

DAY 8		Theme:		
Day 06 may (126) Ewout/Bernard				
Seq	Local time	Activity	Comment	
			<i>Note that last nights exposures and these are the first with hopefully final settings on the detectors.</i>	
Flat126 1	7:27	Twilight flat z' (test)	Estimate too long (800s), switching to i'.	
Flat126 2	7:30	Twilight flat i' (test)	Estimate rather long (120s). Abort, but start next	
Flat126 3-8	7:39	Twilight flat i'		
Flat126 9-13	7:43	Twilight flat u'	Aborted at 4-5(5-6) exposures, due to sunrise. The IWS seems to take long to merge files, this after replacement of hard disks...?	
Bias126 3-4	8:06	Readnoise		
Bias126 5-14	8:10		Done at 8:23. It appears to take a very long time to merge files.	
			<i>Switched on lamp/Toelner manually. Bernard has sent manual to do this.</i>	
Flat126 14	8:41	Quick check	Lamp crap continues. Now every template (exposure) seems to time out on the lamp, only then to continue.	
Flat126 15-24	8:58-9:29	Gain	20 exposures (max exptime: 4.3s) takes 33 minutes to finish. This is far too much. IWS was working for minutes at end of template to finish merging all files (during a template the process does not wait for merging of	

			previous exposures to finish).	
STD126 13-19	9:47	Test images taken by Bernard with pinhole filter to investigate crosstalk		
			Olaf/Christoph investigated crosstalk by heating up the dewar: the crosstalk was reduced/eliminated: so the problem is inside the dewar.	
	16:00	Metting (John notes)	<p>Stefan -clean up the cups</p> <p>Bernard -modify cooling controller for cabinet in VST dome</p> <p>Andrea -guiding with loop on telescope, but unsuccessful -set up simulation, no problems there, but still not running</p> <p>Koen -PR images of Leo in ~1" seeing -created library for image analysis</p> <p>Edwin -offset template behavior appears inconsistent -logs will be looked at -Andrea -modified behavior for dither, will check offset and jitter -offset is always relative!</p> <p>-request 4 monitors on INS, 2 dedicated to RTD, 2 for control -fix location of OBD files (with Stefan) -manner of flat-field taking: focus, offsets, etc., always try to do first correction of primary mirror</p>	

			<p>Andrea -image merge takes longer (~50%), IT person to investigate (HDD rpm?) Ewout</p> <p>-twilight flats: full sequence in i, partial sequence in u</p> <p>-new FIERA filter settings since last night's twilights, characterizations</p> <p>nearly complete</p> <p>Andrea</p> <p>-lamp issues: must use manual control, software to simulation</p> <p>Olaf</p> <p>-crosstalk tests reveal an issue in the CCDs, not the electronics, restricted to CCDs 93-96</p> <p>-John</p> <p>-not in IA CCDs, chip defect</p> <p>-electronic noise of aux CCDs may be due to improper use (readout when not ready, etc.)</p> <p>-CCDs in final configuration for this run, need to pay particular attention to 89-92</p> <p>plan for tonight</p> <p>-twilights if possible, guiding tests first half, observing second half</p>	
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			Dietrich -please check qualitatively cross-talk (flats, photom)	

NIGHT 8		Theme: more guiding testing, photometric quick check, hercules, offsetting conditions:		
Night 06/07 may (126/127) John/Koen early, Ewout/Edwin late				
Seq	Local time	Activity	Comment	
Flat126 35-40	19:20	Sky flats in z	Around 15000 ADU	
Flat126 41-46	19:30	Sky flats in g	Around 20000 ADU	
Flat126 47	19:40	Only one test sky flat in i		
Obs126 61-63	20:10	Guiding testing	Satellite track (23:52:57.279)	
Obs127 1	21:15	Guiding testing		

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Obs127 2-7	21:45	COSMOS field in g 1500 sec	Andrea taking a break from guiding work	
Obs127 8-10	22:25	COSMOS field in g 600 sec	AO calibration was poor. Aborted after 3 rd exposure. Last exposure is not usable.	
Obs127 11-15	22:45	COSMOS field in g 1500 sec	Satellite tracks of same satellite (02:04:04.735 and 02:09:50.078). Mirror has lost figure again.	
Obs127 16-18	23:20	COSMOS field in g 900 sec	Aborted after 3 rd exposure due to poor AO calibration.	
Obs127 19-22	00:10	Guiding testing		
Obs127 23	01:05	Pre-focus exposure in r 7 sec		
Focus127 2	01:10	Focus sequence in r 7 sec	Problem with MIDAS routine.	
Obs127 24	01:20	Pre-focus exposure in r 7 sec		
Focus127 3	01:20	Focus sequence in r 7 sec	Focus = 0.75. Need to have focus on MIDAS window to change box size with cursor keys.	
Std127 1-6	01:25	Photometric quick check		
Obs127 25-29	01:50	Hercules field 2 in r 1500 sec	Guide star: 16 03 49 +15 28 56	
Obs127 30-34	02:30	Hercules field 2 in g 1500 sec		
Obs127 35-39	03:00	Hercules field 2 in i 1500 sec		

Obs127 40-44	03:40	Hercules field 4 in g 1500 sec	Guide star: 16 09 43 +16 19 27	
Obs127 45	04:10			
Focus127 4	04:10			
Obs127 46-50	04:20	Hercules field 4 in r 1500 sec	Focus checked OK Further AO tuning needed	
			Run 1 cal	
Obs127 51-55	04:55	Hercules field 4 in i 1500 sec	Running into low alt	
Obs127 56-87	05:35	1.6 m star Map on all CCDs	17 33 36 -37 06 13 Template Test_all_chips NEXPO =33 g_SDSS 1 sec Also system data writing crash test Works well - No ghosts seen	
Obs127 88- 94	06:25	1.6 m star moved N on array outside array	Move 15 arcsec S starting at top edge of array Offset -1675 -75 -75 -75 -75 etc 3 sec Exp 4 is at edge expect at exp aborted at exp 6	
Obs127 94- 96	06:40	1.6 m star moved N on array outside array	Move 15 arcsec S starting at top edge of array Offset -2400 -75 -75 -75 -75 etc 3 sec Aborted- not enough time to complete before end of night	

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