INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

```
TELESCOPE:            INT
DATE:                 1998 SEP 25/26
INT TAPE NR:          INTD3798
OBSERVER:             M. Irwin
PROGRAMME:            orbital path of sgr dwarf galaxy
PATT/CAT:             I/98B/10
TELESCOPE OPERATOR:   J. Rey
SUPPORT ASTRONOMER:   N. Walton

FOCUS:                Prime
INSTRUMENT:           WFC
FILTER WHEEL (PF):    Z,U,I,R,KpB,V
CAMERA (IDS):
COLLIMATOR (IDS):
COLL. FOCUS (IDS):
GRATING (IDS):
DETECTOR:             4 EEV 2kx4k
PIXELS:               2148x4200
PIXEL SIZE (microns): 13.5
WINDOW:               Xstart=0, Xsize=2148, Ystart=0, Ysize=4200
BINNING:              in X=1, in Y=1

WEATHER:              Good
OUTSIDE TEMP (deg C):   10            (FIRST HALF)
OUTSIDE TEMP (deg C):   10            (SECOND HALF)
HUMIDITY (%):           30            (FIRST HALF)
HUMIDITY (%):           30            (SECOND HALF)
CLOUD COVER (%):         0            (FIRST HALF)
CLOUD COVER (%):         0            (SECOND HALF)
DUST (0 - 2):            0            (FIRST HALF)
DUST (0 - 2):            0            (SECOND HALF)
SEEING (arcsec):         -            (FIRST HALF)
SEEING (arcsec):         -            (SECOND HALF)
AV. SEEING (arcsec):     -
NO. SEEING MEASURES:     0

UTC    TELESCOPE                CASELLA OUT   CASELLA IN    SEEING
       AZ   ZD  Focus  TubeTemp  Temp   Humid  Temp   Humid  Det./TV  Comments

DARK HOURS:           09:20
DOME OPEN (UTC):      18:40
MOON PHASE (D/G/B):       D
DK HRS LOST (WEATHER):00:00
DK HRS LOST (TELESC): 00:00
DK HRS LOST (DOME):   00:00
DK HRS LOST (INSTR.): 00:00
DK HRS LOST (DET.):   00:00
DK HRS LOST (COMPS.): 00:00
DK HRS LOST (A&G):    02:50
DK HRS LOST (OTHER):  00:00

COMMENTS:

----

Run no. Object name             RA         Dec.     Equinox    AM    PA     UT       Exp. T.   Filter      Psys Channel  Binning Comments
 123616 Bias frame           0:00:00.00 +00:00:00.0 J2000.00 4.004   0.0 15:13:18.7      0.0        B      KpnoB    1      1 x 1
 123617 Bias frame           0:00:00.00 +00:00:00.0 J2000.00 4.004   0.0 15:13:18.7      0.0        B      KpnoB    5      1 x 1
 123618 Bias frame           0:00:00.00 +00:00:00.0 J2000.00 4.004   0.0 15:13:18.7      0.0        B      KpnoB    3      1 x 1
 123619 Bias frame           0:00:00.00 +00:00:00.0 J2000.00 4.004   0.0 15:13:18.7      0.0        B      KpnoB    4      1 x 1
```

123620	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:21:55.2	0.0	B	KpnoB	1	1 x 1
123621	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:21:55.2	0.0	B	KpnoB	5	1 x 1
123622	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:21:55.2	0.0	B	KpnoB	3	1 x 1
123623	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:21:55.2	0.0	B	KpnoB	4	1 x 1
123624	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:24:46.5	0.0	B	KpnoB	1	1 x 1
123625	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:24:46.5	0.0	B	KpnoB	5	1 x 1
123626	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:24:46.5	0.0	B	KpnoB	3	1 x 1
123627	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:24:46.5	0.0	B	KpnoB	4	1 x 1
123628	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:27:38.0	0.0	B	KpnoB	1	1 x 1
123629	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:27:38.0	0.0	B	KpnoB	5	1 x 1
123630	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:27:38.0	0.0	B	KpnoB	3	1 x 1
123631	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:27:38.0	0.0	B	KpnoB	4	1 x 1
123632	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:30:29.0	0.0	B	KpnoB	1	1 x 1
123633	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:30:29.0	0.0	B	KpnoB	5	1 x 1
123634	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:30:29.0	0.0	B	KpnoB	3	1 x 1
123635	Bias frame	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:30:29.0	0.0	B	KpnoB	4	1 x 1
123636	Dome flat 1	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:52:22.2	1.1	V	Harris	1	1 x 1
123637	Dome flat 1	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:52:22.2	1.1	V	Harris	5	1 x 1
123638	Dome flat 1	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:52:22.2	1.1	V	Harris	3	1 x 1
123639	Dome flat 1	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:52:22.2	1.1	V	Harris	4	1 x 1
123640	Dome flat 2	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:55:19.6	2.1	V	Harris	1	1 x 1
123641	Dome flat 2	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:55:19.6	2.1	V	Harris	5	1 x 1
123642	Dome flat 2	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:55:19.6	2.1	V	Harris	3	1 x 1
123643	Dome flat 2	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:55:19.6	2.1	V	Harris	4	1 x 1
123644	Dome flat 3	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:58:17.6	3.1	V	Harris	1	1 x 1
123645	Dome flat 3	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:58:17.6	3.1	V	Harris	5	1 x 1
123646	Dome flat 3	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:58:17.6	3.1	V	Harris	3	1 x 1
123647	Dome flat 3	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	15:58:17.6	3.1	V	Harris	4	1 x 1
123648	Dome flat 4	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:01:16.7	4.1	V	Harris	1	1 x 1
123649	Dome flat 4	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:01:16.7	4.1	V	Harris	5	1 x 1
123650	Dome flat 4	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:01:16.7	4.1	V	Harris	3	1 x 1
123651	Dome flat 4	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:01:16.7	4.1	V	Harris	4	1 x 1
123652	Dome flat 5	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:04:17.1	5.1	V	Harris	1	1 x 1
123653	Dome flat 5	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:04:17.1	5.1	V	Harris	5	1 x 1
123654	Dome flat 5	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:04:17.1	5.1	V	Harris	3	1 x 1
123655	Dome flat 5	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:04:17.1	5.1	V	Harris	4	1 x 1
123656	Dome flat 6	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:07:18.3	6.1	V	Harris	1	1 x 1
123657	Dome flat 6	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:07:18.3	6.1	V	Harris	5	1 x 1
123658	Dome flat 6	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:07:18.3	6.1	V	Harris	3	1 x 1
123659	Dome flat 6	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:07:18.3	6.1	V	Harris	4	1 x 1
123660	Dome flat 7	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:10:21.4	7.1	V	Harris	1	1 x 1
123661	Dome flat 7	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:10:21.4	7.1	V	Harris	5	1 x 1
123662	Dome flat 7	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:10:21.4	7.1	V	Harris	3	1 x 1
123663	Dome flat 7	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:10:21.4	7.1	V	Harris	4	1 x 1
123664	Dome flat 8	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:13:24.6	8.1	V	Harris	1	1 x 1
123665	Dome flat 8	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:13:24.6	8.1	V	Harris	5	1 x 1
123666	Dome flat 8	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:13:24.6	8.1	V	Harris	3	1 x 1
123667	Dome flat 8	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:13:24.6	8.1	V	Harris	4	1 x 1
123668	Dome flat 9	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:16:27.8	9.1	V	Harris	1	1 x 1
123669	Dome flat 9	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:16:27.8	9.1	V	Harris	5	1 x 1
123670	Dome flat 9	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:16:27.8	9.1	V	Harris	3	1 x 1
123671	Dome flat 9	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:16:27.8	9.1	V	Harris	4	1 x 1
123672	Dome flat 10	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:19:32.9	10.1	V	Harris	1	1 x 1
123673	Dome flat 10	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:19:32.9	10.1	V	Harris	5	1 x 1
123674	Dome flat 10	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:19:32.9	10.1	V	Harris	3	1 x 1
123675	Dome flat 10	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:19:32.9	10.1	V	Harris	4	1 x 1
123676	Dome flat 11	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:22:38.3	11.1	V	Harris	1	1 x 1
123677	Dome flat 11	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:22:38.3	11.1	V	Harris	5	1 x 1
123678	Dome flat 11	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:22:38.3	11.1	V	Harris	3	1 x 1
123679	Dome flat 11	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:22:38.3	11.1	V	Harris	4	1 x 1
123680	Dome flat 12	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:25:45.2	12.1	V	Harris	1	1 x 1
123681	Dome flat 12	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:25:45.2	12.1	V	Harris	5	1 x 1

123682	Dome flat 12	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:25:45.2	12.1	V	Harris	3	1 x 1
123683	Dome flat 12	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:25:45.2	12.1	V	Harris	4	1 x 1
123684	Dome flat 13	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:28:52.5	13.1	V	Harris	1	1 x 1
123685	Dome flat 13	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:28:52.5	13.1	V	Harris	5	1 x 1
123686	Dome flat 13	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:28:52.5	13.1	V	Harris	3	1 x 1
123687	Dome flat 13	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:28:52.5	13.1	V	Harris	4	1 x 1
123688	Dome flat 14	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:32:01.6	13.6	V	Harris	1	1 x 1
123689	Dome flat 14	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:32:01.6	13.6	V	Harris	5	1 x 1
123690	Dome flat 14	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:32:01.6	13.6	V	Harris	3	1 x 1
123691	Dome flat 14	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:32:01.6	13.6	V	Harris	4	1 x 1
123692	Dome flat 15	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:35:12.0	14.6	V	Harris	1	1 x 1
123693	Dome flat 15	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:35:12.0	14.6	V	Harris	5	1 x 1
123694	Dome flat 15	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:35:12.0	14.6	V	Harris	3	1 x 1
123695	Dome flat 15	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:35:12.0	14.6	V	Harris	4	1 x 1
123696	Dome flat 16	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:38:23.2	16.1	V	Harris	1	1 x 1
123697	Dome flat 16	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:38:23.2	16.1	V	Harris	5	1 x 1
123698	Dome flat 16	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:38:23.2	16.1	V	Harris	3	1 x 1
123699	Dome flat 16	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:38:23.2	16.1	V	Harris	4	1 x 1
123700	Dome flat 17	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:41:35.6	16.6	V	Harris	1	1 x 1
123701	Dome flat 17	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:41:35.6	16.6	V	Harris	5	1 x 1
123702	Dome flat 17	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:41:35.6	16.6	V	Harris	3	1 x 1
123703	Dome flat 17	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:41:35.6	16.6	V	Harris	4	1 x 1
123704	Dome flat 18	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:44:49.8	18.1	V	Harris	1	1 x 1
123705	Dome flat 18	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:44:49.8	18.1	V	Harris	5	1 x 1
123706	Dome flat 18	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:44:49.8	18.1	V	Harris	3	1 x 1
123707	Dome flat 18	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:44:49.8	18.1	V	Harris	4	1 x 1
123708	Dome flat 19	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:48:03.9	19.1	V	Harris	1	1 x 1
123709	Dome flat 19	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:48:03.9	19.1	V	Harris	5	1 x 1
123710	Dome flat 19	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:48:03.9	19.1	V	Harris	3	1 x 1
123711	Dome flat 19	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:48:03.9	19.1	V	Harris	4	1 x 1
123712	Dome flat 20	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:51:18.7	20.1	V	Harris	1	1 x 1
123713	Dome flat 20	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:51:18.7	20.1	V	Harris	5	1 x 1
123714	Dome flat 20	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:51:18.7	20.1	V	Harris	3	1 x 1
123715	Dome flat 20	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:51:18.7	20.1	V	Harris	4	1 x 1
123716	Dome flat 21	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:54:35.9	21.1	V	Harris	1	1 x 1
123717	Dome flat 21	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:54:35.9	21.1	V	Harris	5	1 x 1
123718	Dome flat 21	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:54:35.9	21.1	V	Harris	3	1 x 1
123719	Dome flat 21	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:54:35.9	21.1	V	Harris	4	1 x 1
123720	Dome flat 22	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:57:52.7	21.5	V	Harris	1	1 x 1
123721	Dome flat 22	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:57:52.7	21.5	V	Harris	5	1 x 1
123722	Dome flat 22	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:57:52.7	21.5	V	Harris	3	1 x 1
123723	Dome flat 22	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	16:57:52.7	21.5	V	Harris	4	1 x 1
123724	Dome flat 23	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:01:11.4	23.1	V	Harris	1	1 x 1
123725	Dome flat 23	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:01:11.4	23.1	V	Harris	5	1 x 1
123726	Dome flat 23	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:01:11.4	23.1	V	Harris	3	1 x 1
123727	Dome flat 23	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:01:11.4	23.1	V	Harris	4	1 x 1
123728	Dome flat 24	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:04:30.8	24.1	V	Harris	1	1 x 1
123729	Dome flat 24	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:04:30.8	24.1	V	Harris	5	1 x 1
123730	Dome flat 24	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:04:30.8	24.1	V	Harris	3	1 x 1
123731	Dome flat 24	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:04:30.8	24.1	V	Harris	4	1 x 1
123732	Dome flat 25	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:07:51.3	25.1	V	Harris	1	1 x 1
123733	Dome flat 25	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:07:51.3	25.1	V	Harris	5	1 x 1
123734	Dome flat 25	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:07:51.3	25.1	V	Harris	3	1 x 1
123735	Dome flat 25	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:07:51.3	25.1	V	Harris	4	1 x 1
123736	Dome flat 26	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:11:12.6	26.1	V	Harris	1	1 x 1
123737	Dome flat 26	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:11:12.6	26.1	V	Harris	5	1 x 1
123738	Dome flat 26	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:11:12.6	26.1	V	Harris	3	1 x 1
123739	Dome flat 26	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:11:12.6	26.1	V	Harris	4	1 x 1
123740	Dome flat 27	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:14:33.8	27.1	V	Harris	1	1 x 1
123741	Dome flat 27	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:14:33.8	27.1	V	Harris	5	1 x 1
123742	Dome flat 27	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:14:33.8	27.1	V	Harris	3	1 x 1
123743	Dome flat 27	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:14:33.8	27.1	V	Harris	4	1 x 1

123744	Dome flat 28	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:17:56.7	27.6	V	Harris	1	1 x 1
123745	Dome flat 28	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:17:56.7	27.6	V	Harris	5	1 x 1
123746	Dome flat 28	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:17:56.7	27.6	V	Harris	3	1 x 1
123747	Dome flat 28	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:17:56.7	27.6	V	Harris	4	1 x 1
123748	Dome flat 29	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:21:20.4	29.1	V	Harris	1	1 x 1
123749	Dome flat 29	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:21:20.4	29.1	V	Harris	5	1 x 1
123750	Dome flat 29	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:21:20.4	29.1	V	Harris	3	1 x 1
123751	Dome flat 29	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:21:20.4	29.1	V	Harris	4	1 x 1
123752	Dome flat 30	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:24:46.0	30.2	V	Harris	1	1 x 1
123753	Dome flat 30	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:24:46.0	30.2	V	Harris	5	1 x 1
123754	Dome flat 30	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:24:46.0	30.2	V	Harris	3	1 x 1
123755	Dome flat 30	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:24:46.0	30.2	V	Harris	4	1 x 1
123756	Dome flat 31	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:28:13.0	31.1	V	Harris	1	1 x 1
123757	Dome flat 31	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:28:13.0	31.1	V	Harris	5	1 x 1
123758	Dome flat 31	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:28:13.0	31.1	V	Harris	3	1 x 1
123759	Dome flat 31	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:28:13.0	31.1	V	Harris	4	1 x 1
123760	Dome flat 32	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:31:40.5	32.2	V	Harris	1	1 x 1
123761	Dome flat 32	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:31:40.5	32.2	V	Harris	5	1 x 1
123762	Dome flat 32	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:31:40.5	32.2	V	Harris	3	1 x 1
123763	Dome flat 32	0:00:00.00	+00:00:00.0	J2000.00	4.004	0.0	17:31:40.5	32.2	V	Harris	4	1 x 1
123764	Flat field	0:00:00.00	+00:00:00.0	A	1.000	180.0	19:25:53.3	3.6	V	Harris	1	1 x 1
123765	Flat field	0:00:00.00	+00:00:00.0	A	1.000	180.0	19:25:53.3	3.6	V	Harris	5	1 x 1
123766	Flat field	0:00:00.00	+00:00:00.0	A	1.000	180.0	19:25:53.3	3.6	V	Harris	3	1 x 1
123767	Flat field	0:00:00.00	+00:00:00.0	A	1.000	180.0	19:25:53.3	3.6	V	Harris	4	1 x 1
123768	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.061	180.0	19:29:09.0	8.7	V	Harris	1	1 x 1
123769	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.061	180.0	19:29:09.0	8.7	V	Harris	5	1 x 1
123770	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.061	180.0	19:29:09.0	8.7	V	Harris	3	1 x 1
123771	Flat field	19:19:09.00	+12:22:05.0	B1950.00	1.061	180.0	19:29:09.0	8.7	V	Harris	4	1 x 1
123772	Flat field	19:19:11.04	+12:22:05.0	B1950.00	1.058	180.0	19:32:16.9	16.6	I	INT-WFC	1	1 x 1
123773	Flat field	19:19:11.04	+12:22:05.0	B1950.00	1.058	180.0	19:32:16.9	16.6	I	INT-WFC	5	1 x 1
123774	Flat field	19:19:11.04	+12:22:05.0	B1950.00	1.058	180.0	19:32:16.9	16.6	I	INT-WFC	3	1 x 1
123775	Flat field	19:19:11.04	+12:22:05.0	B1950.00	1.058	180.0	19:32:16.9	16.6	I	INT-WFC	4	1 x 1
123776	Flat field	19:19:11.04	+12:22:05.0	B1950.00	1.055	180.0	19:35:49.5	32.4	I	INT-WFC	1	1 x 1
123777	Flat field	19:19:11.04	+12:22:05.0	B1950.00	1.055	180.0	19:35:49.5	32.4	I	INT-WFC	5	1 x 1
123778	Flat field	19:19:11.04	+12:22:05.0	B1950.00	1.055	180.0	19:35:49.5	32.4	I	INT-WFC	3	1 x 1
123779	Flat field	19:19:11.04	+12:22:05.0	B1950.00	1.055	180.0	19:35:49.5	32.4	I	INT-WFC	4	1 x 1
123780	Flat field	19:19:11.04	+12:22:04.9	B1950.00	1.053	180.0	19:39:31.5	74.0	I	INT-WFC	1	1 x 1
123781	Flat field	19:19:11.04	+12:22:04.9	B1950.00	1.053	180.0	19:39:31.5	74.0	I	INT-WFC	5	1 x 1
123782	Flat field	19:19:11.04	+12:22:04.9	B1950.00	1.053	180.0	19:39:31.5	74.0	I	INT-WFC	3	1 x 1
123783	Flat field	19:19:11.04	+12:22:04.9	B1950.00	1.053	180.0	19:39:31.5	74.0	I	INT-WFC	4	1 x 1
123784	Focus run	21:42:35.00	+00:18:31.0	J2000.00	1.195	180.0	21:25:45.6	9.6	V	Harris	1	1 x 1
123785	Focus run	21:42:35.00	+00:18:31.0	J2000.00	1.195	180.0	21:25:45.6	9.6	V	Harris	5	1 x 1
123786	Focus run	21:42:35.00	+00:18:31.0	J2000.00	1.195	180.0	21:25:45.6	9.6	V	Harris	3	1 x 1
123787	Focus run	21:42:35.00	+00:18:31.0	J2000.00	1.195	180.0	21:25:45.6	9.6	V	Harris	4	1 x 1
123788	SA113-163	21:42:35.00	+00:20:16.0	J2000.00	1.174	180.0	21:37:33.2	10.1	V	Harris	1	1 x 1
123789	SA113-163	21:42:35.00	+00:20:16.0	J2000.00	1.174	180.0	21:37:33.2	10.1	V	Harris	5	1 x 1
123790	SA113-163	21:42:35.00	+00:20:16.0	J2000.00	1.174	180.0	21:37:33.2	10.1	V	Harris	3	1 x 1
123791	SA113-163	21:42:35.00	+00:20:16.0	J2000.00	1.174	180.0	21:37:33.2	10.1	V	Harris	4	1 x 1
123792	SA113-163	21:42:34.99	+00:16:46.0	J2000.00	1.171	180.0	21:40:42.6	10.1	V	Harris	1	1 x 1
123793	SA113-163	21:42:34.99	+00:16:46.0	J2000.00	1.171	180.0	21:40:42.6	10.1	V	Harris	5	1 x 1
123794	SA113-163	21:42:34.99	+00:16:46.0	J2000.00	1.171	180.0	21:40:42.6	10.1	V	Harris	3	1 x 1
123795	SA113-163	21:42:34.99	+00:16:46.0	J2000.00	1.171	180.0	21:40:42.6	10.1	V	Harris	4	1 x 1
123796	SA113-163	21:42:35.00	+00:16:45.9	J2000.00	1.167	180.0	21:44:08.0	10.1	R	Harris	1	1 x 1
123797	SA113-163	21:42:35.00	+00:16:45.9	J2000.00	1.167	180.0	21:44:08.0	10.1	R	Harris	5	1 x 1
123798	SA113-163	21:42:35.00	+00:16:45.9	J2000.00	1.167	180.0	21:44:08.0	10.1	R	Harris	3	1 x 1
123799	SA113-163	21:42:35.00	+00:16:45.9	J2000.00	1.167	180.0	21:44:08.0	10.1	R	Harris	4	1 x 1
123800	SA113-163	21:42:35.00	+00:16:46.0	J2000.00	1.163	180.0	21:47:15.3	10.1	I	INT-WFC	1	1 x 1
123801	SA113-163	21:42:35.00	+00:16:46.0	J2000.00	1.163	180.0	21:47:15.3	10.1	I	INT-WFC	5	1 x 1
123802	SA113-163	21:42:35.00	+00:16:46.0	J2000.00	1.163	180.0	21:47:15.3	10.1	I	INT-WFC	3	1 x 1
123803	SA113-163	21:42:35.00	+00:16:46.0	J2000.00	1.163	180.0	21:47:15.3	10.1	I	INT-WFC	4	1 x 1
123808	f680 V	0:23:39.29	-11:18:56.9	B1950.00	1.545	180.0	23:13:23.5	299.2	V	Harris	1	1 x 1
123809	f680 V	0:23:39.29	-11:18:56.9	B1950.00	1.545	180.0	23:13:23.5	299.2	V	Harris	5	1 x 1

123810	f680	V	0:23:39.29	-11:18:56.9	B1950.00	1.545	180.0	23:13:23.5	299.2	V	Harris	3	1 x 1
123811	f680	V	0:23:39.29	-11:18:56.9	B1950.00	1.545	180.0	23:13:23.5	299.2	V	Harris	4	1 x 1
123812	f680	V	0:23:39.27	-11:18:57.0	B1950.00	1.511	180.0	23:21:19.5	299.9	V	Harris	1	1 x 1
123813	f680	V	0:23:39.27	-11:18:57.0	B1950.00	1.511	180.0	23:21:19.5	299.9	V	Harris	5	1 x 1
123814	f680	V	0:23:39.27	-11:18:57.0	B1950.00	1.511	180.0	23:21:19.5	299.9	V	Harris	3	1 x 1
123815	f680	V	0:23:39.27	-11:18:57.0	B1950.00	1.511	180.0	23:21:19.5	299.9	V	Harris	4	1 x 1
123816	f680	V	0:23:39.30	-11:18:57.0	B1950.00	1.479	180.0	23:29:16.2	299.8	V	Harris	1	1 x 1
123817	f680	V	0:23:39.30	-11:18:57.0	B1950.00	1.479	180.0	23:29:16.2	299.8	V	Harris	5	1 x 1
123818	f680	V	0:23:39.30	-11:18:57.0	B1950.00	1.479	180.0	23:29:16.2	299.8	V	Harris	3	1 x 1
123819	f680	V	0:23:39.30	-11:18:57.0	B1950.00	1.479	180.0	23:29:16.2	299.8	V	Harris	4	1 x 1
123820	f680	I	0:23:39.30	-11:18:57.0	B1950.00	1.451	180.0	23:37:24.7	299.9	I	INT-WFC	1	1 x 1
123821	f680	I	0:23:39.30	-11:18:57.0	B1950.00	1.451	180.0	23:37:24.7	299.9	I	INT-WFC	5	1 x 1
123822	f680	I	0:23:39.30	-11:18:57.0	B1950.00	1.451	180.0	23:37:24.7	299.9	I	INT-WFC	3	1 x 1
123823	f680	I	0:23:39.30	-11:18:57.0	B1950.00	1.451	180.0	23:37:24.7	299.9	I	INT-WFC	4	1 x 1
123824	f680	I	0:23:39.30	-11:18:57.0	B1950.00	1.426	180.0	23:45:20.9	299.8	I	INT-WFC	1	1 x 1
123825	f680	I	0:23:39.30	-11:18:57.0	B1950.00	1.426	180.0	23:45:20.9	299.8	I	INT-WFC	5	1 x 1
123826	f680	I	0:23:39.30	-11:18:57.0	B1950.00	1.426	180.0	23:45:20.9	299.8	I	INT-WFC	3	1 x 1
123827	f680	I	0:23:39.30	-11:18:57.0	B1950.00	1.426	180.0	23:45:20.9	299.8	I	INT-WFC	4	1 x 1
123828	f680	I	0:23:39.29	-11:18:56.9	B1950.00	1.403	180.0	23:53:37.5	299.8	I	INT-WFC	1	1 x 1
123829	f680	I	0:23:39.29	-11:18:56.9	B1950.00	1.403	180.0	23:53:37.5	299.8	I	INT-WFC	5	1 x 1
123830	f680	I	0:23:39.29	-11:18:56.9	B1950.00	1.403	180.0	23:53:37.5	299.8	I	INT-WFC	3	1 x 1
123831	f680	I	0:23:39.29	-11:18:56.9	B1950.00	1.403	180.0	23:53:37.5	299.8	I	INT-WFC	4	1 x 1
123832	f680		0:23:39.30	-11:18:57.0	B1950.00	1.382	180.0	00:02:15.0	299.8	V	Harris	1	1 x 1
123833	f680		0:23:39.30	-11:18:57.0	B1950.00	1.382	180.0	00:02:15.0	299.8	V	Harris	5	1 x 1
123834	f680		0:23:39.30	-11:18:57.0	B1950.00	1.382	180.0	00:02:15.0	299.8	V	Harris	3	1 x 1
123835	f680		0:23:39.30	-11:18:57.0	B1950.00	1.382	180.0	00:02:15.0	299.8	V	Harris	4	1 x 1
123836	f680		0:23:39.27	-11:18:56.9	B1950.00	1.364	180.0	00:10:13.8	299.8	V	Harris	1	1 x 1
123837	f680		0:23:39.27	-11:18:56.9	B1950.00	1.364	180.0	00:10:13.8	299.8	V	Harris	5	1 x 1
123838	f680		0:23:39.27	-11:18:56.9	B1950.00	1.364	180.0	00:10:13.8	299.8	V	Harris	3	1 x 1
123839	f680		0:23:39.27	-11:18:56.9	B1950.00	1.364	180.0	00:10:13.8	299.8	V	Harris	4	1 x 1
123840	f680		0:23:39.30	-11:18:57.0	B1950.00	1.349	180.0	00:18:17.5	299.8	V	Harris	1	1 x 1
123841	f680		0:23:39.30	-11:18:57.0	B1950.00	1.349	180.0	00:18:17.5	299.8	V	Harris	5	1 x 1
123842	f680		0:23:39.30	-11:18:57.0	B1950.00	1.349	180.0	00:18:17.5	299.8	V	Harris	3	1 x 1
123843	f680		0:23:39.30	-11:18:57.0	B1950.00	1.349	180.0	00:18:17.5	299.8	V	Harris	4	1 x 1
123844	f757	V	2:00:24.00	-03:29:05.0	B1950.00	1.473	180.0	00:28:08.9	299.8	V	Harris	1	1 x 1
123845	f757	V	2:00:24.00	-03:29:05.0	B1950.00	1.473	180.0	00:28:08.9	299.8	V	Harris	5	1 x 1
123846	f757	V	2:00:24.00	-03:29:05.0	B1950.00	1.473	180.0	00:28:08.9	299.8	V	Harris	3	1 x 1
123847	f757	V	2:00:24.00	-03:29:05.0	B1950.00	1.473	180.0	00:28:08.9	299.8	V	Harris	4	1 x 1
123848	f757	V	2:00:24.00	-03:29:04.9	B1950.00	1.436	180.0	00:36:05.5	299.8	V	Harris	1	1 x 1
123849	f757	V	2:00:24.00	-03:29:04.9	B1950.00	1.436	180.0	00:36:05.5	299.8	V	Harris	5	1 x 1
123850	f757	V	2:00:24.00	-03:29:04.9	B1950.00	1.436	180.0	00:36:05.5	299.8	V	Harris	3	1 x 1
123851	f757	V	2:00:24.00	-03:29:04.9	B1950.00	1.436	180.0	00:36:05.5	299.8	V	Harris	4	1 x 1
123852	f757	V	2:00:23.99	-03:29:05.0	B1950.00	1.403	180.0	00:44:02.0	299.3	V	Harris	1	1 x 1
123853	f757	V	2:00:23.99	-03:29:05.0	B1950.00	1.403	180.0	00:44:02.0	299.3	V	Harris	5	1 x 1
123854	f757	V	2:00:23.99	-03:29:05.0	B1950.00	1.403	180.0	00:44:02.0	299.3	V	Harris	3	1 x 1
123855	f757	V	2:00:23.99	-03:29:05.0	B1950.00	1.403	180.0	00:44:02.0	299.3	V	Harris	4	1 x 1
123856	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.372	180.0	00:52:09.9	299.8	I	INT-WFC	1	1 x 1
123857	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.372	180.0	00:52:09.9	299.8	I	INT-WFC	5	1 x 1
123858	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.372	180.0	00:52:09.9	299.8	I	INT-WFC	3	1 x 1
123859	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.372	180.0	00:52:09.9	299.8	I	INT-WFC	4	1 x 1
123860	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.343	180.0	01:00:27.2	299.8	I	INT-WFC	1	1 x 1
123861	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.343	180.0	01:00:27.2	299.8	I	INT-WFC	5	1 x 1
123862	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.343	180.0	01:00:27.2	299.8	I	INT-WFC	3	1 x 1
123863	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.343	180.0	01:00:27.2	299.8	I	INT-WFC	4	1 x 1
123864	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.319	180.0	01:08:24.9	299.8	I	INT-WFC	1	1 x 1
123865	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.319	180.0	01:08:24.9	299.8	I	INT-WFC	5	1 x 1
123866	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.319	180.0	01:08:24.9	299.8	I	INT-WFC	3	1 x 1
123867	f757	I	2:00:24.00	-03:29:05.0	B1950.00	1.319	180.0	01:08:24.9	299.8	I	INT-WFC	4	1 x 1
123868	sa92-335		0:55:00.00	+00:44:12.8	J2000.00	1.142	180.0	01:17:27.7	10.1	V	Harris	1	1 x 1
123869	sa92-335		0:55:00.00	+00:44:12.8	J2000.00	1.142	180.0	01:17:27.7	10.1	V	Harris	5	1 x 1
123870	sa92-335		0:55:00.00	+00:44:12.8	J2000.00	1.142	180.0	01:17:27.7	10.1	V	Harris	3	1 x 1
123871	sa92-335		0:55:00.00	+00:44:12.8	J2000.00	1.142	180.0	01:17:27.7	10.1	V	Harris	4	1 x 1

123872	sa92-335	0:55:00.00	+00:44:12.9	J2000.00	1.141	180.0	01:20:34.8	10.1	R	Harris	1	1 x 1
123873	sa92-335	0:55:00.00	+00:44:12.9	J2000.00	1.141	180.0	01:20:34.8	10.1	R	Harris	5	1 x 1
123874	sa92-335	0:55:00.00	+00:44:12.9	J2000.00	1.141	180.0	01:20:34.8	10.1	R	Harris	3	1 x 1
123875	sa92-335	0:55:00.00	+00:44:12.9	J2000.00	1.141	180.0	01:20:34.8	10.1	R	Harris	4	1 x 1
123876	sa92-335	0:55:00.00	+00:44:12.9	J2000.00	1.139	180.0	01:23:43.9	10.1	I	INT-WFC	1	1 x 1
123877	sa92-335	0:55:00.00	+00:44:12.9	J2000.00	1.139	180.0	01:23:43.9	10.1	I	INT-WFC	5	1 x 1
123878	sa92-335	0:55:00.00	+00:44:12.9	J2000.00	1.139	180.0	01:23:43.9	10.1	I	INT-WFC	3	1 x 1
123879	sa92-335	0:55:00.00	+00:44:12.9	J2000.00	1.139	180.0	01:23:43.9	10.1	I	INT-WFC	4	1 x 1
123892	wfsj0219-0500_023	2:17:55.79	-05:00:00.0	J2000.00	1.281	180.0	01:49:15.4	299.9	R	Harris	1	1 x 1
123893	wfsj0219-0500_023	2:17:55.79	-05:00:00.0	J2000.00	1.281	180.0	01:49:15.4	299.9	R	Harris	5	1 x 1
123894	wfsj0219-0500_023	2:17:55.79	-05:00:00.0	J2000.00	1.281	180.0	01:49:15.4	299.9	R	Harris	3	1 x 1
123895	wfsj0219-0500_023	2:17:55.79	-05:00:00.0	J2000.00	1.281	180.0	01:49:15.4	299.9	R	Harris	4	1 x 1
123896	wfsj0219-0500_014	2:15:47.30	-04:59:59.9	J2000.00	1.261	180.0	01:57:36.0	299.3	R	Harris	1	1 x 1
123897	wfsj0219-0500_014	2:15:47.30	-04:59:59.9	J2000.00	1.261	180.0	01:57:36.0	299.3	R	Harris	5	1 x 1
123898	wfsj0219-0500_014	2:15:47.30	-04:59:59.9	J2000.00	1.261	180.0	01:57:36.0	299.3	R	Harris	3	1 x 1
123899	wfsj0219-0500_014	2:15:47.30	-04:59:59.9	J2000.00	1.261	180.0	01:57:36.0	299.3	R	Harris	4	1 x 1
123900	wfsj0219-0500_032	2:20:04.19	-04:59:59.9	J2000.00	1.253	180.0	02:06:24.9	299.8	R	Harris	1	1 x 1
123901	wfsj0219-0500_032	2:20:04.19	-04:59:59.9	J2000.00	1.253	180.0	02:06:24.9	299.8	R	Harris	5	1 x 1
123902	wfsj0219-0500_032	2:20:04.19	-04:59:59.9	J2000.00	1.253	180.0	02:06:24.9	299.8	R	Harris	3	1 x 1
123903	wfsj0219-0500_032	2:20:04.19	-04:59:59.9	J2000.00	1.253	180.0	02:06:24.9	299.8	R	Harris	4	1 x 1
123908	wfsj0219-0500_014	2:15:47.30	-05:00:00.0	J2000.00	1.234	180.0	02:15:10.6	299.8	R	Harris	1	1 x 1
123909	wfsj0219-0500_014	2:15:47.30	-05:00:00.0	J2000.00	1.234	180.0	02:15:10.6	299.8	R	Harris	5	1 x 1
123910	wfsj0219-0500_014	2:15:47.30	-05:00:00.0	J2000.00	1.234	180.0	02:15:10.6	299.8	R	Harris	3	1 x 1
123911	wfsj0219-0500_014	2:15:47.30	-05:00:00.0	J2000.00	1.234	180.0	02:15:10.6	299.8	R	Harris	4	1 x 1
123912	wfsj0219-0500_032	2:20:04.20	-04:59:59.9	J2000.00	1.228	180.0	02:24:37.0	299.8	R	Harris	1	1 x 1
123913	wfsj0219-0500_032	2:20:04.20	-04:59:59.9	J2000.00	1.228	180.0	02:24:37.0	299.8	R	Harris	5	1 x 1
123914	wfsj0219-0500_032	2:20:04.20	-04:59:59.9	J2000.00	1.228	180.0	02:24:37.0	299.8	R	Harris	3	1 x 1
123915	wfsj0219-0500_032	2:20:04.20	-04:59:59.9	J2000.00	1.228	180.0	02:24:37.0	299.8	R	Harris	4	1 x 1
123916	wfsj0219-0500_023	2:17:55.80	-04:59:59.9	J2000.00	1.217	180.0	02:33:37.3	299.8	R	Harris	1	1 x 1
123917	wfsj0219-0500_023	2:17:55.80	-04:59:59.9	J2000.00	1.217	180.0	02:33:37.3	299.8	R	Harris	5	1 x 1
123918	wfsj0219-0500_023	2:17:55.80	-04:59:59.9	J2000.00	1.217	180.0	02:33:37.3	299.8	R	Harris	3	1 x 1
123919	wfsj0219-0500_023	2:17:55.80	-04:59:59.9	J2000.00	1.217	180.0	02:33:37.3	299.8	R	Harris	4	1 x 1
123920	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.207	180.0	02:42:49.8	299.8	R	Harris	1	1 x 1
123921	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.207	180.0	02:42:49.8	299.8	R	Harris	5	1 x 1
123922	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.207	180.0	02:42:49.8	299.8	R	Harris	3	1 x 1
123923	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.207	180.0	02:42:49.8	299.8	R	Harris	4	1 x 1
123924	wfsj0219-0500_024	2:17:55.80	-04:39:59.9	J2000.00	1.201	180.0	02:51:26.7	299.8	R	Harris	1	1 x 1
123925	wfsj0219-0500_024	2:17:55.80	-04:39:59.9	J2000.00	1.201	180.0	02:51:26.7	299.8	R	Harris	5	1 x 1
123926	wfsj0219-0500_024	2:17:55.80	-04:39:59.9	J2000.00	1.201	180.0	02:51:26.7	299.8	R	Harris	3	1 x 1
123927	wfsj0219-0500_024	2:17:55.80	-04:39:59.9	J2000.00	1.201	180.0	02:51:26.7	299.8	R	Harris	4	1 x 1
123928	wfsj0219-0500_015	2:15:47.40	-04:39:59.9	J2000.00	1.198	180.0	02:59:46.7	299.8	R	Harris	1	1 x 1
123929	wfsj0219-0500_015	2:15:47.40	-04:39:59.9	J2000.00	1.198	180.0	02:59:46.7	299.8	R	Harris	5	1 x 1
123930	wfsj0219-0500_015	2:15:47.40	-04:39:59.9	J2000.00	1.198	180.0	02:59:46.7	299.8	R	Harris	3	1 x 1
123931	wfsj0219-0500_015	2:15:47.40	-04:39:59.9	J2000.00	1.198	180.0	02:59:46.7	299.8	R	Harris	4	1 x 1 Torn frames
123932	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.198	180.0	03:09:54.9	299.7	R	Harris	1	1 x 1
123933	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.198	180.0	03:09:54.9	299.7	R	Harris	5	1 x 1
123934	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.198	180.0	03:09:54.9	299.7	R	Harris	3	1 x 1
123935	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.198	180.0	03:09:54.9	299.7	R	Harris	4	1 x 1
123936	wfsj0219-0500_024	2:17:55.80	-04:39:59.9	J2000.00	1.199	180.0	03:18:15.0	299.8	R	Harris	1	1 x 1
123937	wfsj0219-0500_024	2:17:55.80	-04:39:59.9	J2000.00	1.199	180.0	03:18:15.0	299.8	R	Harris	5	1 x 1
123938	wfsj0219-0500_024	2:17:55.80	-04:39:59.9	J2000.00	1.199	180.0	03:18:15.0	299.8	R	Harris	3	1 x 1
123939	wfsj0219-0500_024	2:17:55.80	-04:39:59.9	J2000.00	1.199	180.0	03:18:15.0	299.8	R	Harris	4	1 x 1
123940	wfsj0219-0500_015	2:15:47.40	-04:40:00.0	J2000.00	1.203	180.0	03:26:35.7	299.8	R	Harris	1	1 x 1
123941	wfsj0219-0500_015	2:15:47.40	-04:40:00.0	J2000.00	1.203	180.0	03:26:35.7	299.8	R	Harris	5	1 x 1
123942	wfsj0219-0500_015	2:15:47.40	-04:40:00.0	J2000.00	1.203	180.0	03:26:35.7	299.8	R	Harris	3	1 x 1
123943	wfsj0219-0500_015	2:15:47.40	-04:40:00.0	J2000.00	1.203	180.0	03:26:35.7	299.8	R	Harris	4	1 x 1
123944	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.205	180.0	03:35:12.6	299.3	R	Harris	1	1 x 1
123945	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.205	180.0	03:35:12.6	299.3	R	Harris	5	1 x 1
123946	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.205	180.0	03:35:12.6	299.3	R	Harris	3	1 x 1
123947	wfsj0219-0500_033	2:20:04.20	-04:40:00.0	J2000.00	1.205	180.0	03:35:12.6	299.3	R	Harris	4	1 x 1
123948	wfsj0219-0500_015	2:15:47.40	-04:40:00.0	J2000.00	1.215	180.0	03:43:21.3	299.8	R	Harris	1	1 x 1
123949	wfsj0219-0500_015	2:15:47.40	-04:40:00.0	J2000.00	1.215	180.0	03:43:21.3	299.8	R	Harris	5	1 x 1

123950	wfsj0219-0500_015	2:15:47.40	-04:40:00.0	J2000.00	1.215	180.0	03:43:21.3	299.8	R	Harris	3	1 x 1	
123951	wfsj0219-0500_015	2:15:47.40	-04:40:00.0	J2000.00	1.215	180.0	03:43:21.3	299.8	R	Harris	4	1 x 1	
123952	wfsj0219-0500_031	2:20:04.29	-05:19:59.9	J2000.00	1.229	180.0	03:52:24.6	299.2	R	Harris	1	1 x 1	
123953	wfsj0219-0500_031	2:20:04.29	-05:19:59.9	J2000.00	1.229	180.0	03:52:24.6	299.2	R	Harris	5	1 x 1	
123954	wfsj0219-0500_031	2:20:04.29	-05:19:59.9	J2000.00	1.229	180.0	03:52:24.6	299.2	R	Harris	3	1 x 1	
123955	wfsj0219-0500_031	2:20:04.29	-05:19:59.9	J2000.00	1.229	180.0	03:52:24.6	299.2	R	Harris	4	1 x 1	
123956	wfsj0219-0500_022	2:17:55.70	-05:20:00.0	J2000.00	1.242	180.0	04:00:44.5	299.3	R	Harris	1	1 x 1	
123957	wfsj0219-0500_022	2:17:55.70	-05:20:00.0	J2000.00	1.242	180.0	04:00:44.5	299.3	R	Harris	5	1 x 1	
123958	wfsj0219-0500_022	2:17:55.70	-05:20:00.0	J2000.00	1.242	180.0	04:00:44.5	299.3	R	Harris	3	1 x 1	
123959	wfsj0219-0500_022	2:17:55.70	-05:20:00.0	J2000.00	1.242	180.0	04:00:44.5	299.3	R	Harris	4	1 x 1	
123960	wfsj0219-0500_013	2:15:47.20	-05:19:59.9	J2000.00	1.257	180.0	04:09:01.2	299.9	R	Harris	1	1 x 1	
123961	wfsj0219-0500_013	2:15:47.20	-05:19:59.9	J2000.00	1.257	180.0	04:09:01.2	299.9	R	Harris	5	1 x 1	
123962	wfsj0219-0500_013	2:15:47.20	-05:19:59.9	J2000.00	1.257	180.0	04:09:01.2	299.9	R	Harris	3	1 x 1	
123963	wfsj0219-0500_013	2:15:47.20	-05:19:59.9	J2000.00	1.257	180.0	04:09:01.2	299.9	R	Harris	4	1 x 1	
123964	wfsj0219-0500_031	2:20:04.29	-05:19:59.9	J2000.00	1.265	180.0	04:17:39.0	299.8	R	Harris	1	1 x 1	
123965	wfsj0219-0500_031	2:20:04.29	-05:19:59.9	J2000.00	1.265	180.0	04:17:39.0	299.8	R	Harris	5	1 x 1	
123966	wfsj0219-0500_031	2:20:04.29	-05:19:59.9	J2000.00	1.265	180.0	04:17:39.0	299.8	R	Harris	3	1 x 1	
123967	wfsj0219-0500_031	2:20:04.29	-05:19:59.9	J2000.00	1.265	180.0	04:17:39.0	299.8	R	Harris	4	1 x 1	
123968	wfsj0219-0500_022	2:17:55.70	-05:19:59.9	J2000.00	1.285	180.0	04:25:57.8	299.8	R	Harris	1	1 x 1	
123969	wfsj0219-0500_022	2:17:55.70	-05:19:59.9	J2000.00	1.285	180.0	04:25:57.8	299.8	R	Harris	5	1 x 1	
123970	wfsj0219-0500_022	2:17:55.70	-05:19:59.9	J2000.00	1.285	180.0	04:25:57.8	299.8	R	Harris	3	1 x 1	
123971	wfsj0219-0500_022	2:17:55.70	-05:19:59.9	J2000.00	1.285	180.0	04:25:57.8	299.8	R	Harris	4	1 x 1	
123972	wfsj0219-0500_013	2:15:47.19	-05:20:00.0	J2000.00	1.309	180.0	04:34:13.8	299.9	R	Harris	1	1 x 1	
123973	wfsj0219-0500_013	2:15:47.19	-05:20:00.0	J2000.00	1.309	180.0	04:34:13.8	299.9	R	Harris	5	1 x 1	
123974	wfsj0219-0500_013	2:15:47.19	-05:20:00.0	J2000.00	1.309	180.0	04:34:13.8	299.9	R	Harris	3	1 x 1	
123975	wfsj0219-0500_013	2:15:47.19	-05:20:00.0	J2000.00	1.309	180.0	04:34:13.8	299.9	R	Harris	4	1 x 1	
123976	wfsj0219-0500_030	2:20:04.29	-05:40:00.0	J2000.00	1.330	180.0	04:44:45.8	299.8	R	Harris	1	1 x 1	
123977	wfsj0219-0500_030	2:20:04.29	-05:40:00.0	J2000.00	1.330	180.0	04:44:45.8	299.8	R	Harris	5	1 x 1	
123978	wfsj0219-0500_030	2:20:04.29	-05:40:00.0	J2000.00	1.330	180.0	04:44:45.8	299.8	R	Harris	3	1 x 1	
123979	wfsj0219-0500_030	2:20:04.29	-05:40:00.0	J2000.00	1.330	180.0	04:44:45.8	299.8	R	Harris	4	1 x 1	
123980	wfsj0219-0500_021	2:17:55.69	-05:40:00.0	J2000.00	1.361	180.0	04:53:05.9	299.8	R	Harris	1	1 x 1	
123981	wfsj0219-0500_021	2:17:55.69	-05:40:00.0	J2000.00	1.361	180.0	04:53:05.9	299.8	R	Harris	5	1 x 1	
123982	wfsj0219-0500_021	2:17:55.69	-05:40:00.0	J2000.00	1.361	180.0	04:53:05.9	299.8	R	Harris	3	1 x 1	
123983	wfsj0219-0500_021	2:17:55.69	-05:40:00.0	J2000.00	1.361	180.0	04:53:05.9	299.8	R	Harris	4	1 x 1	
123984	wfsj0219-0500_012	2:15:47.10	-05:40:00.0	J2000.00	1.396	180.0	05:01:25.2	299.8	R	Harris	1	1 x 1	
123985	wfsj0219-0500_012	2:15:47.10	-05:40:00.0	J2000.00	1.396	180.0	05:01:25.2	299.8	R	Harris	5	1 x 1	
123986	wfsj0219-0500_012	2:15:47.10	-05:40:00.0	J2000.00	1.396	180.0	05:01:25.2	299.8	R	Harris	3	1 x 1	
123987	wfsj0219-0500_012	2:15:47.10	-05:40:00.0	J2000.00	1.396	180.0	05:01:25.2	299.8	R	Harris	4	1 x 1	
123988	wfsj0219-0500_030	2:20:04.30	-05:40:00.0	J2000.00	1.414	180.0	05:10:28.9	299.8	R	Harris	1	1 x 1	
123989	wfsj0219-0500_030	2:20:04.30	-05:40:00.0	J2000.00	1.414	180.0	05:10:28.9	299.8	R	Harris	5	1 x 1	
123990	wfsj0219-0500_030	2:20:04.30	-05:40:00.0	J2000.00	1.414	180.0	05:10:28.9	299.8	R	Harris	3	1 x 1	
123991	wfsj0219-0500_030	2:20:04.30	-05:40:00.0	J2000.00	1.414	180.0	05:10:28.9	299.8	R	Harris	4	1 x 1	
123992	wfsj0219-0500_021	2:17:55.70	-05:40:00.0	J2000.00	1.457	180.0	05:18:47.9	299.8	R	Harris	1	1 x 1	
123993	wfsj0219-0500_021	2:17:55.70	-05:40:00.0	J2000.00	1.457	180.0	05:18:47.9	299.8	R	Harris	5	1 x 1	
123994	wfsj0219-0500_021	2:17:55.70	-05:40:00.0	J2000.00	1.457	180.0	05:18:47.9	299.8	R	Harris	3	1 x 1	
123995	wfsj0219-0500_021	2:17:55.70	-05:40:00.0	J2000.00	1.457	180.0	05:18:47.9	299.8	R	Harris	4	1 x 1	
123996	wfsj0219-0500_012	2:15:47.10	-05:39:59.9	J2000.00	1.505	180.0	05:27:01.0	299.9	R	Harris	1	1 x 1	
123997	wfsj0219-0500_012	2:15:47.10	-05:39:59.9	J2000.00	1.505	180.0	05:27:01.0	299.9	R	Harris	5	1 x 1	
123998	wfsj0219-0500_012	2:15:47.10	-05:39:59.9	J2000.00	1.505	180.0	05:27:01.0	299.9	R	Harris	3	1 x 1	
123999	wfsj0219-0500_012	2:15:47.10	-05:39:59.9	J2000.00	1.505	180.0	05:27:01.0	299.9	R	Harris	4	1 x 1	
124008	wfsj0219-0500_025	2:17:55.80	-04:20:00.0	J2000.00	1.520	180.0	05:37:35.4	300.0	R	Harris	1	1 x 1	MCA timing fu'd
124009	wfsj0219-0500_025	2:17:55.80	-04:20:00.0	J2000.00	1.520	180.0	05:37:35.4	300.0	R	Harris	5	1 x 1	MCA timing fu'd
124010	wfsj0219-0500_025	2:17:55.80	-04:20:00.0	J2000.00	1.520	180.0	05:37:35.4	300.0	R	Harris	3	1 x 1	MCA timing fu'd
124011	wfsj0219-0500_025	2:17:55.80	-04:20:00.0	J2000.00	1.520	180.0	05:37:35.4	300.0	R	Harris	4	1 x 1	MCA timing fu'd
124012	sa95-330	3:54:31.00	+00:29:04.9	J2000.00	1.176	180.0	05:47:19.2	10.0	R	Harris	1	1 x 1	MCA timing fu'd
124013	sa95-330	3:54:31.00	+00:29:04.9	J2000.00	1.176	180.0	05:47:19.2	10.0	R	Harris	5	1 x 1	MCA timing fu'd
124014	sa95-330	3:54:31.00	+00:29:04.9	J2000.00	1.176	180.0	05:47:19.2	10.0	R	Harris	3	1 x 1	MCA timing fu'd
124015	sa95-330	3:54:31.00	+00:29:04.9	J2000.00	1.176	180.0	05:47:19.2	10.0	R	Harris	4	1 x 1	MCA timing fu'd
124016	wfsj0219-0500_025	2:17:55.80	-04:19:59.9	J2000.00	1.602	180.0	05:51:33.3	300.0	R	Harris	1	1 x 1	MCA timing fu'd
124017	wfsj0219-0500_025	2:17:55.80	-04:19:59.9	J2000.00	1.602	180.0	05:51:33.3	300.0	R	Harris	5	1 x 1	MCA timing fu'd
124018	wfsj0219-0500_025	2:17:55.80	-04:19:59.9	J2000.00	1.602	180.0	05:51:33.3	300.0	R	Harris	3	1 x 1	MCA timing fu'd
124019	wfsj0219-0500_025	2:17:55.80	-04:19:59.9	J2000.00	1.602	180.0	05:51:33.3	300.0	R	Harris	4	1 x 1	MCA timing fu'd

124020	sa95-330	3:54:31.00	+00:29:05.0	J2000.00	1.197	180.0	06:00:34.8	10.0	R	Harris	1	1 x 1	MCA timing fu'd
124021	sa95-330	3:54:31.00	+00:29:05.0	J2000.00	1.197	180.0	06:00:34.8	10.0	R	Harris	5	1 x 1	MCA timing fu'd
124022	sa95-330	3:54:31.00	+00:29:05.0	J2000.00	1.197	180.0	06:00:34.8	10.0	R	Harris	3	1 x 1	MCA timing fu'd
124023	sa95-330	3:54:31.00	+00:29:05.0	J2000.00	1.197	180.0	06:00:34.8	10.0	R	Harris	4	1 x 1	MCA timing fu'd
124024	wfsj0219-0500_025	2:17:55.80	-04:20:00.0	J2000.00	1.693	180.0	06:04:29.5	300.0	R	Harris	1	1 x 1	MCA timing fu'd
124025	wfsj0219-0500_025	2:17:55.80	-04:20:00.0	J2000.00	1.693	180.0	06:04:29.5	300.0	R	Harris	5	1 x 1	MCA timing fu'd
124026	wfsj0219-0500_025	2:17:55.80	-04:20:00.0	J2000.00	1.693	180.0	06:04:29.5	300.0	R	Harris	3	1 x 1	MCA timing fu'd
124027	wfsj0219-0500_025	2:17:55.80	-04:20:00.0	J2000.00	1.693	180.0	06:04:29.5	300.0	R	Harris	4	1 x 1	MCA timing fu'd
124028	sky flat	3:54:31.00	+00:29:04.9	J2000.00	1.226	180.0	06:15:00.3	0.0	R	Harris	1	1 x 1	MCA timing fu'd
124029	sky flat	3:54:31.00	+00:29:04.9	J2000.00	1.226	180.0	06:15:00.3	0.0	R	Harris	5	1 x 1	MCA timing fu'd
124030	sky flat	3:54:31.00	+00:29:04.9	J2000.00	1.226	180.0	06:15:00.3	0.0	R	Harris	3	1 x 1	MCA timing fu'd
124031	sky flat	3:54:31.00	+00:29:04.9	J2000.00	1.226	180.0	06:15:00.3	0.0	R	Harris	4	1 x 1	MCA timing fu'd
124032	sky flat	4:25:46.00	+54:09:03.0	B1950.00	1.129	180.0	06:21:06.6	0.0	R	Harris	1	1 x 1	MCA timing fu'd
124033	sky flat	4:25:46.00	+54:09:03.0	B1950.00	1.129	180.0	06:21:06.6	0.0	R	Harris	5	1 x 1	MCA timing fu'd
124034	sky flat	4:25:46.00	+54:09:03.0	B1950.00	1.129	180.0	06:21:06.6	0.0	R	Harris	3	1 x 1	MCA timing fu'd
124035	sky flat	4:25:46.00	+54:09:03.0	B1950.00	1.129	180.0	06:21:06.6	0.0	R	Harris	4	1 x 1	MCA timing fu'd
124036	sky flat	4:25:49.41	+54:09:03.0	B1950.00	1.134	180.0	06:27:04.4	0.0	R	Harris	1	1 x 1	MCA timing fu'd
124037	sky flat	4:25:49.41	+54:09:03.0	B1950.00	1.134	180.0	06:27:04.4	0.0	R	Harris	5	1 x 1	MCA timing fu'd
124038	sky flat	4:25:49.41	+54:09:03.0	B1950.00	1.134	180.0	06:27:04.4	0.0	R	Harris	3	1 x 1	MCA timing fu'd
124039	sky flat	4:25:49.41	+54:09:03.0	B1950.00	1.134	180.0	06:27:04.4	0.0	R	Harris	4	1 x 1	MCA timing fu'd
124040	sky flat	4:25:49.41	+54:09:02.9	B1950.00	1.137	180.0	06:31:15.6	0.0	R	Harris	1	1 x 1	MCA timing fu'd
124041	sky flat	4:25:49.41	+54:09:02.9	B1950.00	1.137	180.0	06:31:15.6	0.0	R	Harris	5	1 x 1	MCA timing fu'd
124042	sky flat	4:25:49.41	+54:09:02.9	B1950.00	1.137	180.0	06:31:15.6	0.0	R	Harris	3	1 x 1	MCA timing fu'd
124043	sky flat	4:25:49.41	+54:09:02.9	B1950.00	1.137	180.0	06:31:15.6	0.0	R	Harris	4	1 x 1	MCA timing fu'd
124044	sky flat	4:25:49.41	+54:09:03.0	B1950.00	1.140	180.0	06:34:54.5	0.0	R	Harris	1	1 x 1	MCA timing fu'd
124045	sky flat	4:25:49.41	+54:09:03.0	B1950.00	1.140	180.0	06:34:54.5	0.0	R	Harris	5	1 x 1	MCA timing fu'd
124046	sky flat	4:25:49.41	+54:09:03.0	B1950.00	1.140	180.0	06:34:54.5	0.0	R	Harris	3	1 x 1	MCA timing fu'd
124047	sky flat	4:25:49.41	+54:09:03.0	B1950.00	1.140	180.0	06:34:54.5	0.0	R	Harris	4	1 x 1	MCA timing fu'd
124048	sky flat	4:25:49.41	+54:09:02.9	B1950.00	1.144	180.0	06:38:30.2	0.0	R	Harris	1	1 x 1	MCA timing fu'd
124049	sky flat	4:25:49.41	+54:09:02.9	B1950.00	1.144	180.0	06:38:30.2	0.0	R	Harris	5	1 x 1	MCA timing fu'd
124050	sky flat	4:25:49.41	+54:09:02.9	B1950.00	1.144	180.0	06:38:30.2	0.0	R	Harris	3	1 x 1	MCA timing fu'd
124051	sky flat	4:25:49.41	+54:09:02.9	B1950.00	1.144	180.0	06:38:30.2	0.0	R	Harris	4	1 x 1	MCA timing fu'd