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OmegaCAM Secondary Standards

Programme

- Table below lists the 22 SA fields considered for OmegaCAM secondary standard fields. Out of this list 8 fields are preliminarily selected: the 8

preceded by an asterisk (*) to have full RA coverage as specified in the Calibration Plan. In addition a reference catalog will also be constructed for the polar field.

- Fields are observed with dithered observations that cover approximately 2x2 square degrees by making observations with each CCD

centered on the specified coordinates under photometric conditions. [Here](#) is an example ObservingBlock

- The number of Landolt standard stars, Stetson standard stars, SDSS DR5 stars and stars from the Preparatory Programme (PP) for the OmegaCAM Secondary Standard Program are listed for the OmegaCAM 1.2 square degree fieldsize.

Updated 18/11/2013

Key-band/user-band observations

Field	RA [deg]	Dec [deg]	#Landolt	#Stetson	#SDSS	#PP	observed	to be observed	comment
SA51	112.663	+29.828	0	0	214	0			
SA57	197.171	+29.384	0	0	952	0			
SA68	4.146	+15.844	0	0	1302	0			
*SA92	13.946	+0.949	41	213	1094	6475	ugrizBV		
SA93	28.783	+0.824	4	0	1128	0			
SA94	44.033	+0.571	7	0	1099	0			
*SA95	58.500	+0.000	45	426	1093	0	ugrizBV		
*SA98	103.021	-0.328	46	1116	0	23840	ugrizBV		
SA100	133.529	+0.546	6	1	3343	0			
*SA101	149.112	-0.386	35	117	1776	5591	ugrizBV		
SA102	163.779	+0.866	5	66	1517	0			
SA103	178.779	+0.556	2	0	1507	0			
*SA104	190.488	-0.529	34	76	1576	5701	g,r,i,z,B(1/2)	u,B(1/2),V	
SA105	204.533	+0.676	4	0	2172	0			
SA106	220.533	+0.427	2	15	2864	0			
*SA107	234.825	-0.263	28	728	3889	12006	ugriz	B (TBD 7 out of 33) ,V	
SA108	248.033	+0.369	6	3	6148	0			

Field	RA [deg]	Dec [deg]	#Landolt	#Stetson	#SDSS	#PP	observed	to be observed	comment
*SA110	280.600	+0.346	39	589	0	38562	ugrziB	V (TBD 3 out of 33 pointings)	qualify i (2013-06-21 and 2013-06-25
SA112	310.529	+0.524	7	73	12087	0			
*SA113	325.375	+0.499	42	483	4046	13947	ugrizBV		
SA114	340.529	+0.689	9	5	1957	0			
SA115	355.779	+0.888	10	0	1170	0			
filter exptime (for each individual dither position)									
	(sec)								
u	300, except SA92,95 and 113								
g	60								
r	75								
i	115								
z	75								
B	150								
V	150								

Composite filter observations

These are in addition to Calibration Plan's Polar Field (PF) observations.

sequence	field	exp time (sec) per exposure	status
17-point dither	SA107	150	DONE
17-point dither	SA113	150	DONE
PF-SA-PF	SA107	300	DONE
PF-SA-PF	SA113	300	DONE
twilights		4 exp times, optimized per quadrant.	DONE, verify quality
domeflats		as usual	DONE

Status

- Preliminary [secondary standards catalog](#) and [polar field catalog](#) are available in AstroWISE and are delivered to ESO.
- Final catalog delivery was planned for October 2012, but observational progress is too slow currently (June 12).
- Deliveries will be done by the OmegaCAM consortium (contact point: Gijs Verdoes Kleijn).
- Latest status of observations: [templates](#), [observing blocks](#)

OBs

- The OBs (as .obx files) that are remaining to be observed (as of 14/12/2011) are in [this tar-ball](#), now including updated exposure times and with RET2ORIG disabled.
- (07mar12): the u-band OBs have been split into OBs of ~1hour execution time: [new_sadither_obs_uband.tar.gz](#)
- 13aug13: the composite filter OBs: [17_ccd_composite_sa107.obx](#), [17_ccd_composite_sa113.obx](#)

Useful links

- [Secondary Standards Internal Page, restricted](#)

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