INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  1999 Mar 16/17
INT TAPE NR:           INTD3988
OBSERVER:              Mike, Celine, Pierre, Guillaume
PROGRAMME:             WFS
PATT/CAT:              WFS/09
TELESCOPE OPERATOR:    MJI
SUPPORT ASTRONOMER:    -

FOCUS:                 PRIME
INSTRUMENT:            WFC
FILTER WHEEL (PF):     KPNOB,V,R,r,i,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:               Good weather all night - some cirrus occassionally
OUTSIDE TEMP (deg C):    0.0      (FIRST HALF)
OUTSIDE TEMP (deg C):    0.0      (SECOND HALF)
HUMIDITY (%):           10       (FIRST HALF)
HUMIDITY (%):            5       (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):       1.1        (FIRST HALF)
SEEING (arcsec):       1.0        (SECOND HALF)
AV. SEEING (arcsec):   1.1
NO. SEEING MEASURES:   10

UTC    TELESCOPE                CASELLA OUT   CASELLA IN    SEEING
       AZ   EL  Focus  TComp    Temp   Humid  Temp   Humid  Det./TV  Comments

DARK HOURS:            09:30
DOME OPEN (UTC):       19:00
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):    00:00
DK HRS LOST (OTHER):  00:00

COMMENTS:
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Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
153365	Focus run	9:57:26.00	-00:16:01.0	J2000.00	1.543	179.8	20:45:18.7	10.1	B	Kitt Peak	1	1 x 1	Std field
153366	Focus run	9:57:26.00	-00:16:01.0	J2000.00	1.543	179.8	20:45:18.7	10.1	B	Kitt Peak	5	1 x 1	
153367	Focus run	9:57:26.00	-00:16:01.0	J2000.00	1.543	179.8	20:45:18.7	10.1	B	Kitt Peak	3	1 x 1	
153368	Focus run	9:57:26.00	-00:16:01.0	J2000.00	1.543	179.8	20:45:18.7	10.1	B	Kitt Peak	4	1 x 1	

153369	wfsngc006	10:09:59.99	-00:00:00.1	J2000.00	1.527	179.8	20:52:19.0	749.2	B	Kitt Peak	1	1 x 1
153370	wfsngc006	10:09:59.99	-00:00:00.1	J2000.00	1.527	179.8	20:52:19.0	749.2	B	Kitt Peak	5	1 x 1
153371	wfsngc006	10:09:59.99	-00:00:00.1	J2000.00	1.527	179.8	20:52:19.0	749.2	B	Kitt Peak	3	1 x 1
153372	wfsngc006	10:09:59.99	-00:00:00.1	J2000.00	1.527	179.8	20:52:19.0	749.2	B	Kitt Peak	4	1 x 1
153373	wfsngc007	10:12:00.00	-00:00:00.1	J2000.00	1.446	179.8	21:09:14.9	749.4	B	Kitt Peak	1	1 x 1
153374	wfsngc007	10:12:00.00	-00:00:00.1	J2000.00	1.446	179.8	21:09:14.9	749.4	B	Kitt Peak	5	1 x 1
153375	wfsngc007	10:12:00.00	-00:00:00.1	J2000.00	1.446	179.8	21:09:14.9	749.4	B	Kitt Peak	3	1 x 1
153376	wfsngc007	10:12:00.00	-00:00:00.1	J2000.00	1.446	179.8	21:09:14.9	749.4	B	Kitt Peak	4	1 x 1
153377	wfsngc008 B	10:13:59.99	+00:00:00.0	J2000.00	1.377	179.8	21:26:35.6	749.4	B	Kitt Peak	1	1 x 1
153378	wfsngc008 B	10:13:59.99	+00:00:00.0	J2000.00	1.377	179.8	21:26:35.6	749.4	B	Kitt Peak	5	1 x 1
153379	wfsngc008 B	10:13:59.99	+00:00:00.0	J2000.00	1.377	179.8	21:26:35.6	749.4	B	Kitt Peak	3	1 x 1
153380	wfsngc008 B	10:13:59.99	+00:00:00.0	J2000.00	1.377	179.8	21:26:35.6	749.4	B	Kitt Peak	4	1 x 1
153381	wfsngc009 B	10:16:00.00	-00:00:00.1	J2000.00	1.321	179.8	21:43:36.6	749.4	B	Kitt Peak	1	1 x 1
153382	wfsngc009 B	10:16:00.00	-00:00:00.1	J2000.00	1.321	179.8	21:43:36.6	749.4	B	Kitt Peak	5	1 x 1
153383	wfsngc009 B	10:16:00.00	-00:00:00.1	J2000.00	1.321	179.8	21:43:36.6	749.4	B	Kitt Peak	3	1 x 1
153384	wfsngc009 B	10:16:00.00	-00:00:00.1	J2000.00	1.321	179.8	21:43:36.6	749.4	B	Kitt Peak	4	1 x 1
153385	wfsngc010 B	10:18:00.00	+00:00:00.0	J2000.00	1.275	179.8	22:00:47.2	749.3	B	Kitt Peak	1	1 x 1
153386	wfsngc010 B	10:18:00.00	+00:00:00.0	J2000.00	1.275	179.8	22:00:47.2	749.3	B	Kitt Peak	5	1 x 1
153387	wfsngc010 B	10:18:00.00	+00:00:00.0	J2000.00	1.275	179.8	22:00:47.2	749.3	B	Kitt Peak	3	1 x 1
153388	wfsngc010 B	10:18:00.00	+00:00:00.0	J2000.00	1.275	179.8	22:00:47.2	749.3	B	Kitt Peak	4	1 x 1
153389	sa101-427	9:57:25.99	-00:17:16.0	J2000.00	1.209	179.8	22:16:49.6	10.1	B	Kitt Peak	1	1 x 1
153390	sa101-427	9:57:25.99	-00:17:16.0	J2000.00	1.209	179.8	22:16:49.6	10.1	B	Kitt Peak	5	1 x 1
153391	sa101-427	9:57:25.99	-00:17:16.0	J2000.00	1.209	179.8	22:16:49.6	10.1	B	Kitt Peak	3	1 x 1
153392	sa101-427	9:57:25.99	-00:17:16.0	J2000.00	1.209	179.8	22:16:49.6	10.1	B	Kitt Peak	4	1 x 1
153393	sa101-427	9:57:26.00	-00:17:15.9	J2000.00	1.203	179.8	22:19:57.9	10.1	V	Harris	1	1 x 1
153394	sa101-427	9:57:26.00	-00:17:15.9	J2000.00	1.203	179.8	22:19:57.9	10.1	V	Harris	5	1 x 1
153395	sa101-427	9:57:26.00	-00:17:15.9	J2000.00	1.203	179.8	22:19:57.9	10.1	V	Harris	3	1 x 1
153396	sa101-427	9:57:26.00	-00:17:15.9	J2000.00	1.203	179.8	22:19:57.9	10.1	V	Harris	4	1 x 1
153397	sa101-427	9:57:25.99	-00:17:16.0	J2000.00	1.198	179.8	22:23:15.4	10.1	r	SLOAN	1	1 x 1
153398	sa101-427	9:57:25.99	-00:17:16.0	J2000.00	1.198	179.8	22:23:15.4	10.1	r	SLOAN	5	1 x 1
153399	sa101-427	9:57:25.99	-00:17:16.0	J2000.00	1.198	179.8	22:23:15.4	10.1	r	SLOAN	3	1 x 1
153400	sa101-427	9:57:25.99	-00:17:16.0	J2000.00	1.198	179.8	22:23:15.4	10.1	r	SLOAN	4	1 x 1
153401	sa101-427	9:57:26.00	-00:17:16.0	J2000.00	1.193	179.8	22:26:26.2	10.1	i	Sloan	1	1 x 1
153402	sa101-427	9:57:26.00	-00:17:16.0	J2000.00	1.193	179.8	22:26:26.2	10.1	i	Sloan	5	1 x 1
153403	sa101-427	9:57:26.00	-00:17:16.0	J2000.00	1.193	179.8	22:26:26.2	10.1	i	Sloan	3	1 x 1
153404	sa101-427	9:57:26.00	-00:17:16.0	J2000.00	1.193	179.8	22:26:26.2	10.1	i	Sloan	4	1 x 1
153409	wfsngc021 B	10:40:00.00	+00:00:00.0	J2000.00	1.245	179.8	22:34:25.6	749.2	B	Kitt Peak	1	1 x 1
153410	wfsngc021 B	10:40:00.00	+00:00:00.0	J2000.00	1.245	179.8	22:34:25.6	749.2	B	Kitt Peak	5	1 x 1
153411	wfsngc021 B	10:40:00.00	+00:00:00.0	J2000.00	1.245	179.8	22:34:25.6	749.2	B	Kitt Peak	3	1 x 1
153412	wfsngc021 B	10:40:00.00	+00:00:00.0	J2000.00	1.245	179.8	22:34:25.6	749.2	B	Kitt Peak	4	1 x 1
153413	wfsngc022 B	10:42:00.00	-00:00:00.0	J2000.00	1.213	179.8	22:51:19.6	749.4	B	Kitt Peak	1	1 x 1
153414	wfsngc022 B	10:42:00.00	-00:00:00.0	J2000.00	1.213	179.8	22:51:19.6	749.4	B	Kitt Peak	5	1 x 1
153415	wfsngc022 B	10:42:00.00	-00:00:00.0	J2000.00	1.213	179.8	22:51:19.6	749.4	B	Kitt Peak	3	1 x 1
153416	wfsngc022 B	10:42:00.00	-00:00:00.0	J2000.00	1.213	179.8	22:51:19.6	749.4	B	Kitt Peak	4	1 x 1
153417	wfsngc023 B	10:44:00.00	-00:00:00.0	J2000.00	1.187	179.8	23:08:08.6	748.9	B	Kitt Peak	1	1 x 1
153418	wfsngc023 B	10:44:00.00	-00:00:00.0	J2000.00	1.187	179.8	23:08:08.6	748.9	B	Kitt Peak	5	1 x 1
153419	wfsngc023 B	10:44:00.00	-00:00:00.0	J2000.00	1.187	179.8	23:08:08.6	748.9	B	Kitt Peak	3	1 x 1
153420	wfsngc023 B	10:44:00.00	-00:00:00.0	J2000.00	1.187	179.8	23:08:08.6	748.9	B	Kitt Peak	4	1 x 1
153421	wfsngc024 B	10:46:00.00	-00:00:00.0	J2000.00	1.165	179.8	23:28:07.6	749.4	B	Kitt Peak	1	1 x 1
153422	wfsngc024 B	10:46:00.00	-00:00:00.0	J2000.00	1.165	179.8	23:28:07.6	749.4	B	Kitt Peak	5	1 x 1
153423	wfsngc024 B	10:46:00.00	-00:00:00.0	J2000.00	1.165	179.8	23:28:07.6	749.4	B	Kitt Peak	3	1 x 1
153424	wfsngc024 B	10:46:00.00	-00:00:00.0	J2000.00	1.165	179.8	23:28:07.6	749.4	B	Kitt Peak	4	1 x 1
153425	wfsngc025 B	10:48:00.00	+00:00:00.0	J2000.00	1.151	179.8	23:45:03.5	749.4	B	Kitt Peak	1	1 x 1
153426	wfsngc025 B	10:48:00.00	+00:00:00.0	J2000.00	1.151	179.8	23:45:03.5	749.4	B	Kitt Peak	5	1 x 1
153427	wfsngc025 B	10:48:00.00	+00:00:00.0	J2000.00	1.151	179.8	23:45:03.5	749.4	B	Kitt Peak	3	1 x 1
153428	wfsngc025 B	10:48:00.00	+00:00:00.0	J2000.00	1.151	179.8	23:45:03.5	749.4	B	Kitt Peak	4	1 x 1
153429	wfsngc036 B	11:10:00.00	-00:00:00.0	J2000.00	1.155	179.8	00:02:52.7	749.4	B	Kitt Peak	1	1 x 1
153430	wfsngc036 B	11:10:00.00	-00:00:00.0	J2000.00	1.155	179.8	00:02:52.7	749.4	B	Kitt Peak	5	1 x 1
153431	wfsngc036 B	11:10:00.00	-00:00:00.0	J2000.00	1.155	179.8	00:02:52.7	749.4	B	Kitt Peak	3	1 x 1
153432	wfsngc036 B	11:10:00.00	-00:00:00.0	J2000.00	1.155	179.8	00:02:52.7	749.4	B	Kitt Peak	4	1 x 1
153433	wfsngc037 B	11:12:00.00	-00:00:00.3	J2000.00	1.145	179.8	00:19:44.8	749.5	B	Kitt Peak	1	1 x 1
153434	wfsngc037 B	11:12:00.00	-00:00:00.3	J2000.00	1.145	179.8	00:19:44.8	749.5	B	Kitt Peak	5	1 x 1

153435	wfsngc037 B	11:12:00.00	-00:00:00.3	J2000.00	1.145	179.8	00:19:44.8	749.5	B	Kitt Peak	3	1 x 1
153436	wfsngc037 B	11:12:00.00	-00:00:00.3	J2000.00	1.145	179.8	00:19:44.8	749.5	B	Kitt Peak	4	1 x 1
153437	wfsngc038 B	11:14:00.00	+00:00:00.1	J2000.00	1.141	179.8	00:36:40.5	749.3	B	Kitt Peak	1	1 x 1
153438	wfsngc038 B	11:14:00.00	+00:00:00.1	J2000.00	1.141	179.8	00:36:40.5	749.3	B	Kitt Peak	5	1 x 1
153439	wfsngc038 B	11:14:00.00	+00:00:00.1	J2000.00	1.141	179.8	00:36:40.5	749.3	B	Kitt Peak	3	1 x 1
153440	wfsngc038 B	11:14:00.00	+00:00:00.1	J2000.00	1.141	179.8	00:36:40.5	749.3	B	Kitt Peak	4	1 x 1
153441	wfsngc039 B	11:16:00.00	-00:00:00.0	J2000.00	1.141	179.8	00:53:40.0	749.2	B	Kitt Peak	1	1 x 1
153442	wfsngc039 B	11:16:00.00	-00:00:00.0	J2000.00	1.141	179.8	00:53:40.0	749.2	B	Kitt Peak	5	1 x 1
153443	wfsngc039 B	11:16:00.00	-00:00:00.0	J2000.00	1.141	179.8	00:53:40.0	749.2	B	Kitt Peak	3	1 x 1
153444	wfsngc039 B	11:16:00.00	-00:00:00.0	J2000.00	1.141	179.8	00:53:40.0	749.2	B	Kitt Peak	4	1 x 1
153445	wfsngc040 B	11:17:59.99	-00:00:00.1	J2000.00	1.147	179.8	01:10:35.7	748.7	B	Kitt Peak	1	1 x 1
153446	wfsngc040 B	11:17:59.99	-00:00:00.1	J2000.00	1.147	179.8	01:10:35.7	748.7	B	Kitt Peak	5	1 x 1
153447	wfsngc040 B	11:17:59.99	-00:00:00.1	J2000.00	1.147	179.8	01:10:35.7	748.7	B	Kitt Peak	3	1 x 1
153448	wfsngc040 B	11:17:59.99	-00:00:00.1	J2000.00	1.147	179.8	01:10:35.7	748.7	B	Kitt Peak	4	1 x 1
153449	hpm1	12:28:44.59	-07:21:38.0	B1950.00	1.257	179.8	01:29:06.8	299.8	B	Kitt Peak	1	1 x 1
153450	hpm1	12:28:44.59	-07:21:38.0	B1950.00	1.257	179.8	01:29:06.8	299.8	B	Kitt Peak	5	1 x 1
153451	hpm1	12:28:44.59	-07:21:38.0	B1950.00	1.257	179.8	01:29:06.8	299.8	B	Kitt Peak	3	1 x 1
153452	hpm1	12:28:44.59	-07:21:38.0	B1950.00	1.257	179.8	01:29:06.8	299.8	B	Kitt Peak	4	1 x 1
153453	sa104-334	12:42:21.00	-00:40:28.0	J2000.00	1.165	179.8	01:38:04.7	10.1	B	Kitt Peak	1	1 x 1
153454	sa104-334	12:42:21.00	-00:40:28.0	J2000.00	1.165	179.8	01:38:04.7	10.1	B	Kitt Peak	5	1 x 1
153455	sa104-334	12:42:21.00	-00:40:28.0	J2000.00	1.165	179.8	01:38:04.7	10.1	B	Kitt Peak	3	1 x 1
153456	sa104-334	12:42:21.00	-00:40:28.0	J2000.00	1.165	179.8	01:38:04.7	10.1	B	Kitt Peak	4	1 x 1
153457	sa104-334	12:42:21.00	-00:40:27.9	J2000.00	1.162	179.8	01:41:12.3	10.1	r	SLOAN	1	1 x 1
153458	sa104-334	12:42:21.00	-00:40:27.9	J2000.00	1.162	179.8	01:41:12.3	10.1	r	SLOAN	5	1 x 1
153459	sa104-334	12:42:21.00	-00:40:27.9	J2000.00	1.162	179.8	01:41:12.3	10.1	r	SLOAN	3	1 x 1
153460	sa104-334	12:42:21.00	-00:40:27.9	J2000.00	1.162	179.8	01:41:12.3	10.1	r	SLOAN	4	1 x 1
153465	wfsngc086 r	12:50:00.00	-00:00:00.0	J2000.00	1.149	179.8	01:52:07.5	598.4	r	SLOAN	1	1 x 1
153466	wfsngc086 r	12:50:00.00	-00:00:00.0	J2000.00	1.149	179.8	01:52:07.5	598.4	r	SLOAN	5	1 x 1
153467	wfsngc086 r	12:50:00.00	-00:00:00.0	J2000.00	1.149	179.8	01:52:07.5	598.4	r	SLOAN	3	1 x 1
153468	wfsngc086 r	12:50:00.00	-00:00:00.0	J2000.00	1.149	179.8	01:52:07.5	598.4	r	SLOAN	4	1 x 1
153469	wfsngc087 r	12:52:00.00	-00:00:00.0	J2000.00	1.142	179.8	02:08:16.2	599.4	r	SLOAN	1	1 x 1
153470	wfsngc087 r	12:52:00.00	-00:00:00.0	J2000.00	1.142	179.8	02:08:16.2	599.4	r	SLOAN	5	1 x 1
153471	wfsngc087 r	12:52:00.00	-00:00:00.0	J2000.00	1.142	179.8	02:08:16.2	599.4	r	SLOAN	3	1 x 1
153472	wfsngc087 r	12:52:00.00	-00:00:00.0	J2000.00	1.142	179.8	02:08:16.2	599.4	r	SLOAN	4	1 x 1
153473	wfsngc088 r	12:54:00.00	-00:00:00.0	J2000.00	1.140	179.8	02:22:48.2	599.5	r	SLOAN	1	1 x 1
153474	wfsngc088 r	12:54:00.00	-00:00:00.0	J2000.00	1.140	179.8	02:22:48.2	599.5	r	SLOAN	5	1 x 1
153475	wfsngc088 r	12:54:00.00	-00:00:00.0	J2000.00	1.140	179.8	02:22:48.2	599.5	r	SLOAN	3	1 x 1
153476	wfsngc088 r	12:54:00.00	-00:00:00.0	J2000.00	1.140	179.8	02:22:48.2	599.5	r	SLOAN	4	1 x 1
153477	wfsngc089 r	12:56:00.00	-00:00:00.1	J2000.00	1.142	179.8	02:37:15.2	599.5	r	SLOAN	1	1 x 1
153478	wfsngc089 r	12:56:00.00	-00:00:00.1	J2000.00	1.142	179.8	02:37:15.2	599.5	r	SLOAN	5	1 x 1
153479	wfsngc089 r	12:56:00.00	-00:00:00.1	J2000.00	1.142	179.8	02:37:15.2	599.5	r	SLOAN	3	1 x 1
153480	wfsngc089 r	12:56:00.00	-00:00:00.1	J2000.00	1.142	179.8	02:37:15.2	599.5	r	SLOAN	4	1 x 1
153481	wfsngc090 r	12:58:00.00	-00:00:00.0	J2000.00	1.147	179.8	02:51:39.9	599.5	r	SLOAN	1	1 x 1
153482	wfsngc090 r	12:58:00.00	-00:00:00.0	J2000.00	1.147	179.8	02:51:39.9	599.5	r	SLOAN	5	1 x 1
153483	wfsngc090 r	12:58:00.00	-00:00:00.0	J2000.00	1.147	179.8	02:51:39.9	599.5	r	SLOAN	3	1 x 1
153484	wfsngc090 r	12:58:00.00	-00:00:00.0	J2000.00	1.147	179.8	02:51:39.9	599.5	r	SLOAN	4	1 x 1
153485	wfsngc101 r	13:19:59.99	-00:00:00.1	J2000.00	1.144	179.8	03:07:55.9	599.5	r	SLOAN	1	1 x 1
153486	wfsngc101 r	13:19:59.99	-00:00:00.1	J2000.00	1.144	179.8	03:07:55.9	599.5	r	SLOAN	5	1 x 1
153487	wfsngc101 r	13:19:59.99	-00:00:00.1	J2000.00	1.144	179.8	03:07:55.9	599.5	r	SLOAN	3	1 x 1
153488	wfsngc101 r	13:19:59.99	-00:00:00.1	J2000.00	1.144	179.8	03:07:55.9	599.5	r	SLOAN	4	1 x 1
153489	wfsngc102 r	13:22:00.00	-00:00:00.0	J2000.00	1.151	179.8	03:22:24.0	599.3	r	SLOAN	1	1 x 1
153490	wfsngc102 r	13:22:00.00	-00:00:00.0	J2000.00	1.151	179.8	03:22:24.0	599.3	r	SLOAN	5	1 x 1
153491	wfsngc102 r	13:22:00.00	-00:00:00.0	J2000.00	1.151	179.8	03:22:24.0	599.3	r	SLOAN	3	1 x 1
153492	wfsngc102 r	13:22:00.00	-00:00:00.0	J2000.00	1.151	179.8	03:22:24.0	599.3	r	SLOAN	4	1 x 1
153493	wfsngc103 r	13:24:00.00	-00:00:00.1	J2000.00	1.161	179.8	03:36:51.0	599.4	r	SLOAN	1	1 x 1
153494	wfsngc103 r	13:24:00.00	-00:00:00.1	J2000.00	1.161	179.8	03:36:51.0	599.4	r	SLOAN	5	1 x 1
153495	wfsngc103 r	13:24:00.00	-00:00:00.1	J2000.00	1.161	179.8	03:36:51.0	599.4	r	SLOAN	3	1 x 1
153496	wfsngc103 r	13:24:00.00	-00:00:00.1	J2000.00	1.161	179.8	03:36:51.0	599.4	r	SLOAN	4	1 x 1
153497	wfsngc104 r	13:25:59.99	-00:00:00.1	J2000.00	1.175	179.8	03:51:19.1	599.5	r	SLOAN	1	1 x 1
153498	wfsngc104 r	13:25:59.99	-00:00:00.1	J2000.00	1.175	179.8	03:51:19.1	599.5	r	SLOAN	5	1 x 1
153499	wfsngc104 r	13:25:59.99	-00:00:00.1	J2000.00	1.175	179.8	03:51:19.1	599.5	r	SLOAN	3	1 x 1
153500	wfsngc104 r	13:25:59.99	-00:00:00.1	J2000.00	1.175	179.8	03:51:19.1	599.5	r	SLOAN	4	1 x 1

153501	wfsngc105 r	13:28:00.00	-00:00:00.1	J2000.00	1.193	179.8	04:05:44.9	599.5	r	SLOAN	1	1 x 1		
153502	wfsngc105 r	13:28:00.00	-00:00:00.1	J2000.00	1.193	179.8	04:05:44.9	599.5	r	SLOAN	5	1 x 1		
153503	wfsngc105 r	13:28:00.00	-00:00:00.1	J2000.00	1.193	179.8	04:05:44.9	599.5	r	SLOAN	3	1 x 1		
153504	wfsngc105 r	13:28:00.00	-00:00:00.1	J2000.00	1.193	179.8	04:05:44.9	599.5	r	SLOAN	4	1 x 1		
153505	wfsngc101 r	13:20:00.00	+00:00:00.0	J2000.00	1.237	179.8	04:20:33.3	599.5	r	SLOAN	1	1 x 1	Repeat of	
153506	wfsngc101 r	13:20:00.00	+00:00:00.0	J2000.00	1.237	179.8	04:20:33.3	599.5	r	SLOAN	5	1 x 1	earlier	
153507	wfsngc101 r	13:20:00.00	+00:00:00.0	J2000.00	1.237	179.8	04:20:33.3	599.5	r	SLOAN	3	1 x 1	fields	
153508	wfsngc101 r	13:20:00.00	+00:00:00.0	J2000.00	1.237	179.8	04:20:33.3	599.5	r	SLOAN	4	1 x 1	by mistake	
153509	wfsngc102 r	13:21:59.99	+00:00:00.0	J2000.00	1.268	179.8	04:35:01.9	599.6	r	SLOAN	1	1 x 1		
153510	wfsngc102 r	13:21:59.99	+00:00:00.0	J2000.00	1.268	179.8	04:35:01.9	599.6	r	SLOAN	5	1 x 1	use for KB	
153511	wfsngc102 r	13:21:59.99	+00:00:00.0	J2000.00	1.268	179.8	04:35:01.9	599.6	r	SLOAN	3	1 x 1	studies ?	
153512	wfsngc102 r	13:21:59.99	+00:00:00.0	J2000.00	1.268	179.8	04:35:01.9	599.6	r	SLOAN	4	1 x 1		
153513	wfsngc116 r	13:49:59.99	-00:00:00.1	J2000.00	1.239	179.8	04:51:11.7	599.5	r	SLOAN	1	1 x 1		
153514	wfsngc116 r	13:49:59.99	-00:00:00.1	J2000.00	1.239	179.8	04:51:11.7	599.5	r	SLOAN	5	1 x 1		
153515	wfsngc116 r	13:49:59.99	-00:00:00.1	J2000.00	1.239	179.8	04:51:11.7	599.5	r	SLOAN	3	1 x 1		
153516	wfsngc116 r	13:49:59.99	-00:00:00.1	J2000.00	1.239	179.8	04:51:11.7	599.5	r	SLOAN	4	1 x 1		
153517	wfsngc117 r	13:52:00.00	+00:00:00.0	J2000.00	1.270	179.8	05:05:36.6	598.9	r	SLOAN	1	1 x 1		
153518	wfsngc117 r	13:52:00.00	+00:00:00.0	J2000.00	1.270	179.8	05:05:36.6	598.9	r	SLOAN	5	1 x 1		
153519	wfsngc117 r	13:52:00.00	+00:00:00.0	J2000.00	1.270	179.8	05:05:36.6	598.9	r	SLOAN	3	1 x 1		
153520	wfsngc117 r	13:52:00.00	+00:00:00.0	J2000.00	1.270	179.8	05:05:36.6	598.9	r	SLOAN	4	1 x 1		
153521	wfsngc118 r	13:53:59.99	-00:00:00.0	J2000.00	1.306	179.8	05:19:58.8	599.5	r	SLOAN	1	1 x 1		
153522	wfsngc118 r	13:53:59.99	-00:00:00.0	J2000.00	1.306	179.8	05:19:58.8	599.5	r	SLOAN	5	1 x 1		
153523	wfsngc118 r	13:53:59.99	-00:00:00.0	J2000.00	1.306	179.8	05:19:58.8	599.5	r	SLOAN	3	1 x 1		
153524	wfsngc118 r	13:53:59.99	-00:00:00.0	J2000.00	1.306	179.8	05:19:58.8	599.5	r	SLOAN	4	1 x 1		
153525	wfsngc119 r	13:56:00.00	+00:00:00.0	J2000.00	1.349	179.8	05:34:25.9	599.5	r	SLOAN	1	1 x 1		
153526	wfsngc119 r	13:56:00.00	+00:00:00.0	J2000.00	1.349	179.8	05:34:25.9	599.5	r	SLOAN	5	1 x 1		
153527	wfsngc119 r	13:56:00.00	+00:00:00.0	J2000.00	1.349	179.8	05:34:25.9	599.5	r	SLOAN	3	1 x 1		
153528	wfsngc119 r	13:56:00.00	+00:00:00.0	J2000.00	1.349	179.8	05:34:25.9	599.5	r	SLOAN	4	1 x 1		
153529	wfsngc120 r	13:58:00.00	+00:00:00.0	J2000.00	1.399	179.8	05:48:50.6	599.0	r	SLOAN	1	1 x 1		
153530	wfsngc120 r	13:58:00.00	+00:00:00.0	J2000.00	1.399	179.8	05:48:50.6	599.0	r	SLOAN	5	1 x 1		
153531	wfsngc120 r	13:58:00.00	+00:00:00.0	J2000.00	1.399	179.8	05:48:50.6	599.0	r	SLOAN	3	1 x 1		
153532	wfsngc120 r	13:58:00.00	+00:00:00.0	J2000.00	1.399	179.8	05:48:50.6	599.0	r	SLOAN	4	1 x 1		
153533	wfsngc131	14:20:00.00	+00:00:00.0	J2000.00	1.373	179.8	06:04:28.9	599.4	r	SLOAN	1	1 x 1		
153534	wfsngc131	14:20:00.00	+00:00:00.0	J2000.00	1.373	179.8	06:04:28.9	599.4	r	SLOAN	5	1 x 1		
153535	wfsngc131	14:20:00.00	+00:00:00.0	J2000.00	1.373	179.8	06:04:28.9	599.4	r	SLOAN	3	1 x 1		
153536	wfsngc131	14:20:00.00	+00:00:00.0	J2000.00	1.373	179.8	06:04:28.9	599.4	r	SLOAN	4	1 x 1		
153537	wfsngc132	14:22:00.00	-00:00:00.0	J2000.00	1.430	179.8	06:19:26.6	599.3	r	SLOAN	1	1 x 1		
153538	wfsngc132	14:22:00.00	-00:00:00.0	J2000.00	1.430	179.8	06:19:26.6	599.3	r	SLOAN	5	1 x 1		
153539	wfsngc132	14:22:00.00	-00:00:00.0	J2000.00	1.430	179.8	06:19:26.6	599.3	r	SLOAN	3	1 x 1		
153540	wfsngc132	14:22:00.00	-00:00:00.0	J2000.00	1.430	179.8	06:19:26.6	599.3	r	SLOAN	4	1 x 1		
153541	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.218	179.8	06:33:46.0	10.1	r	SLOAN	1	1 x 1		
153542	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.218	179.8	06:33:46.0	10.1	r	SLOAN	5	1 x 1		
153543	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.218	179.8	06:33:46.0	10.1	r	SLOAN	3	1 x 1		
153544	sa107-602	15:39:19.00	-00:15:29.0	J2000.00	1.218	179.8	06:33:46.0	10.1	r	SLOAN	4	1 x 1		
153545	sa107-602	15:39:18.99	-00:15:29.0	J2000.00	1.224	179.8	06:36:51.0	10.1	B	Kitt Peak	1	1 x 1		
153546	sa107-602	15:39:18.99	-00:15:29.0	J2000.00	1.224	179.8	06:36:51.0	10.1	B	Kitt Peak	5	1 x 1		
153547	sa107-602	15:39:18.99	-00:15:29.0	J2000.00	1.224	179.8	06:36:51.0	10.1	B	Kitt Peak	3	1 x 1		
153548	sa107-602	15:39:18.99	-00:15:29.0	J2000.00	1.224	179.8	06:36:51.0	10.1	B	Kitt Peak	4	1 x 1		
153549	Flat field	20:09:59.99	+25:00:00.0	J2000.00	1.310	179.8	06:42:27.2	40.1	B	Kitt Peak	1	1 x 1		
153550	Flat field	20:09:59.99	+25:00:00.0	J2000.00	1.310	179.8	06:42:27.2	40.1	B	Kitt Peak	5	1 x 1		
153551	Flat field	20:09:59.99	+25:00:00.0	J2000.00	1.310	179.8	06:42:27.2	40.1	B	Kitt Peak	3	1 x 1		
153552	Flat field	20:09:59.99	+25:00:00.0	J2000.00	1.310	179.8	06:42:27.2	40.1	B	Kitt Peak	4	1 x 1		
153553	Flat field	20:10:02.20	+25:00:30.0	J2000.00	1.296	179.8	06:46:08.3	20.1	B	Kitt Peak	1	1 x 1		
153554	Flat field	20:10:02.20	+25:00:30.0	J2000.00	1.296	179.8	06:46:08.3	20.1	B	Kitt Peak	5	1 x 1		
153555	Flat field	20:10:02.20	+25:00:30.0	J2000.00	1.296	179.8	06:46:08.3	20.1	B	Kitt Peak	3	1 x 1		
153556	Flat field	20:10:02.20	+25:00:30.0	J2000.00	1.296	179.8	06:46:08.3	20.1	B	Kitt Peak	4	1 x 1		
153557	Flat field	20:10:02.20	+24:59:29.9	J2000.00	1.283	179.8	06:49:26.5	10.1	B	Kitt Peak	1	1 x 1		
153558	Flat field	20:10:02.20	+24:59:29.9	J2000.00	1.283	179.8	06:49:26.5	10.1	B	Kitt Peak	5	1 x 1		
153559	Flat field	20:10:02.20	+24:59:29.9	J2000.00	1.283	179.8	06:49:26.5	10.1	B	Kitt Peak	3	1 x 1		
153560	Flat field	20:10:02.20	+24:59:29.9	J2000.00	1.283	179.8	06:49:26.5	10.1	B	Kitt Peak	4	1 x 1		