INT OBSERVING LOG (ISAAC NEWTON GROUP, LA PALMA)

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TELESCOPE:            INT
DATE:                 20000308
TAPE NR:              INTD4322
OBSERVER:             J. Haynes, A. Kambas
PROGRAMME:            WFS
PATT/CAT REF.:        WFS09
TELESCOPE OPERATOR:
SUPPORT ASTRONOMER:

TELESCOPE FOCUS:      46.1 mm
CALIBRATE RESULTS:    not specified

INSTRUMENT:           WFC

WFC FILTER WHEEL:     U,i,Z,KPB,r,g

WEATHER:              (1st half) good
                      (2nd half) dgood
CLOUD COVER (%):      (1st half) 0
                      (2nd half) 0
DUST (0-2):           (1st half) 0
                      (2nd half) 0
SEEING (arcsec):      (1st half) 2.0
                      (2nd half) 4.0

DOME OPENED (UT):     19:00

TEMPERATURE, HUMIDITY and WIND:
   UT   Temp  Hum%  Wspd  Wdir
20:00   10.0     7    38   245
21:00   10.0     4    35   173
22:00    9.5     5    24   166
23:00    7.8     7    20   171
00:00    8.4     7    29   150
01:00    7.7     7    31   149
02:00    8.3     7    44   145
03:00    8.3     8    44   137
04:00    8.1     9    49   149
05:00    8.8    10    44   160
06:00   10.0    18    56   185
07:00   10.4    23    49   144

SUNSET(UT)            19:23
EVENING TWILIGHT(UT)  20:34
MORNING TWILIGHT(UT)  06:10
SUNRISE(UT)           07:21
MOON'S QUARTER (1-4)  1
DISK % OF ILLUM.      10
DARK TIME             09:36
TWILIGHT TIME         02:22
MOONRISE(UT)          No moonrise within sunset-sunrise
MOONSET(UT)           21:46

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

COMMENTS:
   very poor seeing averaging higher than 2"
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| Run no. | Object name | RA | Dec. | Equinox | AM | PA | UT | Exp. T. | Filter | Psys | Channel | Binning | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210982 | Bias frame | 0:00:00.00 | +00:00:00.0 | J2000.00 | 1.000 | 180.1 | 13:56:34.7 | 0.0 | g | Sloan | | | |
| 210983 | Bias frame | 0:00:00.00 | +00:00:00.0 | J2000.00 | 1.000 | 180.1 | 18:39:20.5 | 0.0 | g | Sloan | | | |
| 210984 | Bias frame | 0:00:00.00 | +00:00:00.0 | J2000.00 | 1.000 | 180.1 | 18:41:33.7 | 0.0 | g | Sloan | | | |
| 210985 | Flat field | 4:25:46.00 | +54:09:03.0 | B1950.00 | 1.124 | 180.1 | 19:26:47.6 | 3.4 | U | RGO | | | |
| 210986 | Flat field | 4:25:47.13 | +54:09:13.0 | B1950.00 | 1.126 | 180.1 | 19:29:14.7 | 1.1 | U | RGO | | | |
| 210987 | Flat field | 4:25:44.86 | +54:09:12.9 | B1950.00 | 1.127 | 180.1 | 19:30:60.0 | 3.1 | U | RGO | | | |
| 210988 | Flat field | 4:25:46.00 | +54:09:02.9 | B1950.00 | 1.130 | 180.1 | 19:34:35.5 | 7.1 | U | RGO | | | |
| 210989 | Flat field | 4:25:46.00 | +54:09:02.9 | B1950.00 | 1.132 | 180.1 | 19:36:52.0 | 3.1 | z | Gunn | | | |
| 210990 | Flat field | 4:25:47.13 | +54:09:12.9 | B1950.00 | 1.133 | 180.1 | 19:38:26.6 | 7.1 | z | Gunn | | | |
| 210991 | Flat field | 4:25:46.00 | +54:09:03.0 | B1950.00 | 1.134 | 180.1 | 19:40:05.6 | 5.1 | B | Kitt Peak | | | |
| 210992 | Flat field | 4:25:47.13 | +54:09:12.9 | B1950.00 | 1.136 | 180.1 | 19:41:37.6 | 8.1 | B | Kitt Peak | | | |
| 210993 | Flat field | 4:25:47.14 | +54:09:13.0 | B1950.00 | 1.137 | 180.1 | 19:43:10.0 | 9.1 | B | Kitt Peak | | | |
| 210994 | Flat field | 4:25:44.86 | +54:09:13.0 | B1950.00 | 1.139 | 180.1 | 19:45:06.9 | 14.1 | B | Kitt Peak | | | |
| 210995 | Flat field | 4:25:46.00 | +54:09:02.9 | B1950.00 | 1.140 | 180.1 | 19:47:01.3 | 22.1 | r | Sloan | | | |
| 210996 | Flat field | 4:25:46.00 | +54:09:03.0 | B1950.00 | 1.142 | 180.1 | 19:48:58.8 | 35.1 | g | Sloan | | | |
| 210997 | Flat field | 4:25:44.86 | +54:09:13.0 | B1950.00 | 1.145 | 180.1 | 19:51:22.3 | 60.1 | g | Sloan | | | |
| 210998 | Focus run | 3:54:31.00 | +00:32:05.0 | J2000.00 | 1.322 | 180.1 | 20:04:23.3 | 10.1 | B | Kitt Peak | | | |
| 210999 | sa98-670 g | 6:52:11.99 | -00:19:16.9 | J2000.00 | 1.164 | 180.1 | 20:13:40.5 | 10.1 | g | Sloan | | | |
| 211000 | sa98-670 r | 6:52:12.00 | -00:19:16.9 | J2000.00 | 1.163 | 180.1 | 20:15:00.8 | 10.1 | r | Sloan | | | |
| 211001 | sa98-670 i | 6:52:11.99 | -00:19:17.0 | J2000.00 | 1.162 | 180.1 | 20:16:20.6 | 10.1 | i | Sloan | | | |
| 211002 | sa98-670 Z | 6:52:12.00 | -00:19:16.9 | J2000.00 | 1.160 | 180.1 | 20:17:38.2 | 20.1 | z | Gunn | | | |
| 211003 | sa98-670 KPB | 6:52:11.99 | -00:19:16.9 | J2000.00 | 1.159 | 180.1 | 20:19:06.6 | 10.3 | B | Kitt Peak | | | |
| 211004 | sa98-670 U | 6:52:12.00 | -00:19:17.0 | J2000.00 | 1.158 | 180.1 | 20:20:25.3 | 60.1 | U | RGO | | | |
| 211005 | wfsj0801+4019_041 | 8:05:38.10 | +40:19:00.0 | J2000.00 | 1.085 | 180.1 | 20:28:12.7 | 599.3 | r | Sloan | | | |
| 211006 | wfsj0801+4019_041 | 8:05:38.09 | +40:18:59.9 | J2000.00 | 1.071 | 180.1 | 20:39:26.7 | 599.2 | g | Sloan | | | |
| 211007 | wfsj0801+4019_042 | 8:05:39.20 | +40:38:59.9 | J2000.00 | 1.057 | 180.1 | 20:52:25.4 | 599.4 | r | Sloan | | | |
| 211008 | wfsj0801+4019_042 | 8:05:39.20 | +40:39:00.0 | J2000.00 | 1.047 | 180.1 | 21:03:37.4 | 599.3 | g | Sloan | | | |
| 211009 | sa101-427 g | 9:57:25.99 | -00:17:16.0 | J2000.00 | 1.465 | 180.1 | 21:26:40.3 | 10.1 | g | Sloan | | | |
| 211010 | sa101-427 r | 9:57:26.00 | -00:17:15.9 | J2000.00 | 1.458 | 180.1 | 21:27:60.0 | 10.1 | r | Sloan | | | |
| 211011 | sa101-427 i | 9:57:26.00 | -00:17:15.9 | J2000.00 | 1.451 | 180.1 | 21:29:17.1 | 10.1 | i | Sloan | | | |
| 211012 | sa101-427 Z | 9:57:25.99 | -00:17:15.9 | J2000.00 | 1.445 | 180.1 | 21:30:32.5 | 20.1 | z | Gunn | | | |
| 211013 | sa101-427 KPB | 9:57:26.00 | -00:17:16.0 | J2000.00 | 1.438 | 180.1 | 21:31:57.2 | 10.1 | B | Kitt Peak | | | |
| 211014 | sa101-427 U | 9:57:25.99 | -00:17:16.0 | J2000.00 | 1.430 | 180.1 | 21:33:11.7 | 60.1 | U | RGO | | | |
| 211015 | TEST1 | 5:34:31.89 | +22:00:52.0 | J2000.00 | 1.163 | 180.1 | 21:51:22.4 | 40.1 | r | Sloan | | | test |
| 211016 | TEST1 | 5:34:32.61 | +22:01:02.1 | J2000.00 | 1.178 | 180.1 | 21:57:02.4 | 25.1 | B | Kitt Peak | | | |
| 211017 | TEST1 | 5:34:32.61 | +22:01:02.2 | J2000.00 | 1.184 | 180.1 | 21:59:02.6 | 40.1 | B | Kitt Peak | | | |
| 211018 | TEST1 | 5:34:31.18 | +22:01:02.1 | J2000.00 | 1.190 | 180.1 | 22:00:54.1 | 70.1 | U | RGO | | | |
| 211019 | wfsngc030 | 10:58:00.00 | +00:00:00.0 | J2000.00 | 1.532 | 180.1 | 22:07:52.6 | 749.3 | B | Kitt Peak | | | |
| 211020 | TEST81 | 9:55:33.20 | +69:03:55.1 | J2000.00 | 1.332 | 180.1 | 22:54:39.3 | 10.1 | B | Kitt Peak | | | |
| 211021 | TESTUMAC | 11:57:11.00 | +49:17:18.0 | J2000.00 | 1.297 | 180.1 | 23:01:48.7 | 10.1 | B | Kitt Peak | | | |
| 211022 | TESTUMAC | 11:57:11.00 | +49:17:17.9 | J2000.00 | 1.260 | 180.1 | 23:08:42.5 | 749.3 | r | Sloan | | | |
| 211023 | sa98-670 g | 6:52:12.00 | -00:19:17.0 | J2000.00 | 1.441 | 180.1 | 23:25:39.7 | 10.1 | g | Sloan | | | |
| 211024 | sa98-670 r | 6:52:12.00 | -00:19:17.0 | J2000.00 | 1.449 | 180.1 | 23:27:08.9 | 10.1 | r | Sloan | | | |
| 211025 | sa98-670 i | 6:52:11.99 | -00:19:16.9 | J2000.00 | 1.455 | 180.1 | 23:28:22.8 | 10.1 | i | Sloan | | | |
| 211026 | sa98-670 Z | 6:52:12.00 | -00:19:17.0 | J2000.00 | 1.461 | 180.1 | 23:29:36.1 | 20.1 | z | Gunn | | | |
| 211027 | sa98-670 KPB | 6:52:11.99 | -00:19:16.9 | J2000.00 | 1.468 | 180.1 | 23:31:01.0 | 10.1 | B | Kitt Peak | | | |
| 211028 | sa98-670 U | 6:52:11.99 | -00:19:16.9 | J2000.00 | 1.477 | 180.1 | 23:32:17.3 | 60.0 | U | RGO | | | |
| 211029 | sa101-427 g | 9:57:25.99 | -00:17:15.9 | J2000.00 | 1.150 | 180.1 | 23:37:26.2 | 10.1 | g | Sloan | | | |
| 211030 | sa101-427 r | 9:57:26.00 | -00:17:15.9 | J2000.00 | 1.149 | 180.1 | 23:38:42.6 | 9.6 | r | Sloan | | | |
| 211031 | sa101-427 i | 9:57:26.00 | -00:17:16.0 | J2000.00 | 1.148 | 180.1 | 23:40:04.7 | 10.1 | i | Sloan | | | |
| 211032 | sa101-427 Z | 9:57:26.00 | -00:17:16.0 | J2000.00 | 1.148 | 180.1 | 23:41:18.6 | 20.1 | z | Gunn | | | |
| 211033 | sa101-427 KPB | 9:57:25.99 | -00:17:15.9 | J2000.00 | 1.147 | 180.1 | 23:42:46.3 | 10.1 | B | Kitt Peak | | | |
| 211034 | sa101-427 U | 9:57:26.00 | -00:17:15.7 | J2000.00 | 1.147 | 180.1 | 23:44:00.1 | 60.1 | U | RGO | | | |
| 211035 | VIRGO587 | 12:22:51.00 | +17:04:00.1 | J2000.00 | 1.243 | 180.1 | 23:49:29.7 | 749.2 | B | Kitt Peak | | | |
| 211036 | VIRGO588 | 12:25:00.69 | +17:04:00.0 | J2000.00 | 1.196 | 180.1 | 00:06:17.5 | 749.3 | B | Kitt Peak | | | |
| 211037 | VIRGO701S | 12:22:49.30 | +17:23:59.6 | J2000.00 | 1.146 | 180.1 | 00:22:25.2 | 749.3 | B | Kitt Peak | | | |
| 211038 | VIRGO702S | 12:25:00.10 | +17:24:00.1 | J2000.00 | 1.111 | 180.1 | 00:40:53.4 | 749.3 | B | Kitt Peak | | | |
| 211039 | VIRGO703S | 12:22:48.60 | +17:44:00.0 | J2000.00 | 1.072 | 180.1 | 01:01:13.9 | 749.5 | B | Kitt Peak | | | |
| 211040 | VIRGO704S | 12:24:59.61 | +17:44:00.1 | J2000.00 | 1.046 | 180.1 | 01:25:42.7 | 749.3 | B | Kitt Peak | | | |
| 211041 | VIRGO705S | 12:22:47.89 | +18:04:00.0 | J2000.00 | 1.029 | 180.1 | 01:43:23.5 | 749.3 | B | Kitt Peak | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 211042 | VIRGO706S | 12:24:59.00 | +18:03:59.8 | J2000.00 | 1.022 | 180.1 | 02:00:10.0 | 749.4 | B | Kitt Peak |
| 211043 | VIRGO708S | 12:24:58.40 | +18:24:00.1 | J2000.00 | 1.017 | 180.1 | 02:20:44.1 | 749.3 | B | Kitt Peak |
| 211044 | VIRGO709S | 12:22:46.60 | +18:44:00.1 | J2000.00 | 1.018 | 180.1 | 02:36:20.6 | 749.4 | B | Kitt Peak |
| 211045 | VIRGO710S | 12:24:57.80 | +18:44:00.0 | J2000.00 | 1.023 | 180.1 | 02:51:16.3 | 749.3 | B | Kitt Peak |
| 211046 | VIRGO711S | 12:22:45.89 | +19:03:59.8 | J2000.00 | 1.035 | 180.1 | 03:08:57.6 | 749.1 | B | Kitt Peak |
| 211047 | VIRGO712S | 12:24:57.19 | +19:03:59.6 | J2000.00 | 1.047 | 180.1 | 03:24:12.6 | 749.3 | B | Kitt Peak |
| 211048 | VIRGO713S | 12:22:45.20 | +19:24:00.0 | J2000.00 | 1.066 | 180.1 | 03:38:41.9 | 749.2 | B | Kitt Peak |
| 211049 | 104-335 g | 12:42:20.89 | -00:33:08.9 | J2000.00 | 1.204 | 180.1 | 03:56:04.2 | 10.1 | g | Sloan |
| 211050 | 104-335 r | 12:42:20.90 | -00:33:09.0 | J2000.00 | 1.206 | 180.1 | 03:57:18.4 | 10.1 | r | Sloan |
| 211051 | 104-335 i | 12:42:20.90 | -00:33:09.0 | J2000.00 | 1.208 | 180.1 | 03:58:31.6 | 9.6 | i | Sloan |
| 211052 | 104-335 Z | 12:42:20.89 | -00:33:09.0 | J2000.00 | 1.210 | 180.1 | 03:59:45.6 | 20.1 | z | Gunn |
| 211053 | 104-335 KPB | 12:42:20.89 | -00:33:08.9 | J2000.00 | 1.213 | 180.1 | 04:01:11.0 | 10.1 | B | Kitt Peak |
| 211054 | 104-335 U | 12:42:20.90 | -00:33:09.0 | J2000.00 | 1.216 | 180.1 | 04:02:31.6 | 60.0 | U | RGO |
| 211056 | VIRGO714S | 12:24:56.60 | +19:24:00.0 | J2000.00 | 1.128 | 180.1 | 04:15:40.7 | 749.4 | B | Kitt Peak |
| 211057 | VIRGO715S | 12:22:44.49 | +19:44:00.3 | J2000.00 | 1.168 | 180.1 | 04:30:32.5 | 748.8 | B | Kitt Peak |
| 211058 | VIRGO716S | 12:24:56.00 | +19:43:59.9 | J2000.00 | 1.204 | 180.1 | 04:45:09.5 | 749.3 | B | Kitt Peak |
| 211059 | VIRGO716S | 12:24:56.00 | +19:44:00.0 | J2000.00 | 1.263 | 180.1 | 05:02:44.2 | 749.4 | B | Kitt Peak |
| 211060 | VIRGO716S | 12:24:55.99 | +19:43:59.8 | J2000.00 | 1.316 | 180.1 | 05:16:03.4 | 749.3 | B | Kitt Peak |
| 211061 | VIRGO716S | 12:24:55.99 | +19:44:00.0 | J2000.00 | 1.348 | 180.1 | 05:29:23.3 | 12.0 | B | Kitt Peak |
| 211063 | VIRGO345 | 12:18:45.30 | +13:04:00.1 | J2000.00 | 1.502 | 180.1 | 05:32:34.3 | 749.3 | B | Kitt Peak |
| 211064 | VIRGO345 | 12:18:45.30 | +13:04:00.0 | J2000.00 | 1.595 | 180.1 | 05:45:55.2 | 749.3 | B | Kitt Peak |
| 211065 | VIRGO345 | 12:18:45.30 | +13:03:59.9 | J2000.00 | 1.705 | 180.1 | 05:59:15.0 | 749.4 | B | Kitt Peak |
| 211066 | VIRGO345 | 12:18:45.29 | +13:03:59.9 | J2000.00 | 1.836 | 180.1 | 06:12:34.6 | 749.3 | B | Kitt Peak |
| 211067 | 104-335 g | 12:42:20.90 | -00:33:08.9 | J2000.00 | 2.034 | 180.1 | 06:27:18.4 | 10.1 | g | Sloan |
| 211068 | 104-335 r | 12:42:20.90 | -00:33:09.0 | J2000.00 | 2.050 | 180.1 | 06:28:32.6 | 9.6 | r | Sloan |
| 211069 | 104-335 i | 12:42:20.90 | -00:33:09.0 | J2000.00 | 2.066 | 180.1 | 06:29:46.1 | 10.1 | i | Sloan |
| 211070 | 104-335 Z | 12:42:20.90 | -00:33:08.9 | J2000.00 | 2.084 | 180.1 | 06:31:00.6 | 20.1 | z | Gunn |
| 211071 | 104-335 KPB | 12:42:20.90 | -00:33:08.9 | J2000.00 | 2.103 | 180.1 | 06:32:23.9 | 10.1 | B | Kitt Peak |
| 211072 | 104-335 U | 12:42:20.90 | -00:33:08.9 | J2000.00 | 2.127 | 180.1 | 06:33:42.5 | 60.1 | U | RGO |
| 211073 | Flat field | 16:47:52.50 | -15:17:43.7 | B1950.00 | 1.392 | 180.1 | 06:54:56.8 | 50.1 | i | Sloan |
| 211074 | Flat field | 16:47:53.19 | -15:17:34.1 | B1950.00 | 1.392 | 180.1 | 06:57:16.5 | 20.1 | B | Kitt Peak |
| 211075 | Flat field | 16:47:52.49 | -15:17:44.2 | B1950.00 | 1.393 | 180.1 | 06:58:59.4 | 15.1 | r | Sloan |
| 211076 | Flat field | 16:47:53.19 | -15:17:34.0 | B1950.00 | 1.393 | 180.1 | 07:00:37.9 | 10.1 | r | Sloan |
| 211077 | Flat field | 16:47:52.49 | -15:17:44.0 | B1950.00 | 1.393 | 180.1 | 07:02:08.0 | 5.1 | g | Sloan |
| 211078 | Flat field | 16:47:53.19 | -15:17:33.9 | B1950.00 | 1.394 | 180.1 | 07:03:35.3 | 2.1 | g | Sloan |