

SKYLAB MC-43

Time: 7:00 CDT, 18:30:00 GET

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PAO This is Skylab Control. Twelve hundred hours Greenwich Mean Time. Skylab Space Station crossing the east coast of China, out into the western Pacific. And now being tracked by the Guam Island tracking station. Current measurements on the Skylab orbit: 236.1 at perigee and 238.1 nautical miles at apogee. During the past twelve hours of this shift the attitude system on Skylab has been performing quite well. And in the modified passive thermal control mode scheme here the attitude has been modified periodically by ground command to change the temperature, to get the temperature down to a better balance by alternating from the solar inertial attitude to one somewhat away from a Sun-oriented attitude. It may take several revolutions to really pin down what the net effect of this modified passive thermal control mode is. The so called passive thermal control used in Apollo was a slow rotation to barbecue the spacecraft during the transearth and translunar coast periods. It appears at this time that there will not be a change of shift briefing with the off coming Flight Director Milt Windler who was rather reluctant after 12 hour stint to stay out of bed any longer. So at 12:04 Greenwich Mean Time this is Skylab Control.

END OF TAPE

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PAC This is Skylab Control 1300 hours Greenwich Mean Time. Skylab Space Station over the Central Atlantic, crossing over in less than a minute into acquisition by the Canary Island Tracking Station. And we'll pass over the Iberian Peninsula, Southern France, Switzerland, across Eastern Europe, European Russia, and Central Asia before starting the descending mode across the sub-continent of India. At the current time, the temperatures aboard Skylab are fairly well staying in the low hundreds in the interior temperature readings. One of the scientific airlock sensors is showing readings in the 150 degree Fahrenheit range. Skin temperatures exterior to the vehicle are continuing to run rather high between 250 and 300 degrees. One way this is being off-set and modified somewhat is by tilting the spacecraft periodically away from the solar inertial attitude. And the resulting curves of the temperature plot look rather like a saw with teeth. As reported earlier there will be no change of shift briefing, as such, with the off-going flight director, who is rather beat after 12 hours. However, one of the offline flight directors, Chuck Lewis, who has been conducting some of the contingency planning on how to run the mission, what problems need to be intact. We'll appear at the Houston News Center, at about 9:30 Central Daylight Time to discuss the offline planning activities. Some 7 minutes remaining in Canary Islands crossing over to Madrid Station; almost directly over Madrid. At 13:03 Greenwich Mean Time, this is Skylab Control

END OF TAPE

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TIME: 09:00 CDT, 01:20:30 GET

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PAO This is Skylab Control. Fourteen hundred hours Greenwich Mean Time. Skylab space station presently in the South Central Pacific just east of New Zealand. We'll start on it's 27 - near the end of it's 27th revolution some 31 minutes out of the Bermuda tracking station across the northern portion of the South American continent. And in each succeeding revolution will begin a series of stateside passes during the later morning. On the next cycle of moving out of the solar inertial attitude over to what is called Z-local vertical, in other words locking down at the surface of the Earth, the space station will not be brought all the way back to solar inertial but will stay offset approximately 55 degrees. The flight controllers will then watch the temperature readings to see if perhaps this offset will have some effect on bringing down the temperatures until the crew gets up to the space station and can make some sort of fix. We're still estimating approximately 9:30 central daylight time on the briefing by one of the offline flight directors, Chuck Lewis, in the Johnson Space Center news room. At 14:02 Greenwich Mean Time this is Skylab Control.

END OF TAPE

SL-1 MC-48/1

Time: 10:00 CDT, 01:22:30 GMT

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PAO This is Skylab Control. Sixteen hundred hours GMT. Skylab space station nearing the end of its 28th Earth orbit. We'll cross the Central American - yes, Central America portion and at Cuba very shortly to start the 29th revolution. Currently Skylab is in an orbit almost circular of 235.8 at perigee about 236.7 nautical miles apogee. It takes an hour and 33 minutes and 17 seconds to make one circuit, one orbit from Cape longitude crossing back around again. Two minutes away from acquisition by the Texas and three minutes away from MILA station acquisition. And at 16:01 Greenwich mean time this is Skylab Control.

END OF TAPE

SL-1 MC-49/1

Time: 12:00 CDT, 01:23:30 GMT

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PAO This is Skylab Control at 1700 hours, Greenwich mean time. We're on the 29th rev in contact with the Carnarvon site at the present time. Pete Conrad and his prime crew today are in the Skylab simulator over here in Houston practicing a Skylab fly-around SIM and a rendezvous SIM. The backup crews are working with some JSC engineering and flight control task teams by telephone on some of the Skylab 1 problems. At 1 day, 23 hours, 30 minutes, and 56 - 58 seconds elapsed time in the Skylab 1 launch, this is Skylab Control.

END OF TAPE

SL-1 MC-50/1

TIME: 13:00 CDT, 2:00:30 GET

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PAO. This is Skylab Control; 1800 hours Greenwich mean time. Skylab space station now crossing the northeastern coast of France on the 30th revolution, being tracked by the Madrid station. Cabin pressure aboard the Skylab - workshop is holding between 4-1/2 to 5 pounds. Internal temperatures by the various sensors range in the low hundreds, that is around 115 to 120 in most locations. At the scientific airlock the temperature is ranging from 170 to 190 degrees Fahrenheit. External scan temperatures are running between 240 and 300 degrees. Battery temperatures in the power system - the electrical power system are running around 30 to 40 degrees. And sensors on the ATM Apollo telescope mount solar panels show temperatures of 90 to 100 degrees. Rather quiet here in the Control Center midway through the 12-hour shift. Flight Director Don Puddy continuing to direct his team of flight controllers and managing the spacecraft systems. The guidance attitude control system still operating normally. We've not been on the thruster attitude control or TACS systems since sometime yesterday. The quantities remaining of the gaseous nitrogen used in the TACS system is still hanging at about 82 percent. And at 18:02 Zulu, this is Skylab Control.

END OF TAPE

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Time: 13:45 CDT, 02:01:08 GET

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PAO May I have your attention, please?
Glenn Schneider, the Skylab program manager, will be available
to answer questions from the Press at 5:00 PM eastern day-
light time today. We'll have two A audio hookups between
the Skylab News Center at KSC and the Skylab News Center
at JSC. This will emanate from the Marshall Space Flight
Center in Huntsville, Alabama. That's at 5:00 PM eastern
daylight time this afternoon.

END OF TAPE

SL-1 NC-52/1

Time: 14:00 CDT, 2:01:30 GMT

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PAO

This is Skylab Control at 1900 hours GMT.

Skylab 1 currently is over the waters of the Pacific heading toward the Goldstone tracking site. Expect to acquire the unmanned vehicle in approximately 13 minutes and 50 seconds. On this pass the unmanned vehicle will be heading across the good old USA in a northerly direction passing over the Great Lakes. A reminder to news media. William C. Schneider, Skylab program director, will be available to answer questions from the press at approximately 4 p.m. Houston time via two-way audio hookups between the Skylab News Center at KSC, the Johnson Space Center in Houston, and the Marshall Space Flight Center in Huntsville. At 1900 hours 1 minute Zulu, this is Skylab Control.

END OF TAPE

SL-1 MC-53/1

Time: 15:00 CDT, 2:02:30 GRT

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PAO This is Skylab Control; 2000 hours Greenwich mean time. Skylab space station presently over the Malagasy Republic on the island of Madagascar on revolution number 31. Currently the Skylab has an orbit measuring 235.3 nautical miles by 238.4. Velocity currently 25,094 feet per second. Orbital period 1 hour 33 minutes 23 seconds. The Skylab is gradually drifting back to the solar inertial attitude. So it may be necessary later on in the day to do a small maneuver to re-introduce the offset from the direct solar inertial attitude to reduce heating on the spacecraft. The spent S2 stage which boosted the Skylab space station into orbit is now out ahead of Skylab by some 4700 nautical miles. In the Houston area tonight there will be a likelihood of - a fairly good likelihood actually of spotting Skylab at 8:52 central daylight time, when the space station will cross from northwest to southeast at maximum elevation of 79 degrees and a slant range of 275 nautical miles - statute miles, I beg your pardon. At 20:02 Zulu, this is Skylab Control.

END OF TAPE

SL-1 MC54/1

Time: 19:30 CDT 02:07:00 GET

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PAO This is Mission Control at 31 minutes and 9 seconds after the hour. Flight Director Don Puddy has handed over to Milt Windler's team. The offgoing report - it's now in the 34th revolution of Skylab. The spacecraft is traveling on a descending node. Traveling off the Atlantic Coast of South America. Don Puddy reports before going off that attitude modification to achieve thermal stability has shown indications of success. Temperature levels have been dropping in the spacecraft, although rather slowly. They have moved from 45 degrees through 50 degrees and are traveling at 55 degree pitch, to a Z inertial, and they are now also doing some work in the back room on possible structural cleanup for an EVA, structural cleanup on the SAS particularly. They are planning on providing tools, including a long pole with a hook and a cutting device to remove external debris from the spacecraft. This would be done on a standup EVA. The temperatures inside the spacecraft right now vary widely from the area back in the MDA, where they are approximately 55 degrees through approximately 108 degrees, and in the ceiling of the experimental compartment. Temperature right now in the ceiling of the wardroom is approximately 99.9 degrees. There will be a press conference held at - between somewhere between 8:15 and 8:30, with Flight Director Don Puddy, and there will also be at the press conference, a representative of Marshall Space Flight Center, either Jack Waite or Bob Pace. This is Mission Control at 32 minutes and 47 seconds after the hour.

END OF TAPE

SL-1 MC-55/1

Time: 2000 CDT; 2:07:31 CRT

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PAO

This is Skylab Control at 1 minute and 20 seconds after the hour. Spacecraft is now beginning its ascending node across the Indian Ocean. This is the 34th revolution. It will pass across the area of Houston, and across the west coast of the United States. We're still looking for our press conference at approximately 8:15 with Don Puddy and a representative of the Marshall Space Flight Center. The mission seems to be going very well, temperatures have cooled down somewhat and stabilized at approximately 105 degrees on the internal metal surfaces of the solar side of the workshop, and there are some lower temperatures inside. This is Skylab Control at 1 minutes and 55 seconds after the hour.

END OF TAPE