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

TELESCOPE:             INT
DATE:                  1999 Mar 18/19
INT TAPE NR:           INTD3989
OBSERVER:              Pierre, Guillaume and N. Walton
PROGRAMME:             WFS
PATT/CAT:              CATI4
TELESCOPE OPERATOR:    C. Martin
SUPPORT ASTRONOMER:    N. Walton

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
OUTSIDE TEMP (deg C):     -1        (FIRST HALF)
OUTSIDE TEMP (deg C):     3.0       (SECOND HALF)
HUMIDITY (%):            100        (FIRST HALF)
HUMIDITY (%):            20         (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):         1.2        (SECOND HALF)
AV. SEEING (arcsec):     -
NO. SEEING MEASURES:     -

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

DARK HOURS:            09:19
DOME OPEN (UTC):       02:00
MOON PHASE (D/G/B):       D
DK HRS LOST (WEATHER):05.30
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:

High humidity.




Run no. Object name          RA         Dec.     Equinox    AM    PA    UT       Exp. T.   Filter      Psys Channel  Binning Comments
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153749	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	4.201	179.8	13:37:05.7	0.0	B	Kitt Peak	1	1 x 1
153753	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	4.201	179.8	13:55:52.7	0.0	V	Harris	1	1 x 1
153757	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	4.201	179.8	14:03:59.2	0.0	V	Harris	1	1 x 1
153761	HPM2	0:00:00.00	+00:00:00.0	B1950.00	4.201	179.8	14:09:18.6	5.1	V	Harris	1	1 x 1
153765	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:35:13.8	0.0	R	Harris	1	1 x 1
153769	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:38:05.0	0.0	R	Harris	1	1 x 1
153773	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:40:56.1	0.0	R	Harris	1	1 x 1
153777	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:43:47.5	0.0	R	Harris	1	1 x 1
153781	Bias frame	0:00:00.00	+00:00:00.0	A	1.000	179.8	16:46:38.5	0.0	R	Harris	1	1 x 1
153785	Bias frame	0:00:00.00	+00:00:00.0	A	1.085	179.8	00:49:59.9	0.0	r	SLOAN	1	1 x 1
153789	Bias frame	12:05:30.56	+28:30:19.9	J2000.00	1.012	179.8	00:52:52.7	0.0	r	SLOAN	1	1 x 1
153793	Bias frame	12:05:30.56	+28:30:19.9	J2000.00	1.010	179.8	00:55:43.7	0.0	r	SLOAN	1	1 x 1
153797	Focus run	12:42:21.00	-00:38:43.0	J2000.00	1.148	179.8	02:06:32.7	10.1	r	SLOAN	1	1 x 1
153801	sa104-334 r’ 10s	12:42:21.00	-00:36:57.9	J2000.00	1.147	179.8	02:12:07.3	10.1	r	SLOAN	1	1 x 1
153805	wfsngc092 r’	13:02:00.00	-00:00:00.0	J2000.00	1.141	179.8	02:18:35.5	599.4	r	SLOAN	1	1 x 1
153809	wfsngc093 r’	13:03:59.99	+00:00:00.0	J2000.00	1.141	179.8	02:33:08.4	599.3	r	SLOAN	1	1 x 1
153813	wfsngc094 r’	13:06:00.00	-00:00:00.1	J2000.00	1.145	179.8	02:48:05.7	599.5	r	SLOAN	1	1 x 1
153817	wfsngc095 r’	13:08:00.00	-00:00:00.1	J2000.00	1.153	179.8	03:03:32.3	599.5	r	SLOAN	1	1 x 1
153821	wfsngc106 r	13:30:00.00	-00:00:00.0	J2000.00	1.149	179.8	03:20:10.6	598.9	r	SLOAN	1	1 x 1
153825	wfsngc107 r	13:31:59.99	-00:00:00.0	J2000.00	1.159	179.8	03:34:51.1	599.4	r	SLOAN	1	1 x 1
153829	wfsngc108 r	13:34:00.00	-00:00:00.1	J2000.00	1.173	179.8	03:49:37.7	599.5	r	SLOAN	1	1 x 1
153833	wfsngc109 r	13:36:00.00	+00:00:00.0	J2000.00	1.191	179.8	04:04:13.1	599.6	r	SLOAN	1	1 x 1
153837	wfsngc110 r	13:38:00.00	-00:00:00.1	J2000.00	1.213	179.8	04:18:56.7	599.6	r	SLOAN	1	1 x 1
153841	wfsngc121 r	13:59:59.99	+00:00:00.0	J2000.00	1.205	179.8	04:36:35.8	599.5	r	SLOAN	1	1 x 1
153845	wfsngc122 r	14:01:59.99	+00:00:00.0	J2000.00	1.230	179.8	04:51:26.3	599.5	r	SLOAN	1	1 x 1
153849	wfsngc123 r	14:04:00.00	-00:00:00.0	J2000.00	1.262	179.8	05:06:35.9	599.4	r	SLOAN	1	1 x 1
153853	wfsngc124 r	14:06:00.00	+00:00:00.0	J2000.00	1.298	179.8	05:21:27.4	599.5	r	SLOAN	1	1 x 1
153857	wfsngc125 r	14:08:00.00	+00:00:00.0	J2000.00	1.343	179.8	05:36:56.5	599.4	r	SLOAN	1	1 x 1
153861	n1_1_a r	16:06:30.69	+54:20:40.8	J2000.00	1.113	179.8	05:53:57.7	599.3	r	SLOAN	1	1 x 1
153865	n1_1_b r	16:06:30.70	+54:13:13.7	J2000.00	1.117	179.8	06:08:38.7	599.4	r	SLOAN	1	1 x 1
153869	sa110-361 r’ 10s	18:42:45.00	+00:08:04.0	J2000.00	1.270	179.8	06:23:33.5	10.1	r	SLOAN	1	1 x 1
153873	sa107-602 r’ 10s	15:39:19.00	-00:15:28.9	J2000.00	1.221	179.8	06:27:40.4	9.6	r	SLOAN	1	1 x 1
153877	sa107-602 r’ 20s	15:39:19.66	-00:15:19.0	J2000.00	1.228	179.8	06:30:48.5	20.1	r	SLOAN	1	1 x 1
153881	n1_1_c r	16:07:21.70	+54:13:13.5	J2000.00	1.136	179.8	06:37:18.7	599.4	r	SLOAN	1	1 x 1
153885	Flat field	19:19:09.00	+12:22:05.4	B1950.00	1.170	179.8	06:52:09.1	18.0	r	SLOAN	1	1 x 1
153897	sky r 2s	19:19:08.99	+12:22:15.0	B1950.00	1.155	179.8	06:58:48.7	2.1	r	SLOAN	1	1 x 1
153901	sky r .5s	19:19:08.99	+12:22:24.9	B1950.00	1.148	179.8	07:02:01.8	1.0	r	SLOAN	1	1 x 1
153905	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	07:10:37.6	0.0	r	SLOAN	1	1 x 1
153909	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	07:13:30.2	0.0	r	SLOAN	1	1 x 1
153913	Bias frame	0:00:00.00	+00:00:00.0	B1950.00	2.900	179.8	07:16:23.4	0.0	r	SLOAN	1	1 x 1