

ASTP (USA) MC678/1  
Time: 23:18 CDT, 208:02 GET  
7/23/75

USA Hello, Houston, Apollo.  
PAO This is Apollo control at 208:01. We've just had  
a call down from the Apollo. We'll keep the line open to see if - -  
CC-H Apollo, Houston. Loud and clear. Go ahead Tom.  
ACDR Roger. One thing we're discussing up here, Dick,  
can we use myrtle now or do we have to because of the store the  
urine, over.  
CC-H Stand by one, I'll check. Hang on.  
MCC-H I don't think - -  
CC-H Incidentally, while I'm getting an answer for you  
guys, it turns out that that latitude and longitude that when Deke reported  
the possible volcano, was directly overhead the Aleutian Islands and we're  
going to be checking it out over night but that's more than likely exactly  
what you saw.  
ACDR Okay, real good.  
CC-H Tom, Houston. No problem using myrtle. Help yourself.  
ACDR Okay, real - real good, thank you.  
CC-H Okay, good night.  
ACDR Night. Thank you Dick.  
DMP Hey Dick, just out of curiosity does anybody know  
that thing is running up there or is that what it is?  
CC-H Well, Deke. We haven't confirmed it for sure. Our -  
we do know that there are some volcanos up there and the lattitude and  
longitude that cooresponds to your time was directly over the Aleution  
chain, so we're guessing that's what it is and we're going to check it  
out over night and get a straight answer for sure and so Bo or Crip,  
whoever is in here in the morning will have the word for you. I'm  
sure that's what it is though.  
DMP Okay. No big deal, we're just curious.  
CC-H Roger.  
DMP Thank you. Good night.  
CC-H Roger. Good night.  
CMP Houston, how do you read on the intercom - I mean  
on squawk box?  
CC-H I read you loud and clear.  
CMP Okay, thank you.  
PAO 208 and 8 minutes ground elapsed time. Apollo crew  
should probably be back asleep. We'll bring the line down, not expecting  
any further communication at this time. At 208:09, this is Apollo control.

END OF TAPE

ASTP (USA) MC679/1  
Time: 23:59 CDT, 208:37 GET  
7/23/75

PAO All stations stand by for an Apollo Control  
announcement in 1 minute.

PAO At 208 hours, 37 minutes ground elapsed time, this  
is Apollo Control with the "Legendary Stardust Cowboy" in the background.  
At the completion of Neil Hutchinson's shift here at Mission Control  
and Don Puddy's team taking over, Neil's team requested the playing  
of the team 3 song, "The Legendary Stardust Cowboy." The crew was  
supposed to hear that yesterday but through a mix-up they heard "Segete's(?)  
Whiskey and Wild Wild Women," instead, A song made famous by Don Puddy's  
team during Skylab, probably made infamous by Neil Hutchinson's team  
tonight. Crew is now asleep. They're scheduled to return to Earth  
tomorrow and to Houston on Saturday about 9 o'clock at Ellington Air  
Force Base. Flight film will arrive Friday and Saturday from the prime  
recovery ship and many of the experiments themselves will be returning  
Friday and Saturday. Our next status report will be about an hour  
from now. At 208 hours, 39 minutes, this is Apollo Control.

END OF TAPE

ASTP (USA) MC680/1

Time: 01:00 CDT, 209:39 GET

7/24/75

PAO                    209 hours, 38 minutes ground elapsed time. This is Apollo Control. The crew aboard Apollo presently asleep and midway between the Far East and South America in the southern Pacific Ocean. This has been somewhat of an unprecedented mission, the Apollo/Soyuz test project. From the beginning through the splashdown of Apollo tomorrow, it's been filled with a number of unique events. It was the first joint manned flight to be planned. IT was the first live Soyuz launch and Soyuz air-to-ground to be received by both the Soviet people themselves and the rest of the world. Was the first docking of two countries spacecraft in Earth orbit, and the first implementation of joint manned experiments. It also included the first joint use of Soviet and U.S. tracking sites. And for the United States, it was the first time to be used for a manned spaceflight mission for the sites at Quito, Ecuador; Orroral Valley, Australia, Santiago, Chile, and Rosman, North Carolina. And since Skylab days the sites at Carnvan and Honeysuckle, Australia and Canary Island have been taken down. It was the first live Soyuz recovery. And from a public affairs point of view it was the first live press conference, that occurring today. From a technical stand point it was the first use of a geosynchronous communications satellite to relay spacecraft communications. The ATS-F or Applications Technology Satellite has provided just absolutely tremendous coverage for this mission. Was the first astrophysical attempt to map the ultra-violet sky, the last threshold of astronomy according to many astrophysicists. And it was the first programmed attempt to map the Earth's medium scale mask concentrations, many of those concentrations along the Pacific rim, the largest tectonic plate area of the Earth. And it was the first and last time that a new piece of Apollo hardware was used, the docking module. And at this morning's press conference all three crew members somewhat lamented the jettison of that DM since it did provide extra room in the rather confined space of the Apollo. And, as everybody knows, it was the first flight for Deke Slayton after many years of waiting. And the first flight for Vance Brand, but probably not Vance's last flight. However, it was the last flight of the Saturn rocket. It is the last Apollo flight. And tomorrow will be the last splashdown for an American manned spacecraft. Henceforth, as opposed to splash or thud downs for American spacecrafts, it will probably be wheels down. Our next status report will be about an hour from now. At 209:41, this is Apollo Control.

END OF TAPE

ASTP (USA) MC681/1

Time: 02:01 CDT, 210:40 GET

7/24/75

PAO 210 hours, and 40 minutes ground elapsed time this is Apollo Control. Apollo is presently on revolution 129 just crossing the equator on a descending mode which will take it across Tierra del Fuego and then up through Africa, and across Russia. The next two revolutions will be the last for Ascension, Santiago, and Guam. Their mission support ends at rev 132, and they'll be released from mission support at that time. Very little activity here in mission control and absolutely no activity aboard the Apollo. Everything will happen tomorrow, beginning about 7:20 a.m. central daylight time. Our next status report will be in about an hour from now and that will be about 211 ground elapsed time. At 210:41 ground elapsed time this is Apollo Control.

END OF TAPE

ASTP (USA) MC682/1

Time: 03:00 CDT, 211:38 GET

7/24/75

PAO 211 hours, 38 minutes ground elapsed time. This is Apollo Control. Spacecraft Apollo presently just nearing the Soviet border on revolution 130. We have the shift flight surgeon's medical report, medical status report number 9 from Dr. Jerry Hordinsky. He indicates the crew is GO for entry, no problems. Also indicates that low modal was taken phylactically by Tom Stafford during the pre-docking module jettison time frame, that was earlier today. Dr. Hordinsky also indicates that there is no O2 sensor available, but the O2 partial pressure should be well above the mission rule limits. It was a oxygen partial pressure sensor aboard the docking module and that was necessary during the times when the docking module was being purged of nitrogen and mixed oxygen for reconfiguration back to the Apollo pure oxygen environment. Also we have another new space first to add to the list of space firsts for the ASTP mission. This one probably goes under the category of missed-space items. It is the first time a crew from one spacecraft has misplaced an item and left it aboard another space craft. In a joint-flight director conversation just concluded between Apollo joint flight director, John Temple, and his counterpart in Moscow, Victor Varshofske, Victor Varshofske indicated that the Soyuz crew had left some camera cassetts aboard the Apollo. Four cassetts marked Soyuz were left in one of the command module pockets. Don Puddy said that we were quite glad they weren't left in the docking module. Anyway, the Soviets have requested their return and Don Puddy assured them that those dome cassetts would be returned as soon as the Apollo splashes down tomorrow. Also, about an hour from now at 4 a.m. Houston time or 12 p.m., 12 noon Moscow time the crew of Soyuz 19, now General Alexey Leonov and Valeriy Kubasov will hold their post flight press briefing. And that press briefing, as the others have been from the Soviet Union, will contain consecutive translation. We will be releasing that on PAO release at the time that it occurs, just about an hour from now. So, we will have no status report at 4 a.m. Houston time, we will have the Soyuz 19 post flight press conference at that time. At 211:41 ground elapsed time, this is Apollo Control.

END OF TAPE

ASTP (USA) MC683/1

Time: 07:45 CDT, 215:23 GET

Date: 7/23/75

PAO 215 hours 23 minutes ground elapsed time. This is Apollo Control. Spacecraft presently south - southeast of the continent of Australia on revolution 132. And the crew is about 40 minutes away from their wake-up. Change of shift briefing has been moved up to 7:00 or roughly 15 minutes from now. Don Puddy getting a quick handover to Frank Littleton. Participants at this morning's change of shift will be off-going flight director Don Puddy and his CAP COMM, Karrol Bobco. Once again that change of shift is set for 7:00 a.m. Central Daylight Time or about 15 minutes from now. At crew wake-up, CAP COMM Bob Crippen has a little surprise for the crew. They'll be over Madrid and this pass gives them plenty of time and Crip's got somewhat of a special song selected as wake-up music this morning. Texas country fans will recognize the song immediately. It's a Ray Wiley Hubbard song sung by Jerry Jeff Walker entitled "Redneck Mother". At 215:24 ground elapsed time, this is Apollo Control.

END OF TAPE

ASTP (USA) MC684/1  
Time: 07:21 CDT, 215:58 GET  
Date: 7/24/75

PAO 215 hours 58 minutes ground elapsed time. This is Apollo Control. Spacecraft just outside of acquisition through Madrid. This morning's wakeup music by Jerry Jeff Walker singing a Ray Wiley Hubbard tune, "Redneck Mother". Also shortly following the wakeup call the time clocks will once again revert to phase elapsed time. We have the program director, ASTP Daily Operations Report number 9. And the program manager indicates the command module tunnel yesterday was vented at 197:20 in preparation for command module, docking module undocking. Undocking occurred at 199:25 GET. Estimated docking module orbital life is approximately 18 days from jettison. The docking module separation and post-separation motion went according to plan. The crew reported docking module motion was as desired for the MA089 doppler experiment. Predicted command module splash down today is 5:20 p.m eastern daylight time. Estimated coordinates are 22 degrees north and 163 degrees west. Recovery area weather is expected to be good with visibility extending to 10 miles, scattered cloud cover starting at 1800 feet and wave heights of 4 foot with winds of 15 miles per hour at the surface. Temperature is reported to be 79 degrees. Yesterday on Earth observations experiments the crew took excellent stereo photography of the Ansas area located near Sydney, Australia. An onboard observation of a quote "super circulation pattern" was reported off the west coast of the U.S. at 207:19 ground elapsed time. The crew reported seeing a volcanic eruption and that time puts the eruption somewhere in the Alucian Island chain.

CC-H (Music: "Redneck Mother" by Jerry Jeff Walker.)

CC-H Good morning gents. The party's over. Time to come home.

ACDR You really know how to wake somebody up don't you?

CC-H I figured that'd do it.

CC-H Amber team sitting here ready to monitor your activities today while you're coming back.

CC-H Incidentally while you guys are getting the sleep rubbed out of your eyes and getting started. The flight plan called out for you to start syncing your time and so forth. We haven't got that loaded in there yet. And not planning on doing it until we get to Orroral about 37 minutes from now and we'll give you a call then. Before we do that.

DMP Okay, Crip.

CC-H Okay. We're about a minute from LOS here at Madrid and after you guys get that P20 option 5 and so forth out of the road, at about 216:30 on your clock you should be able to get us at - through the ATS.

END OF TAPE

ASTP (USA) MC685/1  
Time: 07:30 CDT, 216:08 GET  
7/24/75

PAO Apollo Control; ground elapsed time, 216 hours, 39 minutes. We've had loss of signal through the ATS-6 satellite. Next acquisition will be in 3 minutes, 55 seconds through Orroral Valley tracking station. We'll hold the line up for the Australian tracking station pass, as the crew concludes their post sleep activities and prepares to have their morning meal.

CC-H Apollo, Houston. We're AOS at Orroral. Have you for about 4 minutes.

DMP Okay, Crip.

CC-H Okay. If we could - down on panel 230 get the UP TELEMETRY switch to DIRECT please. And also, we could have ACCEPT; we'll give you a state vector and also change our time over for PET.

DMP Okay. You got all these?

CC-H Could - did you give a time hack on when you started battery Bravo on CHARGE?

CC-H Or at least approximate.

DMP Stand by a sec and see if I can backtrack it.

Oh, about 10 minutes ago probably.

CC-H Okay. Thanks a lot, Deke.

CC-H Okay. And whenever you can get it, we've got our command in; you can take the UP TELEMETRY switch on 230 back to UP TELEMETRY - center position.

CC-H And whenever you guys can get to it, we recommend going ahead and closing the potable tank inlet valve, and we're not going to do the scheduled water dump we've got coming up at about 93:30 on your PET.

DMP Okay.

CC-H Okay. We're about - a little less than a minute from LOS, and our next station contact is going to be Quito and that's about 28 minutes away. We've got CMC clock loaded with PET and you can ahead and take it on as your mission timer, whenever you get a chance.

CMP Okay, Crip. We'll synchronize CSM.

CC-H Okay. How about reverifying, on your NOUN 78's for the C20 option 5. It doesn't look quite right for us here on this attitude.

CMP All right, Crip.

CC-H Those look good.

CMP Yeah, it does. Kind of looks funny to us, we - -

CC-H Okay.

CMP - - can't figure it out either.

CC-H No problem. We'll talk to you about it at Quito.

END OF TAPE

ASTP (USA) MC686/1

Time: 08:10 CDT, 216:50 GET

7/24/75

PAO Apollo Control. Ground elapsed time, 216 hours and 50 minutes. The Apollo crew concluding post sleep activities and about ready to start their morning meal as they complete preparations for this afternoon's reentry in splash 480 miles northwest of Hawaii. We'll have acquisition in 23 minutes and 55 seconds through Quito. At 216 hours and 50 minutes, this is Apollo Control.

END OF TAPE

ASTP (USA) MC687/1  
Time: 08:36 CDT, 217:16 GET  
7/24/75

PAO Apollo Control. Ground elapsed time 92 hours 58 minutes. Acquisition coming through Quito, Ecuador, in 20 seconds. The phase elapsed time clock, here at the Mission Control Center, counting up to 100 hours, time of ignition of the SPS engine for deorbit. The clock now reads 92 hours 58 minutes and counting up to 100 hours. We'll bring the line up for CAPCOM Bob Crippen.

CC-H Apollo, Houston. We're AOS Quito for 3 minutes.

CC-H Apollo, Houston. AOS Quito. We have you for 2 minutes. How do you read?

ACDR Roger, Crip. Read you loud and clear. How me?

CC-H Okay. Read you the same, Tom. We had - did a little bit of investigating, after my call, regarding the NOUN 78s on that last time. And we had an error in the flight plan, there. And I need to get register 3 on NOUN 78 changed, if I could, please.

ACDR Go ahead.

CC-H Okay. We need to change register 3 on NOUN 78 - yield VERY 23 - enter to get it to plus 22814.

ACDR Okay. Register 3. 22814.

CC-H Okay. And that's going to put it more than 10 degrees in error. So you're going to have to initiate the maneuver with the VERB 58 in it.

ACDR Roger.

CC-H Okay. We're about 30 seconds from LOS, here. And we'll pick you up at the ATS when you get it locked up at - should be about 6 minutes after.

ACDR Okay.

ACDR Okay. We got register 3. Is that it, Crip?

CC-H I'm sorry. Say again?

ACDR Roger. We have register 3 on the NOUN 78 now.

CC-H Roger.

ACDR And we are maneuvering it.

CC-H Apollo, Houston. We have you with the ATS. About 52 minutes.

ACDR Roger, Crip.

CC-H When you gents get all squared away up there - I'll be glad to read you some news.

ACDR Go ahead. It's a good time.

CC-H Okay. Your press conference actually ended up making up quite a bit of the news yesterday. And I had a few items that sort of came out of that. One entitled, headlined, "Apollo Era to End in Splash. The Apollo astronauts, who have made history in the first manned international space flight, will become the links between the past and the future when their spacecraft splashes down Thursday. Brigadier General Thomas P. Stafford, Vance D. Brand, and Donald K. Deke Slayton are scheduled to end the Apollo era some 480 miles west of Honolulu, at 4:18 P.M. Central Daylight Time." And,

ASTP (USA) MC687/2  
Time: 08:36 CDT, 217:16 GET  
7/24/75

here's one entitled, "Deke Can Fly Again." I'm sure you'd be glad to hear that, Deke. "America's oldest astronaut will get another chance to fly in space. Donald K. Deke Slayton will be offered a job of directing the horizontal flight test of the revolutionary space shuttle rocket plane in the spring of 1977, Johnson Space Center director, Christopher Kraft said, Wednesday." We also see that we should enter on that 58 team we see on your DSKY. "Slayton also will be considered, Kraft said, as a pilot for the Shuttle flights beginning in 1979. Kraft said he planned to offer Brand a management job if he did not want to wait his chance to become a Shuttle pilot. Kraft said Stafford, an Air Force Brigadier General, had not made up his mind whether he - to stay with the National Aeronautics and Space Administration, the Air Force, or enter private industry or politics." And here's one about our -

ACDR (Garble.)

CC-H I'm sorry?

ACDR That last option is sure out, I'll tell you, ol' buddy! (Laughter)

CC-H Okay. Okay. I'll take your word for it. Here's one from our friends across the way. "Two Return in Triumph. Moscow. Two Soviet cosmonauts, who held an historic meeting in space with three American astronauts, flew into Moscow in triumph Wednesday. And TASS said two other Soviet spacemen would be back to Earth - on Earth soon. Alexey Leonov, commander of the Soyuz 19 flight, which linked up with the US Apollo last week, telephoned Soviet experts and asked, 'How are things with Stafford?' before flying to Moscow from the Baykonur cosmodrome in central Asia. Leonov, newly appointed to Major General of the Red Air Force, was told everything is all right with Apollo's commander, Thomas P. Stafford, and his 2 colleagues. Probably some of the best news is what the weather is out in your recovery sight today. It looks super good out there. Nice Hawaii type weather. It's - temperature is around 80 degrees. It's 1800 feet scattered. Wind is coming out of the east at about 15 knots, and wave heights are about 4 feet. So everything looks super good out there for you.

DMP That sounds great.

DMP If you'd like a report from us, we're prepared to give it to you.

CC-H We would love to have a report from you this morning, Deke.

END OF TAPE

ASTP (USA) MC688/1

Time: 08:48 CDT, 217:28 GET

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DMP - we're prepared to give it to you.  
CC-H We would love to have a report from you this morning, Deke.  
DMP Okay, most important of all reports coming down to you the old daily status.  
CC-H Standingby with bated breath.  
DMP Okay. The AC, breakfast, no coffee, replaced it with tea. Oh, okay, and D is scratch tea and add cocoa. C is scratch shortbread and add tea. And the PRD reading, next page, 11, 014, 7 good, no medication, and a full tank of water. Okay, on the CP, if you're ready to copy.  
CC-H Yes sir, keep it coming.  
DMP Okay, he had got everything and added jerky for A, added tea to D, and add a salmon to C.  
CC-H Sounds like he's getting hungry.  
DMP Starving. Okay, the PRD is 48314. It's probably why, the radiation uses a lot of calories.  
CC-H Rog.  
DMP 7 hours of good sleep, no medication, and about 80 seconds of water.  
CMP Feel good in spite of all that radiation.  
CC-H I suspect that you did, Vance. You had a pretty smile on the press conference all day yesterday.  
CMP Funny thing, though, lost all my hair in one week, can't understand it.  
CC-H Well, it - it's not catching is it?  
CMP Hope not.  
ACDR Hope nobody up here can catch it.  
ACDR Okay, and the DP. A no changes, B add a cheese, strawberry, and a tea, C no changes. PRD is 61012, and about 5 hours of good sleep, and I miss my old bedroom since you guys have turned it into a doppler target.  
CC-H Sorry about that.  
ACDR And, about 50 sips of water. And, that's about the size of her.  
CC-H Super good. Got all that copied down here. Some time, kind of at - kind of at your convenience today, there are a few minor items regarding the entry check list we probably ought to walk through and talk about. We can do that whenever you guys feel like you want to and got the time.  
ACDR Yeah, we could do it after a while, I guess.  
CC-H Yeah, certainly.  
ACDR (Garble.)  
CC-H We got lots of time today, no rush at all.  
ACDR Okay.  
ACDR Crip, anybody got any word yet on our elusive volcano?  
CC-H You got me completely at a blank there. Let me see if I can get an update on that. Hey, we're talking about your

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little bedroom that we spun away yesterday. Well, I'd like to let you know that we still show that we've got a good solid lock on that and incidentally if somebody has an opportunity today, we would be interested in getting another reading off of that doppler recorder, just to see whether it still looks like it's advancing properly.

ACDR                    Okay, we'll give you that here shortly.

ACDR                    We spotted what I'm quite sure is a volcano last night there Crip, just before we went to bed. Plotted it about off the Aleutians. Only other one I ever saw I was underneath it, so I'm having a tough time evaluating from this range.

CC-H                    Okay, we'll - I guess I missed that in my hand-over from Bo this morning. We'll come back and get some word on it later.

ACDR                    Okay, Crip. Reel A is reading 4, reel B is reading 1 and a half. Over.

CC-H                    Okay. And I take it C and D haven't moved.

ACDR                    That's affirmed. C and D are still 11 and 12.

CC-H                    Okay, real fine. Thank you very much, appreciate that, Tom.

CC-H                    Incidentally, I mentioned it earlier, but I'll repeat it again, make sure. We do not want to perform this waste water dump for entry, that's called out at about 27 on the flight plan.

ACDR                    Rog. Copied that.

END OF TAPE

ASTP (USA) MC689/1  
Time: 08:58 CDT, 217:38 GET  
Date: 7/24/75

CC-H Apollo, Houston. Coming up in your flight plan there there is a RCS propellant configuration that switches you from PSM to quads. We've already made that configuration change earlier so that one is not necessary. However, there are a couple of configuration changes that are not changes so much as valve throwings that we'd like to - to do to make sure we're in a good position for the rest of the day. If somebody's available we can just kind of to do those in real time.

CMP Go ahead.

CC-H Okay. We recommend that you go ahead and open the service module RCS, PSM helium valve and verify that the SM/RCS/PSM manifold isolation valve is opened. That's just in case we need the PSM later.

CMP Okay. Verify the gray talkback on the manifold isolation and the PSM helium coming open now.

CC-H Okay. Fine. We'd also like you to hit all four of the SM/RCS secondary propellant fuel pressure valve switches to the open position just in case they might have got bumped. Since we really can't see those.

CMP Got them.

CC-H Very fine. That's all we need you for Vance. Thank you. That's all we need you for right now.

CMP Okay. And we're still in ACCEPT can we go to BLOCK.

CC-H I'm sorry. Yes sir, you can.

CMP Okay.

CC-H Incidentally Vance, a little bit later there on that P20 option 5, we got coming up, there's another one of those monts to give us the new attitudes that you guys like. On - you're NOUN 78 for R2. We want 6000 instead of 9000,

CMP Rog. Understand, standard load.

CC-H Also a little bit further down there, we call for Deke to go ahead and oper - operate the SIM BAY experiment's x-ray helium glow in EUV and what we're going to do is request that you don't do it there but rather wait until we get ATS coverage a little bit later so that we see them when they're operating. And we'll call that to you in real time.

CMP Okay. What's the time of that one.

CC-H That's at about 94:08 - somewhere along there.

CMP Okay. I'll look it up. Stand by.

CMP Okay, Crip, I - I guess then what you want is at 94:08 or whatever it is, is take the three bottom items which are x-ray OPS - HeG OPS - EUV OPS just to save later.

CC-H That's what I want. And I'll call you when we get locked up on the ATS.

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ACDR Hello Houston, Apollo.

CC-H Go ahead, Tom.

ACDR Okay, Crip. Do me a favor and check with the photo people for the fireball photographer. The only DAC camp light we have left is an internal one. It's C101. And ask him what is settings of the lens phase and everything we - use that for fireball photography. I've got the F25 lens and the right angle mirror out. So it's CMDM interior film. We're going to use it shooting out the window. So if you get us some settings, I'd appreciate it.

CC-H Okay. I'm holding on here and they're - they're just including that in with the - with the items that - when we ran through the entry checklist, we can put them in there.

ACDR Sounds good. Thank you.

END OF TAPE

ASTP (USA) MC691/1  
Time: 09:25 CDT, 218:05 GET  
7/24/75

CC-H Apollo, Houston. For the AC: Tom, when you get an opportunity, I'd like to give you a few words regarding this upcoming VIS OBS pass.

ACDR Okay, I'm ready.

CC-H Okay. Nothing really, I don't think you have to copy it down; you might want to make some notation someplace, though. At about 94:36, we'd appreciate it if you could give us - get down a recorder color wheel reading on what color the water is - looks to you at that particular point. And also, north of the Carribean Islands, just a couple of minutes later about 94:38, we'll expect you to pass over a developing tropical storm. And it'll be about the latitude of Cape Kennedy directly under the groundtrack scan, so if you could try to get some stereophotos if you've got any film left, you can use the camera settings for - that are noted down for site 3 Bravo.

ACDR Okay, real good, And the - at what time is it to look for the tropical storm?

CC-H About 94:38.

ACDR Okay. 36 for the color of water, 94:36, and 38 is the tropical storm.

CC-H That's affirm. And incidentally, the whole VIS OBS team is - like to give you several "At-a-boy's" for your performance you guys have been doing on this VIS OBS stuff. You've been doing a super job and they can't wait to hear your efforts recorded on the PTR and also to see the photos when you get back.

ACDR Okay, good. We're trying like mad. The only thing that's gotten to us, there's just been so many clouds up here - that's gotten to us occasionally.

CC-H Yeah. Understand, that's something you have to live with, but your - your effort's really been great. You can probably - it's obvious to us down here.

ACDR Thank you. Thank you and tell our "hi" to Farouk and all his team there.

ACDR Okay, Crip. And I'm going to be maneuvering to this VIS OBS attitude. Will this DAP be - will this low rate DAP be plenty of time to get us over to that new attitude? Over. If I maneuver by 94:12?

CC-H If you - maneuver is called out there, that'll - should give you plenty of time. Before you do that maneuver, we would appreciate it if you could give us - give us food, though, so that we can take a look at some computer information that we don't get while we're in P20 just to make sure we're all good and squared away for this - today's activities.

ACDR All right. Sure will.

CC-H And for the DP: if - Deke, if you're still listening. We're - we still have not been able to get any confirmation regarding that volcano report you gave us last night. We're still looking at - -

ACDR Okay, he's off the headset, but I'll tell him.

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CC-H                   Okay. Thank you, Tom.  
CC-H                   Tom, for your information, that maneuver time is  
about 4 and 1/2 minutes (garble) left.  
ACDR                   Real good. Thank you, Crip.  
ACDR                   Hey, Crip, I have a question.  
CC-H                   Go ahead.  
ACDR                   Was it Phil Schaeffer that selected that wake-up  
music this morning?  
CC-H                   Negative. Negative. That was compliments of your  
Flight Director Frank Littleton and your Cap Comm.  
ACDR                   Okay, thank you.  
CC-H                   Although I'm sure that Phil and Don Puddy would  
highly approve of it.  
CC-H                   For the AC: Tom, if you could go ahead, or whoever's  
close to the DSKY, you can give us POO right now, we'll take a look at  
that computer downlink.  
ACDR                   And you have POO.  
CC-H                   All right, let's look at it in a few minutes and  
we'll turn it back to you.  
CC-H                   Okay, we've got all the information we need and you  
can go ahead and take it back. And if you want to, you're clear to go  
ahead and press on with your P20 off the side.  
ACDR                   Roger. Thank you.

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CMP Houston, Apollo.  
CC-H Okay. We're getting ready to lose you and going to have you at Quito and I'll have you here at Orroral for a few minutes. but go ahead.  
CMP Crip, do you have any updates on the times for the mapping pad 135, 136.  
CC-H Don't believe 135 is the mapping. Let - and we'll get on for you for 135 - 136 a little bit later. Right now we show no update for them.  
CMP Okay.  
CC-H We're going to lose you briefly here and I should pick you up, we may go straight through. I'm going to get VHF through Orroral.  
CC-H Okay. We've handed over and we're back with you through Orroral Valley.  
DMP (Garble) maneuver to the (garble).  
CC-H I'm sorry you were unreadable. Say again.  
Roger. We starting - we starting the maneuver for Earth observation (garble).  
CC-H Copy.  
ACDR Houston, Apollo.  
CC-H Go ahead.  
ACDR Okay. On the doppler shutdown coming up, you want to give us a call on that on a specific time or do I do it just at the say 12.  
CC-H You've already started this maneuver and that is cutting us off on our data so you may go ahead and perform it now.  
CC-H Apollo, Houston. We're about a minute from LOS and we'll see you again at Quito in 28 minutes at 94:32.  
ACDR (Garble)  
PAO Apollo Control, ground elapsed time 218 hours and 23 minutes. The phase elapsed time clock counting up to the deorbit burn of the SPS engine. Now reading 94 hours and 5 minutes. Counting up to 100 hours at which time the SPS will deorbit the command module. Flight director, Frank Littleton reviewing with his flight controlers here, reporting good shape for the reentry everything looks good for the reentry at sometime after 4 o'clock this afternoon. On this upcoming pass, the crew of Apollo will be performing their busiest Earth observations pass in the mission. On this pass over the Atlantic - the Pacific Ocean and over the Carribean and up the East Coast, the crew will be looking at Ferandina Island in the Galapagos Chain taking stereo photos of upwellings surrounding the islands. And as Apollo passes over Mexico and into the Gulf it will be taking photographs of eddies in the Caribbean Ocean and the Gulf of Mexico. And then as the spacecraft passes over the Atlantic, taking

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pictures of oil slicks if any in - around the England Great Britain Islands. Also eddies and current boundaries that may be visible in the English channel. Also photographs of - stereo photographs of the Danube Delta as it dumps into the Black Sea and the Anatolian Fault zone in the Cacasus Mountains as well as bioluminescence in the Persian and Arabian Sea. The bioluminescence is a phenomenon that sometimes occurs when water disturbed by - passing of a ship disturbs and brings to the surface, microscopic organisms that glow when they reach the surface. The crew will be asked to photograph this phenomenon in the Persian Gulf and the Arabian Sea on this pass and again on the subsequent pass, revolution 136. The crew has also been asked to look at a large low pressure area due east of Florida at the same latitude of the Kennedy Space Center. Flight director, Frank Littleton advising his flight controllers on this upcoming stateside pass, as Apollo passes directly over Cape Kennedy, there may be a slight interference and temporary dropout of some telemetry due to a pad test underway on the Viking at the KSC launch pad. The phase elapsed time clock reading 94 hours and 8 minutes. At ground elapsed time of 218 hours and 26 minutes, this is Apollo Control.

END OF TAPE