
Mauna Loa Solar Observatory Observer's Log

Wed Jun 22 16:26:58 GMT 2005

Year: 05 Doy: 173

Observer: yasukawa

WEATHER COMMENT: Wed Jun 22 16:27:20 GMT 2005

In moderate cirrostratus overcast, high cloud bank to east, S wind 11 mph,
temp 40 F, RH 85%.

____end____

Wed Jun 22 16:34:58 GMT 2005 CHIP Start Patrol

Wed Jun 22 16:35:09 GMT 2005 PICS Start Patrol

PSPT COMMENT: Wed Jun 22 16:45:10 GMT 2005

Starting up

____end____

PSPT COMMENT: Wed Jun 22 16:53:39 GMT 2005

Observing.

____end____

Wed Jun 22 17:47:47 GMT 2005 CHIP End Patrol

WEATHER COMMENT: Wed Jun 22 17:47:14 GMT 2005

mist blowing over station from cloud bank to east and south.

Closing domes. Idling observations.

____end____

Wed Jun 22 17:48:18 GMT 2005 PICS End Patrol

ECHO COMMENT: Wed Jun 22 17:54:07 GMT 2005

Time OK.

____end____

Wed Jun 22 21:14:43 GMT 2005 CHIP Start Patrol

Wed Jun 22 21:14:55 GMT 2005 PICS Start Patrol

WEATHER COMMENT: Wed Jun 22 21:14:38 GMT 2005

Misting has declined, resuming PICS, CHIP, and PSPT observations.

In thinner cirrostratus overcast.

____end____

Wed Jun 22 21:43:31 GMT 2005 CHIP End Patrol

Wed Jun 22 21:43:35 GMT 2005 PICS End Patrol

WEATHER COMMENT: Wed Jun 22 21:43:36 GMT 2005

Fog rolled in from downslope. Closing domes. Idling instruments.

____end____

NICE PICSLIMB IMAGE: 2131

NICE PICSDISC IMAGE: 2133

NICE CHIP IMAGE: 2132

PSPT PROBLEM
Thu Jun 23 00:48:55 GMT 2005

Did a partial autopsy on the Lytron recirculating chiller pump. Awaiting Darryl and Allen's opinions but it looks like initial use of the aluminum heat exchangers and running an antifreeze coolant thru the circulator may have caused excessive corrosion--evident in the effort I had to make to scrape that stuff off the plates when we replaced them with the copper tube version of the heat exchanger plates. The Fluid-o-tech

pump unit has an integral filter screen that was clogged with gunk-- almost like blue (copper?) kidney or gall stones. It was probably that and possibly friction due to wear and lubricant deterioration that produced enough resistance to stall the motor. Motor runs OK, albeit a bit noisily, with no load. Motor's centrifugal switch appeared to work OK, contacts were not very dirty or burned. Windings looked OK. Fibrous packing around bearings was broken up a little, tamped it down. The slot in the output shaft was pretty worn out--looked like a hysteresis curve rather than a nice rectangular cut.

____end____

Thu Jun 23 01:06:47 GMT 2005

MkIV