

<b>DAY 6</b>		<b>Theme: check FIERA filter settings</b>		
<b>Day 04 may (124)</b>				
<b>Ewout/Bernard</b>				
<b>Seq</b>	<b>Local time</b>	<b>Activity</b>	<b>Comment</b>	
<b>Flat124 1-6</b>	7:30	Twilight flats i'	Counts ~10000ADU as requested in template, because I was still expecting the flaw in the calculation	
<b>Flat124 7-12</b>	7:38	Twilight flats z'	Ok. Note that both of these templates and earlier dawn twilights are taken facing east at ALT= $\sim$ 45deg, above the rising sun.	
<b>Bias124 1-2</b>	8:06	Read noise		
<b>Bias124 3-12</b>	8:08	Bias		
<b>Flat124 13</b>	8:23	Quick check	Current on toelner rather low initially	
<b>Flat124 14-33</b>	8:26	Gain z'		
<b>Dark124 1</b>	8:53	Dark opaque	600s exposure with internal dome lights on, to check light tightness	
		Tried to make Stromgren v flat. Like u', the filters over AG/IA CCDs are g' band to assure enough signal for guiding. If Stromgren v dome flats look like u' dome flats, light coming through the auxiliary filters above AG/IA CCDs may influence the flat.	Lamp warmup through engineering console. Resulted in timeout error. Power failure test was performed after. Stopped observing so day work can start.	
	10:15	Skype with Gijs	– Gijs says data arrives about 1.5days behind in Astro-WISE database. They are catching up.	

			<ul style="list-style-type: none"> <li>- Ingest on DPU is taking rather long; long queue times.</li> <li>- Danny is making plots for readnoise, gain. Got some issues with gain pairs being rejected.</li> <li>- Gijs works on photometry, will also try Quick Check trend</li> <li>- Gijs requests flatfields of composite filter (I think we should aim for 40000 ADU in g,r,i, this will result in 4000 ADU in u, roughly). Alternative is to take two sets, one for g,r,i and one for u.</li> </ul>	
	16:00	Meeting (Ewout's notes)	<ul style="list-style-type: none"> <li>- Bernard             <ul style="list-style-type: none"> <li>- Problem with lamps/Toelners. Issues 2 out of 4 times. Lamps do not always go on/off as expected. You can switch the Toelner on/off in the dome manually.</li> </ul> </li> <li>- John             <ul style="list-style-type: none"> <li>- Crosstalk in IA CCDs</li> </ul> </li> <li>- Andrea             <ul style="list-style-type: none"> <li>- Windowed readout mode, bad column at right edge AG1, left edge AG2, can be ignored in processing</li> </ul> </li> <li>- &lt;Software person&gt; Replacement of harddrives on IWS at 13:00-14:00u tomorrow.</li> <li>- Dietrich             <ul style="list-style-type: none"> <li>- List of overheads(??) Garching needs.</li> <li>- Crosstalk: Olaf/Christoph are still investigating. Solution still mostly likely has to be in data reduction.</li> </ul> </li> <li>- Koen             <ul style="list-style-type: none"> <li>- ADC is available for our use. Should</li> </ul> </li> </ul>	

			<p>be tested first with Andrea present.</p> <ul style="list-style-type: none"> <li>- Edwin</li> <li>- Tracking at different rotator angles still to do.</li> </ul>	
	16:00	Daily meeting (John's notes)	<p>Bernard:</p> <ul style="list-style-type: none"> <li>-lamp on/off issue is likely in software, a manual override can be used, will postpone to OCM2</li> <li>-id reader of filter updated, scattered light issue may only be due to the interference filters</li> <li>-fiber in place, but images not archived, will address</li> </ul> <p>Andrea:</p> <ul style="list-style-type: none"> <li>-guiding tests going well, but edge artifacts in guiding window requires special treatment, not ready for IA CCDs</li> <li>-header review</li> </ul> <p>IT person:</p> <ul style="list-style-type: none"> <li>-IWS hard drives will be replaced between 13:00 and 14:00</li> </ul> <p>Fernando:</p> <ul style="list-style-type: none"> <li>-IWS data needs to be moved before noon UT</li> </ul> <p>Stefan:</p> <ul style="list-style-type: none"> <li>-observing overheads will be verified</li> </ul> <p>Dietrich:</p> <ul style="list-style-type: none"> <li>-crosstalk characterization appears complete, need to analyze and address, perhaps in the processing stage</li> <li>-detector changes/fiber tests by 18:00 today, will do quick checks following</li> </ul>	

			<p>Koen:</p> <ul style="list-style-type: none"> <li>-photometric observations last night in addition to some deep fields</li> <li>-need to have proper standard field descriptions delivered</li> <li>-want to test the ADC, but want Andrea B. for support</li> <li>-will test dependence on rotator angle with ADC in and out, and get basic autoguiding feedback as a test</li> </ul> <p>Ewout:</p> <ul style="list-style-type: none"> <li>-differences in flats between mosaic halves is only relative</li> </ul>	
		OmegaCEN meeting (John's notes)	<ul style="list-style-type: none"> <li>-need to deliver templates for the health checks, standard fields, and similar</li> <li>-check to be repeated on-site may include IlluminationCorrection (annually), polar field (3 times a night), QuickCheck and ReadNoise (nightly),</li> </ul>	
		Workstation terminals reconfigured to access only offline workstation	For an outside machine from astro@wocoff: ssh -X <a href="mailto:vst@odyssey4.gony2002">vst@odyssey4</a> , gony2002	

<b>NIGHT 6</b>		<b>Theme: first half guiding tests, second half photometric and Hercules cluster observations</b>		
<b>Night 04/05 may (124/125)</b> <b>Ewout/Koen early, John/Edwin late</b>		<b>conditions: clear, but very windy</b> <b>strategy: monit of polar field, monit of standard field, observations of Hercules cluster</b>		
<b>Seq</b>	<b>Local time</b>	<b>Activity</b>	<b>Comment</b>	
			VST cameras: OmegaCAM: <a href="http://134.171.188.27/">http://134.171.188.27/</a> VST stairs: <a href="http://134.171.188.28/">http://134.171.188.28/</a> VST Telescope: <a href="http://134.171.188.29/">http://134.171.188.29/</a>	
			FIERA filter settings back to nominal	
<b>Bias124 13-14</b>	18:40	Readnoise template	Testing returned FIERA filter settings	
<b>Flat124 34-35</b>	19:30	Sky flat template in u	Only testing	
<b>Flat124 36-41</b>	19:40	Sky flat in ugri		
			We need to ask Groningen to do illumcorr for all possible bands using only dome and using only twilights	
<b>Obs124 3-6</b>	20:30	Guiding testing		
<b>Obs125 1-2</b>	21:00	Guiding testing		
<b>Bias125 1-2</b>	21:10	Readnoise template	To verify result of [previous readnoise template	
<b>Obs125 3-19</b>	21:15	Guiding testing		

<b>Dark125 1-3</b>	01:20	Dark template 3600 sec	Due to excessive windiness. Following this, we will observe the polar field, Hercules, then SA110. During the last part of the final dark, the dome was open. There is now a restriction for pointing to the North, so no standard fields or Hercules are possible.	
<b>Std125 1-6</b>	04:30	Monit template sequence in ugri, u, g, r, i, z filters	Assuming focus of 0.79 is nominal. Seeing is ~2 arcsec due to the wind. Exposure 2 (g-band) shows some electronic noise near the readout side of all CCDs (appears to have been seen earlier today?). The last exposure showed a seeing of about 1.2 arcsec	
<b>Obs125 20</b>	05:10	Stare template in r 30 sec	Move to quality field 4. Focus at 0.83, not in focus. Changing to 0.79	
<b>Obs125 21</b>	05:15	Stare template in r 30 sec	Used for guide CCD astrometric solution	
	05:20	Ocmag/ocmia in r 30sec	Guide CCDs astrometric solution, attempt 3	
<b>Obs125 22-25</b>	05:30	Dither n=5 in g 300 sec	Moved to SC2059-247. Precessed coordinates and ENDED in the 4 <sup>th</sup> exposure.	
<b>Obs125 26-30</b>	06:05	Dither n=5 in g 300 sec	Move to precessed coordinates: 21 02 10.38, -24 32 02.1	
<b>Obs125 31-35</b>	06:35	Dither n=5 in r 300 sec	Seeing is 1.1 arcsec	
<b>Std125 7-12</b>	07:10	Monit template sequence in ugri, u, g, r, i, z filters		











