

ASTP (USA) MC606/1  
Time: 21:51 CDT, 182:30 GET  
7/22/75

PAO Apollo Control ground elapsed time 182 hours, and 30 minutes. The sleep period for tomorrow morning will end at 00:45 (sic) a.m. central daylight time, approximately 40 minutes early. This is at the crews' request to give them sufficient time to get breakfast, through their postsleep activities, and to be ready for the morning press conference which begins at 07:30 a.m. Acquisition through Quito, we'll bring the line up for cap comm Dick Truly.

CC-H Apollo, Houston at Quito, for 6 minutes and we'd like ACCEPT please.

DMP Okay, you've got it.

CC-H Apollo, Houston. Before we start our uplinks, I wonder if you could clear the DSKY off with a VERB 37. Guidance will feel warmer when he starts his uplinks if you do that. Thank you lot.

CC-H Apollo, Houston.

ACDR Go ahead, Dick.

CC-H Hey, Tom, in order to keep our water in the right tanks - what we'd suggest is that you while you're eating and drinking water that you close the inlet to the potable tank, and then when you go to chlorinate it later on open it of course, and then after the chlorination is finished about 15 or 20 minutes after that close it and - we'll sleep with it closed tonight.

ACDR Okay. In other words open now, and then after chlorination close it right?

CC-H No, if it's already closed now, leave it closed until after you eat, and then open it for the chlorination, and then sleep with it closed.

ACDR Okay. Let me check it.

CC-H Okay, and we're about 30 seconds from LOS, and we'll see you when you get locked up on ATS.

CC-H And Apollo, Houston, we're not through with uplinks, we'll finish them on the ATS.

CMP Okay, Dick.

ACDR Dick the potable inlet valve is OPEN, at this time. Do you want it closed?

CC-H Yes, affirm. Go ahead and close it Tom, and we - yes, close it now.

PAO Apollo Control, ground elapsed time 182 hours, 37 minutes, 1 hour and 23 minutes away from the start of this evening's rest period. A 6 and a half hour rest period tonight. A shortened one because the crew has requested that they - crew requested an early wakeup in order to have sufficient time to prepare for the - to get their breakfast, and postsleep activities out of the way, before the start of the morning's press conference. We'll hold the line up for the ATS-6 acquisition in approximately 2 minutes.

END OF TAPE

ASTP (USA) MC607/1  
Time: 22:01 CDT, 182:40 GET  
7/22/75

CC-H Apollo, Houston, through the satellite. We already  
have ACCEPT I believe and we'll be finishing up our uplinks here.

USA Okay.

CC-H And Apollo, Houston. When you guys settle down, and  
I don't know where you are. But when you settle down, if you would like  
to hear some news during your eat period, I'll be glad to read you up some.

ACDR Yes. Okay, wait till Deke gets back on his headset  
here.

CC-H Okay. Anytime, Tom.

CMP Let 'er rip, Dick, if you're ready.

CMP Okay Vance. Of course the big news today is still  
you guys. There have been many stories on the wires and in the papers  
concerning everything from Earth observations to killifish, and we're  
looking forward to the entry that will be coming up in a couple days. The  
Ford Administration Tuesday, unveiled its proposed gun control law that  
includes an FBI check on those who wish to buy hand guns and set certain  
strict standards for their manufacture. Attorney General Levi told the Senate  
Juvenile Delinquency subcommittee that the administration's bill concentrates  
on illegal commerce and hand guns, and centers its new enforcement efforts  
on 10 large metropolitan areas where the problem of hand gun violence  
reached crisis proportions. Pushed by higher prices for food, gasoline  
and used cars, consumer prices increased 8-tenths of 1 percent in June,  
the biggest monthly rise in inflation this year, the labor department  
said today. The Senate today confirmed today Dr. Farrest David Matthews,  
President of the University of Alabama to be the new Secretary of  
Health, Education and Welfare. Also on Capitol hill, the House voted  
to end the so called fair trade laws that allow manufacturers to set retail  
prices on their products in many states. The measure, backed by the Ford admin-  
istration and consumer groups, was approved by the House 380 to 11 Monday  
and sent to the Senate. The upper house of India's Parliament today approved  
Prime Minister Indira Gandhi, they approved her declaration of a national  
emergency touching off a walkout by members of noncommunist opposition  
parties. The House today voted to restore Confederate General Robert  
E. Lee's citizenship which he lost after the Union victory in the War  
Between the States.

END OF TAPE

ASTP (USA) MC608/1  
Time: 22:11 CDT, 182:50 GET  
7/22/75

CC-H - - The House today voted to restore Confederate General, Robert E. Lee's citizenship, which he lost after the Union victory in the War Between The States. The vote was 407 to 10, well over the two-thirds needed for approval under House procedures to speed up action on the measure. The measure now goes to President Ford. The Senate approved the bill unanimously in April. In Los Angeles, California police tried everything to get City Attorney, Burt Pine's stolen official car back, even placing calls to the thief on the car's mobile telephone. No one answered though, and the police issued an all points bulletin Monday for the car, which was stolen Friday from a guarded city hall garage. In sports today, Billy Martin has been fired as the manager of the Texas Rangers. Martin, who was the American League Manager of the Year 1974, said the front office wanted a winner and a yes man and they can't have both. The Houston Astros - excuse me, - the Houston Astros beat the New York Mets last night, 6 to 2. But the Astros are still 30 games out of first place in the National League West Division. And I'm just told that they lost the game tonight 2 to 1. Cincinnati leads the West division, while Pittsburgh is in the lead in the Eastern division. When A. J. Foyt won a big auto race near Detroit, Sunday, it assured the Houstonian of his sixth U.S. Auto Club Driving Championship. And finally in sports, President Ford held a brief ceremony at the White House rose garden Monday to honor Wibleton singles champions, Billy Jean King and Arthur Ash. Deke, here's a story that you might be interested in. Today in Friendswood was Marge Slayton day. A group of Marge's friends gathered at Brown's Pharmacy, that's Marge's favorite coffee spot, and greeted her this morning with a surprise party. She was presented a gold medallion, on the back it read "Marge Slayton Day." And also, a needle point commemorating the ASTP mission. When the newsmen asked her how she felt, she said, "I thought Deke was having all the fun up there, and now I feel like I'm having more fun than him." So, you better get home.

DMP Hey, thanks a lot Dick. Congratulations to old Marge.

CC-H Rog.

ACDR (Garble)

CC-H Roger. Well, it sounds like they're taking care of everything out there and remembering her very well.

ACDR Yea, they're a bunch of fine people there. They're friendly folks in Friendswood.

CC-H Roger. And we're going to be changing ATS modes here. I'll drop out here for a couple of seconds and then I'll be back up. And Apollo, Houston. You can go to BLOCK, the computer is yours.

CC-H Apollo, Houston. We've changed the ATS modes now.

How do you read?

ACDR Five by, Dick. Just fine.

CC-H Okay. And while y'all are eating here's one more message from the Silver Team.

MCC-H (Music)

ASTP (USA) MC608/2

Time: 22:11 CDT, 182:50 GET

7/22/75

CMP                    Hey, very nice. Thank you, Silver Team.  
ACDR                   Yea, that's great.  
CC-H                   Roger.  
DMP                    Couldn't find the Glen Miller album, but it was  
great substitute.  
CC-H                   Roger. Incidentally, when you guys get through  
with your meal up there, I've got my normal little list of little things  
to - to pass up to you. We've still got 35 minutes and it's a - -

END OF TAPE

ASTP (USA) MC609/1

Time: 22:21 CDT, 183:00 GET

7/22/75

CC-H                    Incidentally, when you guys get through with your meal up there, I've got my normal little list of little things to pass up to you. We've still got 35 minutes in this ATS pass so when you get a moment, and you get through eating we might talk a few minutes. But no hurry.

PAO                    Apollo control, ground elapsed time 183 hours. The music of Roberta Flack, the song "Last (sic) Time I Ever Saw Your Face," a favorite of Flight Director, Neil Hutchinson. He has had it played up to the crew tonight as he had on Apollo 17, as well as Skylab 2, 3, and 4. We'll hold the line up for the ATS pass.

USA                    So we return the favor early (?).

CC-H                    Roger. We enjoyed that. The G&C Terry Watson said he wasn't sure that was a fair trade for Roberta Flack, but it was still good.

END OF TAPE

ASTP (USA) MC610/1

Time: 22:31 CDT, 183:10 GET

7/22/75

CC-H Apollo, Houston. We still have about 15 minutes left here in this ATS pass and I wondered if we could take 4 or 5 minutes out and let me read you a couple of changes in the flight plan and also get down to your - some of the presleep stuff and tell you the things we needed done before you go to bed.

ACDR Sure.

CC-H Okay. One thing while I'm getting ready. I've got a change in the flight plan at 183 hours and 20 minutes or so. And also, we're standing by to look at the VERB 74.

ACDR Okay, Dick. I've got a pencil.

CC-H Okay, Tom. First thing, I want to change the high gain there in Deke's column. Now it should read pitch minus 7, yaw of 274.

ACDR Roger. That's minus 7 and 274.

CC-H Okay, Tom. And right above that - you see where it says EUV to ops per the cue card. One change that we'd like to do tonight is that we would like to use detector 1 instead of detector 2 as - -

END OF TAPE

ASTP (USA) MC611/1  
Time: 22:41 CDR, 183:20 GET  
7/22/75

CC-H - - for the cue card. One change that we'd like to do tonight is that we would like to use detector 1 instead of detector 2 as it's listed on the cue card. And the reason is because of the dead band we're sleeping in tonight. That detector has a more proper field of view so you'd use - you might just jot it down there to use detector 1 tonight on the EUV.

ACDR Okay, one EUV that we leave on all night, detector 1.

CC-H That's correct. And back to the sample number 7 that was leaking today, if you'd - if it's still around and you can find it, we would like to bring that thing home. Our suggestion is that you wrap the sample in a towel and then place it in an extra fecal bag that has the germicidy pouch removed, stow it in A6 for entry

ACDR But, the instruction says throw it away so it's in the garbage bag someplace and we'll do our best to retrieve it.

DMP Guys, I know where it is, (garble) will get her.

CC-H Okay, fine. We'd appreciate if you can find it. And also if we could get the battery readouts for BAT C and pyros of BATS B and C we'd appreciate it.

ACDR Okay, stand by.

ACDR Dick, what's our position right now?

CC-H You're on an ascending pass and you're just looking at our big 10 by 20, looks like you're just about very shortly going to be crossing over Thailand, North Vietnam and China. You're going to cross the Korean peninsula here in a few minutes and then top that up there by the Aleutians.

ACDR Okay, we just got some - some good - Deke has got some good target opportunities for Farouk there.

CC-H Roger.

ACDR Okay, go ahead. What do you have next, Dick?

CC-H Okay, we're ready to - we have data. We're ready to go ahead and shut down the secondary coolant loop evaporator and also, we want to shut down that loop and get the pump OFF and we'll be watching you do that.

ACDR Okay, Vance has got that in work right now.

CC-H Yeah, yeah, evaporator OFF first and then the pump.

ACDR Roger.

DMP Dick, you wanted batterys, BAT C is 37, pyros A is 370, B is 369.

CC-H Okay, Deke, thanks alot. A couple of cleanup items down in LEB, we'd like to zero the optics and get the G&N power optics to OFF. And also again we're standing by for the VERB 74.

ACDR You got the VERB 74.

CC-H Okay, great.

CC-H And Apollo, Houston. One more thing, we're ready to close the waste stowage vent valve, as I said before, do not stow the cabin vent QD as it says in the flight plan.

ASTP (USA) MC611/2  
Time : 22:41 CDT, 183:20 GET  
7/22/75

ACDR Don't stow it - you mean - in other words leave the cabin vent to open or shut it? In other words put the - take the QD off or on, sorry, Dick, I couldn't understand you.

CC-H Well, what I was referring to, Tom, in the - in the flight plan the DP's column, it says remove cabin vent QD and stow in the right hand equipment bay, PSB. We don't want you stow it away because we are - we do expect to be using it tomorrow but we are ready to close the waste stowage vent valve.

ACDR Oh, okay.

ACDR Okay, Houston. Just to reverify here, you don't want the urine dumps tonight. Affirmative?

CC-H Let me check on that, Tom. Stand by one.

CC-H Tom, Houston. Once we get the covers open, we would appreciate no urine dump; , however, you can go ahead and do urine dumps now and then just wait 15 minutes to do the - the ops per the flight plan there.

ACDR In work.

CC-H Roger, and let's see, I think we've seen just about everything on data except we - except for the optic zero and get that off. And a reminder, after you chlorinate the water in the - in the postsleep - in the presleep checklist, we'd like you to wait a little while and then close the potable tank inlet.

ACDR Got it.

END OF TAPE



ASTP (USA) MC612/1  
Time: 22:51 CDT, 183:30 GET  
7/22/75

CC-H Apollo, Houston. You're looking real good - we're 2 minutes to AST LOS. We have one more pass tonight it's a short one at Goldstone at 183 plus 52, I'll see you then.

ACDR Okay, good, they got the word to wake us up in the morning there 40 minutes early. Pass that on. I guess Bo will be on then right?

CC-H That's right Bo, will here - be here shortly and I'll be sure and pass that on. Incidentally Tom on that - the pass we're planning on trying to wake you up is a real short one there at Santiago, and it doesn't have a VHF backup. But even if we miss that the next one is only about 10 minutes down the line. So at any ra - at the worst it'll be 20 to 30 minutes early.

ACDR Sounds good.

CC-H Okay, fine. - - And I'll give you a call at Goldstone.

PAO Apollo Control ground elapsed time 183 hours, and 33 minutes, loss of signal through the Applied Technology Satellite. Next acquisition will be through Goldstone in 18 minutes and 33 seconds. Wakeup time tomorrow moved up approximately 30 minutes at the request of Tom Stafford to provide the crew sufficient time to get their morning meal and postsleep activities out of the way, before the start of the press conference. Tomorrow's activities include the undocking of the docking module. The docking module will be used in conjunction with the command module for the performance of the MA089 Doppler Tracking experiment. Equipment aboard the command service module and docking module will be used following the separation of the two to perform experiments that will include the detecting and measuring localized deviations in the Earth's gravity field, which provides one of the few clues on the internal distribution of mass near the Earth's surface. The results are expected to provide among other data new information that may assist in refining and defining the detailed structure of the continental boundaries. The command service module and docking module will serve as two separate satellites. They will separate to a distance of approximately 186 miles, and this command service module will receive the transmitted signals from the docking module as they travel in the same orbit. And this configuration of Doppler measurements between the two spacecraft are expected to resolve mass anomalies of approximately 124 by 217 miles in size. Other activities on the flight plan for tomorrow include the additional visual observations, photography. The first opportunity is photographing and describing the Anzus Eddy, which is off the coast of Australia, just southeast of Sidney. The second opportunity comes - on revolution 124 when the crew will have another opportunity to photograph the snow peaks of the Washin - the Washington state. And the spacecraft crosses inland - they will be asked to photograph again the iron mines areas at Lake Superior, and describe and photograph any color oxidation of the Sudbury area of Canada. Next acquisition in 15 minutes, and 55 seconds through Goldstone. At ground elapsed time of 183 hours and 36 minutes this is Apollo Control.

END OF TAPE

ASTP (USA) MC613/1  
Time: 23:14 CDT, 183:52 GET  
7/22/75

PAO Apollo Control. Ground elapsed time 183 minutes,  
53 - 183 hours, 52 minutes. Acquisition through Goldstone.  
CC-H Apollo, Houston. Goldstone for 2 minutes.  
CMP Hello, Dick. How you doing?  
CC-H Real fine down here.  
ACDR Okay. We're just working away a little bit here.  
Listening to (garble on the squat box).  
CC-H Roger.  
CC-H Apollo, Houston. We're 30 seconds from LOS. We'll  
see you in the morning. We'll wake you up early and we do not see that  
the SIM BAYS are activated yet. Just be sure and don't forget to activate  
them and use detector 1 on the EUV.  
CMP Okay. Understand. We're still venting.  
CC-H Okay. Understand. So, we'll see y'all in the  
morning.  
CMP Goodnight.  
PAO Apollo Control. Ground elapsed time 183 hours,  
55 minutes. Loss of signal through Goldstone as the crew is bid good  
night from CAP COMM Dick Truly. Wake up period will be at 5:45 a.m.,  
central daylight time. Tomorrow's activities include undocking of the  
docking module from the command module. Per - performance of visual  
observations, one sight in Australia and then again a sight off the  
coast of Washington, taking photographs of the snow peaked mountains.  
Photographs and descriptions in the Lake Superior area, as well as,  
Sudberry, Canada. The docking module will be used in conjunction with  
the command module for Doppler measurement experiment. Wakeup time  
tomorrow morning at 5:45 a.m., central daylight time. At ground elapsed  
time of 183 hours and 56 minutes, this is Apollo Control.

END OF TAPE

ASTP (USA) MC614/1

Time: 00:59 CDT, 185:37 GET

7/23/75

PAO                    This is Apollo Control at 185 hours, 37 minutes ground elapsed time. Handover taking place here in Mission Control, as Don Puddy, and cap comm Karol Bobko take over from Neal Hutchinson, and Dick Truly. Flight director, Don Puddy just now going around the room and catching up on the problems, or lack of problems as it really is. Among the various operators here. Have a slight change to tomorrow's flight plan. The crew requested that they be awakened early so they can get themselves ready for the press conference tomorrow. They will be getting up at 5:45. Also off going flight director Neal Hutchinson indicated that he would not have a change-of-shift briefing this evening, so there's no change of shift briefing scheduled for this evening. The next one will be some time tomorrow, when Don Puddy hands over. Our next status report will be about an hour from now at 186:38. At 185:38, this is Apollo Control.

END OF TAPE

ASTP (USA) MC615/1

Time: 02:02 CDT, 186:40 GET

7/23/75

PAO At 186 hours 40 minutes ground elapsed time, this is Apollo Control. The spacecraft presently northwest of the Islands of Japan, moving eastward away from the Soviet Union. Tomorrow morning the crew is scheduled to get up a little early. They requested the extra time so that they can set up the cameras and then have a little time to relax before the press conference. Tomorrow's press conference will depart a little from the usual press conferences. Representatives of the media will be allowed to ask their own questions of the crew. There are certain ground rules. One of those is that no followon questions will be allowed, and no media representatives will be allowed to ask more than one question. They've also been - the media have also been requested to identify which crewmember they would like to respond. Following the press conference, the crew of Apollo will have another brief rest period, where they get to eat breakfast. Then they move directly into housekeeping functions, and more photographs of the zone forming fungi and fish experiments and then some height measurements. Then they move into, probably, the busiest portion of tomorrow, preparing for the docking module jettison. That jettison involves rotating the spacecraft, the Apollo, on the Y-axis, in an orbital plane. Once the Apollo reaches an attitude change of 5 degrees a second, the docking module will be jettisoned and will continue to spin on its Y-axis. And from that point on, the Apollo will then realign itself, and the experiment - the actual experiment will begin. The purpose of the experiment is to detect any minor perturbations in the orbits of the docking module, and Apollo command and service module. And those perturbations will be detected by very sensitive Doppler ranging equipment onboard both spacecraft. Interpolation of that data is expected to yield a gravitational anomaly picture of the Earth for gravitational anomalies between 300 and 1000 kilometers in area. Many of those are expected to lie along the Pacific tectonic plate in the area of the Earth already known for its volcanic activity. And the principal investigators for this experiment expect further proof of the plate tectonic theory of the crustal evolution of the Earth. The crew is going to be donning their pressure garments for this exercise. And that's expected to be the only time that they'll be wearing those pressure garments from now on. They are expected to return wearing their lightweight suits. There was some question at the press conference yesterday as to whether the crew will be wearing the pressure garments for their return. They will not. Presently everything is very quiet aboard the Apollo, and everything is very quiet here in Mission Control. Our next status report will be at 187:38. At 186:44, this is Apollo Control.

END OF TAPE

ASTP (USA) MC616/1

Time: 03:04 CDT, 187:42 GET

7/23/75

PAO At 187 hours 42 minutes ground elapsed time, this is Apollo Control. The spacecraft presently on revolution 115, on an ascending pass over the African Continent, up through Saudi Arabia, and then on across Russia. We have the shift flight surgeon's medical report for day 8. Medical status report number 8. Dr. Jerry Hordinsky indicating that there's absolutely no health problem among any of the three Apollo crew members. And also indicating that Deke Slayton's biomedical today was technically and medically acceptable. The exercise developed a maximum heart rate of approximately 120. A few premature atrium contractions were noted, but these were very scattered. The data elicits no medical concern according to Dr. Jerry Hordinsky. Also, Dr. Hordinsky will be one of the few medical team members remaining in Houston. The last two recovery medical team members left today, heading for San Diego, where they will be flown by helicopter to the USS New Orleans tomorrow. And those were Doctors Arnold Nicogossian, one of the flight surgeons, and Dr. Herbert Scheld, the principal investigator for the killifish experiment. We've also received an indication from the Moscow press center that Alexey Leonov has been promoted to Major General. The Soyuz commander, now a Major General. And we also want to remind you that tomorrow, about an hour from now, or 25 hours from this evening, the Soyuz crew will hold their press conference at 12:00 p.m. Moscow time or 4:00 a.m. Houston time on Thursday. Some question right now as to whether that will originate at the Moscow TV center at Stakanov(?) or at the press center in downtown Moscow. No problems have arisen since our last report, so everything remains fairly quiet here in Mission Control. A couple of planning changes being worked on now to give to the crew when they wake up. Other than that, very little happening. Other than that, our next status report will be about an hour from now. At 187:45 ground elapsed time, this is Apollo Control.

END OF TAPE

ASTP (USA) MC617/1  
Time: 04:05 CDT, 188:43 GET  
7/23/75

PAO 188 hours 43 minutes ground elapsed time, this is Apollo Control. Apollo presently on revolution 115 in the Southern Pacific Ocean midway between Australia and Chile. The only activity going on here at Mission Control presently are item by item updates for tomorrow's crew activities. Those are generally minor in nature. The ground team is going over page by page to make sure that nothing is amiss. There's - there have been a lot of changes, but most of them very minor in nature. And to make sure that nothing is amiss, they're just taking tomorrow's schedule page by page. Very little real activity here, and certainly no activity aboard the Apollo. All three crewmembers still asleep, and scheduled for about an hour and 45 minutes more in their sleep cycle. They'll be getting up a little early to prepare themselves for the press conference, but other than that, no real changes aboard the Apollo. Our next status report will be in 1 hour from now at 189:38. At 188:44, this is Apollo Control.

END OF TAPE

ASTP (USA) MC618/1

Time: 05:02 CDT 189:40 GET

7/23/75

PAO 189 hours 40 minutes ground elapsed time, this is Apollo Control. Apollo presently over eastern Soviet Union on revolution 116. The crew should be getting up about 45 minutes from now. They have requested an early wake up so they could get themselves squared away for this morning's press conference which should begin at 7:30. There will be television coverage of that, and the press conference itself takes place during an applications technology satellite pass so we expect really good communications for this press conference. We'll bring the line back up about 45 minutes from now right before crew wake up. At 189:40 this is Apollo Control.

END OF TAPE

ASTP (USA) MC619/1  
Time: 05:02 CDT, 190:25 GET  
7/23/75

PAO This is Apollo Control. 190 hours 25 minutes ground elapsed time. Santiago, Chile tracking station coming up in about a minute. And this will be wakeup for the crew. Spacecraft communicator Karol Bo Bobko will call the crew at this station in Santiago. And flight plan has been changed somewhat from the premission flight plan. The breakfast has been moved ahead of the inflight press conference, on the premise that no one ought to have to face a press conference on an empty stomach. Heretofore, press conference questions have been submitted by a committee of newsmen and read up by the CAPCOM. This will be the first fully live inflight press conference, in which correspondents will ask their own questions directly of the crew. Should be AOS at Santiago, and we're standing by.

CC-H Apollo, Houston. Good morning.

CC-H Apollo, Houston. Good morning, through Santiago, for about 1 minute more.

ACDR Good morning, Bo. How are you?

CC-H Good morning. We'll see you again at Ascension, at -  
ACDR (Garble.)

CC-H We'll see you again at Ascension, at 190:40, which is about 12 minutes from now.

ACDR All right. Real good. Thank you, Bo.

PAO This is Apollo Control. Very brief pass, there, at Santiago, Chile. Ascension - another one of the S-band, omni antenna type stations - coming up in about 9 minutes. Until the Apollo crew gets the steerable high gain antenna set up for the ATS-6 satellite, our contacts will be limited to the S-band stations. We'll stay up until we come across Ascension. We have a brief pass at Madrid, following that. We're up live at this time. The breakfast, of course, is the first order of business for the crew. And setting up the television equipment aboard the spacecraft for the inflight press conference, which will start at ground elapsed time of 192:10, or 7:30 A.M. central daylight time. 6 minutes to Ascension Island. This is Apollo Control, standing by, at 190:32.

END OF TAPE



ASTP (USA) MC620/1  
Time: 05:56 CDT, 190:35 GET  
7/23/75

CC-H Apollo, Houston through Ascension for about a minute  
and a half.  
ACDR Hello, Bo. How do you read?  
CC-H Good morning. I can read you. You're a little  
little difficult over the squawk box. If you will maneuver to the attitude  
called out in the flight plan at 191:10, we should be able to get ATS  
when you dial in 18 and yaw 268.  
ACDR Okay, and -  
CC-H Apollo, Houston. We're showing that you're fairly  
close to gimbal loss.  
CMP That's right.  
CC-H And, Apollo we're a little less than 1 minute until  
LOS at Ascension . We'll see you at ATS when you dial up 18 and 268.  
ACDR Bo, (garble)?  
CC-H Apollo, Houston. We did not read your transmission.  
ACDR I asked: did we shut down the SIM BAY. Over.  
CC-H Negative. The SIM bay is still open.  
ACDR Should we shut it - should we leave it open or shut  
it down? Over.  
CC-H Leave it open and close it as called out in the  
flight plan.

END OF TAPE

ASTP (USA) MC621/1  
Time : 06:06 CDT, 190:45 GET  
7/23/75

CC-H Apollo, Houston through ATS. How do you read?  
ACDR Hello Houston. I'm reading you loud and clear, Bo.  
CC-H Roger, sir. As usual, unfortunately, I have a couple  
of flight plan changes.  
ACDR Really?  
CC-H Suprisingly, yes.  
ACDR Okay. I'll get a pencil and copy them down. Just a  
minute.  
CC-H Okay.  
ACDR Okay. Okay, Bo. Go ahead.  
CC-H Okay. The first one is at your option. You can activate  
the secondary evaporator, but we'd appreciate it if you'd do this while we  
have acquisition.  
CC-H And - -  
ACDR How about right now?  
CC-H That's fine. That's on S 1-18 and you're clear.  
We're watching.  
ACDR Okay. But in the systems checklist - i mean in the  
flight plan, I don't see anything about closing SIM BAY doors in that. Are  
we going to shut those bears?  
CC-H No. We can now boil water even - even though the SIM  
bay door's open.  
ACDR I got you. Okay.  
ACDR Okay. Secondary is ON.  
CC-H For your information, we're just getting supplemental  
data so they'll tolerate the water boiling even while they're collecting  
data at this time.  
ACDR All safe to (garble) from Myrtle(?) 2. Over.  
CC-H Apollo, Houston. You're clear to dump through Myrtle(?)  
2.  
ACDR All right.

END OF TAPE

ASTP (USA) MC622/1  
Time : 06:17 CDT, 190:54 GET  
Date: 7/23/75

CC-H                    Apollo, Houston. We've still got a couple more  
flight plan changes when somebody gets a chance.

END OF TAPE

ASTP (USA) MC623/1

Time: 06:28 CDT, 191:04 GET  
7/23/75

CMP Houston, Apollo.  
CC-H Hello, Vance. Good Morning.  
CMP Hey, good morning, Crip. How are you?  
CC-H Very good. And you guys?  
CMP Oh, we're shuffling around, doing just fine. Wondering if it would be wise to make a quick TV check here just to make sure we've got all the switches right and everything's coming down good.  
CC-H We think that'd be an outstanding idea. We're set up down here that we can take a look at it. We're not going to be able to look at it here, but the site is going to be able to take a look at it and verify it. One item of recommendation we'd have would be to - to put the shades on.  
CMP Even though we're in the LEB, huh ?  
CC-H That's affirmative. Apparently from some of the stuff we've seen back in the joint phase; the sun does apparently shaft down and interfere with it and if it wouldn't be too much trouble, we'd appreciate it.  
CMP Okay, we can do that. Why don't we turn it ON first though anyway, just to - because we only have about 10 minutes of ATS here don't we?  
CC-H That's affirmative. Well it's actually about 6 minutes. We can also look at it at Guam, too, which we're going to come across and we've got about 6 minutes there.  
CMP Okay. Well we'll put the shades on then. Stand by, we'll see if we can get it on now and put the shades on at the same time.  
CC-H Apollo, Houston. We're a couple of minutes from LOS here through the ATS and we're going to have you again at Guam in about 3 minutes. The - we're receiving word from the site that the TV looks - looks good. I guess - I'm not sure whether you got the shades installed or not, but we do want to make sure that they're installed so that we know we've got a - got a stable environment. But everything else is looking good and we'll have a few minutes before the press conference actually starts there to make sure our comm is squared away and the TV's looking good. If you've had a chance to read your monitor, you might take a look at it yourself and see how it looks. One other item is that any time you guys get a chance, you might go ahead and take the waste stowage vent valve to VENT and that will let us go ahead and start a cabin purge.  
CMP Okay, to vent. Crip, why do you need a cabin purge?  
CC-H Let me get a direct clarification for you, the - -  
Okay. The reason is that we have scheduled a DM O2 purge and I guess we didn't call that to you, but we do not want to do that because of - we've used up most of the O2 in the DM and we're just going to go ahead and purge it using the waste stowage vent valve.  
CMP Okay. And we have the shades on. I noticed there are a few bright spots in the LEB, but we'll get a better chance to look at those when we get through working here.

ASTP (USA MC623/2  
Time: 06:28 CDT, 191:04 GET  
7/23/75

CC-H Okay, fine.  
CC-H Apollo, Houston. We're AOS at Guam, 5 minutes.  
CMP Okay, Crip.  
ACDR Good morning, Crip. How are you?  
CC-H Morning, Tom. Feeling great. How are you guys up  
there?  
ACDR Well, 9 days of super-clean living and - -  
CC-H Your comm's cutting out on you there - didn't get all of  
that.  
ACDR I said 9 days of good, clean living and - -  
CC-H All I got, it was the good, clean living which we  
all need to participate in a little bit, but your comm was cutting in and  
out.  
ACDR Roger. How do you read now?  
CC-H I'm reading that good.  
ACDR Okay - -

END OF TAPE

ASTP (USA) MC624/1  
Time: 06:43 CDT, 191:22 GET  
7/23/75

CC-H Your comm was cutting in and out.  
CMP Roger. How do you read now?  
CC-H I read that good.  
CMP Okay.  
CC-H There you went again. Now we're dropping in and out  
of the site, I've been told if you're reading.  
CMP All right.  
CC-H Tom, your down link apparently is breaking in and  
out at the site. But, I understand my uplink is okay. For your  
information the way we're gonna handle this upcoming press conference  
is that, when we initially acquire you on the ATS, we're going to take about  
5 or 6 minutes there to make sure we got everything set up and give  
you a comm check with each of you guys and then we'll be turning it  
over to the press, which is going to be assembled over in the audi-  
torium in building 2 and they will be directing questions to each of  
you individually. And, they - we have slipped the thing now, so that  
we have the initial time to set it up and when we finish with, I  
believe what they got there is something like a half an hour. I'll  
go ahead and take it back and I'll be available to you any time in  
between there if you need to talk to me.  
ACDR Sounds good, Crip. Thank you.  
CC-H Okay, we're gonna lose you in 1 minute and we'll  
see you again, even though it's not called for in your flight plan,  
we'll see you at Vanguard in about 9 minutes from now. The reason for  
that of course, as I told you the other day, she's underway and going  
toward Sidney.  
ACDR Okay. A little bonus communication with you here.  
CC-H Rog. And, little liberty for the guys out at  
Vanguard.

END OF TAPE

ASTP (USA) MC625/1  
Time: 06:56 CDT, 191:35 GET  
7/23/75

CC-H Apollo, Houston. We are AOS, Vanguard. Have you  
for 6 minutes.  
CMP Okay. We're here.  
CC-H Didn't think you'd run away. At least, I hoped  
you hadn't.  
CMP (Garble.)  
CC-H I couldn't copy that. You were kind of - kind of  
whispering it. Is that -  
DMP Still flying in orbit.  
CC-H Still flying in orbit. Very good.  
CC-H Getting close, though, you guys. About all the  
fun's about to come to an end here, tomorrow.  
CMP That's right.  
CC-H Hey, while I'm standing by, here - I don't know  
whether you got a report of - or not, but that last pad you guys ran  
for that special target - We ended up getting 10 good minutes of x-ray  
data out of that thing, where - you know - we weren't switching it  
on and off. It worked great and came out real fine. Appreciate all  
the work you guys did. The PIs are real enthusiastic about it.  
ACDR Well, I guess that's good.  
ACDR And you tell them hello. And I hope that all the  
data comes out and they get some good discoveries.  
CC-H Rog. Well, they - they're looking forward to it,  
now - to going ahead and sitting down and going through all this data.  
But tentatively it looks very good.  
CC-H Apollo, Houston. We are 1 minute from LOS. And  
our next station contact will be Santiago, in 17 minutes.  
CC-H That's about 57 after the hour.  
PAO This is Apollo Control, at 191:42 ground elapsed  
time. Loss of signal at Vanguard, as that tracking ship moves westward  
to Sydney and support of the Viking launches. The National Weather  
Service has issued the following forecast for the landing area weather,  
for tomorrow: said good - good weather is forecast for the end of mission  
landing area, approximately 480 miles northwest of the island of Hawaii.  
Skies should be partly cloudy, with scattered cumulus clouds. Surface  
winds from the north - east northeast, at 15 knots. And seas at 4 feet.  
The visibility should be good. And the temperature, about 79 degrees  
Fahrenheit. The daily operations report from the ASTP program director's  
office has just come out of distribution. And the mission events entry  
says experiment data collection was continued during this reporting  
period. At approximately ground elapsed time of 176:41, a leak was  
reported in the electrophoresis experiment MA-011, sample number 7.  
Sample number 7 is a duplicate of sample number 3, which was processed  
earlier without incident. Sample number 7 will be wrapped in a towel,  
placed in a fecal bag, and stowed in command module locker A-6 for  
return to Earth and subsequent engineering evaluation. In the science

ASTP (USA) MC625/2  
Time: 06:56 CDT, 191 35 GET  
7/23/75

experiments area, the extreme ultraviolet telescope was operated during revolutions 104, 105, 108, and 109. A target was detected on rev 109 as an intense - extreme ultraviolet source. This is the strongest EUV target detected in the mission. The EUV telescope was pointed at a high priority EUV target during the crew's sleep period, just ended. The helium glow detector experiment - good quality data was obtained on revolutions 104, 105, 106, 108, and 109. The wide angle raster scan was accomplished on revolu- -

END OF TAPE



ASTP (USA) MC626/1  
Time: 07:06 CDT, 191:45 GET  
Date: 7/23/75

SPEAKER - - 104, 105, 106, 108 and 109. The wide angle raster scan was accomplished on revolution 106. The helium glow detector was left on to take data with the EUV telescope during the just - completed crew's sleep period. The soft X-ray detector, MA048, was operated on revolutions 104, 105, 106, 108 and 109. The experiment was turned on for 2 to 3 minutes at specific targets, thirty to sixty minutes of good data were obtained out of approximately 2 and 1/2 hours of operation. Two potentially interesting soft x-ray sources were detected in revolutions 105 and 108. In the applications experiments portion of the mission, the MO60, interface marking and crystal samples for the multipurpose furnace were removed from the furnace. The MA044 monometric and syntetic alloy samples were started in the furnace at approximately 175:30. Samples 5, 6 and 8, of the electrophoresis technology experiment, MA011 were performed as scheduled. The crew reported fluid leakage during the processing of sample number 7 and operations on this sample were terminated. Photos of the crystal growth in zero gravity experiment, MA089 were obtained every 12 hours. Two revolutions of prime data on geodynamics experiment were obtained using the Apollo ATS-6 common communication system. Data were also obtained on parts of seven revolutions of opportunity. And in anticipation of docking module jettison, the transmitter and receiver for the doppler tracking experiment, MA089 are now warming up using spacecraft power. In the field of Earth observations and photography, MA136, visual observations and photography were performed as scheduled and photos were successfully made in an area of New England which was viewed for Red Tide. At 173:14 ground elapsed time, Deke Slayton reported that the spacecraft was over Cape Cod. He remarked that he could observe such coloration but could not tell if he actually saw Red Tide or sediments. Our support ships at sea reported Red Tide discoloration at the Damariscota River(?) on Boothbay Harbour, Maine. Attempts to make additional observations of Red Tide will be scheduled for revolutions 121 and 136. And the light flash experiment, MA106, in the life sciences area, - the experiment was successfully conducted as planned during revolutions 109, 110 and 111. And results recorded onboard the spacecraft. Photos are scheduled to made at 12 hour intervals of the zone forming fungi, MA147 experiment. In the fish hatchery operation aboard Apollo, TV pictures and photos were used in noting the progress of the fish development and at 168:49 elapsed time, the crew reported 5 addition fish in the container. As to the health of the Apollo spacecraft, the systems status is as follows: the secondary coolant loop was activated at 168:36 elapsed time and was operating properly when it was deactivated at 170:12 because of experiment requirements. Available data indicate that the steam duct is clear of ice and the evaporator is operating normally. The primary evac - evaporator is believed to still contain excess water. And the crewmembers remain in good health, according to the flight surgeon. During the docking