

## SPECTROGRAPH LOG SHEET

Sky brightness

Observers: Williams & PickeringInstrument: BlueConditions: Clear - Some CloudsDate: 6/6-7/2019File prefix: skyobsDetector Info: Focus 3.18

File #	Target Name	Filter	Grating	Slit/Apt	Refλ	Rot PA	Exp	Coadds	UT	AM	HA	Comments
1	G138-31	None	3001/mm	5" X 180"	5800	15.02	300s		7:41	1.11		Spectrophot standard
2	"	"	"	"	"	"	"		7:49	1.12		Clouds passing through
3	sky-a290-e185					-86.86	100s		8:03	1.00		E1=85 Az=90
4	"					"	"		8:05	1.00		"
5	"					"	"		8:07	1.00		"
6	"					"	"		8:11	1.00		diffused 10" in dec
7	"					"	"					
8	sky-a237.6-e120					-68.22	100s		8:20	2.86		E1=20 Az=37.6 Rosemount
9	"					"	"		8:22	2.81		
10	"					"	"			2.79		
11	sky-a237.6-e185					-101.62	100s		8:30	1.41		E1=45 Az=37.6
12	"					"	"		8:33	1.40		offset 10" in az.
13	"					"	"		8:35	1.39		offset another 10" az
14	sky-a267.5-e120					-64.05	100s		8:39	2.91		E1=20 Az=67.5 Vigneto
15	"					"	"		8:42	2.83		offset ~10" az
16	"					"	"		8:45	2.77		"
17	sky-a267.5-e145					-79.87	100s		8:49	1.41		E1=45 Az=67.5 Vigneto
18	"					"	"		8:52	1.40		no offsets
19	"					"	"		8:54	1.39		

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Observers: WILLIAMS & PICKERINGInstrument: BlueConditions: Some cloudsDate: 6/6-7/2019File prefix: skyobsDetector Info: focus 3.18

File #	Target Name	Filter	Grating	Slit/Apt	Refλ	Rot PA	Exp	Coads	UT	AM	HA	Comments
20	sky-a2352.0/20	None	300/mm	5" X 180"	5800	30.29	100s		8:59	2.92		el=20 Az=352 Tucson
21	"					"	"		9:02	2.94		offset 10"
22	"					"	"		9:04	2.95		"
23	sky-a2352.0/45	"	"	"	"	151.81	100s		9:12	1.42		el=45 Az=352 Tucson
24	"					"	"		9:16	1.42		offset +10" az Satellite
25	"					"	"		9:18	1.42		offset ~10"
26	sky-a2186.6.0/20					7.42	100s		9:27	2.92		el=20 Az=186.6 Nogales
27	"					"	"		9:30	2.93		offset ~10" Az
28	"					"	"		9:33	2.94		"
29	sky-a2186.6.0/45					5.70	100s		9:37	1.41		el=45 Az=186.6 Nogales
30	"					"	"		9:40	1.42		offset ~-7"
31	"					"	"		9:42	1.42		
32	sky-a2180.0/20								9:48	2.91		el=20 Az=180 South
33	"								9:51	2.91		offset +14" az
34	"								9:54	2.92		offset +22
35	sky-a2180.0/40								9:58	1.55		el=40 Az=180 South
36	"								10:01	1.55		offset ~10
37	"								10:04	1.55		offset

Milky Way

## SPECTROGRAPH LOG SHEET

Observers: Williams & PreezingInstrument: BlueConditions: ClearDate: 6-7-2019File prefix: skyobs

Detector Info: \_\_\_\_\_

File #	Target Name	Filter	Grating	Slit/Apt	Refλ	Rot PA	Exp	Coadds	UT	AM	HA	Comments
38	sky-a290-el20	None	300 l/mm	5" X 180"	5800	-59.91	100s		10:10	2.92		el = 20 Az = 90 East
39	"	"				"	"		10:12	2.85		offset 12" az
40	"	"				"	"		10:15	2.77		offset 10" az
41	sky-a290-el56					-70.84	100s		10:19	1.21		el = 56 Az = 90 East
42	"					"	"		10:21	1.20		offset +10 az
43	"					"	"		10:29	1.19		"
44	sky-a20-el20					0.36	100s		10:29	2.93		el = 20 Az = 0 North
45	"					"	"		10:32	2.93		offset
46	"					"	"		10:35	2.93		offset
47	sky-a20-el42					179.63	100s		10:38	1.50		el = 42 Az = 0 North
48	"					"	"		10:41	1.50		offset 20"
49	"					"	"		10:43	1.50		"
50	sky-a270-el20					59.88	100s		10:48	2.95		el = 20 Az = 270 West
51	"					"	"		10:51	3.04		offset
52	"					"	"		10:53	3.12		
53	sky-a220-el37						100s		10:57	1.67		el = 37 Az = 270 West
54	"						"		11:00	1.69		offset
55	"						"		11:03	1.72		Twilight

Conditions: Clear

Detector Info: .....

File #	Target Name	Filter	Grating	Slit/Apt	Ref A	Rot PA	Exp	Coadds	UT	AM	HA	Comments
56	BD+28 4211	None	300 l/mm	5" X 180"	5800	-74.81	5 s		11:10	1.03		Flux std. in heavy twilight
57	"	"	"	"	"	"	15 s		11:12	1.03		close to saturation
58	"	"	"	"	"	"	125		11:14	1.03		better
59	"	"	"	"	"	"	105		11:15	1.02		may be best
60	test-flat			5" X 180"			105					Saturated
61	"						35					OK
62-66	flats	"	"	"	"	"	35					
67	henecear			5" X 180"			305					5" slit
68	"			1" X 180"			305					1" slit test
69	henecear			1" X 180"			3005					Henecear