

Frame prefix: SP96 A

Telescope: 611

Sheet #: 1

Date: 96 Feb. 16/17

Focus: 3812

Iris: 298

Humidity: 67%

Observers: Hicks, Fink

Friday

Tailpiece:

Balance: 4500

Temp: 40/44

Guidepoint: 390.8, 399

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
001	Churyumov-Gerasimenko	600	0.50	^{297 out} 3900/1500	02:45	02:33:18	19:59:12	1.25	02:35 with @ 374
002	"	1200	"	^{57 out} 6870/1770	2:56:30	20	25	1.29	02:47 05 after 5-50 cat
003	"	"	"	6720/1800	3:17:25			1.30	03:08
004	"	"	"	^{47 out} 6800/2020	3:28:09			1.49	03:27
005	P/Jeko-Nash	1200	"	1960/1870	4:23:04	03:26:40	04:06:21.2	1.70	03:17 practically no signal
006	BS 3319	0.20	1.0	1310/1200	4:55	03:25:27	-02:54:07	1.30	Std
007	"	0.30	"	2300/1240	4:58	"	"	1.28	
008	"	"	"	2000/120	5:00	"	"	1.29	
009	"	"	"	1800					
010	BS 2067	2.0	"	1500	5:09	05:15:10	+13:55:17	1.14	01:15 Coy
	↓	↓	"	2300	5:10				
015	↓	↓	"	"				1.15	01:21
016	BS 1262	2.0	"	2700		04:05:06	21:14:41	1.52	03:37
	↓	↓	"	"					
021		"	"	"	5:24			1.86	03:42
022	BS 1747	2.0	1.0	24000	5:30	05:18:40	-48:08:17	2.18	02:51
	↓	↓	↓	↓					
027		↓	↓	↓				2.23	02:41

Frame prefix: SP96A

Telescope: 61"

Sheet #: 2

Date: 96 Feb 10/17
Fu

Focus:

Humidity:

Iris:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: Hicks/Fu

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
028	RS 660	1.0	1.0	2900		22:10:49	+24:12:12	3.0	top air
↓	↓	↓	↓	↓	8:40	↓	↓	3.10	05:02
033	NGC 6171 S222EAMCN	600	0.10	970/290	6:01	12:26:39	+45:44:19	1.50	-04:03
034	"	1200	"	2600 Not 5950/2320	6:12:12	"	"	1.45	-05:57 strange fainter noise in the exposure
035	"	"	"	6100/2300	6:33			1.35	-05:29
036	"	"	"	6300/2300	6:50			1.28	
037	"	"	"	6800/2200	7:15			1.22	-02:47
038	"	"	"	6600/2300	7:35			1.17	-1.13 END JUMP W EAST -02:26 -1:30
039	Hick-Hicks Pa	1200	0.50	1600 Not 2460/1530	8:55	13:26:19	+3 0624	1.22	-02:07
040	"	"	"	2600/1500	9:16			1.17	-01:46 ^{Be sure!} ON COMET 2m pass through opt. ← JUMP IN EAST
041	"	"	"	2800/1500	9:37			1.12	-01:24
042	"	"	"	2600/1500	9:58			1.10	-01:04
043	"	17min	"	2400/1500	10:18			1.07	-01:42 -3min dark slide
044	Huygenside	360	0.50	5800/1390	10:49	14:14:11	-24:30:17	2.05	-01:30
045	" 1996B2	1200	"	22000/1380	10:52			2.01	-01:23
046	"	"	"	24000/1600	11:17			1.92	-01:02
047	"	"	"	22140/1460	11:32			1.87	-00:41 quickly slightly compromised the aperture plate slipped in

Frame prefix: SP96A

Telescope: 61"

Sheet #: 3

Date: 96 Feb. 16/17

Focus: 3640

22.51, 45.45

Observers: Hicks / Fink

96 Feb. 17/18 Sat.

Iris:

Humidity: 51%

Tailpiece:

Temp: 94/47°F

Balance:

Guidepoint: 320.5, 399

with

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
048	Hyalda #2 1995 M	6w	0.5D	2640/1950	12:10	18:29:41	01:54:32	2.12	-03:52
049	"	12w	"	5940 ²⁷⁰⁰ /1280	12:21			1.90	-03:38
050	"	12w	"	4060 ¹⁷⁰⁰ /2270		18:29:10	01:56:06	1.70	-03:09
good exposure, but there was a substantial amount of cirrus at dawn									
Set Feb 17/18 light & heavy cirrus all over sky but we started imaging.									
051	P/W 2009	6w	0.5D	5800 ¹⁸⁰⁰ /2000	3:57	07:18:24	+27:46:44	1.02	-0:52
052	"	12w	"	5700 ³⁴⁰⁰ /2370	4:14	"	"	1.01	-0:17
053	"	"	"	4700 ²⁷⁰⁰ /2000	4:35	"	"	1.00	-0:15
054	"	"	"	4700/2200	4:38	"	"	1.00	-0:20
055	BS 2141	2.0	1.0mm	16000/1300	5:22	06:05:52	35:23:51	1.08	+0:49
	"	"	"	2400/1300					
059	"	"	"	1700/1200	5:26			1.08	01:47
much gaps + 3am, was quite clear!									
062	BS 4662	0.10	1.0w	2600/1400	10:15	12:15:56	-17:31:26	1.58	std. av. 27
063	"	"	"	2000/1100	10:20	"	"	1.57	0:32
064	BS 6060	2.00	"	4000/1300	10:28	16:15:30	+08:21:56	2.16	Cap
065	"	1.00	"	1500	10:29				

065

1900

Frame prefix: SP96A

Telescope: 60⁴

Sheet #: 9

Date: Sat Feb. 17/18

Focus:

Humidity:

Iris:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: Hicks, Pink

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
069	BS 6060	1.00	1.0m	11 000	10:33	16:15:29	-4:21:52	2.09	-03:13 Wide T=32
070	Hydrate	120	0.50	18K net	10:42	14:44:10	-24:25:41	2.06	-01:33 GUIDING PROBLEM
071	"	"	1'	23K hot	11:03			1.96	
072	"	"	0.25	1400/1550	11:25	14:44:51	-24:25:22	1.89	
073	BS 6060	1.0	1.0	2100/1400	11:53	16:15:28	-08:21:57	1.52	-01:54
074	↓	↓	↓	↓	11:57	↓	↓	1.50	-01:47
074	2571 Hydrate	1200	0.10	3450/1900 <small>2mm net</small>	12:03	18:29:45	02:41:01	2.20	-03:57
080	"	"	"	5790/1960 <small>4mm net</small>	12:15	"	"	1.92	-02:56
081	"	"	0.25	3610/1930 <small>7mm net</small>	12:47	18	42:32	1.71	1.57 END -05:13 good run

Pink

Frame prefix: SP96A

Telescope: 61⁴

Sheet #: 5

Date: Sat Feb. 18/19 (1 exp at)
 Thu Feb. 14/20

Focus: 3420
 Iris: >
 Tailpiece:
 Balance:

Humidity: 76%

Observers: Hicke, Fish

Temp: 30/41

Guidepoint: 310.7, 319

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
	- retrograde down will hold N_2 for a couple hours; built up high; down very cold								
	- seeing quite bad blowing up to 10" and more; there should be a fair amount of haze $N_2 \sigma = 24$								
082	P/Hdr-Mike-Pe	1200	0.50	2100 / 1500 ⁶⁰⁰	7:25	13:09:17	14:13:22	1.47	-08:11
	- at the end of this exposure cirrus haze became real thick; no clouds.								
	No Filter - close down to Tucson to get vacuum pump; pumped on down all afternoon.								
	- filled down while with a platform flow $U=1300$ $\sigma=17$ no fixed pattern noise								
				$U: 1308$ $\sigma=19$		1322, $\sigma=19$	1310 $\sigma=18$, 1270 $\sigma=17$, 1240, 17		1327, 17; 1335, 18
	- Mt. camera telescope	330		1202, 24	1190, 22	1160, 20	1160, 19	1150, 20	1110, 20
	- Play in shutter cell:			1184, 23	1182, 23	1180, 23	1165, 24	1170, 22	1150, 22 1139, 24, 1104, 21
	- reasonably clear outside but there are some clouds around, and plenty some haze.								
083	Chryseos	1200	0.50	5050 / 1600 ³⁴⁰⁰	7:57	02:46:17	21 02:51	1.29	+02:08 Spec $\sigma = 3.1$
089									
	- thick haze can see planets changed to 0.20 or 0.20; stopped								
	- got worse and stopped clear all night.								
	See down still had N_2 at 4:30 am (11:30 UT)								

Frame prefix: SP96A

Telescope: 61"

Sheet #: 6

Date:

Focus:

Iris:

Humidity:

Tailpiece:

Balance:

Temp:

Guidepoint:

Observers: Hicks, Fink

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
X	AFTER 5 NIGHTS OF CLOUDS, WE TAKE DOME FLATS								
084	D. FLAT	2.0	2.0	28K			-32	2.37	
085	"	"	"				"	"	
086	"	"	"				"	"	
087	"	"	"				"	"	
088	"	1.25	3.0	26K			"	"	SLIT WRONG
089	"	"	"				"	"	IN
090	"	"	"				"	"	HEADER
091	"	"	"				"	"	"
092	S. FLAT	2.0	3.0	5.8K			"	"	SLIT CORRECT
093	"	"	"				"	"	IN HEADER
094	"	"	"	5.7			"	"	
095	"	240	"	10K			"	"	
096	"	300	"	4K			-D:45	1.19	POINTING 0 DEC
097	"	"	"				"	"	CLOUDS VARIABLE STAR PEAKING THROUGH
098	"	"	"	5.4			"	"	
099	"	400	2.0	6.1K			"	"	
100	"	600	1.0				"	"	

Frame prefix: FR96A

Telescope: 61"

Focus: 3812

Sheet #: 1

Date: FEB 16/17

Iris: 300%

Humidity: 61%

spec E
379

Observers: HICKS, FINK

Tailpiece:

Balance: 4500

Temp: 40/50

Guidepoint: 396.8, 399

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
X	AFTER WE REPLACE SHUTTER, ALL SPECTRAL LINES NOW ± 20 PIX								
X	OLD SPEC SO HOT SPOT DOES NOT FALL ON OI								
X	WE FIND P/CHUR - GERA 34 K phot 30 SEC BLUE								
001	P/CHUR-GER 30	B/D		42K	5:04	2:33:17	19:59:09	1.23	
X	AFTER AN HOUR ON P/C-G WE LOOK FOR P/PERKIVE - MRKOS								
X	DID NOT FIND, WE TRY P/JACK 50K - NEUSMIN								
X	WE FIND IT EXTREMELY FAINT PHOT = 2.6K IN 60 SEC								
002	P/JACK-NEU 60	B/D		2.5K phot 60		3:26:46	4:06:24	1.72	
X	COMPS AND STD DONE, WE LOOK FOR 1996 B1 SZCZEPANSKI								
X	WE FIND IT NO PROBLEM 32 K phot 30 SEC								
003	1996 B1	30	B/D	35K phot	5:59	12:26:39	45:44:18	1.50	
004	"	"	"		6:13	12:26:35	45:43:41	1.43	
005	"	"	"	35K phot	6:36	12:26:29	45:43:10	1.34	
006	"	"	"		7:12	12:26:19	45:42:07	1.23	
007	"	"	"		7:33	12:26:12	45:41:29	1.17	
X	WE HUNT FOR P/HMP, FIND W/ -MPEC 1996-AZZ EPHEM								
008	P/HMP	30	B/D	7.6 K	8:54	13:26:55	13:0:20	1.12	
↓									

068
069 1996 B2 30 " 208K 10:40
10:47 14:44:12 -24:30:15 2.06

Frame prefix: FR96A

Telescope: 61"

Sheet #: 3

Date: FEB 17/18

Focus: 3640

Iris:

Humidity: 51%

Tailpiece:

Balance:

Temp: 44/47

Observers: HICKS, FINK

(SAT)

Guidepoint: 390.5, 399

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
X	CIRRUS	ALL	AROUND	BUT	WE GO	AFTER	PI		
080	P/WILD4	30	B/Di	27.5 K _{phot}	3:57	9:18:24	27:46:43	1.02	
X	PHOTOMETRY			VARIABLE		$\pm 50\%$			
X	WE PAUSE	FOR	REST,	MAKE	UP	AND	SKY IS CLEAR!!		
X	REFOCUS	37	70			SEEING	VARIABLE		
081	^{1996B7} HYAKUTAKE	30	B/Di	215K	10:57	11:44:50	-24:25:41	2.01	
082	"	"	"		10:59			1.98	
083	"	"	"		11:07			1.95	41/46 TEMP 45% HUM
084	"	"	"		11:20			1.90	
085	^{1995Y1} HYAKUTAKE	30	"	53 K _{phot}	12:04	18:29:45	+2:41:07	2.19	
086	"	"	"		12:14			2.06	
087	"	"	"		12:29			1.88	
088	"	"	"		14:41			1.77	
X	FEB 18/19	AFTERNOON		I TAKE	DOME	FLATS			
089	FLAT	4.0	B/Di						
090	"	"	"						
091	"	"	"						
092	"	"	B/Di						

