -      - - - - - -   -
2011-11-06T06:44:49 613904 i_SDSS      0.86", 4  0.84", 5  0.85", 5  0.82", 5   0   0.84" --      1.4  -     4.8  -      - - - - - -   -
2011-11-06T06:49:30 613904 i_SDSS      0.83", 4  0.84", 7  0.85", 5  0.80", 5   0   0.82" 0.87"   5.9  3.8   4.9  4.8    A A A A A A   A                1.1

2011-11-06T07:03:22 613891 i_SDSS      0.94", 3  0.94", 8  0.95", 6  0.92", 4   0   0.93" --      2.1  -     5.5  -      - - - - - -   -
2011-11-06T07:08:03 613891 i_SDSS      0.96", 4  0.94", 5  0.94", 5  0.91", 5   0   0.94" --      1.3  -     5.2  -      - - - - - -   -
2011-11-06T07:12:43 613891 i_SDSS      1.39", 5  1.38", 7  1.39", 6  1.39", 5   0   1.38" --      0.7  -     5.8  -      - - - - - -   -
2011-11-06T07:17:23 613891 i_SDSS      1.00", 5  0.97", 6  0.99", 6  0.98", 5   0   0.99" --      1.2  -     6.0  -      - - - - - -   -
2011-11-06T07:22:05 613891 i_SDSS      1.44", 5  1.37", 7  1.38", 7  1.40", 5   0   1.39" 1.13"   2.5  1.6   6.6  5.8    B A A A A A   B                1.1

2011-11-06T07:39:59 629812 r_SDSS      1.29", 5  1.26", 6  1.27", 6  1.27", 7   0   1.27" --      0.8  -     6.2  -      - - - - B -   B     (629811)
2011-11-06T07:41:25 629812 r_SDSS      1.45", 2  1.39", 4  1.42", 4  1.49", 3   0   1.43" 1.35"   3.0  1.9   3.3  4.8    A A A A B A   B     (629811)   1.4  1.35   1.9  4.8
```

2011-11-08T01:56:01	613956	i_SDSS	0.88", 8	0.84", 9	0.86",11	0.97",11	0	0.88"	--	6.7	-	9.9	-	-	-	-	-	B	-	B
2011-11-08T02:00:41	613956	i_SDSS	0.88", 7	0.84", 7	0.85", 9	0.96", 8	0	0.88"	0.90"	6.7	3.9	8.7	9.8	A	A	A	A	B	A	B
2011-11-08T02:11:39	614008	i_SDSS	0.85",10	0.87",12	0.86",11	0.92",10	0	0.87"	--	2.3	-	10.7	-	-	-	-	-	B	-	B
2011-11-08T02:16:19	614008	i_SDSS	0.84",10	0.87",14	0.86",13	0.88",10	0	0.86"	--	1.9	-	12.0	-	-	-	-	-	B	-	B
2011-11-08T02:21:03	614008	i_SDSS	0.91", 9	0.92",13	0.92",12	0.93",12	0	0.92"	--	1.3	-	11.7	-	-	-	-	-	B	-	B
2011-11-08T02:25:47	614008	i_SDSS	0.93", 8	0.83",12	0.83",11	0.95",12	0	0.88"	--	12.1	-	10.4	-	-	-	-	-	B	-	B
2011-11-08T02:30:31	614008	i_SDSS	0.92", 8	0.89",11	0.89",12	0.95",10	0	0.91"	0.89"	4.1	4.3	10.3	11.0	A	A	B	A	B	A	B
2011-11-08T02:41:36	614086	i_SDSS	0.86", 7	0.84",12	0.85",11	0.91",12	0	0.87"	--	3.8	-	10.5	-	-	-	-	-	B	-	B
2011-11-08T02:46:16	614086	i_SDSS	0.84", 6	0.84",10	0.84",11	0.88",11	0	0.85"	--	2.2	-	9.3	-	-	-	-	-	B	-	B
2011-11-08T02:51:00	614086	i_SDSS	0.85", 6	0.83", 9	0.83",10	0.86",10	0	0.84"	--	2.1	-	9.1	-	-	-	-	-	B	-	B
2011-11-08T02:55:40	614086	i_SDSS	0.83", 7	0.82",11	0.82",11	0.84",11	0	0.83"	--	2.2	-	9.8	-	-	-	-	-	B	-	B
2011-11-08T03:00:24	614086	i_SDSS	0.84", 7	0.82",10	0.83",11	0.87",10	0	0.84"	0.85"	3.1	2.7	9.4	9.6	A	A	A	A	B	A	B
2011-11-08T03:12:13	613943	i_SDSS	0.78", 9	0.78",12	0.79",11	0.78",10	0	0.78"	--	0.0	-	11.7	-	-	-	-	-	B	-	B
2011-11-08T03:16:57	613943	i_SDSS	0.77", 8	0.79",11	0.79",12	0.78",10	0	0.78"	--	1.5	-	10.6	-	-	-	-	-	B	-	B
2011-11-08T03:21:41	613943	i_SDSS	0.94", 8	0.90",11	0.91",12	0.95", 7	0	0.92"	--	3.9	-	10.2	-	-	-	-	-	B	-	B
2011-11-08T03:26:25	613943	i_SDSS	0.93", 8	0.89", 9	0.89",11	0.91", 6	0	0.91"	--	3.0	-	9.3	-	-	-	-	-	B	-	B
2011-11-08T03:31:05	613943	i_SDSS	0.91",13	0.89",15	0.90",16	0.94",11	0	0.91"	0.86"	3.6	2.4	15.3	11.4	A	A	B	A	B	A	B
2011-11-08T03:41:37	613982	i_SDSS	0.91", 7	0.88",12	0.89",11	0.91", 7	0	0.90"	--	3.6	-	10.2	-	-	-	-	-	B	-	B
2011-11-08T03:46:21	613982	i_SDSS	0.85", 7	0.84",12	0.86",11	0.89",10	0	0.86"	--	2.3	-	9.8	-	-	-	-	-	B	-	B
2011-11-08T03:51:02	613982	i_SDSS	0.98",14	0.97",20	0.98",21	0.99",18	3	0.98"	--	0.7	-	18.2	-	-	-	B	-	B	-	B
2011-11-08T03:55:46	613982	i_SDSS	0.90",17	0.90",23	0.91",21	0.91",19	5!!	0.91"	--	1.2	-	20.1	-	-	-	C	-	B	-	C
2011-11-08T04:00:28	613982	i_SDSS	0.91",17	0.89",21	0.90",20	0.92",19	4	0.90"	0.91"	2.3	2.0	20.1	15.7	A	A	C	A	B	A	C
							Out of constraints for ellipticity													
2011-11-08T04:11:42	596089	u_g_r_i_SDSS	0.00", 0	0.00", 0	0.00", 0	0.00", 0	0	0.00"	0.00"	0.0	0.0	0.0	0.0	-	-	-	-	-	-	-
2011-11-08T04:26:50	595895	u_SDSS	0.00", 0	0.92", 3	0.93", 1	0.96", 2	0	0.94"	0.94"	3.0	3.0	2.6	2.6	-	-	-	-	-	-	-
2011-11-08T04:33:35	595895	g_SDSS	0.00", 0	0.87", 2	0.90", 2	0.77", 2	0	0.86"	0.86"	12.0	12.0	2.3	2.3	-	-	-	-	-	-	-
2011-11-08T04:36:22	595895	r_SDSS	0.00", 0	0.58", 2	0.61", 3	0.58", 4	0	0.60"	0.60"	0.8	0.8	2.9	2.9	-	-	-	-	-	-	-
2011-11-08T04:39:19	595895	i_SDSS	0.00", 0	0.66", 7	0.65", 6	0.57", 3	0	0.63"	0.63"	11.4	11.4	6.0	6.0	-	-	-	-	-	-	-
2011-11-08T04:42:59	595895	z_SDSS	0.00", 0	0.58", 7	0.59", 7	0.67", 6	0	0.61"	0.61"	10.9	10.9	7.0	7.0	-	-	-	-	-	-	-
2011-11-08T04:56:27	613774	i_SDSS	0.66",19	0.63",17	0.60",13	0.74", 4	0	0.66"	--	11.2	-	14.6	-	-	-	-	-	B	-	B
2011-11-08T05:01:08	613774	i_SDSS	0.58", 3	0.59", 7	0.60", 7	0.74", 6	0	0.62"	--	6.9	-	6.0	-	-	-	-	-	B	-	B
2011-11-08T05:05:52	613774	i_SDSS	0.67", 7	0.62", 6	0.64", 7	0.76", 6	0	0.67"	--	9.8	-	6.2	-	-	-	-	-	B	-	B
2011-11-08T05:10:33	613774	i_SDSS	0.67", 4	0.63", 6	0.64", 6	0.76", 5	0	0.67"	--	12.4	-	5.4	-	-	-	-	-	B	-	B
2011-11-08T05:15:17	613774	i_SDSS	0.68", 3	0.67", 6	0.67", 5	0.76", 5	0	0.69"	0.66"	5.5	9.2	4.9	7.4	A	A	A	A	B	A	B
2011-11-08T05:26:39	613839	i_SDSS	0.81", 4	0.79", 7	0.80", 7	0.88", 4	0	0.81"	--	4.6	-	5.7	-	-	-	-	-	B	-	B
2011-11-08T05:31:24	613839	i_SDSS	0.91", 5	0.82", 6	0.83", 5	0.95", 4	0	0.87"	--	11.7	-	4.6	-	-	-	-	-	B	-	B
2011-11-08T05:36:04	613839	i_SDSS	0.84", 4	0.81", 5	0.83", 5	0.92", 3	0	0.84"	--	6.4	-	4.5	-	-	-	-	-	B	-	B
2011-11-08T05:40:48	613839	i_SDSS	0.89", 3	0.87", 4	0.88", 4	0.94", 3	0	0.89"	--	4.6	-	3.7	-	-	-	-	-	B	-	B
2011-11-08T05:47:01	613839	i_SDSS	0.00", 0	14.14",52	16.02",51	0.00", 0	3	15.69"	3.82"	0.0	5.5	50.1	13.7		C	A	B	A	B	A
2011-11-08T06:00:24	613839	i_SDSS	0.77", 3	0.74", 5	0.76", 4	0.83", 4	0	0.77"	--	6.6	-	4.4	-	-	-	-	-	B	-	B
2011-11-08T06:05:09	613839	i_SDSS	0.82", 3	0.81", 4	0.82", 4	0.85", 3	0	0.82"	--	2.1	-	3.9	-	-	-	-	-	B	-	B
2011-11-08T06:09:48	613839	i_SDSS	0.87", 3	0.87", 3	0.88", 4	0.90", 4	0	0.88"	--	1.1	-	3.3	-	-	-	-	-	B	-	B
2011-11-08T06:14:32	613839	i_SDSS	0.87", 4	0.84", 3	0.86", 3	0.89", 6	0	0.86"	--	2.6	-	3.9	-	-	-	-	-	B	-	B



procedures

2011-11-08T01:56:01	6									0	0.88"	--	6.7	-	9.9	-							B	-	B
2011-11-08T02:00:41	6									0	0.88"	0.90"	6.7	3.9	8.7	9.8			A	A	A	A	B	A	B
2011-11-08T02:11:39	6									0	0.7[illegible]		2.3		10.[illegible]	-							B	-	B
2011-11-08T02:16:19	6									0	0.86"	--	1.9	-	12.0	-							B	-	B
2011-11-08T02:21:03	6									0	0.92"	--	1.3	-	11.7	-							B	-	B
2011-11-08T02:25:47	6									0	0.88"	--	12.1	-	10.4	-							B	-	B
2011-11-08T02:30:31	6									0	0.91"	0.89"	4.1	4.3	10.3	11.0			A	A	B	A	B	A	B
2011-11-08T02:41:36	6									0	0.87"	--	3.8	-	10.5	-							B	-	B
2011-11-08T02:46:16	6									0	0.85"	--	2.2	-	9.3	-							B	-	B
2011-11-08T02:51:00	6									0	0.84"	--	2.1	-	9.1	-							B	-	B
2011-11-08T02:55:40	6									0	0.83"	--	2.2	-	9.8	-							B	-	B
2011-11-08T03:00:24	6									0	0.84"	0.85"	3.1	2.7	9.4	9.6			A	A	A	A	B	A	B
2011-11-08T03:12:13	6									0	0.78"	--	0.0	-	11.7	-							B	-	B
2011-11-08T03:16:57	6									0	0.78"	--	1.5	-	10.6	-							B	-	B
2011-11-08T03:21:41	6									0	0.92"	--	3.9	-	10.2	-							B	-	B
2011-11-08T03:26:25	6									0	0.91"	--	3.0	-	9.3	-							B	-	B
2011-11-08T03:31:05	6									0	0.91"	0.86"	3.6	2.4	15.3	11.4			A	A	B	A	B	A	B
2011-11-08T03:41:37	6									0	0.90"	--	3.6	-	10.2	-							B	-	B
2011-11-08T03:46:21	6									0	0.86"	--	2.3	-	9.8	-							B	-	B
2011-11-08T03:51:02	6									3	0.98"	--	0.7	-	18.2	-			-	-	B	-	B	-	B
2011-11-08T03:55:46	6									5!!	0.91"	--	1.2	-	20.1	-			-	-	C	-	B	-	C
2011-11-08T04:00:28	6									4	0.90"	0.91"	2.3	2.0	20.1	15.7			A	A	C	A	B	A	C
2011-11-08T04:11:42	5									0	0.00"	0.00"	0.0	0.0	0.0	0.0			-	-	-	-	-	-	-
2011-11-08T04:26:50	5									0	0.94"	0.94"	3.0	3.0	2.6	2.6			-	-	-	-	-	-	-
2011-11-08T04:33:35	5									0	0.86"	0.86"	12.0	12.0	2.3	2.3			-	-	-	-	-	-	-
2011-11-08T04:36:22	5									0	0.60"	0.60"	0.8	0.8	2.9	2.9			-	-	-	-	-	-	-
2011-11-08T04:39:19	5									0	0.63"	0.63"	11.4	11.4	6.0	6.0			-	-	-	-	-	-	-
2011-11-08T04:42:59	5									0	0.61"	0.61"	10.9	10.9	7.0	7.0			-	-	-	-	-	-	-
2011-11-08T04:56:27	6									0	0.66"	--	11.2	-	14.6	-							B	-	B
2011-11-08T05:01:08	6									0	0.62"	--	6.9	-	6.0	-							B	-	B
2011-11-08T05:05:52	6									0	0.67"	--	9.8	-	6.2	-							B	-	B
2011-11-08T05:10:33	6									0	0.67"	--	12.4	-	5.4	-							B	-	B
2011-11-08T05:15:17	6									0	0.69"	0.66"	5.5	9.2	4.9	7.4			A	A	A	A	B	A	B
2011-11-08T05:26:39	6									0	0.81"	--	4.6	-	5.7	-							B	-	B
2011-11-08T05:31:24	6									0	0.87"	--	11.7	-	4.6	-							B	-	B
2011-11-08T05:36:04	6									0	0.84"	--	6.4	-	4.5	-							B	-	B
2011-11-08T05:40:48	613839	i_SDSS	0.89", 3	0.87", 4	0.88", 4	0.94", 3				0	0.8[illegible]	--	4.6	-	3.7	-							B	-	B
2011-11-08T05:47:01	613839	i_SDSS	0.00", 0	14.14",52	16.02",51	0.00", 0				3	15.69"	3.82"	0.0	5.5	50.1	13.7			C	A	B	A	B	A	
2011-11-08T06:00:24	613839	i_SDSS	0.77", 3	0.74", 5	0.76", 4	0.83", 4				0	0.77"	--	6.6	-	4.4	-							B	-	B
2011-11-08T06:05:09	613839	i_SDSS	0.82", 3	0.81", 4	0.82", 4	0.85", 3				0	0.82"	--	2.1	-	3.9	-							B	-	B
2011-11-08T06:09:48	613839	i_SDSS	0.87", 3	0.87", 3	0.88", 4	0.90", 4				0	0.88"	--	1.1	-	3.3	-							B	-	B
2011-11-08T06:14:32	613839	i_SDSS	0.87", 4	0.84", 3	0.86", 3	0.89", 6				0	0.86"	--	2.6	-	3.9	-							B	-	B

2011-11-04T01:56:58	627215	i_SDSS	0.62", 6	0.67", 5	0.69", 5	0.65", 8	0	0.68"	--	0.2	-	6.1	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T01:58:24	627215	i_SDSS	0.63", 5	0.76", 8	0.76", 8	0.63", 7	0	0.70"	0.69"	17.2	8.7	7.4	6.8	A	A	A	A	A	A	A	(627214)	1.4	0.69	8.7	6.8
2011-11-04T02:12:38	627215	i_SDSS	0.85", 3	0.90",11	0.90",10	0.82", 6	0	0.86"	--	7.5	-	8.2	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T02:15:09	627215	i_SDSS	0.82", 4	0.87",13	0.87",10	0.76", 7	0	0.83"	0.84"	10.0	8.8	9.0	8.6	A	A	A	A	A	A	A	(627214)	1.4	0.77	8.7	7.7
2011-11-04T02:17:25	627218	i_SDSS	0.82", 5	0.78", 9	0.77", 8	0.74", 5	0	0.79"	--	3.3	-	7.3	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T02:18:50	627218	i_SDSS	0.84", 6	0.85", 8	0.86", 6	0.83", 9	0	0.86"	0.82"	0.8	2.1	7.2	7.2	A	A	A	A	A	A	A	(627214)	1.4	0.79	6.5	7.5
2011-11-04T02:20:40	627221	i_SDSS	0.95", 5	1.00",11	1.01",11	0.92", 7	0	0.97"	--	5.2	-	9.0	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T02:22:05	627221	i_SDSS	1.10",12	1.01",11	1.01",11	1.02",13	0	1.04"	1.00"	6.5	5.9	13.0	11.0	A	A	B	A	A	A	B	(627214)	1.4	0.84	6.3	8.4
2011-11-04T02:23:59	627224	i_SDSS	0.98", 9	0.88",12	0.88",10	0.90",12	0	0.92"	--	8.4	-	11.3	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T02:25:24	627224	i_SDSS	1.04",12	0.84", 9	0.86", 8	0.92", 9	0	0.92"	0.92"	14.6	11.5	9.7	10.5	A	B	B	A	A	A	B	(627214)	1.4	0.86	7.4	8.8
2011-11-04T02:27:20	627227	i_SDSS	1.08",10	1.00",10	1.02", 9	1.04",11	0	1.04"	--	6.6	-	10.3	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T02:28:45	627227	i_SDSS	1.07",11	0.88", 8	0.89", 9	0.98",10	0	0.96"	1.00"	15.4	11.0	9.6	9.9	A	B	A	A	A	A	B	(627214)	1.4	0.88	8.0	9.0
2011-11-04T02:30:37	627230	i_SDSS	0.91", 8	0.86",12	0.86",12	0.88",11	0	0.88"	--	4.0	-	11.4	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T02:32:01	627230	i_SDSS	0.98", 8	0.84", 9	0.84", 8	0.90", 8	0	0.88"	0.88"	9.5	6.7	8.6	10.0	A	A	A	A	A	A	A	(627214)	1.4	0.88	7.8	9.2
2011-11-04T02:33:52	627233	i_SDSS	0.89", 4	0.80",10	0.81",11	0.85", 7	0	0.82"	--	5.0	-	8.9	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T02:35:20	627233	i_SDSS	1.02", 7	0.84", 6	0.84", 6	0.92", 5	0	0.90"	0.86"	14.6	9.8	6.5	7.7	A	A	A	A	A	A	A	(627214)	1.4	0.88	8.1	9.0
2011-11-04T02:37:11	627236	i_SDSS	0.95",11	0.75", 9	0.78", 9	0.87", 9	0	0.83"	--	15.7	-	9.4	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T02:38:35	627236	i_SDSS	0.89",10	0.78", 9	0.79", 8	0.81", 8	0	0.81"	0.82"	6.7	11.2	9.2	9.3	A	B	A	A	A	A	B	(627214)	1.4	0.87	8.4	9.0
2011-11-04T02:44:36	627239	i_SDSS	0.82", 4	0.75",10	0.78", 8	0.76", 6	0	0.78"	--	3.2	-	7.8	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T02:46:04	627239	i_SDSS	0.74", 6	0.76",10	0.78", 9	0.72",10	0	0.75"	0.77"	5.2	4.2	9.1	8.4	A	A	A	A	A	A	A	(627214)	1.4	0.86	8.0	8.9
2011-11-04T02:47:50	627242	i_SDSS	0.91", 9	1.07",20	1.07",17	0.87",14	2	0.95"	--	23.8	-	14.7	-	-	-	B	-	-	-	B	(627214)				
2011-11-04T02:49:15	627242	i_SDSS	0.92", 6	0.82",12	0.81", 9	0.79", 7	0	0.82"	0.89"	1.0	12.4	8.8	11.8	A	B	B	A	A	A	B	(627214)	1.4	0.86	8.4	9.2
2011-11-04T02:51:09	627245	i_SDSS	0.95", 8	1.06",20	1.03",18	0.88",11	1	0.95"	--	19.5	-	14.2	-	-	-	B	-	-	-	B	(627214)				
2011-11-04T02:52:34	627245	i_SDSS	1.01",12	1.21",25	1.20",22	0.98",14	4	1.06"	1.00"	25.2	22.3	17.8	16.0	A	B	B	A	A	A	B	(627214)	1.4	0.88	9.5	9.8
2011-11-04T02:54:25	627248	i_SDSS	1.07",14	1.25",28	1.28",26	1.04",19	4	1.10"	--	28.1	-	21.0	-	-	-	B	-	-	-	B	(627214)				
2011-11-04T02:55:50	627248	i_SDSS	0.93",12	1.07",24	1.10",23	0.89",15	4	0.96"	1.03"	24.3	26.2	18.4	19.7	A	B	B	A	A	A	B	(627214)	1.4	0.89	10.8	10.5
2011-11-04T02:57:39	627251	i_SDSS	1.15",22	1.39",30	1.40",28	1.11",20	6!!	1.19"	--	33.1	-	23.5	-	-	-	D	-	-	-	D	(627214)				
2011-11-04T02:59:04	627251	i_SDSS	0.96", 7	0.96",13	0.97",11	0.87", 8	0	0.90"	1.04"	10.2	21.7	10.0	16.8	A	B	D	A	A	A	D	(627214)	1.4	0.90	11.6	11.0
2011-11-04T03:00:53	627254	i_SDSS	0.96",11	1.10",22	1.08",21	0.94",14	4	0.99"	--	21.9	-	16.9	-	-	-	B	-	-	-	B	(627214)				
2011-11-04T03:02:18	627254	i_SDSS	0.89", 9	0.94",18	0.93",18	0.83",12	0	0.87"	0.93"	14.0	18.0	14.1	15.5	A	B	B	A	A	A	B	(627214)	1.4	0.90	12.0	11.3
2011-11-04T03:04:10	627257	i_SDSS	0.92",10	1.07",19	1.06",19	0.84",12	0	0.94"	--	27.4	-	14.9	-	-	-	-	-	-	-	-	(627214)				
2011-11-04T03:05:35	627257	i_SDSS	1.03",16	1.21",28	1.23",27	1.01",18	5!!	1.08"	1.01"	23.9	25.6	21.8	18.4	A	B	D	A	A	A	D	(627214)	1.4	0.91	12.9	11.7
2011-11-04T03:07:25	627260	i_SDSS	0.94",11	1.12",20	1.09",23	0.79",12	2	0.93"	--	37.5	-	15.3	-	-	-	B	-	-	-	B	(627214)				
2011-11-04T03:08:50	627260	i_SDSS	0.91", 9	1.08",18	1.13",22	0.77",12	1	0.91"	0.92"	40.5	39.0	14.2	14.8	A	D	B	A	A	A	D	(627214)	1.4	0.91	14.4	11.9
2011-11-04T03:10:39	627263	i_SDSS	0.90",12	1.10",22	1.08",23	0.78",13	4	0.91"	--	36.7	-	16.7	-	-	-	B	-	-	-	B	(627214)				
2011-11-04T03:12:04	627263	i_SDSS	0.98",12	1.14",22	1.13",25	0.82",12	4	0.96"	0.94"	34.6	35.6	16.8	16.8	A	D	B	A	A	A	D	(627214)	1.4	0.91	15.6	12.2

!!! C !!!

!!! Concatenation has >10% bad ellipticities. Give at least one OB a C !!!

!!! C !!!

!!! Concatenation has >10% with bad image degradation. Give at least one OB a C !!!

Special QC0 rules for concats and GTO

*** Following OB is GTO. Give QC grade D if IQ constraints are not met. ***

2011-11-04T03:24:05	606804	r_SDSS	0.73", 4	0.70", 7	0.71", 6	0.79", 3	0	0.73"	--	7.4	-	5.4	-	-	-	-	-	-	-	-		
2011-11-04T03:30:46	606804	r_SDSS	0.70", 5	0.66", 6	0.67", 6	0.74", 6	0	0.69"	--	6.4	-	4.7	-	-	-	-	-	-	-	-		
2011-11-04T03:37:26	606804	r_SDSS	0.66", 5	0.60", 4	0.60", 6	0.66", 4	0	0.63"	--	8.5	-	4.6	-	-	-	-	-	-	-	-		
2011-11-04T03:44:08	606804	r_SDSS	0.69", 5	0.61", 7	0.80", 9	0.70", 4	0	0.68"	--	4.8	-	5.4	-	-	-	-	-	-	-	-		
2011-11-04T03:50:49	606804	r_SDSS	0.67", 5	0.58", 5	1.01", 6	0.69", 4	0	0.69"	0.68"	1.4	5.7	4.6	4.9	A	A	A	A	A	A	A	GTO	1.2
2011-11-04T04:05:48	595891	u_SDSS	0.81", 4	0.76", 4	0.77", 4	0.79", 3	0	0.79"	0.79"	5.3	5.3	4.0	4.0	-	-	-	-	-	-	-	STD	

OmegaCAM QC0 procedures

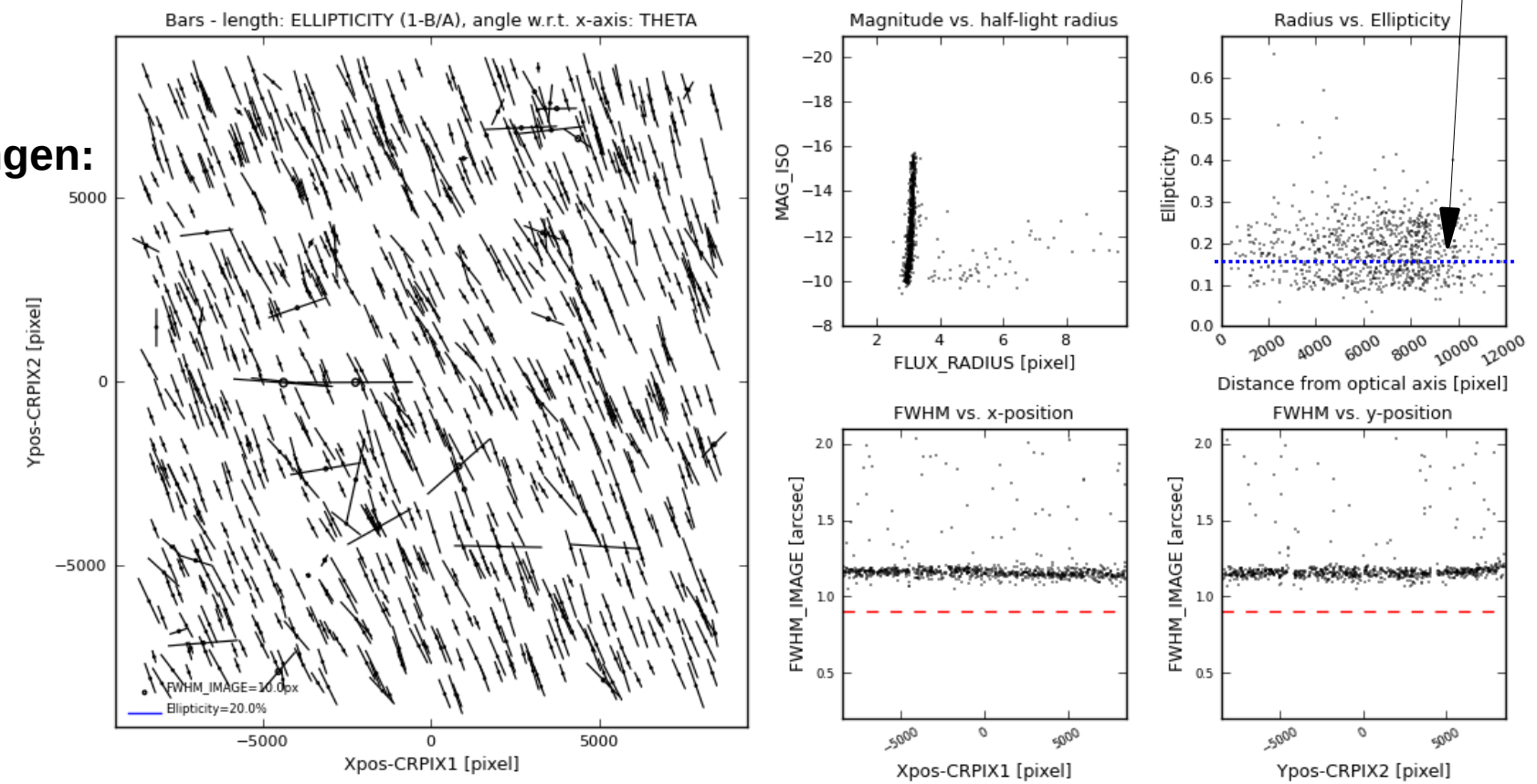
NOTE:

Ellipticity as f(pipeline setting): ell(IRAF)<ell(Paranal)<ell(Groningen)

NB: Paranal OmegaCAM ell limit of 0.15 is stricter than 0.20 limit for VIRCAM

PARANAL: 2012-03-17T05:54:55 612689 g_SDSS 1.16",12 1.17",10 1.18",10 1.17",11 0 1.17" -- 0.1 - 10.4 - - - - - -

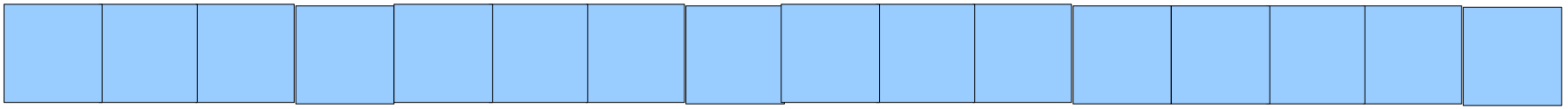
Groningen:



OmegaCAM QC0 procedures

QUESTION 1:

What is ATLAS astrometry experience with concatenated vs. offset design?



[Offsets have less overheads than presets, but offer less control on IA application]

QUESTION 2:

Expected long-term change of AWE extinction monitoring calibration?

[Soon calibration plan update to include regular ugri standard]