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Mauna Loa Solar Observatory Observer's Log
    ______
       Tue Nov 17 17:11:45 GMT 2009
Year: 09 Doy: 321
Observer: koon
WEATHER COMMENT: Tue Nov 17 17:11:47 GMT 2009
Clear sky, wind=5mph from the SW, temp=40F, icy road and boardwalk.
  end
Tue Nov 17 17:20:46 GMT 2009
                               PTCS
                                        Start Patrol
**MLSO PROBLEM**: Tue Nov 17 17:48:56 GMT 2009
I'll need to clean all the instrument Ols today, there are big water spots
on those and the main dome floor, it must have rained in the main dome
yesterday.
end
Tue Nov 17 17:56:06 GMT 2009
                               CHIP
                                        Start Patrol
Tue Nov 17 18:02:45 GMT 2009
                               CHIP
                                       LSD
Tue Nov 17 18:03:00 GMT 2009
                               PICS
                                       Flat
Tue Nov 17 18:04:19 GMT 2009
                               CHIP
                                       End LSD
Tue Nov 17 18:04:28 GMT 2009
                               CHIP
                                       BiasLSD
Tue Nov 17 18:05:15 GMT 2009
                                       End BiasLSD
                               CHIP
Tue Nov 17 18:05:19 GMT 2009
                               PICS
                                       End Flat
Tue Nov 17 18:05:32 GMT 2009
                               CHIP
                                       Bias
Tue Nov 17 18:05:39 GMT 2009
                               PICS
                                       ReStart Patrol
Tue Nov 17 18:06:27 GMT 2009
                               CHIP
                                       End Bias
Tue Nov 17 18:06:35 GMT 2009
                               CHIP
                                       ReStart Patrol
PSPT COMMENT: Tue Nov 17 18:10:04 GMT 2009
obs
end
Tue Nov 17 18:14:27 GMT 2009
                               MKIV
                                       End Patrol
Tue Nov 17 18:14:32 GMT 2009
                               MKIV
                                       Start Cal
COMMENT: Tue Nov 17 19:05:04 GMT 2009
Done cleaning PICS 01 and front windows for CHIP, guider, and sky transmission
telescopes.
  end
MKIV COMMENT: Tue Nov 17 19:10:47 GMT 2009
Removing 01 for cleaning.
____end_
Tue Nov 17 19:24:38 GMT 2009
                               CHIP
                                        End Patrol
Tue Nov 17 19:24:46 GMT 2009
                               PICS
                                        End Patrol
WEATHER COMMENT: Tue Nov 17 19:24:40 GMT 2009
Low clouds are moving in, I'm pausing the instruments and closing the domes
while I clean the mk4 01.
end
Tue Nov 17 20:56:10 GMT 2009
                               CHIP
                                        Start Patrol
```

PICS

MKIV

Start Patrol

Start Cal

COMMENT: Tue Nov 17 20:56:33 GMT 2009

Tue Nov 17 20:56:21 GMT 2009

Tue Nov 17 20:56:34 GMT 2009

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Finished cleaning mk4 O1 and PSPT front window.
 end
WEATHER COMMENT: Tue Nov 17 20:57:20 GMT 2009
Clouds have mostly cleared, opening domes and restarting instruments.
MKIV COMMENT: Tue Nov 17 20:57:48 GMT 2009
Cleaned O1, doing "after" Cal now.
____end___
WEATHER COMMENT: Tue Nov 17 21:05:00 GMT 2009
Low clouds are moving in again.
____end_
Tue Nov 17 21:16:04 GMT 2009
                                MKIV
                                        Start Patrol
WEATHER COMMENT: Tue Nov 17 22:09:57 GMT 2009
Clouds are thick, pausing instruments and closing domes.
end
Tue Nov 17 22:10:31 GMT 2009
                                CHIP
                                         End Patrol
Tue Nov 17 22:10:42 GMT 2009
                                PICS
                                         End Patrol
Tue Nov 17 22:15:09 GMT 2009
                                MKIV
                                        End Patrol
Tue Nov 17 23:34:07 GMT 2009
        MkIV
17 20.rawmk4
              17 50.rawmk4
                              18 29.rawmk4
                                             21 33.rawmk4
                                                            22 03.rawmk4
              17_53.rawmk4
17_24.rawmk4
                              20_59.rawmk4
                                             21_36.rawmk4
                                                            22_06.rawmk4
17 27.rawmk4
                                             21 39.rawmk4
              17 56.rawmk4
                              21 05.rawmk4
                                                            22 08.rawmk4
17 30.rawmk4
              17 59.rawmk4
                              21 11.rawmk4
                                             21 42.rawmk4
                                                            22 11.rawmk4
17 33.rawmk4
              18_02.rawmk4
                              21_16.rawmk4
                                             21 45.rawmk4
                                                            c18_14.rawmk4
17 36.rawmk4
              18 05.rawmk4
                              21 19.rawmk4
                                             21 48.rawmk4
                                                            c18 20.rawmk4
17 38.rawmk4
              18 08.rawmk4
                              21 21.rawmk4
                                             21 51.rawmk4
                                                            c18 26.rawmk4
17_41.rawmk4
              18_11.rawmk4
                              21_24.rawmk4
                                             21_54.rawmk4
                                                            c20_56.rawmk4
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21_27.rawmk4

21_30.rawmk4

21_57.rawmk4

22 00.rawmk4

c21_02.rawmk4

c21 08.rawmk4

17_44.rawmk4

17 47.rawmk4

18_17.rawmk4

18_23.rawmk4