INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:             INT
DATE:                  1999 Mar 17/18
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:               Poor weather all night - lot of cloud and bad seeing
OUTSIDE TEMP (deg C):    5.0      (FIRST HALF)
OUTSIDE TEMP (deg C):    4.0      (SECOND HALF)
HUMIDITY (%):           15       (FIRST HALF)
HUMIDITY (%):           20       (SECOND HALF)
CLOUD COVER (%):        25        (FIRST HALF)
CLOUD COVER (%):       100        (SECOND HALF)
DUST (0 - 2):            0        (FIRST HALF)
DUST (0 - 2):            0        (SECOND HALF)
SEEING (arcsec):        2.0        (FIRST HALF)
SEEING (arcsec):        3.0        (SECOND HALF)
AV. SEEING (arcsec):    2.5
NO. SEEING MEASURES:    5

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):05.00
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
153625	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	15:56:17.7	0.0	B	Kitt Peak	1	1 x 1	
153626	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	15:56:17.7	0.0	B	Kitt Peak	5	1 x 1	
153627	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	15:56:17.7	0.0	B	Kitt Peak	3	1 x 1	
153628	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	15:56:17.7	0.0	B	Kitt Peak	4	1 x 1	
153629	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	15:59:09.6	0.0	B	Kitt Peak	1	1 x 1	

153630	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	15:59:09.6	0.0	B	Kitt Peak	5	1 x 1	
153631	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	15:59:09.6	0.0	B	Kitt Peak	3	1 x 1	
153632	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	15:59:09.6	0.0	B	Kitt Peak	4	1 x 1	
153633	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:02:00.6	0.0	B	Kitt Peak	1	1 x 1	
153634	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:02:00.6	0.0	B	Kitt Peak	5	1 x 1	
153635	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:02:00.6	0.0	B	Kitt Peak	3	1 x 1	
153636	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:02:00.6	0.0	B	Kitt Peak	4	1 x 1	
153637	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:04:52.0	0.0	B	Kitt Peak	1	1 x 1	
153638	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:04:52.0	0.0	B	Kitt Peak	5	1 x 1	
153639	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:04:52.0	0.0	B	Kitt Peak	3	1 x 1	
153640	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:04:52.0	0.0	B	Kitt Peak	4	1 x 1	
153641	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:07:43.1	0.0	B	Kitt Peak	1	1 x 1	
153642	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:07:43.1	0.0	B	Kitt Peak	5	1 x 1	
153643	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:07:43.1	0.0	B	Kitt Peak	3	1 x 1	
153644	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:07:43.1	0.0	B	Kitt Peak	4	1 x 1	
153645	Flat field	3:30:00.00	+40:00:00.0	J2000.00	1.221	179.8	19:44:22.7	2.1	i	Sloan	1	1 x 1	
153646	Flat field	3:30:00.00	+40:00:00.0	J2000.00	1.221	179.8	19:44:22.7	2.1	i	Sloan	5	1 x 1	
153647	Flat field	3:30:00.00	+40:00:00.0	J2000.00	1.221	179.8	19:44:22.7	2.1	i	Sloan	3	1 x 1	
153648	Flat field	3:30:00.00	+40:00:00.0	J2000.00	1.221	179.8	19:44:22.7	2.1	i	Sloan	4	1 x 1	
153649	Flat field	3:30:02.61	+40:00:00.0	J2000.00	1.230	179.8	19:47:21.7	4.1	i	Sloan	1	1 x 1	
153650	Flat field	3:30:02.61	+40:00:00.0	J2000.00	1.230	179.8	19:47:21.7	4.1	i	Sloan	5	1 x 1	
153651	Flat field	3:30:02.61	+40:00:00.0	J2000.00	1.230	179.8	19:47:21.7	4.1	i	Sloan	3	1 x 1	
153652	Flat field	3:30:02.61	+40:00:00.0	J2000.00	1.230	179.8	19:47:21.7	4.1	i	Sloan	4	1 x 1	
153653	Flat field	3:30:02.61	+40:00:59.9	J2000.00	1.239	179.8	19:50:25.8	8.1	i	Sloan	1	1 x 1	
153654	Flat field	3:30:02.61	+40:00:59.9	J2000.00	1.239	179.8	19:50:25.8	8.1	i	Sloan	5	1 x 1	
153655	Flat field	3:30:02.61	+40:00:59.9	J2000.00	1.239	179.8	19:50:25.8	8.1	i	Sloan	3	1 x 1	
153656	Flat field	3:30:02.61	+40:00:59.9	J2000.00	1.239	179.8	19:50:25.8	8.1	i	Sloan	4	1 x 1	
153657	Flat field	3:30:05.24	+40:01:00.0	J2000.00	1.250	179.8	19:53:46.6	35.9	i	Sloan	1	1 x 1	
153658	Flat field	3:30:05.24	+40:01:00.0	J2000.00	1.250	179.8	19:53:46.6	35.9	i	Sloan	5	1 x 1	
153659	Flat field	3:30:05.24	+40:01:00.0	J2000.00	1.250	179.8	19:53:46.6	35.9	i	Sloan	3	1 x 1	
153660	Flat field	3:30:05.24	+40:01:00.0	J2000.00	1.250	179.8	19:53:46.6	35.9	i	Sloan	4	1 x 1	
153665	Focus run	6:52:12.00	-00:17:31.9	J2000.00	1.146	179.8	20:11:35.9	-10.3	B	Kitt Peak	1	1 x 1	MCA timer
153666	Focus run	6:52:12.00	-00:17:31.9	J2000.00	1.146	179.8	20:11:35.9	-10.3	B	Kitt Peak	5	1 x 1	FU'd
153667	Focus run	6:52:12.00	-00:17:31.9	J2000.00	1.146	179.8	20:11:35.9	-10.3	B	Kitt Peak	3	1 x 1	
153668	Focus run	6:52:12.00	-00:17:31.9	J2000.00	1.146	179.8	20:11:35.9	-10.3	B	Kitt Peak	4	1 x 1	probably
153669	sa98-670	6:52:12.00	-00:19:17.0	J2000.00	1.144	179.8	20:18:23.1	-10.3	B	Kitt Peak	1	1 x 1	correct
153670	sa98-670	6:52:12.00	-00:19:17.0	J2000.00	1.144	179.8	20:18:23.1	-10.3	B	Kitt Peak	5	1 x 1	timing
153671	sa98-670	6:52:12.00	-00:19:17.0	J2000.00	1.144	179.8	20:18:23.1	-10.3	B	Kitt Peak	3	1 x 1	but -ve
153672	sa98-670	6:52:12.00	-00:19:17.0	J2000.00	1.144	179.8	20:18:23.1	-10.3	B	Kitt Peak	4	1 x 1	
153673	SA98-670	6:52:12.00	-00:19:16.9	J2000.00	1.144	179.8	20:21:34.2	-10.3	r	SLOAN	1	1 x 1	
153674	SA98-670	6:52:12.00	-00:19:16.9	J2000.00	1.144	179.8	20:21:34.2	-10.3	r	SLOAN	5	1 x 1	
153675	SA98-670	6:52:12.00	-00:19:16.9	J2000.00	1.144	179.8	20:21:34.2	-10.3	r	SLOAN	3	1 x 1	
153676	SA98-670	6:52:12.00	-00:19:16.9	J2000.00	1.144	179.8	20:21:34.2	-10.3	r	SLOAN	4	1 x 1	
153677	wfsj0801+4019_022	8:00:23.69	+39:59:00.0	J2000.00	1.040	179.8	20:42:12.3	-599.8	i	Sloan	1	1 x 1	
153678	wfsj0801+4019_022	8:00:23.69	+39:59:00.0	J2000.00	1.040	179.8	20:42:12.3	-599.8	i	Sloan	5	1 x 1	
153679	wfsj0801+4019_022	8:00:23.69	+39:59:00.0	J2000.00	1.040	179.8	20:42:12.3	-599.8	i	Sloan	3	1 x 1	
153680	wfsj0801+4019_022	8:00:23.69	+39:59:00.0	J2000.00	1.040	179.8	20:42:12.3	-599.8	i	Sloan	4	1 x 1	
153681	wfsj0801+4019_023	8:00:23.30	+40:18:59.8	J2000.00	1.031	179.8	20:56:56.9	-599.5	i	Sloan	1	1 x 1	
153682	wfsj0801+4019_023	8:00:23.30	+40:18:59.8	J2000.00	1.031	179.8	20:56:56.9	-599.5	i	Sloan	5	1 x 1	
153683	wfsj0801+4019_023	8:00:23.30	+40:18:59.8	J2000.00	1.031	179.8	20:56:56.9	-599.5	i	Sloan	3	1 x 1	
153684	wfsj0801+4019_023	8:00:23.30	+40:18:59.8	J2000.00	1.031	179.8	20:56:56.9	-599.5	i	Sloan	4	1 x 1	
153685	wfsj0801+4019_024	8:00:22.90	+40:39:00.0	J2000.00	1.026	179.8	21:12:43.3	-599.7	i	Sloan	1	1 x 1	
153686	wfsj0801+4019_024	8:00:22.90	+40:39:00.0	J2000.00	1.026	179.8	21:12:43.3	-599.7	i	Sloan	5	1 x 1	
153687	wfsj0801+4019_024	8:00:22.90	+40:39:00.0	J2000.00	1.026	179.8	21:12:43.3	-599.7	i	Sloan	3	1 x 1	
153688	wfsj0801+4019_024	8:00:22.90	+40:39:00.0	J2000.00	1.026	179.8	21:12:43.3	-599.7	i	Sloan	4	1 x 1	
153689	wfsngc011	10:20:00.00	-00:00:00.0	J2000.00	1.380	179.8	21:24:16.9	1198.3	B	Kitt Peak	1	1 x 1	MCA reset
153690	wfsngc011	10:20:00.00	-00:00:00.0	J2000.00	1.380	179.8	21:24:16.9	1198.3	B	Kitt Peak	5	1 x 1	
153691	wfsngc011	10:20:00.00	-00:00:00.0	J2000.00	1.380	179.8	21:24:16.9	1198.3	B	Kitt Peak	3	1 x 1	
153692	wfsngc011	10:20:00.00	-00:00:00.0	J2000.00	1.380	179.8	21:24:16.9	1198.3	B	Kitt Peak	4	1 x 1	
153693	wfsngc012	10:22:00.00	+00:00:00.0	J2000.00	1.272	179.8	21:58:10.3	1198.9	B	Kitt Peak	1	1 x 1	
153694	wfsngc012	10:22:00.00	+00:00:00.0	J2000.00	1.272	179.8	21:58:10.3	1198.9	B	Kitt Peak	5	1 x 1	
153695	wfsngc012	10:22:00.00	+00:00:00.0	J2000.00	1.272	179.8	21:58:10.3	1198.9	B	Kitt Peak	3	1 x 1	

153696	wfsngc012	10:22:00.00	+00:00:00.0	J2000.00	1.272	179.8	21:58:10.3	1198.9	B	Kitt Peak	4	1 x 1
153697	wfsngc013	10:23:59.99	+00:00:00.0	J2000.00	1.218	179.8	22:22:59.6	1198.9	B	Kitt Peak	1	1 x 1
153698	wfsngc013	10:23:59.99	+00:00:00.0	J2000.00	1.218	179.8	22:22:59.6	1198.9	B	Kitt Peak	5	1 x 1
153699	wfsngc013	10:23:59.99	+00:00:00.0	J2000.00	1.218	179.8	22:22:59.6	1198.9	B	Kitt Peak	3	1 x 1
153700	wfsngc013	10:23:59.99	+00:00:00.0	J2000.00	1.218	179.8	22:22:59.6	1198.9	B	Kitt Peak	4	1 x 1
153701	wfsngc014	10:26:00.00	-00:00:00.0	J2000.00	1.168	179.8	22:57:45.4	1198.8	B	Kitt Peak	1	1 x 1
153702	wfsngc014	10:26:00.00	-00:00:00.0	J2000.00	1.168	179.8	22:57:45.4	1198.8	B	Kitt Peak	5	1 x 1
153703	wfsngc014	10:26:00.00	-00:00:00.0	J2000.00	1.168	179.8	22:57:45.4	1198.8	B	Kitt Peak	3	1 x 1
153704	wfsngc014	10:26:00.00	-00:00:00.0	J2000.00	1.168	179.8	22:57:45.4	1198.8	B	Kitt Peak	4	1 x 1
153705	wfsngc015	10:28:00.00	-00:00:00.0	J2000.00	1.148	179.8	23:22:58.1	1198.7	B	Kitt Peak	1	1 x 1
153706	wfsngc015	10:28:00.00	-00:00:00.0	J2000.00	1.148	179.8	23:22:58.1	1198.7	B	Kitt Peak	5	1 x 1
153707	wfsngc015	10:28:00.00	-00:00:00.0	J2000.00	1.148	179.8	23:22:58.1	1198.7	B	Kitt Peak	3	1 x 1
153708	wfsngc015	10:28:00.00	-00:00:00.0	J2000.00	1.148	179.8	23:22:58.1	1198.7	B	Kitt Peak	4	1 x 1
153709	wfsngc026	10:50:00.00	+00:00:00.1	J2000.00	1.145	179.8	23:51:00.9	1198.7	B	Kitt Peak	1	1 x 1
153710	wfsngc026	10:50:00.00	+00:00:00.1	J2000.00	1.145	179.8	23:51:00.9	1198.7	B	Kitt Peak	5	1 x 1
153711	wfsngc026	10:50:00.00	+00:00:00.1	J2000.00	1.145	179.8	23:51:00.9	1198.7	B	Kitt Peak	3	1 x 1
153712	wfsngc026	10:50:00.00	+00:00:00.1	J2000.00	1.145	179.8	23:51:00.9	1198.7	B	Kitt Peak	4	1 x 1
153713	wfsngc027	10:52:00.00	-00:00:00.1	J2000.00	1.141	179.8	00:16:47.4	1198.7	B	Kitt Peak	1	1 x 1
153714	wfsngc027	10:52:00.00	-00:00:00.1	J2000.00	1.141	179.8	00:16:47.4	1198.7	B	Kitt Peak	5	1 x 1
153715	wfsngc027	10:52:00.00	-00:00:00.1	J2000.00	1.141	179.8	00:16:47.4	1198.7	B	Kitt Peak	3	1 x 1
153716	wfsngc027	10:52:00.00	-00:00:00.1	J2000.00	1.141	179.8	00:16:47.4	1198.7	B	Kitt Peak	4	1 x 1
153717	wfsngc028	10:53:59.99	-00:00:00.0	J2000.00	1.150	179.8	00:43:17.5	1198.8	B	Kitt Peak	1	1 x 1
153718	wfsngc028	10:53:59.99	-00:00:00.0	J2000.00	1.150	179.8	00:43:17.5	1198.8	B	Kitt Peak	5	1 x 1
153719	wfsngc028	10:53:59.99	-00:00:00.0	J2000.00	1.150	179.8	00:43:17.5	1198.8	B	Kitt Peak	3	1 x 1
153720	wfsngc028	10:53:59.99	-00:00:00.0	J2000.00	1.150	179.8	00:43:17.5	1198.8	B	Kitt Peak	4	1 x 1
153721	wfsngc029	10:56:00.00	+00:00:00.0	J2000.00	1.175	179.8	01:12:01.6	1198.3	B	Kitt Peak	1	1 x 1
153722	wfsngc029	10:56:00.00	+00:00:00.0	J2000.00	1.175	179.8	01:12:01.6	1198.3	B	Kitt Peak	5	1 x 1
153723	wfsngc029	10:56:00.00	+00:00:00.0	J2000.00	1.175	179.8	01:12:01.6	1198.3	B	Kitt Peak	3	1 x 1
153724	wfsngc029	10:56:00.00	+00:00:00.0	J2000.00	1.175	179.8	01:12:01.6	1198.3	B	Kitt Peak	4	1 x 1
153725	wfsngc030	10:58:00.00	+00:00:00.1	J2000.00	1.212	179.8	01:37:59.4	1198.5	B	Kitt Peak	1	1 x 1
153726	wfsngc030	10:58:00.00	+00:00:00.1	J2000.00	1.212	179.8	01:37:59.4	1198.5	B	Kitt Peak	5	1 x 1
153727	wfsngc030	10:58:00.00	+00:00:00.1	J2000.00	1.212	179.8	01:37:59.4	1198.5	B	Kitt Peak	3	1 x 1
153728	wfsngc030	10:58:00.00	+00:00:00.1	J2000.00	1.212	179.8	01:37:59.4	1198.5	B	Kitt Peak	4	1 x 1
153729	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:45:53.4	0.0	B	Kitt Peak	1	1 x 1
153730	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:45:53.4	0.0	B	Kitt Peak	5	1 x 1
153731	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:45:53.4	0.0	B	Kitt Peak	3	1 x 1
153732	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:45:53.4	0.0	B	Kitt Peak	4	1 x 1
153733	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:48:46.7	0.0	B	Kitt Peak	1	1 x 1
153734	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:48:46.7	0.0	B	Kitt Peak	5	1 x 1
153735	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:48:46.7	0.0	B	Kitt Peak	3	1 x 1
153736	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:48:46.7	0.0	B	Kitt Peak	4	1 x 1
153737	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:51:37.9	0.0	B	Kitt Peak	1	1 x 1
153738	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:51:37.9	0.0	B	Kitt Peak	5	1 x 1
153739	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:51:37.9	0.0	B	Kitt Peak	3	1 x 1
153740	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:51:37.9	0.0	B	Kitt Peak	4	1 x 1
153741	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:54:28.9	0.0	B	Kitt Peak	1	1 x 1
153742	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:54:28.9	0.0	B	Kitt Peak	5	1 x 1
153743	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:54:28.9	0.0	B	Kitt Peak	3	1 x 1
153744	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:54:28.9	0.0	B	Kitt Peak	4	1 x 1
153745	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:57:19.5	0.0	B	Kitt Peak	1	1 x 1
153746	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:57:19.5	0.0	B	Kitt Peak	5	1 x 1
153747	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:57:19.5	0.0	B	Kitt Peak	3	1 x 1
153748	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	02:57:19.5	0.0	B	Kitt Peak	4	1 x 1