

Telescope: 61"

Frame prefix #: SP89G

Day of Week: Fri

RA offset:

Focus:

Humdty:

Sheet #: 1

Observers: Ank/Krinsky

Date MST/UT: Oct. 6/7

Dec offset:

Tailpiece: 393

Balance:

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
001	HERA	30	0.50	120/10	9:06	23 10 18.3	-21 11 16	+2:18	1.72 Don faintly
002	"	60	"	130/20	9:15	17.2	11 58	3:06	1.79 quite: faint to Ap. 10 th 2000
003	"	600	"	"	9:28	14.8	11 10	3:19	1.91 quite clear
004	BS 448	0.80	"	700/10	10:06	1 33 12.0	-7 04 23	2:14	1.58 Cap
005	"	"	"	780/10					1.60
006	"	"	"	850/10					1.61
007	"	"	"	760/10	10:12			2:25	1.64
008	"	"	"	960/10					1.67
009	BS 718	0.40	1.00	900/10	10:32	2 27 36	8 24 17	1:46	1.21 Star
010	"	"	"	1030					1.22
11	"	"	"	1060					1.22
12	"	0.50	"	870	10:57	"	"	1:51	1.22 very cloud but
13	Com	60	0.50	130/10	11:31	5 59 00	40 45 19	-0:46	1.02 not good but Ap. 10 th 2000 photok. fine
14	"	"	"	"	11:46			-0:37	1.02 faint
15	"	"	"	120/20					1.01 Don faintly -

Telescope: 61"

1970 Nov 30 Wed

Frame prefix #: SP896

Day of Week: Sat

RA offset:

Focus:

Humdty: 89% Sheet #: 2

Observers: Pink, Gandy

Date MST/UT: 01/07/09

Dec offset:

Tailpiece: 343

Balance:

Temp O/I: 42/41

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
16	BS2141	20	0.50	2000	12:14	6:52	35:23.7	-0:09	1.10
17	"	20	"	7700					
18	"	"	"	7800					
19	"	"	"	5600	12:21	"	"	-0:02	1.10
			Surf	Oct. 8/09			H = 80%		T 46/48
020	SW1	600	0.50	140/900	4:08	23:39.015	+654.36	-1:46	1.23 ^{Natm. 270} ^{Phot 5000} _{in 7 min}
021	"	600	"	"	4:33:45				1.18 ^{partly clear}
022	"	1200	"	180 ⁵⁰ /1300	4:33:45	23:39:00.8	+653.54	-1:20	1.18
023	"	1200	"	180/1300	4:54:18	0.2	53.45	-0:19	1.19
024	"	1200	"	"	5:17:05	38:59.4	39	-0:37	1.12
025	"	1200	"	"	5:38:40	38.6	32	-0:15	1.11
026	HRA	600	"	← not taken					clouds
									clear the rest of the night

Telescope: 61"

1918 (1113810)

Frame prefix #: SP896

Day of Week: Sun

RA offset:

Focus:

Humdty: 60% Sheet #: 3

Observers: Fink, Gmy
Kukishin

Date MST/UT: Oct 08/09

Dec offset:

Tailpiece: 34.5

Balance: 40 Temp O/I: 48/50

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
027	SW1	120	0.50	1810/145	3104	23:58:42.7	6:51:33.7	-2:45	1.44 N/A 200 plot 500 1 min exp
028	"	"	"	3000	3126170	42.2	23.1	-2:23	1.34 tel ground wind filter let 2.5m
029	"	"	"	"	3149139	38:58.1	6:51 11.3	-2:00	1.22
030	HEA	"	"	2000/1400 6000	4122136	23:41:50.8	-0:43:25.7	-1:30	1.29 N/A 400 plot 1000 2.1 min
031	"	"	"	2000/1400 6000	444218	30.9	24.3	-1:08	1.25 N/A 2000 plot 500 2.5 min
032	"	"	"	"	50602	25.9	-0:40:59.7	-0:46	1.22 plot 600
033	"	"	"	"	522910	20.6	31:55.7	-0:23	1.20
034	"	"	"	"	5251:17	15.7	"	123 -0:04	1.19
035	"	"	"	"	6213105	10.7	38:27	+0:20	1.20
036	BS530	1.0	"	900	"	1:15:29	+1:48:29	-1:15	1.23
037	"	"	"	900	6:52	"	"	"	1.22
038	"	"	"	900	6:54	"	"	-1:15	1.22
039	"	"	"	820	6:55	"	"	-1:11	1.22
040	BS1322	2.0	0.50	700	"	4:14.59.3	+6 11 38	-3:16	1.05 G
041	"	"	"	400	7:11	"	"	-3:15	1.04

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty:

Sheet #: 4

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I:

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
042	BS1324	2.0	0.50	800				-3.11	1.15
043	BS1322	1.0	11	7000	7:27	4:15:02.7	610432	-2:58	1.53
044	"	11	11	700	7:30			-2:57	1.57
045	"	11	11	800					1.57
046	"	11	11	600	7:32	15:02.7	611041.9	-2:57	1.50
047	BS718	0.3	1.0	9500	7:41	2:27:39.	8:25:25	-0:57	1.13
048	"	11	11	900					
049	"	11	11	11	7:43	11	11	-0:55	1.12
050	"	11	11	900					Filter like BS875
051	BS875	11	11	5000	7:56	2:16:08.6	-3:44.4	-1:19	1.30
052	"	11	11	6000	7:58	11	11	-1.09	1.30
053	"	0.4	11	800	7:59		11	-1.09	1.30
054	Jetons	6.0	0.50	✓	8:22:01	239:09.5	162526.2	-0:28	1.05
055	"	12.0	11	3000 1600/1300	8:34:39	09.0	21.0	-0:19	1.04
056	"	11	11		8:55:57	08.0	12.0	+0:06	1.04

Notes: 200 Plate 550
 Plate has set
 Note: 210 Plate 550
 1m

Telescope:

Frame prefix #:

Day of Week:

RA offset:

Focus:

Humdty: 70% Sheet #: 5

Observers:

Date MST/UT:

Dec offset:

Tailpiece:

Balance:

Temp O/I: 46/48

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
057	Lynd	120	0.5D	400 net 1700/1300	9:17:12	2339:02.5	+11:27:05	+0:22	1.05
058	"	"	"	"	9:39:19	06.7	2417	+0:10	1.06
059	Lynd	600	"		11:16:15	0205:53.8	+41:04:10	-0:57	1.03 Not put 400 Phot 10 mo
060	"	"	"	300 net 1420/1200	11:28:41	59.5	:53	-0:45	1.02 became big hill
061	"	"	"	✓	11:40:53	57.9	55	-0:53	1.02 could not take 20" exp.
062	"	"	"	~310 1450	11:53:14	17.3	19	-0:21	1.01
063	"	"	"	130 net 1450	12:04:55	57.1	05:2.	-0:09	1.01
064	"	"	"		12:16:37			+0:02	1.01
065	BS 2141	10	"	900		0205:30.8	35:22:10	+0:15	1.00
066	"	"	"	900	12:33			+0:16	1.00
067	"	"	"						"
068	FP	"	"	500			offset -65°		Yarn 15
069	"	"	"						IRIS 259
070	"	"	"	480					IRIS 360

Guidefile = G89G1.GH

Telescope: 61" Guidepts (364.5, 426.8)

~~2700 old~~
2842 old
1840 new

Frame prefix #: FR89G

Day of Week: FRI/SAT

RA offset:

Focus: Humdty: 85 → 86

Sheet #: 1

Observers: Fink, Grundy

Date MST/UT: 6/7

Dec offset:

Tailpiece: 34.3

Balance: ~~200~~ 456 Temp O/I: 48/53

IRIS 298

512x512

256x256

not saved
(Just notes)

512x512

"

"

"

256x256

"

"

"

not saved

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
1	HRA	60	Open		8:50				
2	"	60	Blue/Dichroic	10400 photometry	(9:14)				500 above back ground
3	"	60	"		9:39				
X	BS 448 ^{Co}	.1	"	Photometry: 20000	~10:00				Saturated (24000)
X	BS 718 ^{HD}	.01	"	Photometry: 170000	~10:30				Saturated (21000)
4	Gehrels	60	OPEN	Photo: 91000 Peak: 10000	10:47		sky = 4600		
5	"	60	"	Photo: 92000 Peak: 10000	10:57		sky = 4700		
6	Lovas	60	"	Photo? Peak: 14500	11:07		sky		Very crowded field
7	"	60	"	Photo: 170000 Peak: 14000	11:13		sky =		
8	"	"	Blue/Dichr	Photo: 10000 Peak: 1800	11:24		sky = 1200		
9	"	"	"	10000 Peak: 1700	11:35				
10	"	"	"	10000 Peak: 1600	11:57				
11	"	"	"		12:03				
X	BS 2141	.05	"	Photo 96000 Peak 16000	12:15ish				

5:52h 11:99E

IMAGES

Frame prefix #: FR289G

Observers: Fink, Gundy

Telescope: 61"

Day of Week: SUN/MON

Date MST/UT: 8/9

RA offset:

Dec offset:

Guide hist = G89G3

Focus: 1958 (N) Humdty: 68% Sheet #: 4

Tailpiece:

Balance: Temp O/I: 47/50

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST UT	RA set	Dec set	Hour-angle exp-start	Comments $\frac{1}{2}$ (P.A., seeing, Moon, clouds, etc.)
24	DND	60	open	/	2:00				rates:
25	"	"	"	/14000	2:12				could not find Comet
X	FK4 star for		setup	6	Guidepoints:	→			GP = (363, 426)
26	SW-1	60	Blue	ph 5000 chr 2000	2:50	(not centered)	sky 1650		RATES: $\alpha = -0.0105$
27	"	"	"	phot-5000 peak-2500 above sky	3:11				$\delta = -0.005$
28	"	"	"	Phot-50 Peak-	3:27				(more 3 sec jumps!)
29	"	"	"	Phot-5200 Peak-	3:52				
30	"	"	"	Phot-	4:06				
31	HRA	"	"	Phot-10000	4:18				rates $\alpha = -0.0585$
32	"	30	"	Phot ~5500 6200	4:36				$\delta = 0.032$
33	"	"	"	Phot 6200	4:51				
34	"	"	"	6000	5:06				
35	"	"	"	5800	5:23				
36	"	"	"	5900	5:39				

512x512

512x512

256x256

"

"

"

256x256

"

"

"

Telescope: 61"

Frame prefix #: FR89G

Day of Week: Sun/Mon

RA offset:

Focus:

Humdty: 68% Sheet #: 5

Observers: Fink, Grundy

Date MST/UT: 8/9

Dec offset:

Tailpiece:

Balance:

Temp O/I: 47/49

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
37	HRA	30	Blue Dichro	6200	5:55				
38	"	"	"	5324	6:11				
39	"	"	"	5723	6:29				Computer crashed
40	BS-560	Comp	*	^{exp} .05 sec	Peak ~ 11000				→ Guidepoint (364.5, 425)
41	BS-1321	Comp	*	.2 sec	Peak ~ 10000, centroid: 145000				
42	BS-1322	Comp	*	.1 sec	Centroid ~ 150000				
43	BS-718	Std	*	.01	centroid ~ 190000				Computer crashed
44	BS-875	Std	*	.01	centroid ~ a lot				MOON SET
40	Gehrels	60	Open	8000/4400	8:11	center ~ 93000			Rates: $\alpha = -.0095$
41	"	60	Blue Dichro	1380/1160	8:18	cent ~ 5500			$\delta = -.006$
42	"	"	"	1417/1160	8:37	centroid 5563			
43	"	"	"	1420/1156	8:54	5588			
44	"	"	"	1391/1147	9:14	Centroid: 5747			
45	"	"	"	1372/1120	9:33	Centroid: 5279			
46	"	"	"	1407/1176	9:54	Centroid: 5853			

256x256

not saved

512x512

256x256

IMAGES

Frame prefix #: FR89G

Observers: FINK, GRUNDY

Telescope: 61"

Day of Week: SUN/MON RA offset:

Date MST/UT: 8/9 Dec offset:

New Ghist file: LOVAS3.GH

Focus: 1958

Tailpiece:

Balance:

IRIS=300

Humdty: 69% Sheet #: 7

Temp O/I: 44/47

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
512x512	56	LOVAS	60	Open 11000/4328	11:06	Photometry: 167000			Rates: $\alpha = +.0185$
256x256	56	"	60	Blue dichro 1503/1184	11:17	Photometry: 9304			(NOT SAVED) $\delta = 1.004$
"	57	"	"	1559/1184	11:32	Photometry: 9883			
"	58	"	"	1599/1185	11:48	Photometry: 9772			
"	59	"	"	1572/1184	12:00	Photometry: 9949			
"	60	"	"	1622/1280	12:15	Photometry: 9144			
"	61	"	"	2128/1731	12:25	Photometry: 9105			
	BS2141			not saved					(Junk3.GH)
Wrong in headers	62	FLAT	1	Blue dichro 12000					Variac = 85
	63	"	"	" 12000	12:39				"
	64	"	"	" 12000					"
	65	"	.01	Open 12000					"
	66	"	"	" "	12:52				"
	67	"	"	" "					"
	68	"	.1	V 8000					"
	69	"	"	V "	13:00				"
70	"	"	V "					"	

~~BUFE~~

Telescope: 61"

Frame prefix #: FR89G

Day of Week: Mon/Tues

RA offset:

Focus: 1950

Humdty:

Sheet #: 8

Observers: Gandy

Date MST/UT: 9/10

Dec offset:

Tailpiece: 34.3

Temp O/I: 49/51

Balance: ins 320

Exp #	Object	Exp time	Filter slit	Counts Object/Sky	Exp start MST	RA set	Dec set	Hour-angle exp-start	Comments (P.A., seeing, Moon, clouds, etc.)
151	L-44-113	2s	Open	8500	6:50				haze? lights? moon?
152	"	"	"	10000		0:29:9.48	30:21:6.9	+0:17	1.00 ↑
153	"	"	"	12000	6:54				
154	"	"	"	11000					2/3 moon
155	"	10s	V	10000	7:01				
156	"	"	"	10000				+0:25	1.01
157	"	"	"	11000	7:04	0:29:9.33	+30:21:4.8		
158	M-76	30s	Open	10000	~7:30				
159	NGC-253	30s	Open	21000	~7:50				
160	M 74	30s	"	"					
161	BOB 1	30s	V	1/3000	8:53	4:9:53.4	16:33:25.9	-1:18	1.09
162	"	300s	V	1/3000	8:57			-1:15	1.09
163	"	300s	V		9:03				1.08
164	BOB 2	30s	V	/	9:18				
165	BOB 3	300s	V	1/3000	9:19	4:10:15.82	16:34:35	-0:54	1.06
166	"	300s	V		9:26			-0:45	1.06