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                  Mauna Loa Solar Observatory Observer's Log
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            Fri Jan 19 17:18:30 GMT 2001
Year: 01  Doy: 019
Observer: yasukawa
WEATHER COMMENT: Fri Jan 19 17:19:10 GMT 2001
Cold, clear, brisk southeast wind.
Fri Jan 19 17:28:29 GMT 2001    CHIP     Start 7 Passband Patrol
Fri Jan 19 17:28:36 GMT 2001    PICS     Start Patrol
**PICS PROBLEM**: Fri Jan 19 17:32:26 GMT 2001
Cover was still on at startup.
**PSPT PROBLEM**: Fri Jan 19 17:37:22 GMT 2001
Adjusted dome position with dome goto tweak, cal and ephm.
Startup completed with pspt looking halfway into left side of dome slot wall.
Fri Jan 19 17:39:17 GMT 2001    MKIV     Start Patrol
Fri Jan 19 18:04:08 GMT 2001    PICS     Flat
Fri Jan 19 18:07:52 GMT 2001    PICS     End Flat
Fri Jan 19 18:31:32 GMT 2001    MKIV     Start Patrol
Fri Jan 19 18:34:58 GMT 2001    MKIV     Start Patrol
**MKIV PROBLEM**: Fri Jan 19 18:33:07 GMT 2001
David changed flc phasing by 960th of a second.  Q and U real-time images were
expected to be wierd, but they looked OK this morning.  Xanim .gif images
looked noisy though.  We stopped scans and did "ltc" from akamai with the
shutter in, opal, and opal/15tlt.  Restarted patrol.  No raw image so rebooted
kcc as has been the usual SOP after these tests.  We will now take data and
a calibration with the flc phasing change while David mulls the ltc test
results.
GONG COMMENT: Fri Jan 19 19:05:53 GMT 2001
Going down to GONG to take care of a request.
GONG COMMENT: Fri Jan 19 19:31:58 GMT 2001
Back from GONG.
**MKIV PROBLEM**: Fri Jan 19 19:49:01 GMT 2001
Stopped scans.  Downloading new kcc code with a 960th of a second
change in phasing of the demodulation.
Fri Jan 19 19:50:37 GMT 2001    MKIV     Start Patrol
**MKIV PROBLEM**: Fri Jan 19 19:52:25 GMT 2001
OK, this time the Q signal is "flat", no coronal signal apparent and the U
component appears to have a weak coronal signal in it.
**MKIV PROBLEM**: Fri Jan 19 19:58:25 GMT 2001
Downloading another version of kcc code and trying another scan.
Fri Jan 19 20:00:06 GMT 2001    MKIV     Start Patrol
Fri Jan 19 20:00:53 GMT 2001    CHIP     LSD
Fri Jan 19 20:03:36 GMT 2001    CHIP     End LSD
Fri Jan 19 20:03:49 GMT 2001    CHIP     BiasLSD
Fri Jan 19 20:04:39 GMT 2001    CHIP     End BiasLSD
Fri Jan 19 20:04:53 GMT 2001    CHIP     Bias7
Fri Jan 19 20:05:53 GMT 2001    CHIP     End Bias7
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MKIV PROBLEM: Fri Jan 19 20:06:06 GMT 2001
Again, the Q image is mostly flat and the U image has a weak coronal
signal in it.
MKIV PROBLEM: Fri Jan 19 20:08:43 GMT 2001
Downloading another kcc code tweak and trying another scan.
Fri Jan 19 20:10:32 GMT 2001   MKIV   Start Patrol
MKIV PROBLEM: Fri Jan 19 20:15:46 GMT 2001
The Q signal looks like good coronal signal and the U signal appears
to have a very, very weak coronal signal in it.
MKIV PROBLEM: Fri Jan 19 20:33:55 GMT 2001
Setting up for a photon transfer curve test.
Stopped mk4
put shutter in
powered down flc drive in back of kcc rack
removing cover to pig trough housing the camera
attaching scope to camera output
attempting to adjust light seen by camera to provide a near saturated
signal and a near dark signal.
Fri Jan 19 21:40:52 GMT 2001   MKIV   Start Patrol
Fri Jan 19 21:44:53 GMT 2001   MKIV   Start Patrol
MKIV PROBLEM: Fri Jan 19 21:46:18 GMT 2001
In order to get a light level to appear on the scope, I had to position
a magnifying mirror to concentrate a beam ~1/3 the diameter of the mirror
onto the prism to reflect enough light down to the camera.

With the light coming from other than the telescope, to eliminate the
modulated signal, and with it set up as previously described, I took
an ltc scan with the maximum signal near 1-volt, then with the maximum
signal near 1/2-volt (minimum signal near zero with a full range of
voltage levels across the ccd), and another ltc scan with the mk4
set back up for observation, but with the barrel stopped at the same
(180) position.

With everything restored, I resumed Patrol.
Fri Jan 19 22:03:51 GMT 2001   CHIP   End Patrol
Fri Jan 19 22:03:55 GMT 2001   PICS   End Patrol
Fri Jan 19 22:11:27 GMT 2001
        MkIV

17_39.rawmk4   18_11.rawmk4   19_08.rawmk4   19_41.rawmk4   21_53.rawmk4
17_42.rawmk4   18_14.rawmk4   19_11.rawmk4   19_44.rawmk4   21_56.rawmk4
17_45.rawmk4   18_17.rawmk4   19_14.rawmk4   19_51.rawmk4   21_59.rawmk4
17_48.rawmk4   18_35.rawmk4   19_17.rawmk4   19_54.rawmk4   22_02.rawmk4
17_51.rawmk4   18_38.rawmk4   19_20.rawmk4   20_01.rawmk4   22_05.rawmk4
17_54.rawmk4   18_44.rawmk4   19_23.rawmk4   20_04.rawmk4   c18_41.rawmk4
17_57.rawmk4   18_50.rawmk4   19_26.rawmk4   20_11.rawmk4   c18_47.rawmk4
18_00.rawmk4   18_56.rawmk4   19_29.rawmk4   20_14.rawmk4   c18_53.rawmk4
18_03.rawmk4   19_00.rawmk4   19_32.rawmk4   21_44.rawmk4

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18_06.rawmk4    19_03.rawmk4    19_35.rawmk4    21_47.rawmk4
18_09.rawmk4    19_05.rawmk4    19_38.rawmk4    21_50.rawmk4
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