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Mauna Loa Solar Observatory Observer's Log  
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Fri Jan 9 17:28:48 GMT 1998

Year: 98 Doy: 009

Observer: yasukawa

WEATHER COMMENT: Fri Jan 9 17:29:26 GMT 1998

In thin cirrus, cold, light southwest wind.

Fri Jan 9 17:34:35 GMT 1998 CHIP Startup--Initializing new tape

Fri Jan 9 17:35:37 GMT 1998 MKIII Start Patrol

Fri Jan 9 17:36:24 GMT 1998 CHIP CHIP Start Patrol

Fri Jan 9 17:36:41 GMT 1998 PICS Start Patrol

Fri Jan 9 18:01:04 GMT 1998 CHIP Bias

Fri Jan 9 18:02:07 GMT 1998 CHIP End Bias

Fri Jan 9 18:02:15 GMT 1998 PICS Flat

Fri Jan 9 18:02:24 GMT 1998 CHIP Water

Fri Jan 9 18:03:12 GMT 1998 CHIP End Water

Fri Jan 9 18:03:55 GMT 1998 PICS End Flat

MKIII COMMENT: Fri Jan 9 18:04:28 GMT 1998

MKIII data no good at this time due to thin cirrus. I will continue to run in case holes occur.

Fri Jan 9 19:00:17 GMT 1998 PICS Flat

Fri Jan 9 19:01:10 GMT 1998 CHIP Bias

Fri Jan 9 19:01:42 GMT 1998 PICS End Flat

Fri Jan 9 19:02:21 GMT 1998 CHIP End Bias

Fri Jan 9 19:02:30 GMT 1998 CHIP Water

Fri Jan 9 19:03:21 GMT 1998 CHIP End Water

Fri Jan 9 20:00:06 GMT 1998 PICS Flat

Fri Jan 9 20:01:04 GMT 1998 CHIP Gain

Fri Jan 9 20:01:30 GMT 1998 PICS End Flat

Fri Jan 9 20:06:54 GMT 1998 CHIP End Gain

Fri Jan 9 20:07:04 GMT 1998 CHIP Bias

Fri Jan 9 20:07:58 GMT 1998 CHIP End Bias

Fri Jan 9 20:08:12 GMT 1998 CHIP Water

Fri Jan 9 20:08:56 GMT 1998 CHIP End Water

Fri Jan 9 21:00:14 GMT 1998 PICS Flat

Fri Jan 9 21:01:04 GMT 1998 CHIP Bias

Fri Jan 9 21:01:40 GMT 1998 PICS End Flat

Fri Jan 9 21:02:19 GMT 1998 CHIP End Bias

Fri Jan 9 21:02:29 GMT 1998 CHIP Water

Fri Jan 9 21:03:20 GMT 1998 CHIP End Water

COMMENT: Fri Jan 9 21:44:18 GMT 1998

GUIDER OSCILLATION INVESTIGATION:

Hmmmm.... Since the day's coronal data is shot due to cirrus, I tried disconnecting the output of the stepper drivers to the O1 guider motors. I did this for both X and Y axis and then individually. What I found was when the X-axis stepper motor was stopped, the spar guider right

ascension monitor signal stopped oscillating as much as it has been. It oscillates a little. but the oscillation is more random, like it is just correcting for normal buffetting and seeing, etc. My thinking is that the spar guider RA oscillation is a result of the vibration caused by the X-axis chatter of the O1 guider stepper, or the resulting X-axis motion of the O1's mass. Next step would be to try and reduce the gain of the O1 guider X-axis output to reduce or eliminate the vibration. One intermediate test would be to disconnect the O1 guider all together to on a good day to determine if the O1 guider is really needed for good data.

Fri Jan 9 22:00:15 GMT 1998	PICS	Flat
Fri Jan 9 22:01:02 GMT 1998	CHIP	Bias
Fri Jan 9 22:01:40 GMT 1998	PICS	End Flat
Fri Jan 9 22:01:59 GMT 1998	CHIP	End Bias
Fri Jan 9 22:02:09 GMT 1998	CHIP	Water
Fri Jan 9 22:02:55 GMT 1998	CHIP	End Water
Fri Jan 9 22:09:37 GMT 1998	PICS	End Patrol
Fri Jan 9 22:09:37 GMT 1998	PICS	End Patrol
Fri Jan 9 22:12:43 GMT 1998	CHIP	ending tape

COMMENT: Fri Jan 9 22:13:00 GMT 1998

Tapes:

MKIII: no data

PICS: P01081

CHIP: C00469

LOWL: L00491

Fri Jan 9 22:14:21 GMT 1998

MkIII