Mon May 18th (May 19th UT)		**Weather: clear**				**Focus: 371**							
Observer:	**Graduate Student Observational Astronomy Workshop**												
Detector:	**CCD2**												
Read Mode:	**bin x2, slow**												
Exposure No	**Object**	**RA**	**Dec**	**HA**	**Airmass**	**Filter**	**Exp Time (s)**	**Time (UT)**	**Notes**				
100-110	bias						0	21:37					
111-117	dome flat		-5:00:00	0:00		I	3	21:46	dome flat lamps, ~33k				
118-124	dome flat		"	"		R	4.5		dome flat lamps, ~32k				
125-131	dome flat		"	"		V	3	22:08	telescope flat lamp=105, ~31k				
132-138	dome flat		"	"		B	30	22:20	telescope flat lamp=105				
139	twilight flat					B	3	3:29	Noah starting to log here for the twilight flats. Last 100x100 gave 47k counts				
140	twilight flat	10" west of previous				B	3	3:30	Same exposure time, 10" west of previous. Ideal, beautiful flats				
141	twilight flat	10" west				B	4	3:31	37k counts. Good				
142	twilight flat	didn't move telescope				V	4	3:32	Changing to V filter. Didn't move telescope. 25k counts. OK but a little low				
143	twilight flat	10" west				V	6	3:33	Trying higher exposure time. Moved telescope. ~30k counts / pixel				
144	twilight flat	10" west again				V	9	3:34	34k counts				
145	twilight flat	didn't move telescope				R	9	3:35	25k counts				
146	twilight flat	10" west				R	12	3:37	29k?				
147	twilight flat	10" west				R	16	3:38	26k				
148	twilight flat	didn't move telescope				I	16	3:39	24k				
149	twilight flat	10" west				I	25	3:40	30k				
150	twilight flat	10" west				I	35	3:41	31k				
151	Focus measuren	12:29:09	28:17:36	-0:14:45	1.01	B	100s in 10s inter	4:35	focus 355, move north 30" then 15" and change focus by +5 each time				
152	M104	12:39	-11:37:23	-0:10:00	1.52	R	300	4:50	Sombrero Galaxy				
153	M104	12:39:59	-11:37:23	-0:04:00	1.52	V	300	4:54					
154	M104	"	"	0:00	1.52	B	300	5:00					
155	M104	"	"	0:05	1.52	I	300	5:05					
156	104_350	12:43:15	-0:33:21	0:24	1.27	I	10	5:27	std star				
157	104_350	"	"	0:28	1.28	I	120	5:30					
158	104_350	"	"	0:31	1.28	B	120	5:34					
159	104_350	"	"	0:37	1.28	V	120	5:38					
160	104_350	"	"	0:37	1.28	R	120	5:40					
161	2026dro	13:3412.8	-7:08:23	-0:08:00	1.4	R	180	5:46	SN				
162	2026dro	"	"	-0:03:00	1.4	I	180	5:51					
163	2026dro	"	"	0:01	1.4	B	300	5:56					
164	2026dro	"	"	0:06	1.4	V	240	6:01					
165	M13	16:41:41	36:27:37	-2:50:00	1.2	V	30	6:10	Globular Cluster, off center				
166	M13	"	"	-2:45:00	1.19	V	30	6:16	better centered				
167	M13	"	"	-2:42:00	1.18	R	30	6:18					
168	M13	"	"	-2:41:00	1.18	I	30	6:20					
169	M13	"	"	-2:39:00	1.18	B	30	6:21					
170	M51	13:29:53	47:11:41	0:47	1.03	R	30	6:37					
171	M51	"	"	0:49	1.03	R	300	6:39					
172	M51	"	"	0:55	1.03	I	300	6:46					
173	M51	"	"	1:00	1.03	B	300	6:50					
174	M51	"	"			V	300						