```
INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

TELESCOPE:             INT
DATE:                  19991210
TAPE NR:               INTD4246
OBSERVER:              Jasper Wall, Chris Blake
PROGRAMME:             INT WFC Survey
PATT/CAT REF.:         WFS10
TELESCOPE OPERATOR:    none
SUPPORT ASTRONOMER:    none

TELESCOPE FOCUS:       46.05 mm
CALIBRATE RESULTS:     not specified

INSTRUMENT:            WFC

WFC FILTER WHEEL:      i,KPB,Z,R,V,r

WEATHER:               (1st half) GOOD
                       (2nd half) GOOD
CLOUD COVER (%):       (1st half)
                       (2nd half)
DUST (0-2):            (1st half) 0
                       (2nd half) 0
SEEING (arcsec):       (1st half) 1.1
                       (2nd half) 1.2

DOME OPENED (UT):      18:20

TEMPERATURE, HUMIDITY and WIND:
   UT   Temp  Hum%  Wspd  Wdir
19:00    6.8     9     8    50
20:00    7.1     9    10   105
21:00    7.3    10    11    23
22:00    6.8    19    13    66
23:00    6.8    17     9    82
00:00    6.5    18    17   109
01:00    7.4    14    11    39
02:00    6.9    14    18    59
03:00    6.4    15     8    70
04:00    6.4    14    16   126
05:00    6.1    15    14   112
06:00    6.0    15    17    86
07:00    5.3    23     8    94

SUNSET(UT)             18:23
EVENING TWILIGHT(UT)   19:39
MORNING TWILIGHT(UT)   06:30
SUNRISE(UT)            07:46
MOON'S QUARTER (1-4)   1
DISK % OF ILLUM.       8
DARK TIME              10:51
TWILIGHT TIME          02:32
MOONRISE(UT)           No moonrise within sunset-sunrise
MOONSET(UT)            20:40

TIME LOST(WEATHER):    00:00
TIME LOST(TECHNICAL):  01:15
TIME LOST(OTHER):      00:00

COMMENTS:
  Some time lost due to difficulties in telescope pointing when
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acquiring guide stars.

Run no.	Object name	RA	Dec.	Equinox	AM	PA	UT	Exp. T.	Filter	Psys	Channel	Binning	Comments
203321	Bias	0:00:00.00	+00:00:00.0	A	1.533	180.1	14:27:13.0	0.0	z	Gunn			
203322	Lights On	19:00:00.00	-10:00:00.0	A	1.289	180.1	14:32:09.8	5.1	z	Gunn			
203323	Exposure time test	18:59:59.99	-10:00:00.0	A	1.287	180.1	14:35:41.5	8.4	z	Gunn			
203324	another exp test	19:00:00.00	-10:00:00.0	A	1.283	360.0	14:47:03.5	12.2	z	Gunn			
203326	Flat field	23:54:08.90	+59:28:17.9	B1950.00	1.197	180.0	18:38:58.4	1.1	B	Kitt Peak			
203327	Flat field	11:57:04.45	+29:44:09.0	B1950.00	1.195	180.0	18:40:48.6	3.0	B	Kitt Peak			
203328	Flat field	23:54:09.55	+59:28:18.1	B1950.00	1.194	180.0	18:42:09.7	3.9	B	Kitt Peak			
203329	Flat field	23:54:09.55	+59:28:17.9	B1950.00	1.193	180.0	18:43:31.6	11.2	V	Harris			
203330	Flat field	23:54:10.21	+59:28:18.0	B1950.00	1.192	180.0	18:45:00.9	33.5	V	Harris			
203331	Flat field	23:54:10.20	+59:28:17.9	B1950.00	1.190	180.0	18:46:57.4	28.2	R	Harris			
203332	Flat field	23:54:10.89	+59:28:18.1	B1950.00	1.189	180.0	18:48:45.0	44.0	r	Sloan			
203333	Flat field	23:54:10.87	+59:28:17.9	B1950.00	1.187	180.0	18:50:60.0	86.2	i	Sloan			
203334	Flat field	23:54:11.50	+59:28:18.1	B1950.00	1.185	180.0	18:53:43.9	146.5	i	Sloan			
203335	Flat i	23:54:11.52	+59:28:18.0	B1950.00	1.181	180.0	18:58:00.6	299.7	z	Gunn			
203336	Focus run	0:55:26.00	+00:53:19.0	J2000.00	1.232	180.0	19:17:46.6	10.1	R	Harris			
203337	SA92_R	0:55:26.00	+00:55:49.0	J2000.00	1.204	180.0	19:29:17.7	20.1	R	Harris			
203338	SA92_V	0:55:25.99	+00:55:49.0	J2000.00	1.202	180.0	19:30:46.1	20.1	V	Harris			
203339	SA92_i	0:55:25.99	+00:55:49.0	J2000.00	1.199	180.0	19:32:20.3	20.1	i	Sloan			
203340	SA92_r	0:55:26.00	+00:55:49.0	J2000.00	1.196	180.0	19:33:48.6	20.1	r	Sloan			
203341	SA92_B	0:55:26.00	+00:55:49.0	J2000.00	1.193	180.0	19:35:27.6	19.6	B	Kitt Peak			
203342	SA92_z	0:55:26.00	+00:55:49.0	J2000.00	1.190	180.0	19:36:55.9	20.1	z	Gunn			
203343	M31-microfld1	0:43:59.99	+41:34:00.0	J2000.00	1.044	180.0	19:43:52.0	319.7	r	Sloan			
203344	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.040	180.0	19:50:14.3	319.7	r	Sloan			
203345	M31-microfld1	0:44:00.00	+41:34:00.0	J2000.00	1.036	180.0	19:56:56.9	319.8	i	Sloan			
203346	M31-microfld1	0:44:00.00	+41:33:59.9	J2000.00	1.033	180.0	20:03:29.5	319.7	i	Sloan			
203347	M31-microfld2	0:43:10.00	+40:58:14.9	J2000.00	1.027	180.0	20:12:20.4	319.8	r	Sloan			
203348	M31-microfld2	0:43:09.99	+40:58:15.0	J2000.00	1.025	180.0	20:18:40.9	319.8	r	Sloan			
203349	M31-microfld2	0:43:09.99	+40:58:14.9	J2000.00	1.024	180.0	20:25:21.6	319.7	i	Sloan			
203350	M31-microfld2	0:43:10.00	+40:58:15.0	J2000.00	1.023	180.0	20:31:43.6	319.2	i	Sloan			
203351	I040_B_4	0:16:40.30	+34:59:34.1	J2000.00	1.018	180.0	20:45:56.0	899.1	B	Kitt Peak			
203353	I040_B_5	0:16:40.31	+34:59:34.0	J2000.00	1.031	180.0	21:03:45.9	898.9	B	Kitt Peak			
203354	I040_B_6	0:16:40.30	+34:59:34.1	J2000.00	1.047	180.0	21:20:01.8	899.1	B	Kitt Peak			
203355	I040_i_1	0:16:40.31	+34:59:34.1	J2000.00	1.072	180.0	21:37:47.7	1099.0	i	Sloan			
203356	I040_i_2	0:16:40.30	+34:59:34.3	J2000.00	1.105	180.0	21:57:29.9	1098.9	i	Sloan			
203357	I040_i_3	0:16:40.31	+34:59:34.1	J2000.00	1.145	180.0	22:16:55.3	1098.9	i	Sloan			
203359	S04+00	3:44:30.50	-01:09:47.2	J2000.00	1.168	180.0	23:02:46.4	5.1	i	Sloan			
203360	S04+00	3:44:30.50	-01:09:47.2	J2000.00	1.161	180.0	23:12:35.0	5.1	i	Sloan			
203361	I002	0:12:43.23	+36:10:21.3	J2000.00	1.388	360.0	23:34:10.2	120.0	i	Sloan			
203363	I002_i_1	0:12:43.22	+36:10:21.3	J2000.00	1.501	360.0	23:47:21.4	1098.7	i	Sloan			
203364	I002_i_2	0:12:43.23	+36:10:21.4	J2000.00	1.629	360.0	00:07:01.8	1099.6	i	Sloan			
203365	I002_i_3	0:12:43.22	+36:10:21.3	J2000.00	1.788	360.0	00:26:37.1	1098.3	i	Sloan			
203366	H028_i_1	9:07:46.90	+41:47:10.0	J2000.00	1.557	360.0	00:50:35.4	1098.6	i	Sloan			
203367	H028_i_2	9:07:46.90	+41:47:10.1	J2000.00	1.448	360.0	01:10:32.4	1098.9	i	Sloan			
203368	H028_i_3	9:07:46.89	+41:47:10.0	J2000.00	1.361	360.0	01:29:56.9	1098.9	i	Sloan			
203370	H028_z_1	9:07:46.90	+41:47:10.1	J2000.00	1.298	360.0	01:50:36.4	599.4	z	Gunn			
203372	H028_R_1	9:07:46.89	+41:47:10.0	J2000.00	1.241	360.0	02:03:24.3	1198.6	R	Harris			
203373	H028_R_2	9:07:46.90	+41:47:10.1	J2000.00	1.184	360.0	02:25:02.3	1198.7	R	Harris			
203374	H028_R_3	9:07:46.90	+41:47:10.0	J2000.00	1.137	360.0	02:46:38.2	1198.9	R	Harris			
203376	H028_z_2	9:07:46.90	+41:47:10.0	J2000.00	1.105	360.0	03:09:50.8	599.6	z	Gunn			
203378	H028_V_1	9:07:46.90	+41:47:09.9	J2000.00	1.083	360.0	03:22:19.0	998.9	V	Harris			
203379	H028_V_2	9:07:46.90	+41:47:10.0	J2000.00	1.062	360.0	03:40:17.1	999.0	V	Harris			
203381	H028_V_3	9:07:46.90	+41:47:10.0	J2000.00	1.046	360.0	03:59:13.6	998.9	V	Harris			
203382	H028_B_1	9:07:46.90	+41:47:10.2	J2000.00	1.035	360.0	04:17:21.7	899.0	B	Kitt Peak			
203384	H028_B_2	9:07:46.90	+41:47:10.0	J2000.00	1.029	360.0	04:34:46.0	899.1	B	Kitt Peak			
203386	H028_B_3	9:07:46.90	+41:47:10.1	J2000.00	1.026	360.0	04:52:57.6	899.2	B	Kitt Peak			
203387	H053_B_1	9:08:05.72	+40:54:49.4	J2000.00	1.026	360.0	05:16:10.3	899.1	B	Kitt Peak			
203389	H053_B_test	9:08:09.95	+40:54:40.4	J2000.00	1.036	360.0	05:46:06.6	60.0	B	Kitt Peak			
203390	H053_B_2	9:08:09.95	+40:54:40.3	J2000.00	1.043	360.0	05:48:41.7	899.1	B	Kitt Peak			

203391	H053_B_3	9:08:09.95	+40:54:40.4	J2000.00	1.057	360.0	06:05:01.6	898.6	B	Kitt Peak
203392	H053_B_4	9:08:09.95	+40:54:40.3	J2000.00	1.075	360.0	06:21:22.2	899.2	B	Kitt Peak
203393	GAMMA	16:33:55.00	+46:26:19.9	J2000.00	2.557	360.0	06:39:57.5	299.3	R	Harris
203394	GAMMA	16:33:54.99	+46:26:19.9	J2000.00	2.458	360.0	06:46:02.6	299.8	i	Sloan
203395	Flat field	13:04:33.00	+29:50:48.9	B1950.00	1.088	360.0	07:12:44.6	97.8	i	Sloan
203396	Flat field	13:04:32.61	+29:50:49.0	B1950.00	1.083	360.0	07:15:49.6	52.9	i	Sloan
203397	Flat field	13:04:32.61	+29:50:49.0	B1950.00	1.080	360.0	07:18:09.6	32.6	R	Harris
203398	Flat field	13:04:32.23	+29:50:49.0	B1950.00	1.077	360.0	07:20:10.7	21.0	R	Harris
203399	Flat field	13:04:32.23	+29:50:49.0	B1950.00	1.073	360.0	07:22:25.2	19.9	V	Harris
203400	Flat field	13:04:31.84	+29:50:48.9	B1950.00	1.070	360.0	07:24:14.2	11.5	V	Harris
203401	Flat field	13:04:31.84	+29:50:48.9	B1950.00	1.068	360.0	07:25:52.3	18.1	z	Gunn
203402	Flat field	13:04:31.46	+29:50:48.9	B1950.00	1.065	360.0	07:27:38.4	10.4	z	Gunn
203403	BLANK2_B	13:04:31.46	+29:50:49.0	B1950.00	1.063	360.0	07:29:16.1	1.1	B	Kitt Peak
203404	BLANK2 _B	13:04:31.46	+29:50:49.0	B1950.00	1.061	360.0	07:30:34.6	1.2	B	Kitt Peak
203405	BLANK2 _B	13:04:31.07	+29:50:49.0	B1950.00	1.059	360.0	07:31:50.3	1.1	B	Kitt Peak
203406	BLANK2 _B	13:04:30.69	+29:50:49.0	B1950.00	1.058	360.0	07:32:58.0	1.2	B	Kitt Peak