

FR85A

UT DATE: 1/15/85

TAPE #: 1

1

EXPOSURE #	OBJECT	EXPOSURE TIME (sec)	UT TIME	RA	DEC	FILTER
0011	EXT SAO	8T	4:52	3:05:28.6	+15:11:19	✓
2	EXT 110167	8T	7:54:30	"	"	✓
3	SAO 093817	6T	~5:19:00	4:12:04.8	+15:28:22	✓
4	"		5:28:00	"	"	✓
5	CHIRON	5M	5:31:16	4:09:51.8	+16:30:14	✓
6	CHIRON	5M	5:39:00	"	"	✓
7	CHIRON SAO 093817	5M	5:45:00	"	"	✓
8	SAO 093817	6T	6:06:24	4:07:52.0	+16:30:14	✓
9	"	6T				✓
010	CHIRON	5M	6:06:24	4:09:52.0	+16:30:14	✓
1	"	5M	6:13:05	4:09:51.9	+16:30:14	✓
2	"	5M	6:19:56	4:09:50.9	+16:30:14	✓
3	SAO 093817	6T	6:29	4:12:29.9	+15:28:22	✓
4	"	6T	6:30:09			✓
5	EXT	8T	6:34:44	3:05:28.6	+15:11:19	✓
6	EXT	8T	6:36:35	"	"	✓
7	CHIRON	5M	6:41:28	4:09:51.8	+16:30:14	✓
8	CHIRON	5M	6:47:40	"	"	✓
9	"	"	6:53:55	"	"	✓
020	SAO 093817	6T	7:04:28	4:12:04.8	+15:28:22	✓
1	"	6T	7:05:22	"	"	✓
2	EXT	8T	7:11:57	"	"	✓
3	"	8T	7:12:22	"	"	✓
4	CHIRON	5M	7:17:46	4:09:51.8	+16:30:14	✓
5	"	5M	7:24:08	4:08:52.3	"	✓
5	SAO 093817	6T	7:31:52	4:12:04.8	+15:28:22	✓
6	"	6T	7:33:11			✓
7	EXT	8T	7:40:07	3:05:28.6	+15:11:19	✓
8	"	8T	?	"	"	✓
03029	"	8T	7:43:36	"	"	✓

CLOUDS MOVING THROUGH THESE TIMES ARE THE MORE ACCURATE (IF FITS WRONG)

CLOUDS
←
← TIME OF
← TIME?
←
← Imped to viewing header

30 SAO 029 is OK

42 SHEETS 3 SQUARE
42 SHEETS 3 SQUARE
42 SHEETS 3 SQUARE
NATIONAL

UT DATE: 1/15/85 | TAPE #:

2

EXPOSURE #	OBJECT	EXPOSURE TIME (SEC)	UT TIME	RA	DEC	FILTER
30	HUB NEB	1M	8:45	6:38:12.8	78:43:31	✓
31	" "	1M	8:57:12	6:38:15.8	78:43:31	✓
2	FLAT FIELD	15	} NOT FLAT	~1:10 UT		✓
3	FLAT FIELD	10.5				✓
4						
5						
6						
7						
8						
9						
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						
0						

42-381 50 SHEETS 5 SQUARE
 42-382 100 SHEETS 5 SQUARE
 42-383 100 SHEETS 5 SQUARE
 NATIONAL MANUFACTURING

UT DATE: 1/17/85

TAPE #: 3

3

EXPOSURE #	OBJECT	EXPOSURE TIME (SEC)	UT TIME	RA	DEC	FILTER
1						
3	EXT EXT	4T 4T	3:04:29 3:04:29	3:01:23	+5:11:41	✓
3	SAO 093817	4T	3:09:52	3:05:29.7	+5:11:29	✓ ← NAMED FR5A03.1
4	SAO 093817	6T	3:18:46	4:12:07.1	+15°28'32"	✓
5	"	5T	3:27:20	"	"	✓
6	CHIRON	5M	3:36:39	4:09:39.7	+16°30'06"	✓
7	CHIRON	5M	3:46:05	"	"	✓
8	CHIRON	5M	3:53:33	"	"	✓
9	CHIRON	5M	4:10:24	"	"	✓
FR5A040	COMP.	5T	4:29:24 4:29:24	4:12:06.3	+15:28:32	✓
1	SAO 093817	5T	4:30:46	"	"	✓
2	CHIRON	5M	4:37:02	4:09:39.9	+16:30:06	✓
3	"	5M	4:43:07	4:09:39.8	16:30:06	✓
4	"	5M	4:50:26	4:09:39.8	+16:30:06	✓
5	"	5M	4:59:14	"	"	✓
6	SAO 093817	5T	5:19:00	4:12:06.3	+15:27:32	✓
7	"	5T	5:28:14	"	"	R
8	"	5T	5:38:02	"	"	R
9	"	5T	5:38:13	"	"	V
NAMED 50	EXT	4T	5:43:56	3:05:28.8	+5:11:29	V
1	EXT	4T	5:45:18	"	"	V
2	CHIRON	5M	5:49:23	4:09:39.0	+16:30:06	V
3	"	5M	5:56:59	"	"	R
4	"	5M	6:05:38	"	"	R
5	"	5M	6:15:31	"	"	V
6	SAO 093817	5T	6:33:01	4:12:05.2	15:28:32	V
7	"	5T	6:35:38	"	"	R
8	"	5T	6:47:58	"	"	R
9	"	5T	6:46:16	"	"	V
60	EXT	5T	6:57:48			V

EXT →

42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-383 200 SHEETS 5 SQUARE
NATIONAL

EXT →

my 60 on back

5:10:00

21

22

22

26

SET-RED: 137, 663, 137, 663

UT DATE :

TAPE # :

4

EXPOSURE #	OBJECT	EXPOSURE TIME (sec)	UT TIME	RA	DEC	FILTER
1	HALLEY	10M 10M	7:17:40	5:29:30.2	+12:17:43	V
2	"	10M	7:33:56	5:29:29.7	+12:17:47	V
3	"	10M	8:00:24	5:29:28.9	+12:17:41	V
4	"	10M	8:14:13	5:29:28.5	+12:17:43	V
5	AREND-RIGAUD	5M	8:32:42	9:05:38.3	+17°02'03"	V
6	A-R	5M	10:03:14	9:05:38.6	+17°43'13"	V
7	A-R	5M	10:13:28	"	"	V
8	A-R	5M	10:22:59	9:05:39.4	+17:42:17	I
9	A-R	3M	10:43:36	"	"	I
70			10:43:36	9:05:39.0	+17:42:42	I
1	AR	2M	10:49:02	9:05:39.2	+17:42:46	I
2	SAO 117341	1S	11:22:38	9:00:05.5	+9:06:46	I
3	"	1S	11:18:38	9:00:02.4	"	R
4	"	1S	11:26:29	9:00:02.4	9:07:07	V
5	A-R	5M	11:33:23	9:05:38.9	+17:46:03	V
6	AR	5M	11:47:39	9:05:39.7	+17:46:12	R (NOT V)
7	A-R	3M	11:47:39	9:05:38.5	+17:46:06	I
8	FLATFIELD	1S	12:46:00	-	-	V
9	FLATFIELD	1S	12:48:00	-	-	V
80	FLATFIELD	1S	12:55:00	-	-	V
1	FLATFIELD	1S	12:57:00	-	-	V
2	FLATFIELD	4T	13:04:00	-	-	R
3	FLATFIELD	4T	13:20:00	-	-	R
4	FLATFIELD	4T		-	-	I
5						
6						
7						
8						
9						
0						

42 SHEETS 5 SQUARE
42 SHEETS 3 SQUARE
200 SHEETS 3 SQUARE
MADE IN U.S.A.

NATIONAL

Tape file
FR 9 SAP 6
#27
28
#30

UT DATE: 18 JAN 85

TAPE #: FR 85AD

5

EXPOSURE #	OBJECT	EXPOSURE TIME (sec)	UT TIME	RA	DEC	FILTER
11						
2						
0938	DARK	2H	3:30:00	-	-	-
"GR85A084"	EXT	7T	5:11:44	3:05:28.4	5:11:37	V
5	EXT	7T	5:09:43	3:05:28.0	5:11:37	V
6	SAO 093817	5T	5:17:05	4:12:05.9	+15:28:28	V
7	SAO 093817	6T	5:28:02	4:12:05.5	15:28:28	V
8	CHIRON	5M	5:30:33	4:09:33.5	16:29:54	V
9	CHIRON	7M	5:47:50	4:09:39.9	16:29:54	V
90	CHIRON	7M	6:00:48	4:09:33.0	16:29:54	V
1	SAO 093817	6T	6:20:08	4:12:06.2	15:28:28	V
2	SAO 093817	6T	6:22:53	4:12:05.9	15:28:28	V
3	EXT	7T	6:31:29	3:05:28.3	5:11:25	V
4	EXT	7T	6:33:38	3:05:29.4	5:11:25	V
5	EXT	7T	6:40:24	3:05:28.4	5:11:25	V
6	EXT	7T				
7						
8						
9						
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						
0						

SET RED 137, 663, 137, 663

Ver. written?

50 SHEETS 5 SQUARE
42,386 200 SHEETS 3 SQUARE
MADE IN U.S.A.
NATIONAL

UT DATE: 19 JAN 85 | TAPE #: PR88A #96-6

EXPOSURE #	OBJECT	EXPOSURE TIME (SEC)	UT TIME	RA	DEC	FILTER
1	EXT	5T	01:4			
2						
3						
4						
5	SAO 10967		25:27 K57:05	2:02:57		
096	EXT	5T	01:08:22	03:05:31.0	05:11:28	✓
97	EXT	4T	2:39:21	3:05:31.5	+05:11:28	✓
98	EXT	4T	2:41:20	"	"	✓
99	SAO 093817	3T	2:51:31	4:12:07.0	+15:28:32	✓
100	"	3T	2:53:43	"	"	✓
101	CHIRON	5 MIN	2:59:34	4:09:26.5	+16:29:51	✓
102	CHIRON	5 MIN	3:09:30	4:09:27.0	+16:29:51	✓
103	CHIRON	5M	3:16:53	4:09:27.0	+16:29:51	✓
104	SAO 093817	3T	3:26:59	4:12:06.8	+15:28:33	✓
105	"	3T	3:28:00	"	"	✓
106	CHIRON	5M	3:32:05	4:09:27.0	+16:29:51	✓
107	CHIRON	5M	3:38:16	"	"	✓
108	CHIRON	5M	3:44:42	"	"	✓
109	SAO 093817	3T	3:53:36	4:12:07.0	+15:28:33	✓
110	"	3T	3:54:33	"	"	✓
111	CHIRON	5M	3:58:00	4:09:27.2	+16:29:51	✓
112	CHIRON	5M	4:04:33	"	"	✓
113	CHIRON	5M	4:10:49	"	"	✓
114	SAO 093817	3T	4:20:54	4:12:07.0	+15:28:33	✓
115	"	3T	4:22:01	"	"	✓
116	EXT	4T	4:25:59	3:05:30.6	+05:11:31	✓
117	"	4T	4:27:24	"	"	✓
118	SAO 093817	3T	4:35:33	4:12:07.0	+15:28:33	R
119	"	3T	4:36:56	"	"	R
120	CHIRON	5M	4:41:23	4:09:27.3	+16:29:51	R

42-381 50 SHEETS 3 SQUARE
42-382 100 SHEETS 3 SQUARE
42-383 100 SHEETS 3 SQUARE
NATIONAL

POS 1 →

4
5

10

15

OK →

POS 25 →
on tape

UT DATE: 19 JAN 85

TAPE #: FR 85A096-1507

EXPOSURE #	OBJECT	EXPOSURE TIME (sec)	UT TIME	RA	DEC	FILTER
121	CHIRON	5 MIN	4:51:40	4:09:27.0	+16:29'51"	V
2	CHIRON	5 MIN	5:08:34	"	"	V
3	CHIRON	5 MIN	5:17:20	"	"	R
4	SAO φ 93817	3T	5:27:26	4:12:07.0	+15:28:33	R
5	SAO φ 93817	3T	5:28:23	"	"	R
6	SAO φ 93817	3T	5:31:04	"	"	V
7	SAO φ 93817	3T	5:32:59	"	"	V
8	EXT	4T	5:37:53	3:05:30.2	5:11:29	V
9	EXT	4T	5:38:49	"	"	V
130	CHIRON	5M	5:43:17	4:09:26.9	+16:29:51	V
1	CHIRON	5M	5:49:14	"	"	V
2	CHIRON	5M	5:55:10	"	"	V
3	SAO φ 93817	3T	6:05:07	4:12:07.0	+15:28:33	V
4	SAO φ 93817	3T	6:06:02	"	"	V
5	EXT	4T	6:17:05	3:05:30.4	+05:11:29	V
6	EXT	4T	6:17:59	"	"	V
7	EXT	4T	6:21:06	"	"	V
8	SAO φ 93817	3T	6:25:19	4:12:06.8	+15:28:33	V
9	SAO φ 93817	3T	6:26:18	"	"	V
140	SAO φ 93817	5T	6:29:56	"	"	I
1	SAO φ 93817	5T	6:31:46	"	"	I
2	CHIRON	8 M	6:36:12	4:09:27.0	+16:29:51	I
3	CHIRON	5 M	6:46:03	"	"	I
4	CHIRON	2 M	6:52:49	"	"	I
5	SAO φ 93817	5T	7:00:54	4:12:06.8	+15:28:33	I
6	SAO φ 93817	5T	7:01:50	"	"	I
7	EXT	4T	7:06:55	3:05:30.4	+5:11:29	V
→ 8	EXT	4T	7:09:47	3:05:25.9	+5:11:29	V
9	EXT	4T	7:11:32	3:05:35.5	"	V
150	EXT	4T	7:13:29	"	"	V

APR POS #26
3:34

42 SHEETS 5 SQUARE
42 SHEETS 5 SQUARE
100 SHEETS 3 SQUARE
100 SHEETS 3 SQUARE
NATIONAL

need to write

→

SKY looks SAT'D

PROB. OFF WINDOW

UT DATE: 19 Jan 1985 TAPE #: FR85A159-8

NEW TAPE →
 May not exist

UT 8:01:53 → 4

8:12:13

42 SHEETS 3 SQUARE
 41 SHEETS 3 SQUARE
 100 SHEETS 3 SQUARE
 NATIONAL

FLTR = "6"

EXPOSURE #	OBJECT	EXPOSURE TIME (sec)	UT TIME	RA	DEC	FILTER
151	HALLEY	10M	7:27:57	5:27:28.0	12:20:20	V
②	HALLEY	10M	7:42:27	"	"	V
3	SAO 093817	3T	7:59:10	4:12:7.7	15:28:33	V
4	SAO 093817	3T	8:01:53	"	"	V
5	CHIRON	5M	8:12:13	4:09:28.0	16:29:51	V
6	CHIRON	5M	8:19:29	"	"	V
7	SAO 093817	3T	8:28:40	4:12:8.0	15:28:33	V
8	SAO 093817	3T	8:29:36	"	"	V
FR85A159	HALLEY	10M	8:34:09	5:27:28.0	+12°20'20"	V
160	HALLEY	10M	8:46:58	"	"	V
1	HUBBLE'S NEB	5M	9:05:18	6:38:14.2	+08:42:19	R
2	"	5M	9:14:28	6:38:14.5	+08:43:35	R
3	"	3M	9:23:16	6:38:16.5	+08:43:55	I
4	"	5M	9:28:00	"	"	I
5	A-R	5M	10:42:18	9:05:40.5	+18:48:05	29280 I
6	A-R	10M	10:58:25	9:05:41.0	18:48:42	9280
7	A-R	10M	11:24:14	9:05:41.5	18:49:21	7850
8	A-R	20M	12:02:08	"	18:50:10	[OI] 6300
9	A-R	20M	12:27:46	9:05:40.9	18:50:50	[OI]
170	A-R	5M	12:55:05	9:05:41.6	+18:51:26	B
1	FF	3T				I
2	FF	3T				I
3	FF	3T				R
4	FF	3T				R
5	FF	6T				V
6	FF	6T				V
7	FF	3T				V
8						
9						
180						

May not exist

No dec-track ing

ADD R_LN₂

moved ~ 30" N (to center)