INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  1999 Feb 13/14
INT TAPE NR:           INTD3958-59
OBSERVER:              Gavin Dalton/Jane Booth
PROGRAMME:             Oxford UBVRIZ deep survey
PATT/CAT:              WFS 16
TELESCOPE OPERATOR:    -------
SUPPORT ASTRONOMER:    -------

FOCUS:                 PRIME
INSTRUMENT:            WFC
FILTER WHEEL (PF):     KP, U, SI, R, V, Z
CAMERA (IDS):          ---
COLLIMATOR (IDS):      ---
COLL. FOCUS (IDS):     ---
GRATING (IDS):         ---
DETECTOR:              4xEEV
PIXELS:                2K x 4K
PIXEL SIZE (microns): 13.5
WINDOW:                none
BINNING:               none

WEATHER:                 clear
OUTSIDE TEMP (deg C):    2          (FIRST HALF)
OUTSIDE TEMP (deg C):    0           (SECOND HALF)
HUMIDITY (%):            25         (FIRST HALF)
HUMIDITY (%):            60            (SECOND HALF)
CLOUD COVER (%):         00             (FIRST HALF)
CLOUD COVER (%):         00             (SECOND HALF)
DUST (0 - 2):          0.03             (FIRST HALF)
DUST (0 - 2):            0              (SECOND HALF)
SEEING (arcsec):       1.0          (FIRST HALF)
SEEING (arcsec):       1.4              (SECOND HALF)
AV. SEEING (arcsec):
NO. SEEING MEASURES:
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UTC	TELESCOPE				CASELLA OUT		CASELLA IN		SEEING	
	AZ	EL	Focus	TComp	Temp	Humid	Temp	Humid	Det./TV	Comments
20:15	202	59	46.12	0.18	04.0	19	03.3	27	1.2	filter R
23:30	045	70	46.03	0.26	03.1	16	02.8	18	1.0	filter V
02:30	326	74	46.04	0.26	03.7	9	3.1	12	1.1	filter U
04:00	301	49	46.03	0.30	02.6	15	01.9	20	1.3	filter SI

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DARK HOURS:            10:16
DOME OPEN (UTC):       18:30
MOON PHASE (D/G/B):        D
DK HRS LOST (WEATHER):00:45
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):     00:00
DK HRS LOST (OTHER):   00:00

COMMENTS:
Fogged out in high winds at 05:50.
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys Channel	Binning	Comments
148560	Bias frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	15:18:15.7	0.0	z	Gunn 1	1 x 1	

148561	Bias frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	15:18:15.7	0.0	z	Gunn	5	1 x 1
148562	Bias frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	15:18:15.7	0.0	z	Gunn	3	1 x 1
148563	Bias frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	15:18:15.7	0.0	z	Gunn	4	1 x 1
148564	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:08:17.8	900.0	z	Gunn	1	1 x 1
148565	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:08:17.8	900.0	z	Gunn	5	1 x 1
148566	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:08:17.8	900.0	z	Gunn	3	1 x 1
148567	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:08:17.8	900.0	z	Gunn	4	1 x 1
148568	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:26:11.6	900.0	z	Gunn	1	1 x 1
148569	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:26:11.6	900.0	z	Gunn	5	1 x 1
148570	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:26:11.6	900.0	z	Gunn	3	1 x 1
148571	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:26:11.6	900.0	z	Gunn	4	1 x 1
148572	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:44:05.0	900.0	z	Gunn	1	1 x 1
148573	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:44:05.0	900.0	z	Gunn	5	1 x 1
148574	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:44:05.0	900.0	z	Gunn	3	1 x 1
148575	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	16:44:05.0	900.0	z	Gunn	4	1 x 1
148576	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	17:01:55.8	900.0	z	Gunn	1	1 x 1
148577	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	17:01:55.8	900.0	z	Gunn	5	1 x 1
148578	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	17:01:55.8	900.0	z	Gunn	3	1 x 1
148579	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	17:01:55.8	900.0	z	Gunn	4	1 x 1
148580	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	17:19:46.6	900.0	z	Gunn	1	1 x 1
148581	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	17:19:46.6	900.0	z	Gunn	5	1 x 1
148582	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	17:19:46.6	900.0	z	Gunn	3	1 x 1
148583	Dark frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	17:19:46.6	900.0	z	Gunn	4	1 x 1
148584	Bias frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	18:25:24.1	0.0	z	Gunn	1	1 x 1
148585	Bias frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	18:25:24.1	0.0	z	Gunn	5	1 x 1
148586	Bias frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	18:25:24.1	0.0	z	Gunn	3	1 x 1
148587	Bias frame	0:00:00.00	+00:00:00.0	A	2.990	179.9	18:25:24.1	0.0	z	Gunn	4	1 x 1
148588	Bias frame	0:00:00.00	+00:00:00.0	A	3.187	179.9	18:28:16.8	0.0	z	Gunn	1	1 x 1
148589	Bias frame	0:00:00.00	+00:00:00.0	A	3.187	179.9	18:28:16.8	0.0	z	Gunn	5	1 x 1
148590	Bias frame	0:00:00.00	+00:00:00.0	A	3.187	179.9	18:28:16.8	0.0	z	Gunn	3	1 x 1
148591	Bias frame	0:00:00.00	+00:00:00.0	A	3.187	179.9	18:28:16.8	0.0	z	Gunn	4	1 x 1
148592	Bias frame	0:00:00.00	+00:00:00.0	A	3.234	179.9	18:31:10.0	0.0	z	Gunn	1	1 x 1
148593	Bias frame	0:00:00.00	+00:00:00.0	A	3.234	179.9	18:31:10.0	0.0	z	Gunn	5	1 x 1
148594	Bias frame	0:00:00.00	+00:00:00.0	A	3.234	179.9	18:31:10.0	0.0	z	Gunn	3	1 x 1
148595	Bias frame	0:00:00.00	+00:00:00.0	A	3.234	179.9	18:31:10.0	0.0	z	Gunn	4	1 x 1
148596	Bias frame	0:00:00.00	+00:00:00.0	A	3.773	179.9	18:34:00.4	0.0	z	Gunn	1	1 x 1
148597	Bias frame	0:00:00.00	+00:00:00.0	A	3.773	179.9	18:34:00.4	0.0	z	Gunn	5	1 x 1
148598	Bias frame	0:00:00.00	+00:00:00.0	A	3.773	179.9	18:34:00.4	0.0	z	Gunn	3	1 x 1
148599	Bias frame	0:00:00.00	+00:00:00.0	A	3.773	179.9	18:34:00.4	0.0	z	Gunn	4	1 x 1
148600	Bias frame	0:00:00.00	+00:00:00.0	A	3.686	179.9	18:36:51.4	0.0	z	Gunn	1	1 x 1
148601	Bias frame	0:00:00.00	+00:00:00.0	A	3.686	179.9	18:36:51.4	0.0	z	Gunn	5	1 x 1
148602	Bias frame	0:00:00.00	+00:00:00.0	A	3.686	179.9	18:36:51.4	0.0	z	Gunn	3	1 x 1
148603	Bias frame	0:00:00.00	+00:00:00.0	A	3.686	179.9	18:36:51.4	0.0	z	Gunn	4	1 x 1
148604	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.135	179.9	19:00:17.0	72.4	z	Gunn	1	1 x 1
148605	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.135	179.9	19:00:17.0	72.4	z	Gunn	5	1 x 1
148606	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.135	179.9	19:00:17.0	72.4	z	Gunn	3	1 x 1 saturated
148607	Flat field	4:25:46.00	+54:09:03.0	B1950.00	1.135	179.9	19:00:17.0	72.4	z	Gunn	4	1 x 1
148608	Flat field	4:25:47.13	+54:09:33.0	B1950.00	1.122	179.9	19:19:19.2	2.9	z	Gunn	1	1 x 1
148609	Flat field	4:25:47.13	+54:09:33.0	B1950.00	1.122	179.9	19:19:19.2	2.9	z	Gunn	5	1 x 1
148610	Flat field	4:25:47.13	+54:09:33.0	B1950.00	1.122	179.9	19:19:19.2	2.9	z	Gunn	3	1 x 1
148611	Flat field	4:25:47.13	+54:09:33.0	B1950.00	1.122	179.9	19:19:19.2	2.9	z	Gunn	4	1 x 1
148612	Flat field	4:25:47.13	+54:09:02.8	B1950.00	1.120	179.9	19:22:32.1	7.7	z	Gunn	1	1 x 1
148613	Flat field	4:25:47.13	+54:09:02.8	B1950.00	1.120	179.9	19:22:32.1	7.7	z	Gunn	5	1 x 1
148614	Flat field	4:25:47.13	+54:09:02.8	B1950.00	1.120	179.9	19:22:32.1	7.7	z	Gunn	3	1 x 1
148615	Flat field	4:25:47.13	+54:09:02.8	B1950.00	1.120	179.9	19:22:32.1	7.7	z	Gunn	4	1 x 1
148616	Flat field	4:25:47.13	+54:09:02.9	B1950.00	1.118	179.9	19:25:59.9	21.5	z	Gunn	1	1 x 1
148617	Flat field	4:25:47.13	+54:09:02.9	B1950.00	1.118	179.9	19:25:59.9	21.5	z	Gunn	5	1 x 1
148618	Flat field	4:25:47.13	+54:09:02.9	B1950.00	1.118	179.9	19:25:59.9	21.5	z	Gunn	3	1 x 1
148619	Flat field	4:25:47.13	+54:09:02.9	B1950.00	1.118	179.9	19:25:59.9	21.5	z	Gunn	4	1 x 1
148620	Flat field	4:25:47.13	+54:08:32.9	B1950.00	1.116	179.9	19:29:43.6	56.9	z	Gunn	1	1 x 1
148621	Flat field	4:25:47.13	+54:08:32.9	B1950.00	1.116	179.9	19:29:43.6	56.9	z	Gunn	5	1 x 1
148622	Flat field	4:25:47.13	+54:08:32.9	B1950.00	1.116	179.9	19:29:43.6	56.9	z	Gunn	3	1 x 1

148623	Flat field	4:25:47.13	+54:08:32.9	B1950.00	1.116	179.9	19:29:43.6	56.9	z	Gunn	4	1 x 1
148624	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.114	179.9	19:34:00.6	44.2	R	Harris	1	1 x 1
148625	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.114	179.9	19:34:00.6	44.2	R	Harris	5	1 x 1
148626	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.114	179.9	19:34:00.6	44.2	R	Harris	3	1 x 1
148627	Flat field	4:25:46.00	+54:09:02.9	B1950.00	1.114	179.9	19:34:00.6	44.2	R	Harris	4	1 x 1
148628	Focus run	3:53:25.00	+00:04:32.9	J2000.00	1.143	179.9	19:51:00.9	5.1	V	Harris	1	1 x 1
148629	Focus run	3:53:25.00	+00:04:32.9	J2000.00	1.143	179.9	19:51:00.9	5.1	V	Harris	5	1 x 1
148630	Focus run	3:53:25.00	+00:04:32.9	J2000.00	1.143	179.9	19:51:00.9	5.1	V	Harris	3	1 x 1
148631	Focus run	3:53:25.00	+00:04:32.9	J2000.00	1.143	179.9	19:51:00.9	5.1	V	Harris	4	1 x 1
148636	Focus run	3:53:25.00	+00:06:17.9	J2000.00	1.154	179.9	20:09:11.1	5.1	R	Harris	1	1 x 1
148637	Focus run	3:53:25.00	+00:06:17.9	J2000.00	1.154	179.9	20:09:11.1	5.1	R	Harris	5	1 x 1
148638	Focus run	3:53:25.00	+00:06:17.9	J2000.00	1.154	179.9	20:09:11.1	5.1	R	Harris	3	1 x 1
148639	Focus run	3:53:25.00	+00:06:17.9	J2000.00	1.154	179.9	20:09:11.1	5.1	R	Harris	4	1 x 1
148640	SA95-107 R	3:53:25.60	+00:02:19.9	J2000.00	1.162	179.9	20:15:25.7	5.1	R	Harris	1	1 x 1
148641	SA95-107 R	3:53:25.60	+00:02:19.9	J2000.00	1.162	179.9	20:15:25.7	5.1	R	Harris	5	1 x 1
148642	SA95-107 R	3:53:25.60	+00:02:19.9	J2000.00	1.162	179.9	20:15:25.7	5.1	R	Harris	3	1 x 1
148643	SA95-107 R	3:53:25.60	+00:02:19.9	J2000.00	1.162	179.9	20:15:25.7	5.1	R	Harris	4	1 x 1
148644	SA95-107 I	3:53:25.60	+00:02:20.0	J2000.00	1.165	179.9	20:18:58.5	5.2	I	Sloan Gunn	1	1 x 1
148645	SA95-107 I	3:53:25.60	+00:02:20.0	J2000.00	1.165	179.9	20:18:58.5	5.2	I	Sloan Gunn	5	1 x 1
148646	SA95-107 I	3:53:25.60	+00:02:20.0	J2000.00	1.165	179.9	20:18:58.5	5.2	I	Sloan Gunn	3	1 x 1
148647	SA95-107 I	3:53:25.60	+00:02:20.0	J2000.00	1.165	179.9	20:18:58.5	5.2	I	Sloan Gunn	4	1 x 1
148648	SA95-107 Z	3:53:25.60	+00:02:20.0	J2000.00	1.169	179.9	20:22:34.3	5.1	z	Gunn	1	1 x 1
148649	SA95-107 Z	3:53:25.60	+00:02:20.0	J2000.00	1.169	179.9	20:22:34.3	5.1	z	Gunn	5	1 x 1
148650	SA95-107 Z	3:53:25.60	+00:02:20.0	J2000.00	1.169	179.9	20:22:34.3	5.1	z	Gunn	3	1 x 1
148651	SA95-107 Z	3:53:25.60	+00:02:20.0	J2000.00	1.169	179.9	20:22:34.3	5.1	z	Gunn	4	1 x 1
148652	SA95-107 V	3:53:25.60	+00:02:19.9	J2000.00	1.173	179.9	20:25:39.2	4.7	V	Harris	1	1 x 1
148653	SA95-107 V	3:53:25.60	+00:02:19.9	J2000.00	1.173	179.9	20:25:39.2	4.7	V	Harris	5	1 x 1
148654	SA95-107 V	3:53:25.60	+00:02:19.9	J2000.00	1.173	179.9	20:25:39.2	4.7	V	Harris	3	1 x 1
148655	SA95-107 V	3:53:25.60	+00:02:19.9	J2000.00	1.173	179.9	20:25:39.2	4.7	V	Harris	4	1 x 1
148656	SA95-107 B	3:53:25.60	+00:02:19.9	J2000.00	1.177	179.9	20:28:50.9	5.1	B	Kitt Peak	1	1 x 1
148657	SA95-107 B	3:53:25.60	+00:02:19.9	J2000.00	1.177	179.9	20:28:50.9	5.1	B	Kitt Peak	5	1 x 1
148658	SA95-107 B	3:53:25.60	+00:02:19.9	J2000.00	1.177	179.9	20:28:50.9	5.1	B	Kitt Peak	3	1 x 1
148659	SA95-107 B	3:53:25.60	+00:02:19.9	J2000.00	1.177	179.9	20:28:50.9	5.1	B	Kitt Peak	4	1 x 1
148660	SA95-107 U	3:53:25.57	+00:02:19.9	J2000.00	1.181	179.9	20:31:51.6	5.1	U	RGO	1	1 x 1
148661	SA95-107 U	3:53:25.57	+00:02:19.9	J2000.00	1.181	179.9	20:31:51.6	5.1	U	RGO	5	1 x 1
148662	SA95-107 U	3:53:25.57	+00:02:19.9	J2000.00	1.181	179.9	20:31:51.6	5.1	U	RGO	3	1 x 1
148663	SA95-107 U	3:53:25.57	+00:02:19.9	J2000.00	1.181	179.9	20:31:51.6	5.1	U	RGO	4	1 x 1
148664	H041 Z	9:11:17.47	+41:28:43.5	J2000.00	1.584	179.9	20:37:24.6	599.4	z	Gunn	1	1 x 1
148665	H041 Z	9:11:17.47	+41:28:43.5	J2000.00	1.584	179.9	20:37:24.6	599.4	z	Gunn	5	1 x 1
148666	H041 Z	9:11:17.47	+41:28:43.5	J2000.00	1.584	179.9	20:37:24.6	599.4	z	Gunn	3	1 x 1
148667	H041 Z	9:11:17.47	+41:28:43.5	J2000.00	1.584	179.9	20:37:24.6	599.4	z	Gunn	4	1 x 1
148668	H041 I	9:11:17.46	+41:28:43.6	J2000.00	1.483	179.9	20:50:45.6	1098.5	I	Sloan Gunn	1	1 x 1
148669	H041 I	9:11:17.46	+41:28:43.6	J2000.00	1.483	179.9	20:50:45.6	1098.5	I	Sloan Gunn	5	1 x 1
148670	H041 I	9:11:17.46	+41:28:43.6	J2000.00	1.483	179.9	20:50:45.6	1098.5	I	Sloan Gunn	3	1 x 1
148671	H041 I	9:11:17.46	+41:28:43.6	J2000.00	1.483	179.9	20:50:45.6	1098.5	I	Sloan Gunn	4	1 x 1
148672	H041 I	4:35:38.73	+20:44:21.8	J2000.00	1.381	179.9	21:12:04.4	1099.0	I	Sloan Gunn	1	1 x 1
148673	H041 I	4:35:38.73	+20:44:21.8	J2000.00	1.381	179.9	21:12:04.4	1099.0	I	Sloan Gunn	5	1 x 1
148674	H041 I	4:35:38.73	+20:44:21.8	J2000.00	1.381	179.9	21:12:04.4	1099.0	I	Sloan Gunn	3	1 x 1
148675	H041 I	4:35:38.73	+20:44:21.8	J2000.00	1.381	179.9	21:12:04.4	1099.0	I	Sloan Gunn	4	1 x 1
148676	H041 I	9:11:17.47	+41:28:43.8	J2000.00	1.297	179.9	21:33:47.3	1099.1	I	Sloan Gunn	1	1 x 1
148677	H041 I	9:11:17.47	+41:28:43.8	J2000.00	1.297	179.9	21:33:47.3	1099.1	I	Sloan Gunn	5	1 x 1
148678	H041 I	9:11:17.47	+41:28:43.8	J2000.00	1.297	179.9	21:33:47.3	1099.1	I	Sloan Gunn	3	1 x 1
148679	H041 I	9:11:17.47	+41:28:43.8	J2000.00	1.297	179.9	21:33:47.3	1099.1	I	Sloan Gunn	4	1 x 1
148680	H041 R	9:11:17.47	+41:28:43.5	J2000.00	1.225	179.9	21:55:38.3	1198.9	R	Harris	1	1 x 1
148681	H041 R	9:11:17.47	+41:28:43.5	J2000.00	1.225	179.9	21:55:38.3	1198.9	R	Harris	5	1 x 1
148682	H041 R	9:11:17.47	+41:28:43.5	J2000.00	1.225	179.9	21:55:38.3	1198.9	R	Harris	3	1 x 1
148683	H041 R	9:11:17.47	+41:28:43.5	J2000.00	1.225	179.9	21:55:38.3	1198.9	R	Harris	4	1 x 1
148684	H041 R	9:11:17.47	+41:28:43.1	J2000.00	1.167	179.9	22:18:39.6	1198.8	R	Harris	1	1 x 1
148685	H041 R	9:11:17.47	+41:28:43.1	J2000.00	1.167	179.9	22:18:39.6	1198.8	R	Harris	5	1 x 1
148686	H041 R	9:11:17.47	+41:28:43.1	J2000.00	1.167	179.9	22:18:39.6	1198.8	R	Harris	3	1 x 1
148687	H041 R	9:11:17.47	+41:28:43.1	J2000.00	1.167	179.9	22:18:39.6	1198.8	R	Harris	4	1 x 1
148692	H041 R	9:11:17.47	+41:28:43.6	J2000.00	1.118	179.9	22:43:52.7	0.0	R	Harris	1	1 x 1 Exposed 1200

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148693 H041 R          9:11:17.47 +41:28:43.6 J2000.00 1.118 179.9 22:43:52.7      0.0       R     Harris    5      1 x 1 Exposed 1200
148694 H041 R          9:11:17.47 +41:28:43.6 J2000.00 1.118 179.9 22:43:52.7      0.0       R     Harris    3      1 x 1 Exposed 1200
148695 H041 R          9:11:17.47 +41:28:43.6 J2000.00 1.118 179.9 22:43:52.7      0.0       R     Harris    4      1 x 1 Exposed 1200
148696 H041 V          9:11:17.47 +41:28:43.6 J2000.00 1.084 179.9 23:07:19.6      0.0       V     Harris    1      1 x 1 Exposed 1000
148697 H041 V          9:11:17.47 +41:28:43.6 J2000.00 1.084 179.9 23:07:19.6      0.0       V     Harris    5      1 x 1 Exposed 1000
148698 H041 V          9:11:17.47 +41:28:43.6 J2000.00 1.084 179.9 23:07:19.6      0.0       V     Harris    3      1 x 1 Exposed 1000
148699 H041 V          9:11:17.47 +41:28:43.6 J2000.00 1.084 179.9 23:07:19.6      0.0       V     Harris    4      1 x 1 Exposed 1000
148700 H041 V          9:11:17.46 +41:28:43.3 J2000.00 1.060 179.9 23:27:52.7    998.4       V     Harris    1      1 x 1
148701 H041 V          9:11:17.46 +41:28:43.3 J2000.00 1.060 179.9 23:27:52.7    998.4       V     Harris    5      1 x 1
148702 H041 V          9:11:17.46 +41:28:43.3 J2000.00 1.060 179.9 23:27:52.7    998.4       V     Harris    3      1 x 1
148703 H041 V          9:11:17.46 +41:28:43.3 J2000.00 1.060 179.9 23:27:52.7    998.4       V     Harris    4      1 x 1
148704 H041 V          9:11:17.47 +41:28:43.7 J2000.00 1.044 179.9 23:47:33.9      0.0       V     Harris    1      1 x 1 Exposed 1000
148705 H041 V          9:11:17.47 +41:28:43.7 J2000.00 1.044 179.9 23:47:33.9      0.0       V     Harris    5      1 x 1 Exposed 1000
148706 H041 V          9:11:17.47 +41:28:43.7 J2000.00 1.044 179.9 23:47:33.9      0.0       V     Harris    3      1 x 1 Exposed 1000
148707 H041 V          9:11:17.47 +41:28:43.7 J2000.00 1.044 179.9 23:47:33.9      0.0       V     Harris    4      1 x 1 Exposed 1000
148708 H041 U          9:11:17.47 +41:28:43.6 J2000.00 1.031 179.9 00:08:12.7      0.0       U        RGO    1      1 x 1 Exposed 1200
148709 H041 U          9:11:17.47 +41:28:43.6 J2000.00 1.031 179.9 00:08:12.7      0.0       U        RGO    5      1 x 1 Exposed 1200
148710 H041 U          9:11:17.47 +41:28:43.6 J2000.00 1.031 179.9 00:08:12.7      0.0       U        RGO    3      1 x 1 Exposed 1200
148711 H041 U          9:11:17.47 +41:28:43.6 J2000.00 1.031 179.9 00:08:12.7      0.0       U        RGO    4      1 x 1 Exposed 1200
148712 H041 U          9:11:17.47 +41:28:43.3 J2000.00 1.026 179.9 00:31:08.8      0.0       U        RGO    1      1 x 1 Exposed 1200
148713 H041 U          9:11:17.47 +41:28:43.3 J2000.00 1.026 179.9 00:31:08.8      0.0       U        RGO    5      1 x 1 Exposed 1200
148714 H041 U          9:11:17.47 +41:28:43.3 J2000.00 1.026 179.9 00:31:08.8      0.0       U        RGO    3      1 x 1 Exposed 1200
148715 H041 U          9:11:17.47 +41:28:43.3 J2000.00 1.026 179.9 00:31:08.8      0.0       U        RGO    4      1 x 1 Exposed 1200
148716 H041 U          9:11:17.47 +41:28:43.6 J2000.00 1.027 179.9 00:54:05.5      0.0       U        RGO    1      1 x 1 Exposed 1200
148717 H041 U          9:11:17.47 +41:28:43.6 J2000.00 1.027 179.9 00:54:05.5      0.0       U        RGO    5      1 x 1 Exposed 1200
148718 H041 U          9:11:17.47 +41:28:43.6 J2000.00 1.027 179.9 00:54:05.5      0.0       U        RGO    3      1 x 1 Exposed 1200
148719 H041 U          9:11:17.47 +41:28:43.6 J2000.00 1.027 179.9 00:54:05.5      0.0       U        RGO    4      1 x 1 Exposed 1200
148720 H041 U          9:11:17.47 +41:28:43.5 J2000.00 1.035 179.9 01:17:23.6      0.0       U        RGO    1      1 x 1 Exposed 1200
148721 H041 U          9:11:17.47 +41:28:43.5 J2000.00 1.035 179.9 01:17:23.6      0.0       U        RGO    5      1 x 1 Exposed 1200
148722 H041 U          9:11:17.47 +41:28:43.5 J2000.00 1.035 179.9 01:17:23.6      0.0       U        RGO    3      1 x 1 Exposed 1200
148723 H041 U          9:11:17.47 +41:28:43.5 J2000.00 1.035 179.9 01:17:23.6      0.0       U        RGO    4      1 x 1 Exposed 1200
148724 H041 U          9:11:17.46 +41:28:43.3 J2000.00 1.051 179.9 01:40:21.5      0.0       U        RGO    1      1 x 1 Exposed 1200
148725 H041 U          9:11:17.46 +41:28:43.3 J2000.00 1.051 179.9 01:40:21.5      0.0       U        RGO    5      1 x 1 Exposed 1200
148726 H041 U          9:11:17.46 +41:28:43.3 J2000.00 1.051 179.9 01:40:21.5      0.0       U        RGO    3      1 x 1 Exposed 1200
148727 H041 U          9:11:17.46 +41:28:43.3 J2000.00 1.051 179.9 01:40:21.5      0.0       U        RGO    4      1 x 1 Exposed 1200
148728 H041 U          9:11:17.47 +41:28:43.4 J2000.00 1.075 179.9 02:03:20.2      0.0       U        RGO    1      1 x 1 Exposed 1200
148729 H041 U          9:11:17.47 +41:28:43.4 J2000.00 1.075 179.9 02:03:20.2      0.0       U        RGO    5      1 x 1
148730 H041 U          9:11:17.47 +41:28:43.4 J2000.00 1.075 179.9 02:03:20.2      0.0       U        RGO    3      1 x 1
148731 H041 U          9:11:17.47 +41:28:43.4 J2000.00 1.075 179.9 02:03:20.2      0.0       U        RGO    4      1 x 1
148732 H041 B          9:11:17.46 +41:28:43.6 J2000.00 1.103 179.9 02:26:45.1      0.0       B  Kitt Peak    1      1 x 1 Exposed 900
148733 H041 B          9:11:17.46 +41:28:43.6 J2000.00 1.103 179.9 02:26:45.1      0.0       B  Kitt Peak    5      1 x 1
148734 H041 B          9:11:17.46 +41:28:43.6 J2000.00 1.103 179.9 02:26:45.1      0.0       B  Kitt Peak    3      1 x 1
148735 H041 B          9:11:17.46 +41:28:43.6 J2000.00 1.103 179.9 02:26:45.1      0.0       B  Kitt Peak    4      1 x 1
148736 H041 B          9:11:17.47 +41:28:43.3 J2000.00 1.135 179.9 02:44:44.4      0.0       B  Kitt Peak    1      1 x 1 Exposed 900
148737 H041 B          9:11:17.47 +41:28:43.3 J2000.00 1.135 179.9 02:44:44.4      0.0       B  Kitt Peak    5      1 x 1
148738 H041 B          9:11:17.47 +41:28:43.3 J2000.00 1.135 179.9 02:44:44.4      0.0       B  Kitt Peak    3      1 x 1
148739 H041 B          9:11:17.47 +41:28:43.3 J2000.00 1.135 179.9 02:44:44.4      0.0       B  Kitt Peak    4      1 x 1
148740 H041 B          9:11:17.47 +41:28:43.6 J2000.00 1.172 179.9 03:02:41.8      0.0       B  Kitt Peak    1      1 x 1 Exposed 900
148741 H041 B          9:11:17.47 +41:28:43.6 J2000.00 1.172 179.9 03:02:41.8      0.0       B  Kitt Peak    5      1 x 1
148742 H041 B          9:11:17.47 +41:28:43.6 J2000.00 1.172 179.9 03:02:41.8      0.0       B  Kitt Peak    3      1 x 1
148743 H041 B          9:11:17.47 +41:28:43.6 J2000.00 1.172 179.9 03:02:41.8      0.0       B  Kitt Peak    4      1 x 1
148744 H040 I          9:08:27.07 +41:18:22.0 J2000.00 1.254 179.9 03:28:51.1      0.0       I Sloan Gunn    1      1 x 1 Exposed 1100
148745 H040 I          9:08:27.07 +41:18:22.0 J2000.00 1.254 179.9 03:28:51.1      0.0       I Sloan Gunn    5      1 x 1
148746 H040 I          9:08:27.07 +41:18:22.0 J2000.00 1.254 179.9 03:28:51.1      0.0       I Sloan Gunn    3      1 x 1
148747 H040 I          9:08:27.07 +41:18:22.0 J2000.00 1.254 179.9 03:28:51.1      0.0       I Sloan Gunn    4      1 x 1
148748 H040 I          9:08:27.07 +41:18:21.8 J2000.00 1.327 179.9 03:50:08.2      0.0       I Sloan Gunn    1      1 x 1 Exposed 1100
148749 H040 I          9:08:27.07 +41:18:21.8 J2000.00 1.327 179.9 03:50:08.2      0.0       I Sloan Gunn    5      1 x 1
148750 H040 I          9:08:27.07 +41:18:21.8 J2000.00 1.327 179.9 03:50:08.2      0.0       I Sloan Gunn    3      1 x 1
148751 H040 I          9:08:27.07 +41:18:21.8 J2000.00 1.327 179.9 03:50:08.2      0.0       I Sloan Gunn    4      1 x 1
148752 H040 I          9:08:27.07 +41:18:22.2 J2000.00 1.417 179.9 04:11:25.6      0.0       I Sloan Gunn    1      1 x 1 Exposed 1100
148753 H040 I          9:08:27.07 +41:18:22.2 J2000.00 1.417 179.9 04:11:25.6      0.0       I Sloan Gunn    5      1 x 1
148754 H040 I          9:08:27.07 +41:18:22.2 J2000.00 1.417 179.9 04:11:25.6      0.0       I Sloan Gunn    3      1 x 1
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148755 H040 I              9:08:27.07 +41:18:22.2 J2000.00 1.417 179.9 04:11:25.6      0.0       I Sloan Gunn    4      1 x 1
148756 H040 Z              9:08:27.07 +41:18:22.1 J2000.00 1.505 179.9 04:33:02.9      0.0       z       Gunn    1      1 x 1 Exposed 600
148757 H040 Z              9:08:27.07 +41:18:22.1 J2000.00 1.505 179.9 04:33:02.9      0.0       z       Gunn    5      1 x 1
148758 H040 Z              9:08:27.07 +41:18:22.1 J2000.00 1.505 179.9 04:33:02.9      0.0       z       Gunn    3      1 x 1
148759 H040 Z              9:08:27.07 +41:18:22.1 J2000.00 1.505 179.9 04:33:02.9      0.0       z       Gunn    4      1 x 1
148760 J013 I             16:34:23.56 +46:35:33.4 J2000.00 1.334 179.9 04:47:44.5      0.0       I Sloan Gunn    1      1 x 1 Exposed 1100
148761 J013 I             16:34:23.56 +46:35:33.4 J2000.00 1.334 179.9 04:47:44.5      0.0       I Sloan Gunn    5      1 x 1
148762 J013 I             16:34:23.56 +46:35:33.4 J2000.00 1.334 179.9 04:47:44.5      0.0       I Sloan Gunn    3      1 x 1
148763 J013 I             16:34:23.56 +46:35:33.4 J2000.00 1.334 179.9 04:47:44.5      0.0       I Sloan Gunn    4      1 x 1
148764 J015 I             16:37:29.84 +46:45:54.8 J2000.00 1.272 179.9 05:10:19.1      0.0       I Sloan Gunn    1      1 x 1 Exposed 1100
148765 J015 I             16:37:29.84 +46:45:54.8 J2000.00 1.272 179.9 05:10:19.1      0.0       I Sloan Gunn    5      1 x 1
148766 J015 I             16:37:29.84 +46:45:54.8 J2000.00 1.272 179.9 05:10:19.1      0.0       I Sloan Gunn    3      1 x 1
148767 J015 I             16:37:29.84 +46:45:54.8 J2000.00 1.272 179.9 05:10:19.1      0.0       I Sloan Gunn    4      1 x 1
148768 J015 I             16:37:29.84 +46:45:54.6 J2000.00 1.222 179.9 05:31:40.6      0.0       I Sloan Gunn    1      1 x 1 Exposed 767 fog
148769 J015 I             16:37:29.84 +46:45:54.6 J2000.00 1.222 179.9 05:31:40.6      0.0       I Sloan Gunn    5      1 x 1
148770 J015 I             16:37:29.84 +46:45:54.6 J2000.00 1.222 179.9 05:31:40.6      0.0       I Sloan Gunn    3      1 x 1
148771 J015 I             16:37:29.84 +46:45:54.6 J2000.00 1.222 179.9 05:31:40.6      0.0       I Sloan Gunn    4      1 x 1
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