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Mauna Loa Solar Observatory Observer's Log  
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Wed Aug 25 16:28:59 GMT 1999

Year: 99 Doy: 237

Observer: koon

WEATHER COMMENT: Wed Aug 25 16:29:00 GMT 1999

Clear sky, wind=10 mph from the SE, temp=46 F.

Wed Aug 25 16:30:12 GMT 1999 CHIP Startup--Initializing new tape

Wed Aug 25 16:34:09 GMT 1999 CHIP CHIP Start Patrol

Wed Aug 25 16:34:09 GMT 1999 CHIP CHIP Start Patrol

\*\*MKIV PROBLEM\*\*: Wed Aug 25 16:40:32 GMT 1999

Selecting Patrol didn't do anything, selector field went white but barrel didn't start scanning. Cycled main MKIV power, then barrel got stuck near a limit, turned off spar power strip and pointed barrel to other limit and turned power strip back on, went off to work on other problems, came back and the barrel was stuck on the limit again. Turned off MKIV main power, turned off the spar power strip, repointed the barrel, turned on power strip, turned on main power.

MKIV COMMENT: Wed Aug 25 16:50:15 GMT 1999

lost tracking a few times while working on latest MKIV problems.

\*\*LOW-L PROBLEM\*\*: Wed Aug 25 16:50:52 GMT 1999

L00621 was popped out of drive #1, data are going to L00622 in drive #0.

Top amber LED on drive #1 blinking at 1 HZ. Installed L00623 in drive #1.

\*\*MKIV PROBLEM\*\*: Wed Aug 25 16:56:34 GMT 1999

I clicked on the Begin Day field and then the Patrol field as I usually do, but still the scans aren't starting. Will have to go through the logs for the past few days and my email to see if I can find out what changes might be causing this.

Wed Aug 25 17:01:50 GMT 1999 CHIP Bias

Wed Aug 25 17:02:39 GMT 1999 CHIP End Bias

Wed Aug 25 17:02:47 GMT 1999 CHIP Water

Wed Aug 25 17:03:23 GMT 1999 CHIP End Water

\*\*MKIV PROBLEM\*\*: Wed Aug 25 17:48:33 GMT 1999

David called, he changed some stack sizes back to previous values, that may fix the current problem. I turned off the main MKIV power and Spar power strip, pointed the barrel to appropriate limit, then turned it all back on. But it looks like it is showing the same Access Fault lines in the Akamai window:

Access Fault

Program Counter: 0xe0c02f3c

Status Register: 0x3004

Access Address : 0xe0c02f38

Special Status : 0x05e6

Task: 0x34946c ""

value = 0 = 0x0

Wed Aug 25 18:00:08 GMT 1999 PICS Flat

Wed Aug 25 18:00:58 GMT 1999 CHIP Bias

Wed Aug 25 18:01:49 GMT 1999 CHIP End Bias

Wed Aug 25 18:01:57 GMT 1999 CHIP Water

Wed Aug 25 18:02:32 GMT 1999 CHIP End Water

Wed Aug 25 18:02:41 GMT 1999 PICS End Flat

Wed Aug 25 18:10:56 GMT 1999 MKIV Start Patrol

Wed Aug 25 18:26:39 GMT 1999 MKIV Start Cal

\*\*MKIV PROBLEM\*\*: Wed Aug 25 18:27:44 GMT 1999

Still can't get the desired files transferred during the calibration, without crashing the KCC. David changed the code back to previous code. I am taking a calibration, then will continue with regular Patrol.

Wed Aug 25 18:50:05 GMT 1999 MKIV Start Patrol

Wed Aug 25 19:01:01 GMT 1999 PICS polarization\_calibration

Wed Aug 25 19:02:56 GMT 1999 CHIP Bias

Wed Aug 25 19:03:54 GMT 1999 CHIP End Bias

Wed Aug 25 19:04:04 GMT 1999 CHIP Water

Wed Aug 25 19:04:46 GMT 1999 CHIP End Water

COMMENT: Wed Aug 25 19:20:28 GMT 1999

Will extend the dome slot shortly.

MKIV COMMENT: Wed Aug 25 19:21:02 GMT 1999

Stopped Patrol, will try to align the MKIV optics as requested by David.

Wed Aug 25 20:02:47 GMT 1999 CHIP Gain  
Wed Aug 25 20:07:18 GMT 1999 CHIP End Gain  
Wed Aug 25 20:07:28 GMT 1999 CHIP Bias  
Wed Aug 25 20:08:16 GMT 1999 CHIP End Bias  
Wed Aug 25 20:08:26 GMT 1999 CHIP Water  
Wed Aug 25 20:09:02 GMT 1999 CHIP End Water  
Wed Aug 25 21:00:48 GMT 1999 CHIP Bias  
Wed Aug 25 21:01:39 GMT 1999 CHIP End Bias  
Wed Aug 25 21:01:49 GMT 1999 CHIP Water  
Wed Aug 25 21:02:29 GMT 1999 CHIP End Water  
Wed Aug 25 22:02:48 GMT 1999 CHIP Bias  
Wed Aug 25 22:03:40 GMT 1999 CHIP End Bias  
Wed Aug 25 22:03:50 GMT 1999 CHIP Water  
Wed Aug 25 22:04:27 GMT 1999 CHIP End Water  
Wed Aug 25 22:26:34 GMT 1999 MKIV Start Patrol

MKIV COMMENT: Wed Aug 25 22:28:21 GMT 1999

I tried aligning the German lens just before the camera. There isn't a lot of movement available due to the mounts and/or cam mechanisms reaching their limits, and there is mechanical cross-talk between axes - especially near the limits. I tried taking out the setscrews in case they were limiting needed travel, but was able to find the best signal (at limits) without the setscrews causing those limits (I could get them back in after the limits were reached). So I peaked the signal while David verified values with me via telephone and the computer network, he was able to quantify signals by remotely using the akamai computer. It may be possible to increase the signal if that lens could be moved beyond the limits or if other optical components are realigned too.

MKIV COMMENT: Wed Aug 25 22:35:35 GMT 1999

The scans look much less noisy to me.

Wed Aug 25 22:39:06 GMT 1999 PICS End Patrol  
Wed Aug 25 22:40:21 GMT 1999 CHIP CHIP End Patrol  
Wed Aug 25 23:08:26 GMT 1999 CHIP ending tape

COMMENT: Wed Aug 25 23:19:13 GMT 1999

TAPES:

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MKIV: 99237

CHIP: C00905

PICS: P01529

LOWL: L00622 in drive #0

Wed Aug 25 23:20:16 GMT 1999

MkIII

18_11.rawmk3	18_50.rawmk3	19_09.rawmk3	22_43.rawmk3	c18_26.rawmk3
18_14.rawmk3	18_53.rawmk3	22_27.rawmk3	22_46.rawmk3	c18_34.rawmk3
18_30.rawmk3	18_57.rawmk3	22_31.rawmk3	22_50.rawmk3	c18_42.rawmk3
18_38.rawmk3	19_01.rawmk3	22_35.rawmk3	22_54.rawmk3	
18_46.rawmk3	19_05.rawmk3	22_39.rawmk3	c18_18.rawmk3	