DETAILED REPORT OF TF 130 PARTICIPATION IN APOLLO 11 MISSION

- 1. General. TF 130 participation in the Apollo 11 mission consisted of planning for and executing the location and retrieval of the astronauts and command module for a landing in the Pacific Command area. The Task Force was ready in all respects to accomplish the mission. Forces assigned included USS HORNET (CVS-12), USS GOLDSBOROUGH (DDG-20), Helicopter Antisubmarine Squadron FOUR with eight SH-3D helicopters, Carrier Airborne Early Warning Squadron 111 Detachment 12 with four E-1B aircraft, two C-1A's from Fleet Tactical Support Squadron THIRTY, personnel from Underwater Demolition Teams ELEVEN and TWELVE, Air Force HC-130's and pararescue teams assigned by 41st Aerospace Rescue and Recovery Wing, two US-2C aircraft from Fleet Composite Squadron ONE, and one WC-121 aircraft from Airborne Early Warning Squadron ONE. HORNET with HS-4, VAW 111 DET 12, VR-30 DET, UDT 11 and 12 DETs, and VC-1 DET A embarked, deployed from Pearl Harbor to abort stations along the mid-Pacific recovery line and then to the end-of-mission target point. GOLDSBOROUGH deployed from Pearl Harbor to station in the mid-Pacific recovery zone and after translunar injection returned to Pearl Harbor. The recovery was executed as planned, terminating with the pick-up of the command module by HORNET at 241955Z July 1969. Splashdown occurred at 13-19N 169-09W at 241649Z July 1969.
- 2. Presidential Visit Support. CINCPACFLT tasked CTF 130 with operational control of forces assigned to support the President's visit to HORNET. In connection with this task, USS ARLINGTON (AGMR-2), COMDESDIV 112, and USS CARPENTER (DD-825) came under the operational control of CTF 130. In addition, USS GOLDSBOROUGH was extended under operational control of CTF 130 and USS HASSAYAMPA (AO-145) was tasked to provide support. Operations in support of the President's visit went smoothly. Since these operations were not in direct support of the Apollo 11 mission, details concerning them are not included in this report.

3. Force Deployment and Readiness

- a. Forces commenced deployment to recovery stations on F-4 day and were ready in all respects for recovery.
- b. HORNET, the primary recovery ship, conducted 10 boilerplate retrievals including one SIMEX prior to deployment. Retrievals were practiced using the B and A crane with the NASA winch and the TILLEY (NS-50) crane.
- c. GOLDSBOROUGH practiced boilerplate pick-ups working with Air Force pararescuemen. Since the HC-130 crews and pararescuemen were current on their qualifications, deployment from HC-130's was not practiced.

- d. Details of force deployment are included in enclosure (3). Enclosure (4) summarizes ship days, aircraft hours and personnel statistics.
- 4. Recovery. Apollo 11 was launched at 161332Z July 1969. At launch the planned end-of-mission target point was 10-56N 172-24W. After transearth injection and the subsequent mid-course correction burn, this point was refined at 231857Z to 11-01N 172-02W. A forecast of marginal weather for this point resulted in changing the target point at 240406Z to 13-19N 169-10W with a predicted landing time of 241650Z. HORNET was on assigned station at 241400Z. Initial recovery force contact with Apollo 11 was established at 241639Z when HAWAII RESCUE 1 reported visual contact. HAWAII RESCUE 1 and 2 had S-band and recovery beacon contact. RECOVERY, SWIM 1 and SWIM 2 all had recovery beacon contact on SARAH. At 241649Z SWIM 1 observed Apollo 11 splashdown with the command module immediately going to the stable II position. The flotation bags uprighted the command module about 5 minutes later. HORNET had established voice contact with the astronauts at 241646Z. Except for the period the CM was in the stable II position, good voice communications between HORNET and Apollo 11 were maintained throughout the recovery operation. At 241658Z the first swimmer went in the water and the collar was installed and fully inflated by 241704Z. At 241720Z the command module hatch was opened to permit the decontamination swimmer to place the astronaut's BIG's (biological isolation garments) inside the command module. At 241728Z the astronauts had donned their BIG's and the hatch was reopened. By 241730Z the astronauts were in the raft and the command module hatch was secured. By 241743Z all three astronauts had been coated with decontaminant. RECOVERY helicopter had all three astronauts aboard at 241752Z and landed aboard HORNET at 241757Z. At 241807Z the astronauts entered the mobile quarantine facility. By 241915Z all decontamination procedures were completed. The auxiliary lifting loop was then lowered by helicopter and installed. At 241932Z HORNET commenced the approach to pick up the command module. The command module was secure aboard the HORNET at 241955Z. By 242050Z all HORNET aircraft were aboard and the ship was underway for Pearl Harbor. Enclosure (2) contains a detailed sequence of events prior to and subsequent to splashdown.

5. Recovery Training, Procedures and Equipment

- a. Summary. Recovery training for HORNET and embarked units was conducted in port at Pearl Harbor and in the Hawaiian operating area during the period 2-12 July. GOLDSBOROUGH was trained in the Pearl Harbor area during the period 7-14 July. Deck strengthening, davit crane and boilerplate installation were accomplished prior to 7 July.
- b. End-of-Mission Force Positioning. Positioning of forces within the high probability end-of-mission splashdown area, especially during periods of poor visibility and/or cloud cover, created a danger

of collision between the PRS or PRS aircraft and the command module. It is highly desirable to position the PRS in the end-of-mission area some distance from the predicted splashdown point. In order to avoid this hazard a requirement exists for a highly accurate navigation system on the PRS.

- c. <u>MASA Winch</u>. The speed of the MASA winch used on HORNET for recovery of the CM is considered too slow for retrieval operations in seas higher than 8 feet. The slow lifting speed exposes the command module to successive waves before it can be brought completely clear of the water, subjecting it and the hoisting equipment to excessive stresses. A slow mode of operation is required, however, for lowering the command module on the dolly.
- d. SARAH. SARAH equipment was delivered to HS-4 when they arrived in Hawaii. Four of the seven receivers had to be aligned and other minor installation delays developed. Time for training flights and for resolving installation problems was lost in not having the SARAH equipment installed prior to departure from the west coast.
- e. Decontamination. The decontamination swimmer made several comments which warrant further study or action.
- (1) The nozzle on the decontamination sprayers often locked in the open position, wasting decontaminant before they could be unlocked.
- (2) Swimmers found that the decontaminant, sodium hypochlorite, will produce nausea and eye irritation.
- (3) The NASA-supplied rafts are not well suited for recovery work in that they are easily punctured and the valves work open.
- (4) The flotation collar is slippery when wet and even more so when covered with decontaminant.

6. Spacecraft Location Aids

- a. Unified S-band transmitter. HAWAII RESCUE 1 and 2 both acquired S-band contact.
- b. VHF recovery beacon. The beacon activated at main parachute deployment and, with the exception of the period the command module was in stable II position, continued to operate throughout the recovery.
- c. Flashing Light. The flashing light operated on the low rate throughout the recovery operation.

- d. Florescein sea dye marker. The sea dye marker operated properly.
- 7. Weather. Weather was good during training and throughout most of the mission. The evening prior to splashdown, however, weather in the end-of-mission area became marginal. Dense cloud cover, thunder storms and frequent rain squalls were forecast. As a result, the target point was moved about 215 miles downrange. At splashdown, seas were running 3-5 feet with easterly winds of 17 knots. There was about six-tenths cloud cover above 1500 feet. Below that visibility was good with no precipitation.
- 8. ARIA. ARIA aircraft were not required by, nor released to, CTF 130. In coordinating the tubular SPLINTER SHIELD area with the Honolulu Air Route Traffic Control Center, CTF 130 became aware of ARTCC problems in keeping ARIA aircraft separated from the SPLINTER SHIELD. This is the subject of separate correspondence from HONO ARTCC to DDMS which in essence recommends SPLINTER SHIELD familiarization to ARIA control personnel.

9. Public Affairs

- a. <u>Press</u>. There were no problems with the press pool during this mission. The fact that Western Union International assumed press traffic handling responsibility greatly reduced the opportunity for DOD problems.
- b. Philatelic Mail. Providing for philatelic cachets proved to be a greater problem than usual. Since only one cachet stamp was provided, it was a monumental task to cachet the more than 250,000 pieces of mail delivered for this purpose. Problems with improper addresses and late mailings resulted in an estimated 15,000 requests being received after the deadline.
- 10. Communications. Communications during the Apollo 11 mission were generally reliable and of good quality. Communications support for the Presidential party was effectively provided by USS ARLINGTON (AGMR-2). One teletype circuit was provided in support of CINCPAC. Although both TACSAT and ATS developed severe problems leading up to recovery day, both performed adequately during recovery. Additional recovery communications backup was provided by USS ARLINGTON through UHF/HF relay.
- a. HF Communications. HF communications were of good quality throughout the mission. There were infrequent periods of circuit outage or poor quality due to poor propagation. There was a marked increase of interference this mission due to the position of the EOM landing area, since NAVCOMMSTA Honolulu antennae were pointing towards sources of interfering foreign signals.

- b. Landlines. Landlines between MSC Houston and Pacific RCC were generally of very good quality, however, there were instances of low levels. DDMS NET 2 was interrupted several times, the most critical occurring on recovery day due to problems on the mainland. Feedback and echoes on DDMS NET 5 caused the transmitter to remain keyed, precluding the use of the circuit. Several instances of outage were recorded on DDMS NET 6 due to problems east of Wheeler AFB. The PAO COORD CKT underwent line problems on the mainland during initial call-up. This was due to the fact that there was no specified time for activating this circuit.
- c. AGMR Relay. USS ARLINGTON was used during Apollo 11 to provide full support for Presidential communications, and to provide backup communications on recovery day. For Presidential support ARLINGTON established two 6 kHz HF radio trunks with NAVCOMMSTA HONO containing three voice and six teletype circuits. Due to the deterioration of TACSAT and the poor performance of ATS, a third HF trunk was established for UHF/HF relay of CTF 130 C/C and NASA PRS COORD voice circuits.
- d. Press. Western Union International provided press teletype support for Apollo 11 on a commercial basis. CTF 130 provided a back-up circuit until recovery day when it was required for Presidential support.
- e. <u>Voice of America</u>. The Voice of America live Russian broadcast covering the Apollo 11 splashdown was provided by Western Union International. The PRS provided an HF backup circuit via ARLINGTON to San Francisco.

f. ATS

- (1) Until recovery day the ATS system was limited to a test configuration. The system was planned to provide emergency backup communications for TACSAT and HF communications, and was used for Presidential support during recovery.
- (2) The system was available to CTF 130 for testing on a very restricted access time basis and the tests fluctuated between good and bad. The overriding problem was a deep fading of the signals with levels of -112 to -123 DBM being recorded. Increasing the power level improved the signals but the circuit was still marginal. Other problems that degraded the circuit were echoes, noise and radar interference. The echoes were somewhat resolved by replacement of the cable between the hut and the ship's patching facilities, but the noise and radar interference were never eliminated completely.

(3) ATS transmission seriously degraded the flight deck radio system, rendering the system virtually unusable.

g. TACSAT

- (1) The TACSAT satellite system using terminals located at Wheeler AFB, Scott AFB, and the PRS was used during the Apollo 11 mission. The system was tasked to provide two voice circuits between the PRS and RCC Pacific.
- (2) The NELC representatives arrived in Hawaii late on 6 July and the terminals arrived at Wheeler AFB on the morning of 7 July. Testing of the circuits did not begin until 080100Z July. The performance of the circuits during HORNET's 7-9 July at-sea training was unsatisfactory. Many problems arose as the result of a quick installation and corrective action was required throughout the mission.
- (3) It should be noted that problems were not due to equipment incompatibilities between the TACSAT terminal and the patching system or remote stations. The CVS environment did not present any overwhelming problems; the problems which rendered the circuits useless or degraded them for long periods of time were the induction of various HF carriers with MUX or voice modulation and interference from the AN/SPS-43 radar.
- (a) In the interest of expediting the TACSAT installation, HORNET had erroneously installed an armored but unshielded cable between the hut and the ship's patching facilities. The NELC personnel were aware of this, however they were not sure that the cable was the cause of the RFI problems until the 19th, at which time they decided to replace the unshielded cable with the shielded cable used during Apollo 9 and 10. Installation was completed on the 21st and the interference previously experienced was materially reduced. The MUX feedover was eliminated and, although the radar interference persisted, it was at low levels and was more annoying than degrading.
- (b) There were other numerous instances of RFI that were not continuous although they did interfere heavily until corrected. A several hour disruption occurred in the case of a welding operation being performed on the 06 level. Another instance of severe interference occurred when an HF antenna shorted to the ground while radiating. Fixed wing aircraft warm-up and flight deck service vehicle use near the hut caused some interference. This was resolved by giving the hut wide clearance during later operations. On still another instance, a SARAH beacon disrupted the circuits.
- (4) There were various instances of interference from other TACSAT 1 users. Two compatibility tests were conducted. The first FM voice and TATS MODEM was cancelled due to severe interference to

FM voice circuits. The second test concerned in-band teletype in the full duplex voice circuit. Perfect copy was sent in both directions, however the tone level required for TTY degraded the voice circuit. Also, the voice signals mutilated the TTY copy. This test was discontinued and the equipment removed from the NELC terminals.

- (5) TACSAT developed severe fading problems on 22 July. The fading increased to the point that on the 23rd the satellite was required to be released for maintenance. Twelve hours before recovery Houston Osborn advised CTF 130 that TACSAT could not be used except in an emergency. During this period of time the LES-6 satellite was made available but the circuits were of poor quality and degraded to the point where only one marginal simplex circuit could be maintained. Two hours prior to recovery, TACSAT was returned providing two simplex circuits. TACSAT was not requested by CTF 130 at this time since, upon being advised that TACSAT could not be used, CTF 130 had established the C/C and NASA PRS COORD circuits via the AGMR to insure that two reliable circuits would be available during recovery. Consequently TACSAT and HF circuits were operational during recovery.
- (6) In conclusion, except for the failure of the satellite, most of the problems experienced could have been eliminated by improved management.
- 11. <u>Deactivation</u>. A problem in meeting rock sample delivery timelines arose when the biological samples could not be delivered as soon as anticipated. In general, however, deactivation and off-loading problems were minimal.

SEQUENCE OF SIGNIFICANT EVENTS APOLLO 11 RECOVERY

24 JULY 1969

TIME (Z)	EVENT
1539	All HORNET aircraft on station.
1609	All HAWAII RESCUE aircraft on station.
1612	President arrived aboard HORNET.
1634	HORNET on station.
1639	HAWAII RESCUE 1 reported visual contact.
1640	AIR BOSS reported visual contact.
1640	HAWAII RESCUE 1 S-band announcement.
1640	HORNET reported radar contact bearing 230°T, 120 n.m.
1642	HAWAII RESCUE 2 S-band announcement.
1642	HORNET radar contact 65 n.m.
1644	HORNET reported hearing sonic boom.
1646	RELAY reported visual contact. Observed CM riding on three main parachutes and flashing light operating.
1646	HAWAII RESCUE 1 recovery beacon announcement. Bearing 055°T.
1646	HAWAII RESCUE 2 recovery beacon announcement. Bearing 200°T.
1646	HORNET established communications with Apollo 11.
1648	Apollo 11 reported visual contact with HORNET. Computed position 13-18N 169-09W.
1648	SWIM 1, SWIM 2, RECOVERY and HORNET reported recovery beacon contact.
1649	SWIM 1 observed CM splash and reported CM went to stable II.
1649	HORNET established datum. This position was later corrected by a reliable celestial fix to 13-19N 169-09W.

TIME (Z)	EVENT
1652	CM position reported bearing 246°T, 13 n.m. from HORNET.
1657	CM uprighted to stable I by uprighting bags.
1658	SWIM 2 deployed 1st swimmer.
1659	Sea anchor attached.
1701	2nd and 3rd swimmers deployed.
1702	Flotation collar attached.
1704	Collar inflated. SWIM 2 deployed raft #1.
1705	Raft inflated and tethered to CM.
1707	SWIM 2 deployed raft #2.
1708	RECOVERY deployed decontamination swimmer.
1710	RECOVERY deployed BIGs and decontaminant.
1711	BIGs and decontaminant in raft #2.
1716	Decontamination swimmer donned BIG.
1717	Decontamination swimmer and decontaminant transferred to raft #1. Remaining 3 swimmers moved upwind with raft #2.
1720	CM hatch opened and BIGs placed inside.
1720	CM hatch closed.
1721	Decontamination swimmer positioning tanks on collar. CM exterior decontamination commenced. Astronauts donning BIGs.
1728	Astronauts in BIGs. Hatch opened. First astronaut in raft $\#1$.
1729	Second and third astronauts in raft.
1730	CM hatch closed.
1733	Decontamination swimmer completed scrubbing CM with decontaminant.

T	IME (Z)		EVENT
	1734		CM decontamination completed.
	1735		Decontamination swimmer commenced wiping down astronauts with sodium hypochlorite.
*	1743		All astronauts and decontamination swimmer coated with decontaminant.
	1744		RECOVERY lowered recovery net.
	1749		First astronaut in helo.
	1750		Second astronaut in helo.
	1752		Third astronaut in helo.
	1755		PHOTO on deck.
	1757		RECOVERY on deck.
	1801		Elevator #2 lowered to hangar deck.
	1807		Astronauts entered MQF.
	1837	*	Decontamination swimmer sank raft.
	1838		Life boat closed CM to pick up scuba gear.
	1853	,	President and party on hangar deck for ceremony.
	1904		President left hangar deck for flight deck.
	1911		President departed HORNET.
	1915		SWIM 2 delivered auxiliary lifting loop.
	1930		CINCPAC departed HORNET.
	1932		HORNET commenced approach to pick up CM. Auxiliary lifting loop installed.
	1945	*	Shot line away.
	1947		In-haul line attached.
	1948		Sea anchor detached.
	1949		Recovery hook attached. CM clear of water.

TIME (Z)	EVENT			
1950	CM over elevator.		i e	
1955	CM on transport doll	Ly.		
2000	All HORNET aircraft	on deck.		
2023	CM joined to MQF by	shipboard	transfer	tunnel.
2050	HORNET underway for	Pearl Har	bor.	

CHRONOLOGICAL SUMMARY APOLLO 11

	27 June	
	271500Z 271630Z	USS HORNET (CVS 12) underway from Long Beach for San Diego. HS-4 (HELANTISUBRON FOUR) with 8 SH-3D helicopters departed NAS Imperial Beach for HORNET.
	271745Z 271900Z	HS-4 arrived aboard HORNET. Davit crane installed aboard USS GOLDSBOROUGH (DDG 20) and
	272000Z 272000Z	deck reinforcement completed. HORNET arrived at San Diego. VAW-111 DET 12 (CARAEWRON 111 Detachment 12) consisting of 4 E-1B aircraft departed North Island for HORNET.
	272100Z	VAW-111 DET 12 arrived aboard HORNET.
	28 June	
,	280000Z	HORNET with 4 E-1B, 8 SH-3D and 3 C-1A underway for Pearl Harbor. (2 C-1A were from FLETACSUPPRON THIRTY and 1 C-1A from HORNET).
	1 July	
	011900Z 012315Z	Recovery training equipment loaded aboard GOLDSBOROUGH. Conducted in port recovery training for GOLDSBOROUGH.
	2 July	
	020002Z 022100Z 022100Z	HORNET CHOPPED to CTF 130. HORNET arrived at Pearl Harbor. CTF 130 commenced loading recovery and quarantine equipment aboard HORNET.
	3 July	
	0 31800Z	Eleven swimmers (8 from UDT-11 and 3 from UDT-12) reported aboard HORNET.
	031830Z 031830Z	CTF 130 conducted pre-mission brief for all concerned. FWC Pearl conducted weather observation and reporting training for personnel from HORNET and GOLDSBOROUGH.
	0 32330Z	CTF 130 conducted pre-mission communications brief.
	7 July	
	071000Z 071315Z	GOLDSBOROUGH CHOPPED to CTF 130. Conducted additional in port recovery training for GOLDSBOROUGH.
	071700Z 072300Z 072330Z	HORNET underway for at-sea training. HORNET boilerplate pick-up and SWIM 1 day training. CTF 130 conducted SIMEX for HORNET CIC personnel.

8 July		
080130Z 080500Z 080800Z 081900Z		HORNET boilerplate pick-up and SWIM 2 day training. HORNET boilerplate pick-up and SWIM 1 night training. HORNET boilerplate pick-up and SWIM 2 night training. HORNET boilerplate pick-up using TILLEY crane. SWIM 3 and RECOVERY day training. All aircraft positioned in array for practice. Biological isolation procedures practiced.
9 July		
090030Z 090100Z 090100Z 090400Z 091800Z		Conducted two STAR pick-ups from HORNET. HORNET practiced boilerplate pick-ups. CTF 130 conducted SIMEX for HORNET CIC personnel. HORNET boilerplate pick-up and SWIM 3 night training. GOLDSBOROUGH underway for at-sea recovery training. GOLDSBOROUGH conducted 7 boilerplate pick-ups and 2 collar
091430Z		installations. CTF 130 conducted SIMEX with HORNET. Boilerplate position 20-25N 158-26W. Target point 20-10N 158-26W with splash at 091516Z to simulate lighting conditions at EOM.
091730Z		Completed SIMEX.
10 July		
100100Z 100400Z 101900Z		HORNET returned to Pearl Harbor from at-sea training. GOLDSBOROUGH returned to Pearl Harbor from at-sea training. Practiced off-load of MQF from HORNET.
11 July		
111900Z 112200Z		HORNET pre-sail conference. WC-121 from AEWRON ONE departed Guam for Hickam AFB.
<u>12 July</u>		
12 1900Z	a ²⁷	HORNET underway for translunar abort target point at 03-00S 165-00W via SIMEX position, 12-00N 165-00W.
13 July	*	
130001Z 130400Z 131820Z		CTF 130 reported preliminary readiness to DDMS. WC-121 from AEWRON ONE arrived Hickam AFB. 2 US-2C aircraft arrived HORNET from NAS Barbers Pt.
14 July		
141205Z		HORNET arrived at 12-00N 165-00W and deployed boilerplate . for SIMEX.
141300Z		DDMS conducted F-2 SIMEX for HORNET and CTF 130. SIMEX splash position 11-45N 165-14W. HAWAII RESCUE aircraft were simulated.

		· ·
14 July	(cont	d)
141645Z		SIMEX completed. HORNET underway for 03-008 165-00W. ETA 162100Z.
141900Z 142200Z		GOLDSBOROUGH pre-sail conference. GOLDSBOROUGH underway for 25-30N 148-00W in mid-Pacific recovery zone. ETA 160906Z.
15 July		
150438Z 150445Z 150544Z 150924Z 151332Z 151800Z 151914Z 151959Z		CTG 130.4 reported ready to support mission. AEWRON ONE reported ready to support mission. CTG 130.2 reported ready to support mission. CTG 130.1 reported ready to support mission. CTF 130 CHOPPED to DOD MGR. DDMS conducted SIMEX for CTF 130 and GOLDSBOROUGH. GOLDSBOROUGH arrived at SIMEX splash position 23-49N 152-11W. SIMEX completed. GOLDSBOROUGH underway for 25-30N 148-00W. ETA 160932Z.
16 July		
161016Z 161332Z 161616Z 161625Z 161630Z 161929Z		GOLDSBOROUGH arrived at 25-30N 148-00W. APOLLO 11 LAUNCH. TLI burn commenced. GOLDSBOROUGH released from mission support. GOLDSBOROUGH departed mid-Pacific recovery zone for Pearl Harbor. ETA 172200Z. HORNET arrived at 03-00S 165-00W and conducted boilerplate exercises. HORNET underway for 03-00N 167-00W. ETA 181400Z.
17 July		
171900Z 172230Z		HORNET conducted boilerplate exercises. GOLDSBOROUGH arrived at Pearl Harbor.
18 July		
181400Z		HORNET arrived at 03-00N 167-00W. HORNET conducted recovery SIMEX.
182020Z		HORNET SIMEX completed. HORNET underway for 05-00N 168-00W. ETA 192000Z.
19 July		
191809Z 192330Z		HORNET arrived at 05-00N 168-00W. HORNET conducted recovery SIMEX and practiced boilerplate pick-up with the TILLEY crane. HORNET underway for 07-00N 168-00W. ETA 200900Z.

20 July		
200319Z		CTF 130 promulgated Op-Order 335-70 to provide for support of President's visit to HORNET.
200750Z 201200Z		HORNET changed destination to 07-00N 168-30W. ETA 201200Z. HORNET arrived at 07-00N 168-30W and underway for 11-00N 172-20W. ETA 211400Z.
21 July		
210805Z 211430Z	,	HORNET changed destination to 10-51N 172-33W. ETA 220410Z. HORNET arrived at 10-51N 172-33W and placed boilerplate in water.
211515Z 211550Z		HORNET underway for 11-02N 172-22W. ETA 211650Z. DDMS commenced R-3 SIMEX with HORNET and CTF 130. SIMEX splash position was 11-02N 172-22W. ETA 211650Z. Two
211600Z 211655Z 211810Z 211900Z		HAWAII RESCUE aircraft participated in SIMEX. HORNET arrived at 11-02N 172-22W. HORNET underway for 10-49N 172-34W. HORNET arrived at 10-49N 172-34W. HORNET SIMEX completed.
22 July		
221100Z 221800Z 221800Z		HORNET fuel state 58%. HORNET commenced fueling from HASSAYAMPA. WC-121 from AEWRON ONE departed Hickam AFB for Johnston
221831Z		Island. CTF 130 departed NAS Barbers Point for HORNET via Johnston Island.
2 22330Z		HORNET completed fueling from HASSAYAMPA.
23 July		
230015Z 230405Z 231930Z		CTF 130 arrived aboard HORNET. WC-121 arrived Johnston Island. WC-121 departed Johnston Island for weather reconnaissance.
24 July		
240400Z 240406Z		HORNET underway for 13-19N 169-10W. EOM target point changed to 13-19N 169-10W from 11-01N 172-02W.
240513Z 240645Z 241400Z		CINCPAC arrived aboard HORNET. WC-121 returned to Johnston Island. HORNET arrived at 13-19N 169-10W.
241600Z 241611Z 241649Z		WC-121 departed Johnston Island for weather reconnaissance. President arrived aboard HORNET. APOLLO 11 splashdown.
241757Z		Astronauts aboard HORNET.

24 July	(cont	d)
241911Z 241929Z 241955Z 242050Z 242057Z		President departed HORNET. CINCPAC departed HORNET. CM aboard HORNET. HORNET underway for Pearl Harbor. STAR pick-up by Air Force HC-130.
25 July		
250001Z 250300Z 250530Z 251200Z 251610Z 252310Z 252312Z		WC-121 returned to Johnston Island for fuel. WC-121 departed Johnston Island for Guam. First COD shipment departed HORNET for Johnston Island. Second COD shipment departed HORNET for Hickam AFB. WC-121 arrived Guam. CTF 130 departed HORNET. US-2C aircraft departed HORNET.
26 July		
261832Z 262035Z 262131Z 262300Z 262345Z		HORNET arrived at Pearl Harbor and off-loaded MQF, CM and recovery equipment. MQF arrived at Hickam AFB. C-141 with MQF aboard departed Hickam AFB for Houston. CTF 130 held post-mission debrief. CM arrived at Ford Island. CM deactivation commenced.
27 July		
270050Z 271900Z		All TF 130 forces released to normal operational control. HORNET underway for Long Beach.
<u>29 July</u>		
291700Z 292000Z 292300Z		CM deactivation completed. CM departed Ford Island. CM arrived at Hickam AFB. CM, spare MQF and remainder of equipment departed Hickam AFB in C-133.
31 July		
312100Z 312330Z 312359Z	3 11	HS-4 and CARAEWRON 111 DET 12 departed HORNET. CARAEWRON 111 DET 12 arrived North Island. HS-4 arrived NAS Imperial Beach.
1 August		
012200Z		HORNET arrived Long Beach.

From: CTF	130			ssion mber:	APOLLO 1		Type Report: _	FORCE	PARTICIPATION
Mission Location	Type	Number	Ship Da Aircraf	t Hours	Standby Days / A/C	Pers	sonnel		Remarks
A	В	С	DEPLOY & D RETURN		HRS	Per Dier G	Other H	Total I	. 3
MIDPAC	CVS	1	19	11	6		1778	1778	
MIDPAC	DDG	1	4	2	6		310	310	
MIDPAC	AO	1.	4	1	0		328	328	
MIDPAC	SH-3D	8	28.7	202.3	328.5				Personnel reported with CVS total
	E-1B	4.	12.2	117.4	226.0	Andreas - Community of the Community of			Personnel reported with CVS total
The content of the transfer of the content of the c	C-1A	3	14.5	118.2	131.0	and the state of t			Personnel reported with CVS total
* *	US-2B	. 2	6.4	30.0	34.9			Agentage tip to	Personnel reported with CVS total
HAWAII	HC-130	2	NA	44.6	16.0	Annual Confession Conf	190	190	
HAWAII (RCC)	CTF 130	A comment of the state of the s			To the state of th	a. And the state of the state o	68	68	