

# OBSERVING LOG

**TELESCOPE** : du Pont  
**INSTRUMENT** : WFCCD  
**CONFIGURATION** : TYPHOON  
**OBSERVER** : JR  
**NIGHT ASSISTANT**: Sergio

**DATE** : January 13/14 2018  
**NIGHT**: 3 of 8  
**PAGE** : 1 of 4  
**WEATHER**: Clear

File	Object	UTstart	Expsec	Filter	Airmass	Aper	Seeing	Comments
3001	slit image	18:29	4	V	zenith	150um	-	@390v, y=2000:x 1422.7, 2642.3
3002	"	18:31	4	V	-	750um	-	y=2000:x 1434.1, 2630.9
3003-3005	dflat	18:33	3x4	B	-	"	-	lamp @ 480V <20k
3006-3008	"	18:38	3x4	V	-	"	-	lamp @ 390V ~16k
3009-3011	"	18:42	3x3	R	-	"	-	lamp @ 350V ~23k
3012-3014	"	18:47	3x80	grism	-	150um	-	lamp @ 480V ~35k peak
3015-3017	"	18:56	3x20	"	-	750um	-	lamp @ 480V ~35k peak
3018-3020	hartmann	19:01	3x50	grism	-	hart.	-	lamp @ 480V
3021	"	19:08	4	V	-	"	-	lamp @ 350V
3022-3024	HeNeAr arc	19:11	30/60/90	grism	-	150um	-	HeNeAr
3025-3032	bias	19:19	8x0	-	-	-	-	
3033	Pointing check	00:35	1	V	1.003	open	1.8"	OK, seeing poor
3034	LTT 1020	00:39	3	"	1.070	"	1.8"	@1586, 1928, 73W, 35"S
3035	"	00:42	"	"	1.074	"	1.5"	PSF/seeing better 1"E offset
3036	"	00:44	"	"	1.078	750um	1.5"	
3037	"	00:46	180	grism	1.081	"		STD star, <30k peak
3038	HeNeAr arc	00:51	30	"	1.089	150um		Dome was partly open, take again
3039	"	00:54	"	"	1.095	"		OK
3040	PL Blazar	00:57	5	V	1.800	open	~1.5"	@1565, 1917
3041	"	00:59	10	"	1.825	"	~1.5"	0.7" E offset
3042	"	01:02	10	"	1.85	150um		0.5" E offset
3043	"	01:04	10	"	1.874	"		0.5"E offset then begin spectra
3044-3045	"	01:06	2x600	grism	1.902	"		
3046	NGC 1532	01:32	15	V	1.003	open	1.1"	Cass ring = 145, 41"W, 118"N
3047	"	01:36	15	"	1.004	"	~1"	4.5"E, 1"S

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3048	NGC 1532	01:39	15	V	1.004	open	~1"	Perfect! Matched to ccd1097
3049	"	01:42	600	grism	1.005	150um		y=831.6
3050	"	01:54	"	"	1.009	"		821.3
3051	"	02:05	"	"	1.015	"		811.0
3052	"	02:17	"	"	1.024	"		800.7
3053	"	02:29	"	"	1.034	"		790.4
3054	"	02:40	"	"	1.046	"		780.1
3055	"	02:52	"	"	1.060	"		769.8
3056	"	03:04	"	"	1.078	"		759.5
3057	"	03:15	"	"	1.098	"		749.2
3058	"	03:27	"	"	1.12	"		738.9
3059	"	03:37	"	"	1.15	"		728.6
3060	"	03:49	"	"	1.18	"		718.3
3061	"	04:01	"	"	1.21	"		708.0
3062	"	04:12	"	"	1.25	"		697.7
3063	"	04:24	"	"	1.29	"		687.4
3064	"	04:35	"	"	1.33	"		677.1
3065	"	04:47	"	"	1.386	"		666.8
3066	NGC 1532	04:58	15	V	1.444	Open		656.5
3067	NGC 2280	05:02	30	V	1.036	"	1.3"	match to ccd9090: 63"W, 39"N
3068	"	05:06	"	"	1.040	"	1.3"	35.7"W, 30"S
3069	"	05:09	"	"	1.043	"	1.6"	24"E, 17"S (forgot to change cass in cobj!)
3070	"	05:12	"	"	1.047	"	1.4"	0.5"E, 0.8"N
3071	"	05:15	15	"	1.051	"	1.5"	14" W to account for slit & add overlap
3072	"	05:19	"	"	1.056	"	1.3"	

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3073	NGC 2280	05:21	600	grism	1.060	150um		356.5
3074	"	05:33	"	"	1.076	"		366.8
3075	"	05:44	"	"	1.095	"		377.1
3076	"	05:56	"	"	1.12	"		387.4
3077	"	06:07	"	"	1.15	"		397.7
3078	"	06:19	"	"		"		408.0
3079	"	06:31	"	"	1.21	"		418.3
3080	"	06:42	"	"	1.25	"		428.6
3081	"	06:54	"	"	1.29	"		438.9
3082	"	07:05	"	"	1.34	"		449.2
3083	"	07:17	"	"	1.4	"		459.5
3084	NGC 2280	07:28	15	V	1.462	open	1.5"	469.8
3085	2018bl	07:32	15	V	1.573	open	1.5"	SN @ 2087, 1951, off 322" W, 24" S
3086	"	07:37	"	"	1.58	"	1.4"	2.5" W
3087	"	07:40	"	"	1.58	"	1.4"	1422.4, 1995
3088	"	07:42	"	"	1.59	150um		slit cen off, move 1"E
3089	"	07:44	"	"	1.59	"		OK perfect
3090	2018bl	07:47	1200	grism	1.59	150um		
3091	NGC 2617	08:11	10	V	1.36	Open	1.8"	Center @ 1542, 1925, 58.2" W, 36" S
3092	"	08:14	"	"	1.37	"	1.7"	OK, try slit
3093	"	08:16	"	"	1.38	150um		0.6"E
3094	"	08:18	"	"	1.39	"		
3095	NGC 2617	08:21	900	grism	1.40	"		
3096	LTT 4816	08:39	10	V	1.098	open	1.9"	1796, 1962, 175"W, 19"S
3097	"	08:43	"	"	1.096	"		

