

CHAPTER 12

Apollo 11

Apollo 12

Apollo 13

NASA
AS11-49-6712



Moon - Apollo 11

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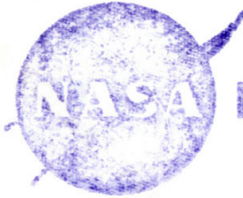
LUNAR SURFACE STEREO CLOSE-UP-----An Apollo 11 stereo view of a stone, about two and one-half inches long, embedded in the powdery lunar surface material. The little pieces closely around it suggest that it has suffered some erosion. On the surface several small pits are seen, mostly less than one-eighth inch in size, and with a glazed surface. They have a raised rim, characteristic of pits made by high-velocity micrometeorite impacts. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Mr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corporation have contributed to the project. The pictures brought back by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

NASA
A311-4-1703



Moon - Apollo 11

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COLOR

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LUNAR SURFACE STEREO CLOSE-UP----An Apollo 11 stereo view of the surface of a lunar rock showing an embedded three-fourths inch fragment of different color. On the surface several small pits are seen, mostly less than one-eighth inch in size, and with a glazed surface. They have a raised rim, characteristic of pits made by high velocity micrometeorite impacts. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Mr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corporation have contributed to the project. The pictures brought back from the Moon by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

NASA
A111-45-0704



Moon - Apollo 11

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COLOR

16 JULY 1969

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LUNAR SURFACE STEREO CLOSE-UP---An Apollo 11 stereo view showing a close-up of a small lump of lunar surface powder about a half inch across, with a splash of a glassy material over it. It seems that a drop of molten material fell on it, splashed and froze. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Mr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corporation have contributed to the project. The pictures brought back from the Moon by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

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COLOR

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

LUNAR SURFACE STEREO CLOSE-UP -- An Apollo 11 stereo view showing a clump of lunar surface powder, with various small pieces of different color. Many small, shiny spherical particles can be seen. The picture is three inches across. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Mr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corp., have contributed to the project. The pictures brought back from the Moon by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

NASA
A11-47-0709





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COLOR

20 JULY 1969

AS11-45-6709

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

LUNAR SURFACE STEREO CLOSE-UP-----An Apollo 11 stereo view of the surface of a lunar rock showing an embedded three-fourths inch fragment of different color. On the surface several small pits are seen, mostly less than one-eighth inch in size, and with a glazed surface. They have a raised rim, characteristic of pits made by high-velocity micrometeorite impacts. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Mr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corporation have contributed to the project. The pictures brought back from the Moon by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

NASA
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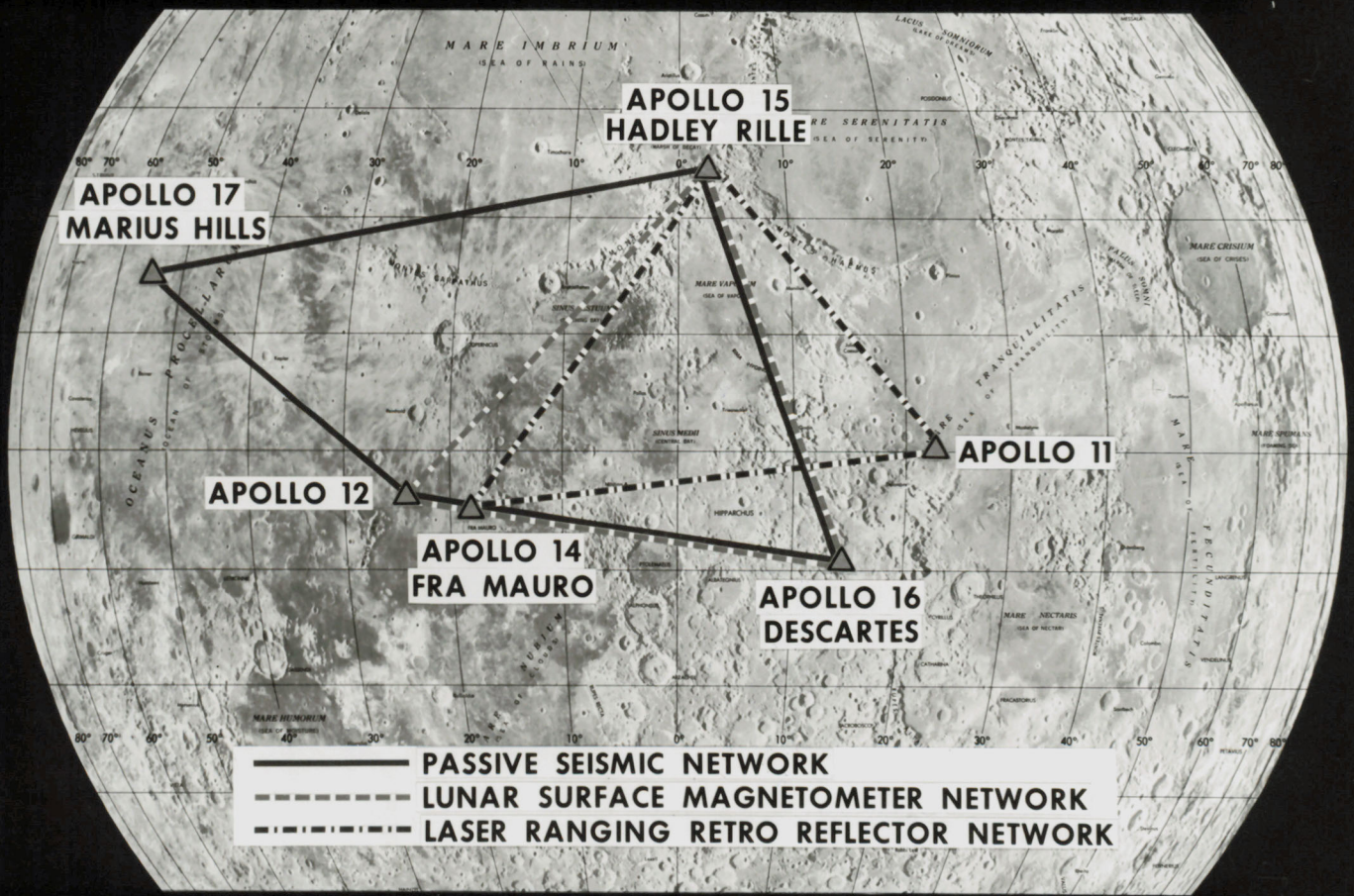
20 JULY 1969

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

LUNAR SURFACE STEREO CLOSE-UP -- An Apollo 11 stereo view showing a close-up of a small lump of lunar surface powder about a half inch across, with a splash of a glassy material over it. It seems that a drop of molten material fell on it, splashed and froze. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Mr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corp., have contributed to the project. The pictures brought back from the Moon by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

NASA-S-70-6030-S

APOLLO SCIENCE STATIONS





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COLOR

1970

S-70-6030-S

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APOLLO SCIENCE STATIONS—A map of the lunar nearside showing previous and anticipated Apollo science stations, the network including both Early Apollo Scientific Experiments Package (EASEP, Apollo 11) and the Apollo Lunar Surface Experiments Package (ALSEP).

Project Apollo

NASA
S-69-46485





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COLOR

5 AUG 1969

S-69-45485

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 CREW IN LRL----Two members of the crew of the Apollo 11 lunar landing mission stand in the serving line prior to dining in the Crew Reception Area of the Lunar Receiving Laboratory, Building 37, Manned Spacecraft Center. On the left is Astronaut Michael Collins, and on the right is Astronaut Edwin E. Aldrin Jr. Not shown is Astronaut Neil A. Armstrong. The three astronauts will be released from quarantine on August 11, 1969.

Michael Collins

NASA
S-69-33876



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B & W

10 JAN 1969

S-69-33876

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 NEWS CONFERENCE---Astronaut Michael Collins, Apollo 11 prime crew command module pilot, is photographed at the Apollo 11 press conference held at the Manned Spacecraft Center on January 10, 1969.

Michael Collins

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S-69-45516



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87V

5 AUG 1969

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

MOON ROCKS — A close-up view of the lunar rocks contained in the second Apollo 11 sample return container. The rock box was opened for the first time in the Vacuum Laboratory of the Manned Spacecraft Center's Lunar Receiving Laboratory, Building 37, on ~~Monday~~ August 4, 1969. These lunar samples were collected by Astronauts Neil A. Armstrong and Edwin E. Aldrin Jr., during their lunar surface extravehicular activity on July 20, 1969.

THU OCT 14 1976

These lunar samples were brought back by astronauts Neil A. Armstrong and Edwin E. Aldrin Jr. during their mission in July 1969. Once moon rocks were a hot item. But to moon rocks are a blasé item.

Moon Rocks

MON JAN 5 1970

~~Fri slip~~
7 1/4 x 4 1/4
FRI SLIP

Velox
velox
Velox

~~7 1/4 x 4 1/4~~
Sun
Sun
Sun
Sun

NASA
S-69-45509



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B/W

5 AUG 1969

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

MOON ROCKS -- A close-up view of the lunar rocks contained in the second Apollo 11 sample return container. The rock box was opened for the first time in the Vacuum Laboratory of the Manned Spacecraft Center's Lunar Receiving Laboratory, Building 37, on Tuesday, August 5, 1969. These lunar samples were collected by Astronauts Neil A. Armstrong and Edwin E. Aldrin Jr., during their lunar surface extravehicular activity on July 20, 1969.

Rocks

Moon

NASA
S-69-33876



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10 JAN 1969

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 NEWS CONFERENCE---Astronaut Michael Collins, Apollo 11
prime crew command module pilot, is photographed at the Apollo 11
press conference held at the Manned Spacecraft Center on January
10, 1969.

Michael Collins

NASA
AS11-45-6704





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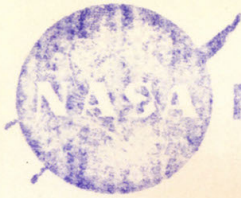
AS11-45-6704

NAME, SPACECRAFT, ORBIT, RANGE, TIME

ORBIT: Apollo 11 stereo view showing a close-up of a small area of lunar surface powder about a half inch across, with a splash of a shiny material over it, at center. The splash is a shiny material. The splash is a shiny material. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the finest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and are a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Dr. S. Gold of Cornell University and Dr. F. Pearson of NASA. The camera was designed and built by Eastman Kodak. Prof. S. Parcell of Harvard University and Dr. G. Lang of the Polaroid Corporation have contributed to the project. The pictures brought back from the Moon by the Apollo 11 crew are of excellent quality and allow fine details of the lunar surface to be seen. Scientists hope to be able to make further investigations of the processes that have taken place on the lunar surface and modified the surface.

NASA
AS11-47-6709





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COLOR

AS11-45-6709

20 JULY 1969

MANAGED SPACECRAFT CENTER, HOUSTON, TEXAS

LUNAR SURFACE STEREO CLOSE-UP—An Apollo 11 stereo view of the surface of a lunar rock showing an embedded three-fourths inch fragment of different color. On the surface several small pits are seen, mostly less than one-eighth inch in size, and with a glazed surface. They have a raised rim, characteristic of pits made by high velocity micrometeorite impacts. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Dr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corporation have contributed to the project. The pictures brought back from the moon by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

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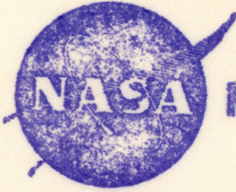
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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

LUNAR SURFACE STEREO CLOSE-UP-----An Apollo 11 stereo view of a stone, about two and one-half inches long, embedded in the powdery lunar surface material. The little pieces closely around it suggest that it has suffered some erosion. On the surface several small pits are seen, mostly less than one-eighth inch in size and with a glazed surface. They have a raised rim, characteristic of pits made by high-velocity micrometeorite impacts. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the tripper. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Mr. T. Searge of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Suddell of Harvard University and Dr. B. Land of the Polaroid Corporation have contributed to the project. The pictures brought back by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

NASA
AS11-45-6706





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COLOR

20 JULY 1969

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LUNAR SPACECRAFT CENTER, HOUSTON, TEXAS

LUNAR SURFACE STEREO CLOSE-UP—An Apollo 11 stereo view showing a clump of lunar surface powder, with various small pieces of different color. Many small, shiny spherical particles can be seen. The picture is three inches across. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Mr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corporation have contributed to the project. The pictures brought back from the Moon by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

NASA
S-69-17211



Project Apollo 11



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21 JAN 1969

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EASEP DEPLOYMENT---Astronaut Don L. Lind goes through a simulation
of deploying the Early Apollo Science Experiment Package (EASEP) in
Building 9. Watching closely at right is Astronaut Edwin E. Aldrin
Jr., Apollo 11 prime crew lunar module pilot.

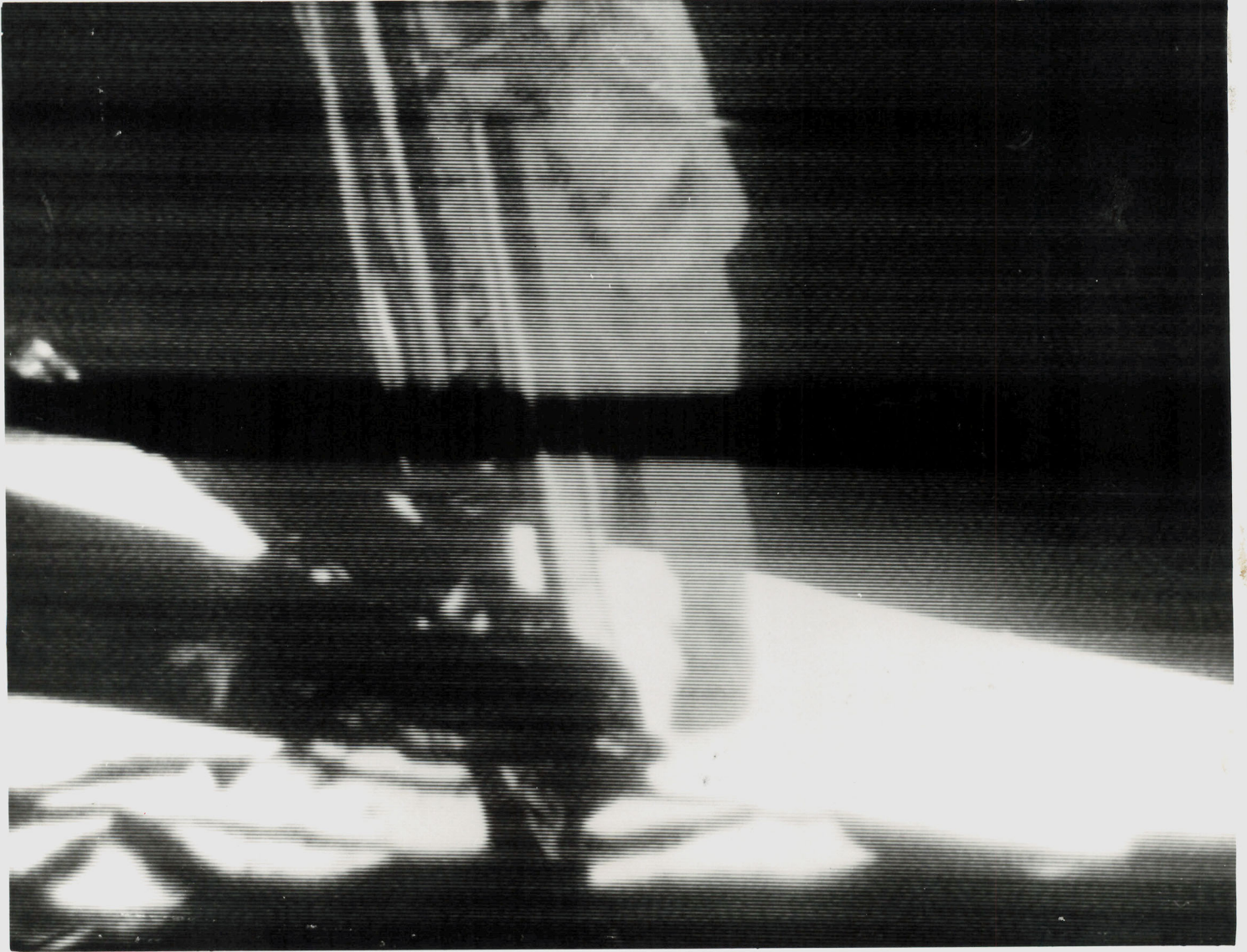
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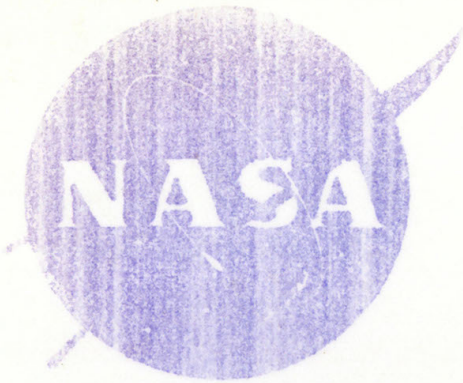
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MON FEB 17 1969

SUN FEB 16 1969
NAUT GOES THROUGH



File: Apollo 11



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APOLLO IX LUNAR ACTIVITIES-A-3--Astronaut Neil A. Armstrong coming down lunar ladder just prior to being the first human being to set foot on the surface of the Moon.

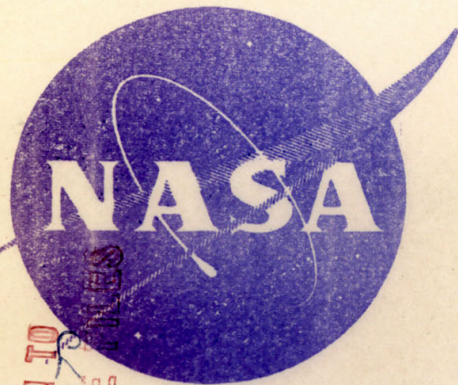
NOTE: Black bar running through center of picture is an anomaly in the T.V. Ground Data System at Goldstone Tracking Station.

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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SPACEMEN OF THE WORLD -- American astronauts Edwin E. Aldrin, Jr., and Neil A. Armstrong greet Soviet cosmonauts Vitali Sevastyanov and Andrian Nikolayev at Washington National Airport at the beginning of the Russian 10-day tour of the United States. Here as guests of the National Aeronautics and Space Administration, the cosmonauts had established a space endurance record in their 18-day Soyuz 9 flight last June. Accompanying them on their trip, Armstrong and Aldrin were the first men to set foot on the Moon during the Apollo 11 mission July 1969. The flowers held by the Cosmonauts were presented by the children of the Soviet Embassy in Washington.

Neil Armstrong

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NASA
AS11-45-0709



Moon - Apollo 11

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COLOR

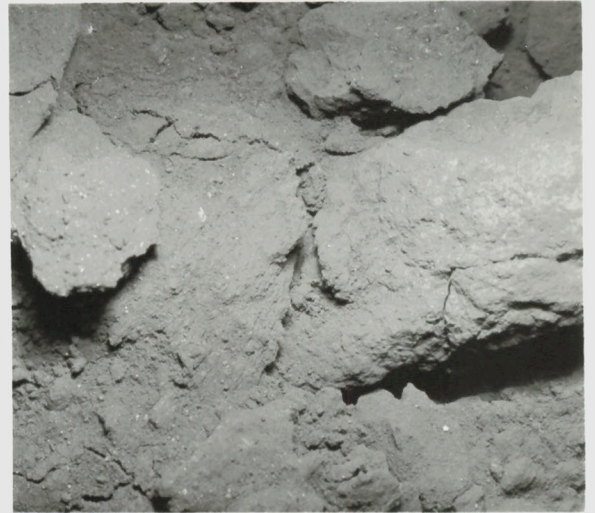
20 JULY 1969

AS11-45-6709

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

LUNAR SURFACE STEREO CLOSE-UP-----An Apollo 11 stereo view of the surface of a lunar rock showing an embedded three-fourths inch fragment of a different color. On the surface several small pits are seen, mostly less than one-eighth inch in size, and with a glazed surface. They have a raised rim, characteristic of pits made by high-velocity micrometeorite impacts. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. T. Gold of Cornell University and Mr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corporation have contributed to the project. The pictures brought back from the Moon by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

NASA
AS11-45-6706



Moon - Apollo 11

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COLOR

20 JULY 1969

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

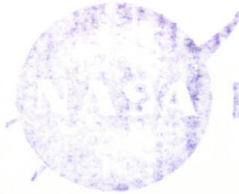
LUNAR SURFACE STEREO CLOSE-UP---An Apollo 11 stereo view showing a clump of lunar surface powder, with various small pieces of different color. Many small, shiny spherical particles can be seen. The picture is three inches across. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the fine detail to be seen very clearly. The project is under the direction of Prof. S. Gold of Cornell University and Mr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. E. Purcell of Harvard University and Dr. E. Land of the Polaroid Corporation have contributed to the project. The pictures brought back from the Moon by the Apollo 11 crew are of excellent quality and allow fine detail of the undisturbed lunar surface to be seen. Scientists hope to be able to deduce from them some of the processes that have taken place that have shaped and modified the surface.

NASA
A311-4-0704



Moon - Apollo 11

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8-8-69
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07/06

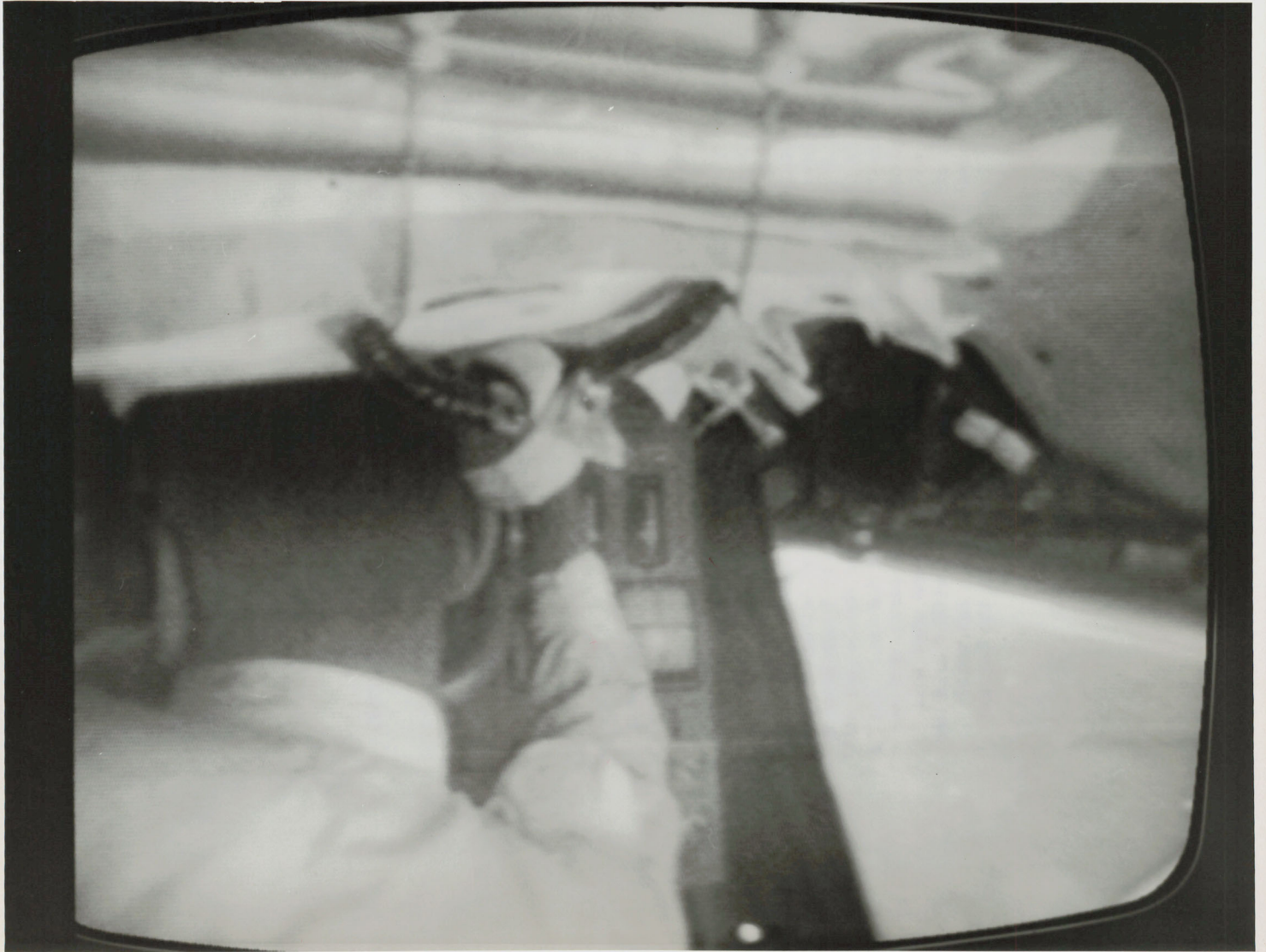
20 JULY 1969

AS11-45-6704

AS11-45-6704

FROM THE FACE OF THE MOON - UP --- An Apollo 11 stereo view showing a close-up of a small lump of lunar surface powder about a half inch across, with a splash of a glassy material over it. It seems that a drop of molten material fell on it, splashed and froze. The exposure was made by the Apollo 11 35mm stereo close-up camera. The camera was specially developed to get the highest possible resolution of a small area. A three-inch square area is photographed with a flash illumination and at a fixed distance. The camera is mounted on a working stack, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. The pictures are in color and give a stereo view, enabling the finest detail to be seen very clearly. The project is under the direction of Prof. E. Gold of Cornell University and Dr. F. Pearce of NASA. The camera was designed and built by Eastman Kodak. Prof. R. Merrill of Harvard University and Dr. E. Lind of the Polaroid Corporation have contributed to the project. The pictures brought back from the moon by the Apollo 11 crew are of excellent quality and allow fine detail of the lunar surface to be seen. The pictures were taken on the moon and returned to earth by the spacecraft and were processed and printed in color at the NASA Johnson Space Center.

NASA
S-69-39531





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B & W

18 JULY 1969

S-69-39531

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS



APOLLO 11 TV PICTURE---The interior of the Lunar Module is seen in this black and white reproduction taken from a color television transmission from the Apollo 11 spacecraft during its translunar journey toward the moon. This view is looking toward some of the LM's displays and controls. The camera is behind Astronaut Edwin E. Aldrin Jr., lunar module pilot of the Apollo 11 lunar landing mission. A LM window is on the right. The Lunar Module was still docked nose-to-nose with the Command and Service Modules. Apollo 11 was approximately 176,000 nautical miles from earth, and was traveling at a speed of about 3,200 feet per second when this photograph was taken. Also, in the Lunar Module with Aldrin was Astronaut Neil A. Armstrong, Apollo 11 commander. Astronaut Michael Collins, command module pilot, remained in the Command Module.

NASA - Apollo 11

NASA
S-69-39530





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B & W

18 JULY 1969

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 TV PICTURE----The interior of the Lunar Module is seen in this black and white reproduction taken from the third color television transmission from the Apollo 11 spacecraft during its translunar journey toward the moon. This view is looking toward some of the LM's displays and controls over the left shoulder of Astronaut Edwin E. Aldrin Jr., lunar module pilot of the Apollo 11 lunar landing mission. The Lunar Module was still docked nose-to-nose with the Command and Service Modules. Apollo 11 was approximately 176,000 nautical miles from earth, and traveling at a speed of about 3,200 feet per second when this photograph was taken. Also, in the Lunar Module with Aldrin was Astronaut Neil A. Armstrong, Apollo 11 commander. Astronaut Michael Collins, command module pilot, remained in the Command Module.



NASA- Apollo 11

NASA
8-69-45495





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COLOR

5 AUG 1969

S-69-45495

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 -- Astronaut Michael Collins, command module pilot for the National Aeronautics and Space Administration's Apollo 11 lunar mission, sits in the open hatch of the spacecraft. The Apollo 11 command module was returned to the Manned Spacecraft Center's Lunar Receiving Laboratory for detailed examination following its recovery in the Pacific Ocean.





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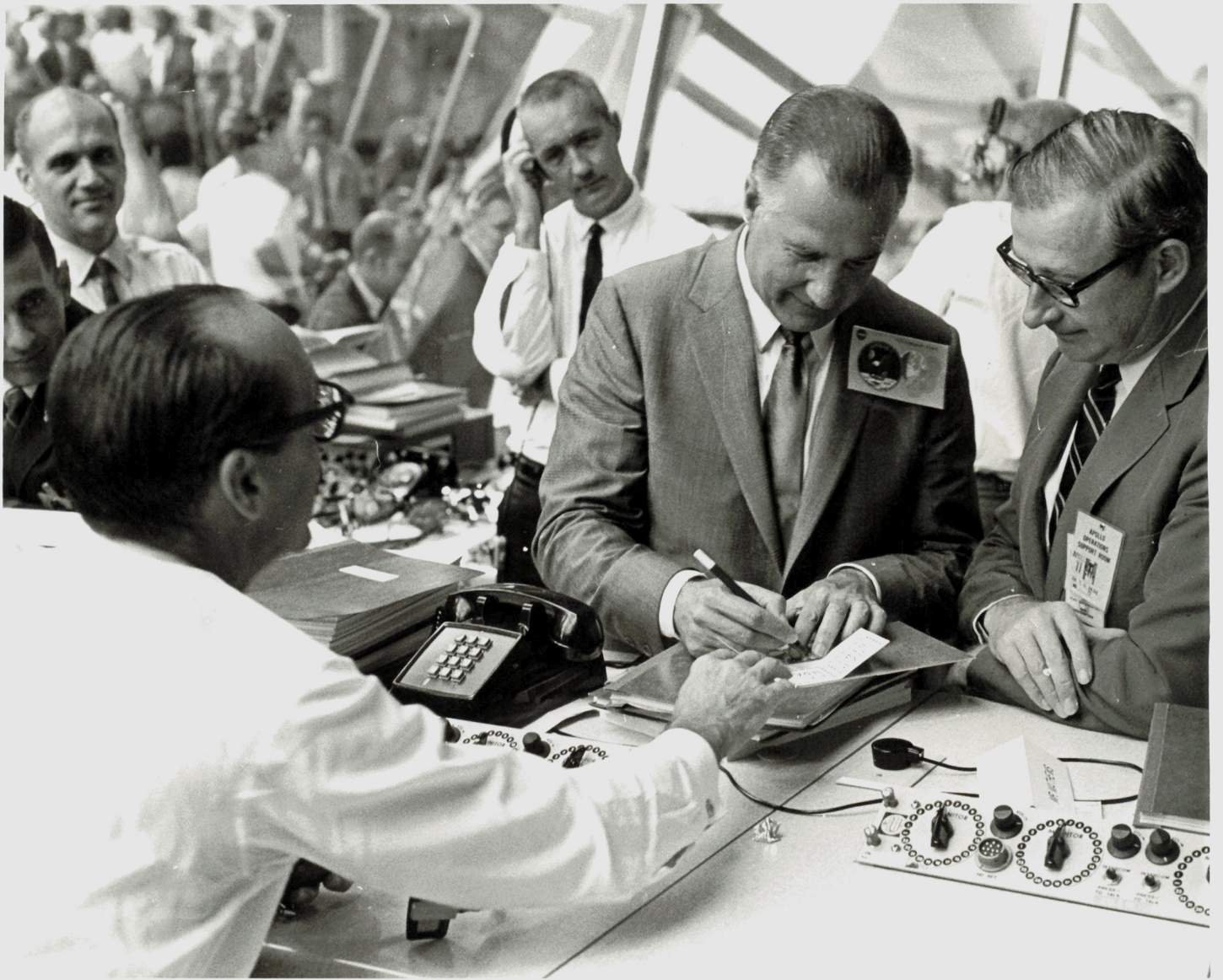
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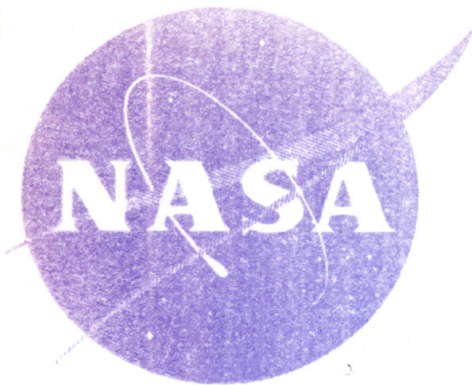
HAPPY SPACE OFFICIALS -- Mission officials relax in the Launch Control Center following the successful Apollo 11 liftoff. From left to right are: Charles W. Mathews, Deputy Associate Administrator for Manned Space Flight; Dr. Wernher von Braun, Director of the Marshall Space Flight Center; and Lt. Gen. Samuel C. Phillips, Director of the Apollo Program.

Behind the miracle

AUG 12 1969

HAPPY SPACE OFFICIALS — Mission officials relax in the Launch Control Center following the successful Apollo 11 liftoff. From left to right are: Charles W. Mathews, Deputy Associate Administrator for Manned Space Flight; Dr. Wernher von Braun, Director of the Marshall Space Flight Center; Dr. George Mueller, Associate Administrator for Manned Space Flight, and Lt. Gen. Samuel C. Phillips, Director of the Apollo Program.





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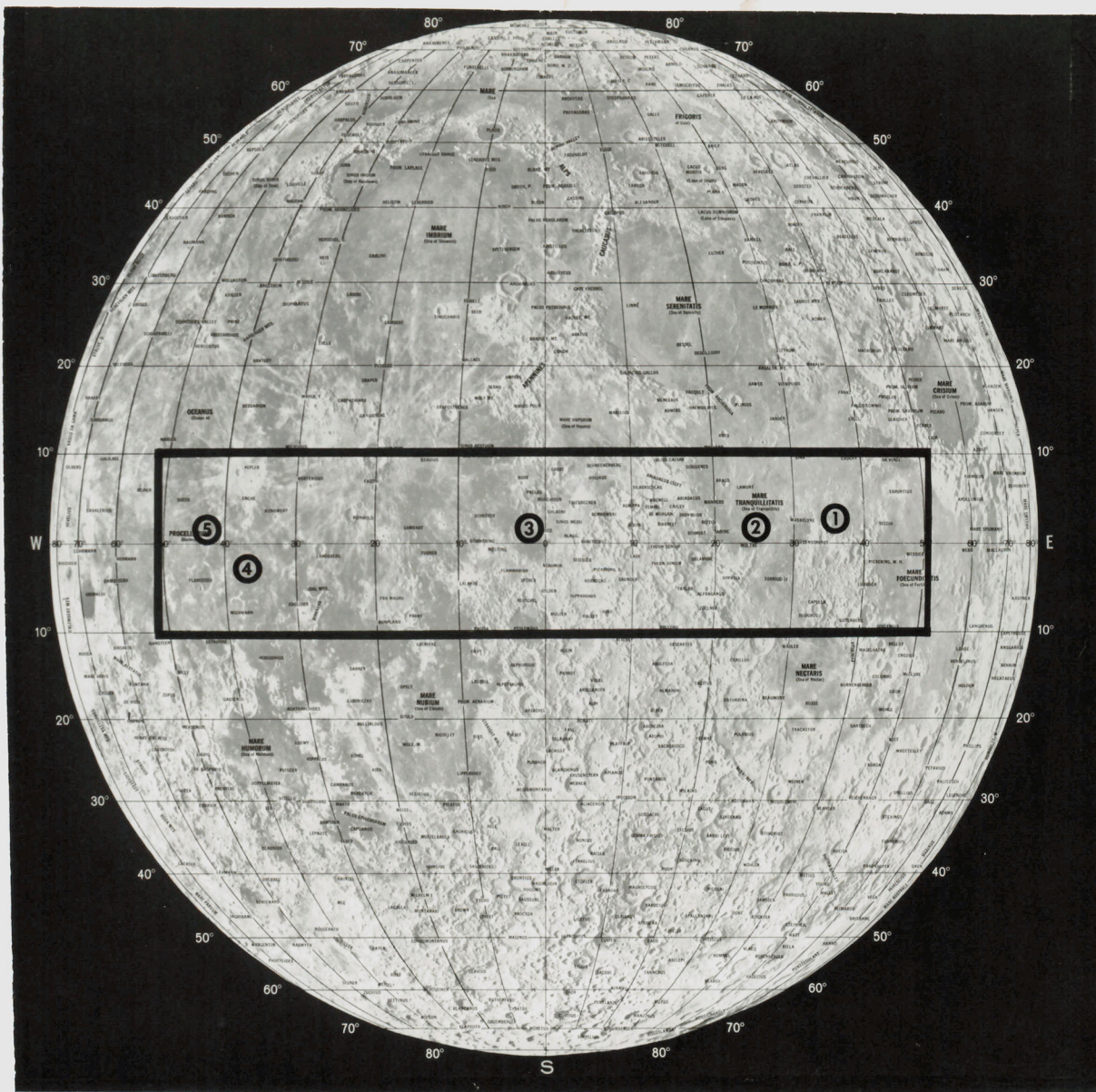
WHAT A BIRTHDAY -- Vice-President Spiro T. Agnew signs a birthday card for Dr. George E. Mueller, Associate Administrator for Manned Space Flight, National Aeronautics and Space Administration. Dr. Mueller, foreground, was born July 16, 1918, and celebrated his birthday watching the liftoff of Apollo 11 at the Kennedy Space Center. Standing beside the Vice-President is NASA Administrator Thomas O. Paine. In the background is astronaut James A. McDivitt.

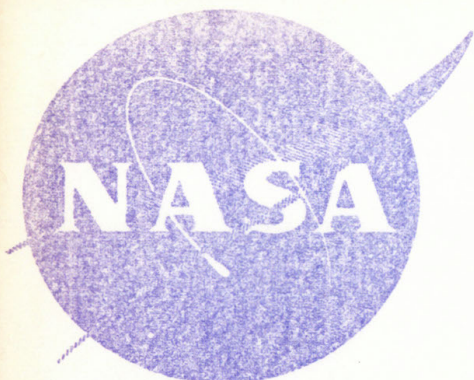
Behind the miracle

WHAT A BIRTHDAY -- Vice-President Spiro T. Agnew signs a birthday card for Dr. George E. Mueller, Associate Administrator for Manned Space Flight, National Aeronautics and Space Administration. Dr. Mueller, foreground, was born July 16, 1918, and celebrated his birthday watching the liftoff of Apollo 11 at the Kennedy Space Center. Standing beside the Vice-President is NASA Administrator Thomas O. Paine. In the background is astronaut James A. McDivitt.

AUG 12 1969

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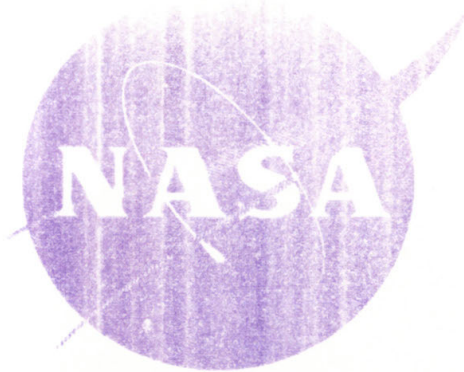
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LUNAR LANDING SITES -- Five landing sites have been chosen for manned lunar landings after careful study of Lunar Orbiter and Surveyor pictures and data. Site 2 the prime site for the Apollo 11 landing is located in the east central part of the moon in southwestern Mare Tranquillitatis, about 62 miles east of the crater Sabine.

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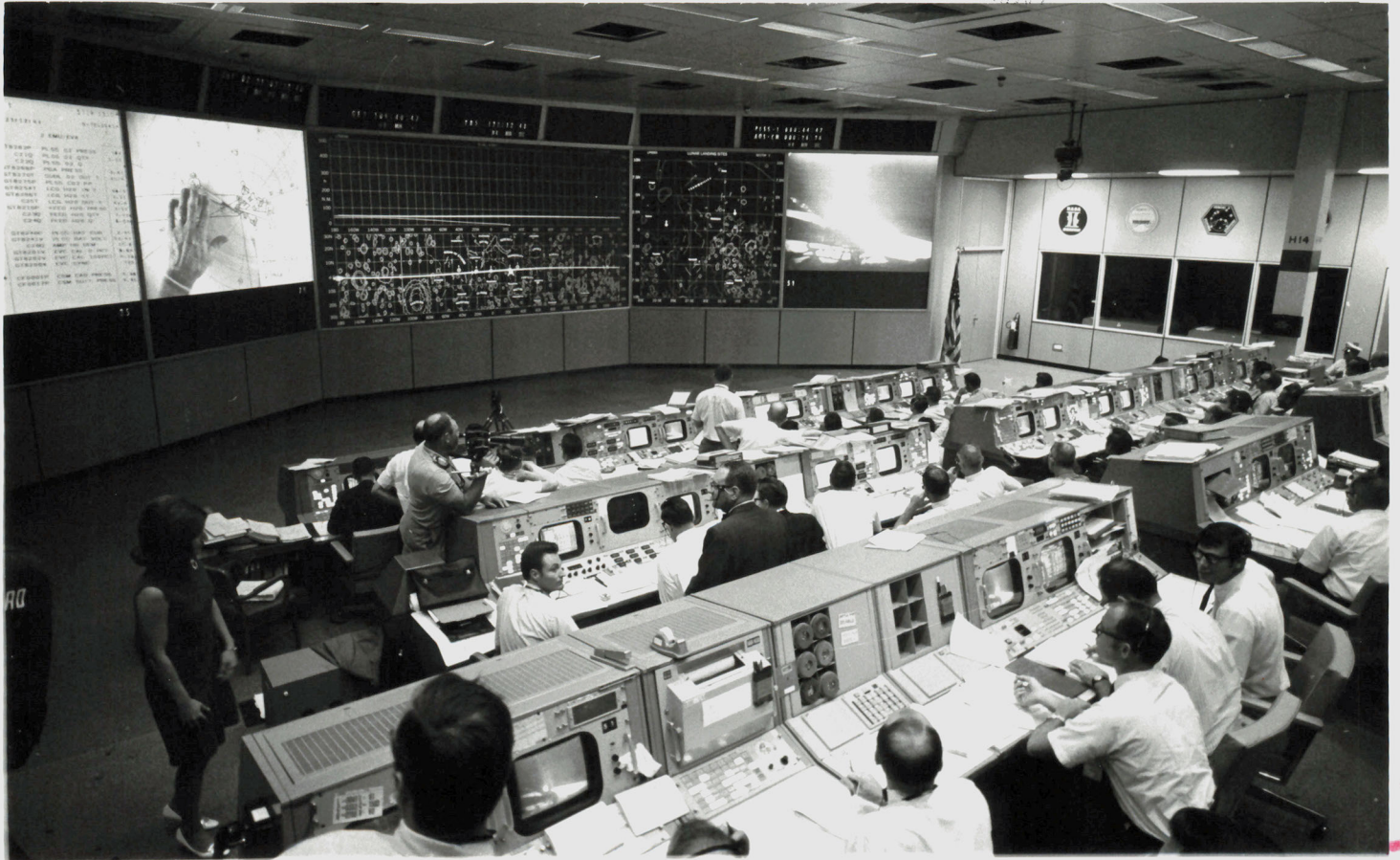
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WELL DONE -- Vice-President Spiro T. Agnew congratulates the government-industry team within the Launch Control Center, Kennedy Space Center, Fla., after the successful liftoff of Apollo 11. Seated from left to right at the consoles are: Jack King, Public Affairs Officer; George M. Low, Apollo Program Manager; and Walter J. Kapryan, Deputy Director of Launch Operations. Flanking the Vice-President in the rear are Apollo 10 Commander Thomas P. Stafford, left, and Rocco A. Petrone, Director of Launch Operations.

Behind the Miracle

WELL DONE -- Vice-President Spiro T. Agnew congratulates the government-industry team within the Launch Control Center, Kennedy Space Center, Fla., after the successful liftoff of Apollo 11. Seated from left to right at the consoles are: Jack King, Public Affairs Officer; George M. Low, Apollo Program Manager; and Walter J. Kapryan, Deputy Director of Launch Operations. Flanking the Vice-President in the rear are Apollo 10 Commander Thomas P. Stafford, left, and Rocco A. Petrone, Director of Launch Operations.

AUG 12 1969



Johnson Space Center - Mission Control

NASA

Houston, Texas 77058

National Aeronautics and
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D&W

20 JULY 1969

SEP-30503

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

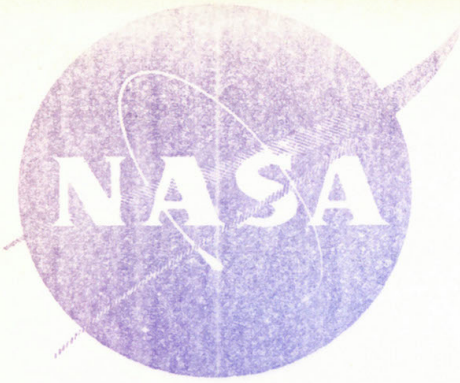
APOLLO 11 MCC -- Overall view of the Mission Operations Control Room in the Mission Control Center, Building 30, during the lunar surface extravehicular activity of Apollo 11 Astronauts Neil A. Armstrong and Edwin E. Aldrin Jr.

pg.52-3

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SUNDAY JUL 17 1994





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69-HC-967

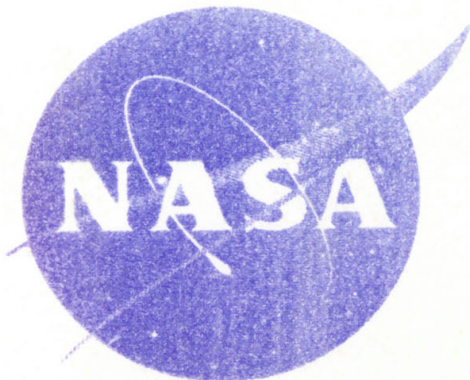
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WASHINGTON, D. C.--Apollo 11 Astronauts (L-R) Edwin E. Aldrin, Jr., Michael Collins, and Neil Armstrong inspect a Moon rock similar to the one which will be displayed in 50 state capitals during the tour of NASA's Mobile Display Van carrying the Apollo 11 spacecraft, lunar rock display and other exhibit items relating to the Apollo 11 mission to the Moon. Apollo 11 was a 9 day mission beginning July 16 through July 24.

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KENNEDY SPACE CENTER, FLA. -- Technician Joe Schmitt suits Apollo 11 Command Module Pilot Michael Collins today in preparation for his launch with astronauts Neil A. Armstrong and Edwin E. Aldrin, Jr. Apollo 11 is to be the first manned lunar landing mission.

NASA
S-69-33797



1352
F

Eagle & Crew



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B & W

7 MAY 1969

S-69-33797

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 THERMOVACUUM TRAINING-----Astronaut Neil A. Armstrong, commander of the Apollo 11 lunar landing mission, is photographed during thermovacuum training in Chamber B of the Space Environment Simulation Laboratory, Building 32, Manned Spacecraft Center. He is wearing an Extravehicular Mobility Unit. The training simulated lunar surface vacuum and thermal conditions during astronaut operations outside the Lunar Module on the moon's surface. The mirror was used to reflect solar light. The purpose of the training was to familiarize the crewman with the equipment to be used on the lunar surface and the crewmen tasks required and with the operation of the EMU in expected lunar thermovacuum conditions. Also, Armstrong demonstrated the operation of lunar surface tools and containers under simulated lunar surface conditions.

12 AUG 1969

- 9 OCT 1969





National Aeronautics and Space Administration
Houston, Texas 77058

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BLACK & WHITE

14 AUGUST 1969

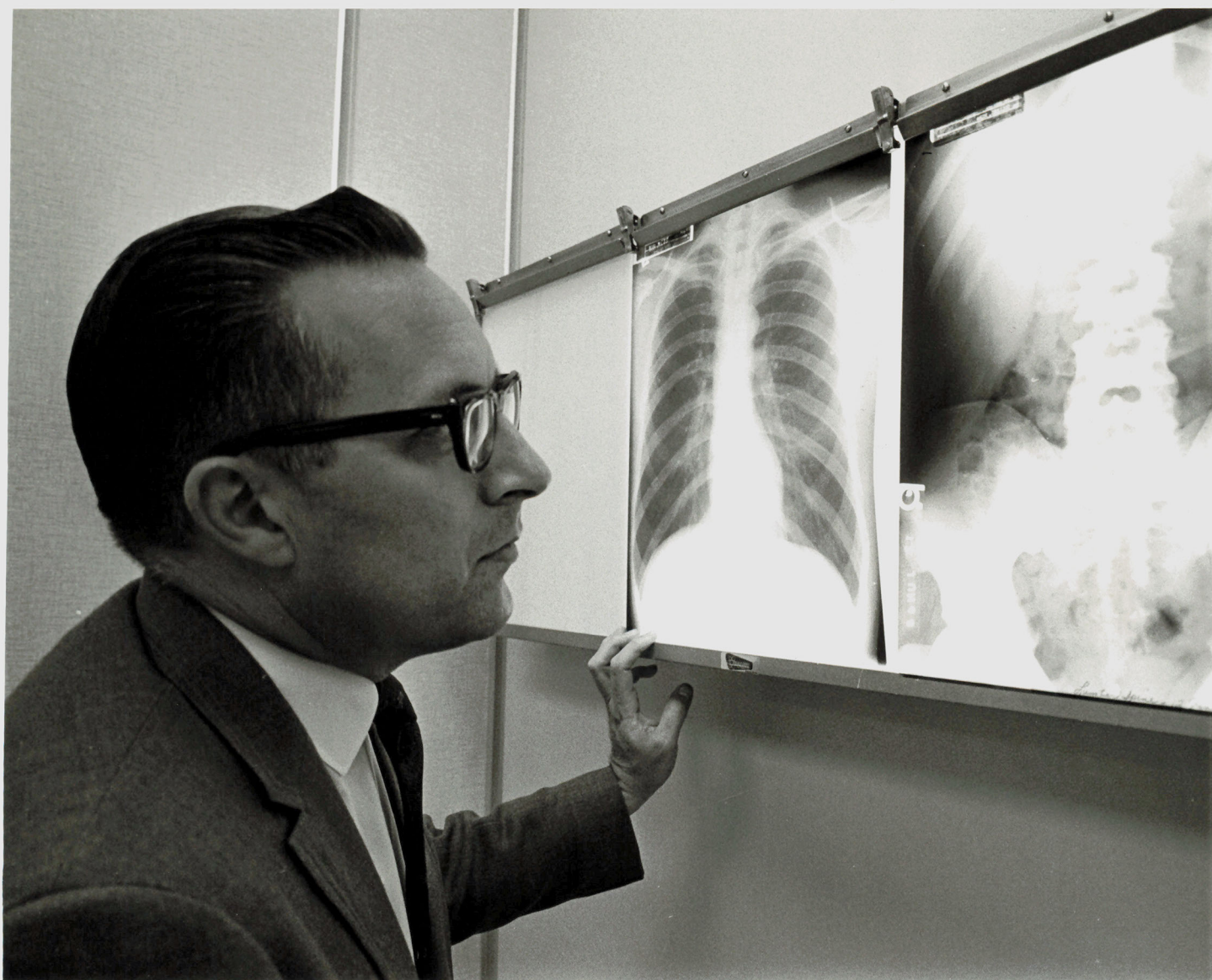
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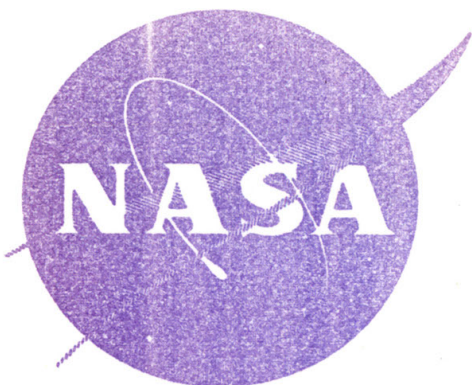
MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

NASA-

APOLLO 11 CM LEAVES MSC --- The Apollo 11 spacecraft Command Module (CM) is loaded aboard a Super Guppy Aircraft at Ellington Air Force Base for shipment to the North American Rockwell Corporation at Downey, California. The CM was just released from its post-flight quarantine at the Manned Spacecraft Center (MSC). The Apollo 11 spacecraft was flown by astronauts Neil A. Armstrong, commander; Michael Collins, command module pilot; and Edwin E. Aldrin Jr., lunar module pilot, during their lunar landing mission. Note damage to aft heat shield caused by extreme heat of Earth reentry. North American Rockwell is the prime contractor for the Apollo Command and Service Modules (CSM).

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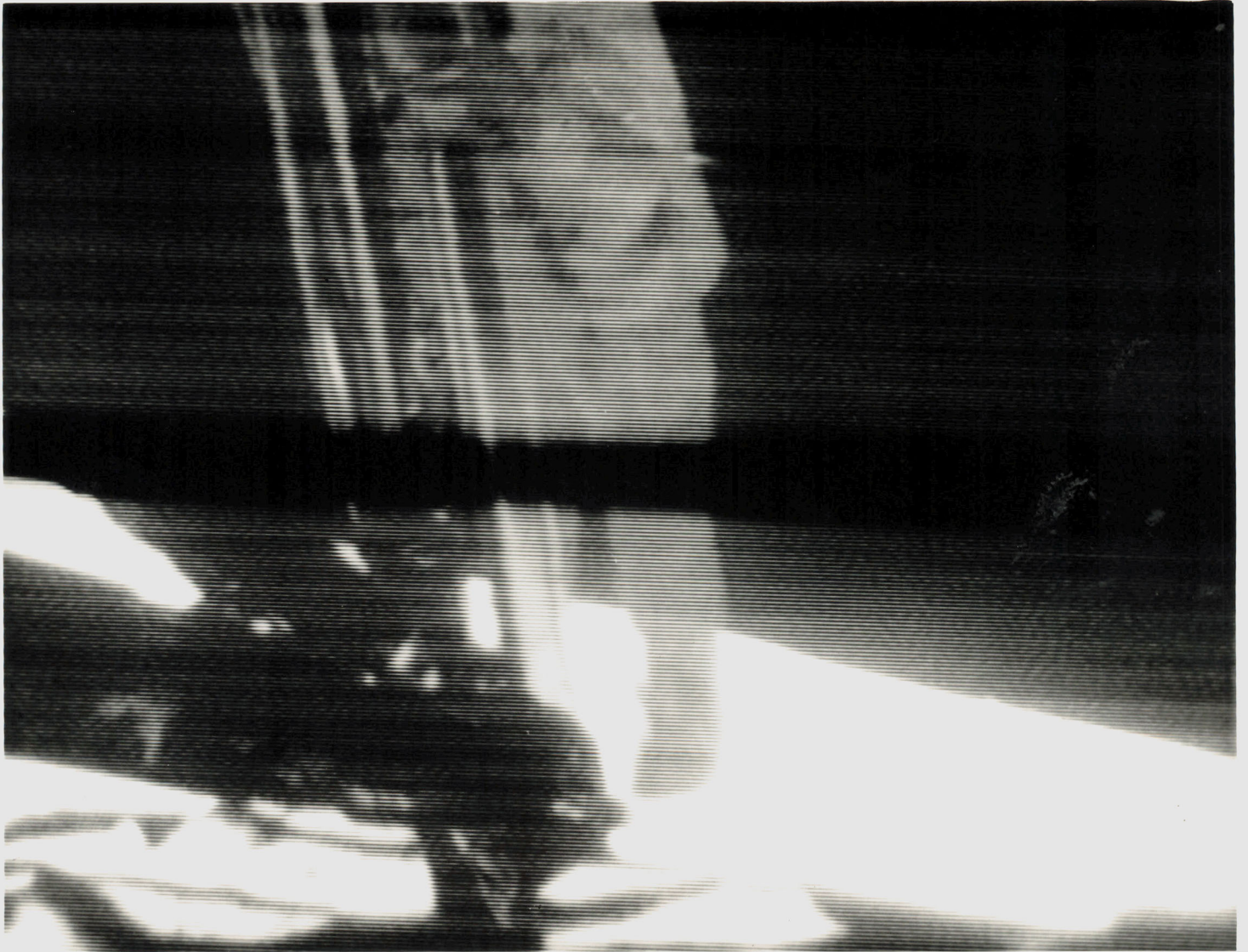
HEALTH CARE -- Dr. Charles A. Berry, Director of Medical Research and Operations, examines x-rays of the Apollo 11 astronauts at the Kennedy Space Center, Fla.

Behind the miracle

AUG 12 1969

HEALTH CARE — Dr. Charles A. Berry, Director of Medical Research and Operations, examines x-rays of the Apollo 11 astronauts at the Kennedy Space Center, Fla.

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HOUSTON, TEXAS 77058

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E R W

20 JULY 1969

SEP-42583

LANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 TV VIEW ON MOON --- Astronaut Neil A. Armstrong, Apollo 11 commander, descends the ladder of the Apollo 11 Lunar Module prior to making the first step by man on another celestial body. This view is a black and white reproduction taken from a telecast by the Apollo 11 lunar surface camera during extravehicular activity. The black bar running through the center of the picture is an anomaly in the television ground data system at the Goldstone Tracking Station.

pg.7-2

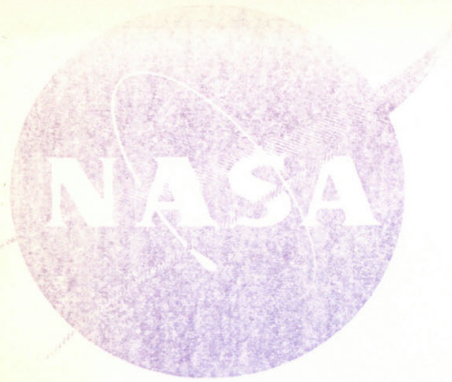
NASA - Apollo 11

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NASA- Apollo 11





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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NASA APOLLO 11 EXHIBIT VAN AT CARSON CITY, NEVADA -- The mobile exhibit van is scheduled for a tour of the nation's 50 state capitals during 1970 and early 1971. The van will carry the Apollo 11 capsule, the spacecraft that carried the first men from Earth to set foot on the Moon. One of the principal features of the exhibit will be a Moon rock collected on the lunar surface by Astronauts Neil A. Armstrong and Edwin E. Aldrin. The big touring display unit measures 40 feet long and 14 feet wide. During its stay in each state capital, the van opens out to accommodate a walk-through ramp in each side, permitting thousands of visitors to see its exhibits daily. The Heavy Specialized Carriers Conference, affiliated with the American Trucking Associations, Inc., will provide the specialized transportation required by the Apollo 11 tour. Member companies of the conference will conduct the trip without charge as a public service.

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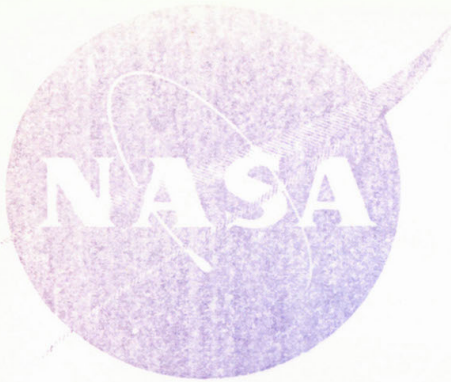
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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS--APOLLO 11 LUNAR SAMPLE--
Close-up surface view of Apollo 11 lunar sample No. 10,047, which was returned in the bulk sample box by Astronauts Neil A. Armstrong, Michael Collins and Edwin E. Aldrin Jr., the crewmen for the Apollo 11 mission. The sample has been brushed slightly to remove some of the surface dust. The holocrystalline granular texture and the large grain size (relative to many of the other samples) are clearly visible. Armstrong and Aldrin collected the many Apollo 11 rocks while Collins remained with the Command and Service Modules in lunar orbit.

PHOTO CREDIT -- NASA or National Aeronautics and Space Administration





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: Filed: May 28, 1970
PHOTO NO. 70-H-828

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NASA APOLLO 11 EXHIBIT VAN AT CARSON CITY, NEVADA--The mobile exhibit van is scheduled for a tour of the nation's 50 state capitals during 1970 and early 1971. The van will carry the Apollo 11 capsule, the spacecraft that carried the first men from Earth to set foot on the Moon. One of the principal features of the exhibit will be a Moon rock collected on the lunar surface by Astronauts Neil A. Armstrong and Edwin E. Aldrin. The big touring display unit measures 40 feet long and 14 feet wide. During its stay in each state capital, the van opens out to accommodate a walk-through ramp in each side, permitting thousands of visitors to see its exhibits daily. The Heavy Specialized Carriers Conference, affiliated with the American Trucking Association, Inc., will provide the specialized transportation required by the Apollo 11 tour. Member companies of the conference will conduct the trip without charge as a public service.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration





NASA

WASHINGTON, D.C. 20541

FOR RELEASE: April 7, 1969
PHOTO NO. 69-H-581

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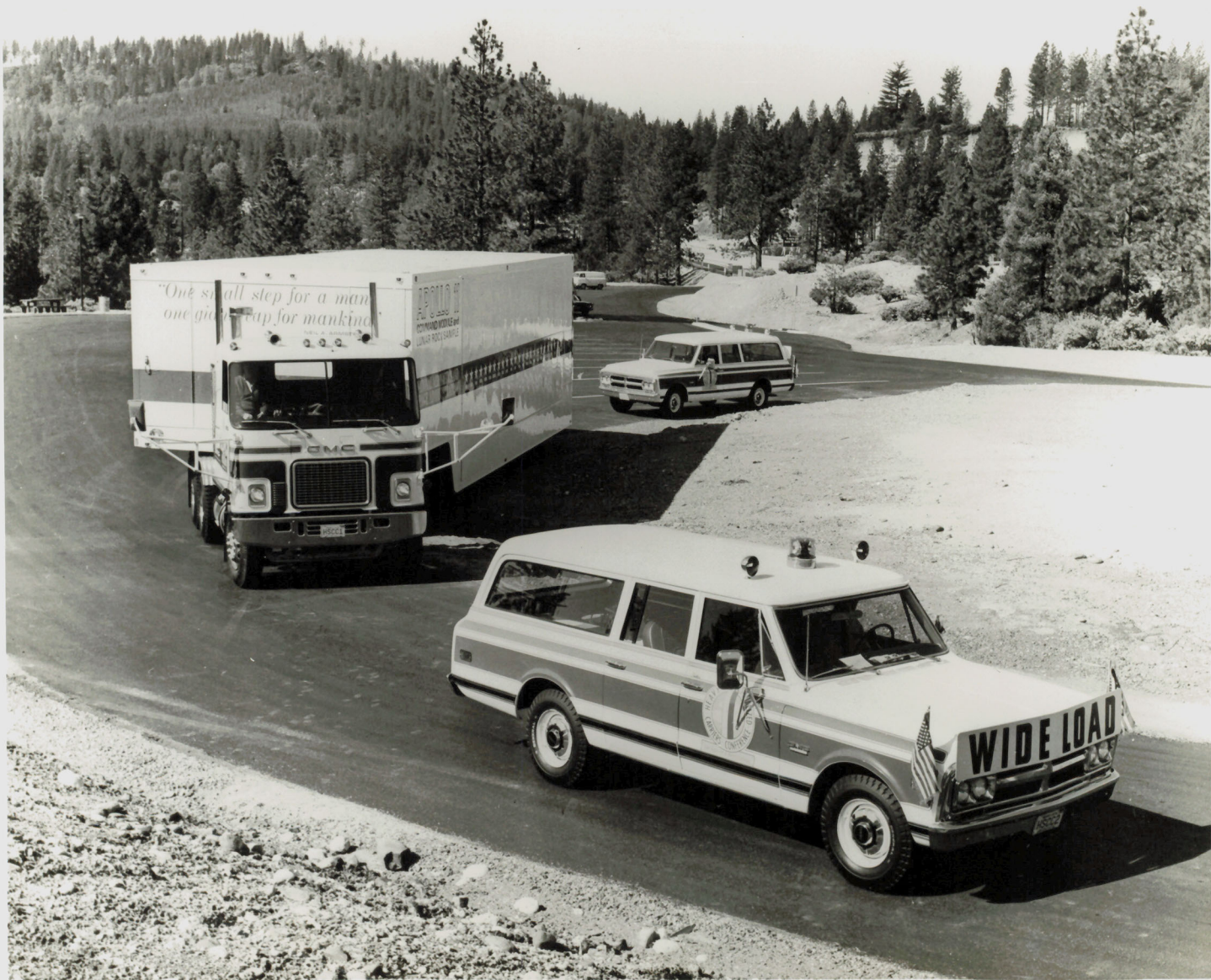
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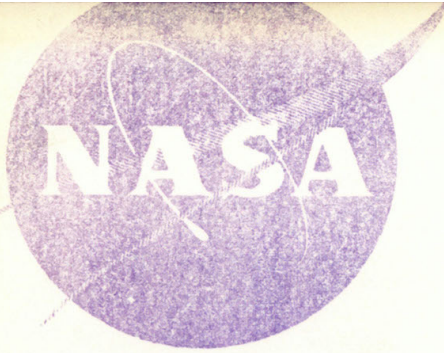
ABOARD U.S.S. GUADALCANAL -- Dr. William Carpenter, Flight Surgeon, with the three technicians acting as astronaut subjects prepare to enter the trailer for a four day simulated test.

The National Aeronautics and Space Administration Mobile Quarantine Facility (MQF) is a completely isolated living quarters for Apollo teams returning from the Moon, for the period between their arrival aboard the recovery ship and their delivery to the Lunar Receiving Laboratory at the Manned Spacecraft Center, in Houston, Texas.

Apollo 11 practice session

PHOTO CREDIT -- NASA or National Aeronautics and Space Administration





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: Filed: May 14, 1970
PHOTO NO. 70-H-586

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ON THE ROAD--Touring the 50 state capitals this year and in 1971 is this 40 x 14 foot van carrying a Moon rock sample and the Apollo 11 command module which brought it back to Earth after the first United States lunar landing in July of 1969. The Heavy Specialized Carriers Conference, an American Trucking Association, Inc. affiliate provided the big rig without cost to the Government. The tour opened in Sacramento in April and the exhibit is working its way eastward on the visit to the length and breadth of the U. S.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: February 13, 1970
PHOTO NO. 70-11-232

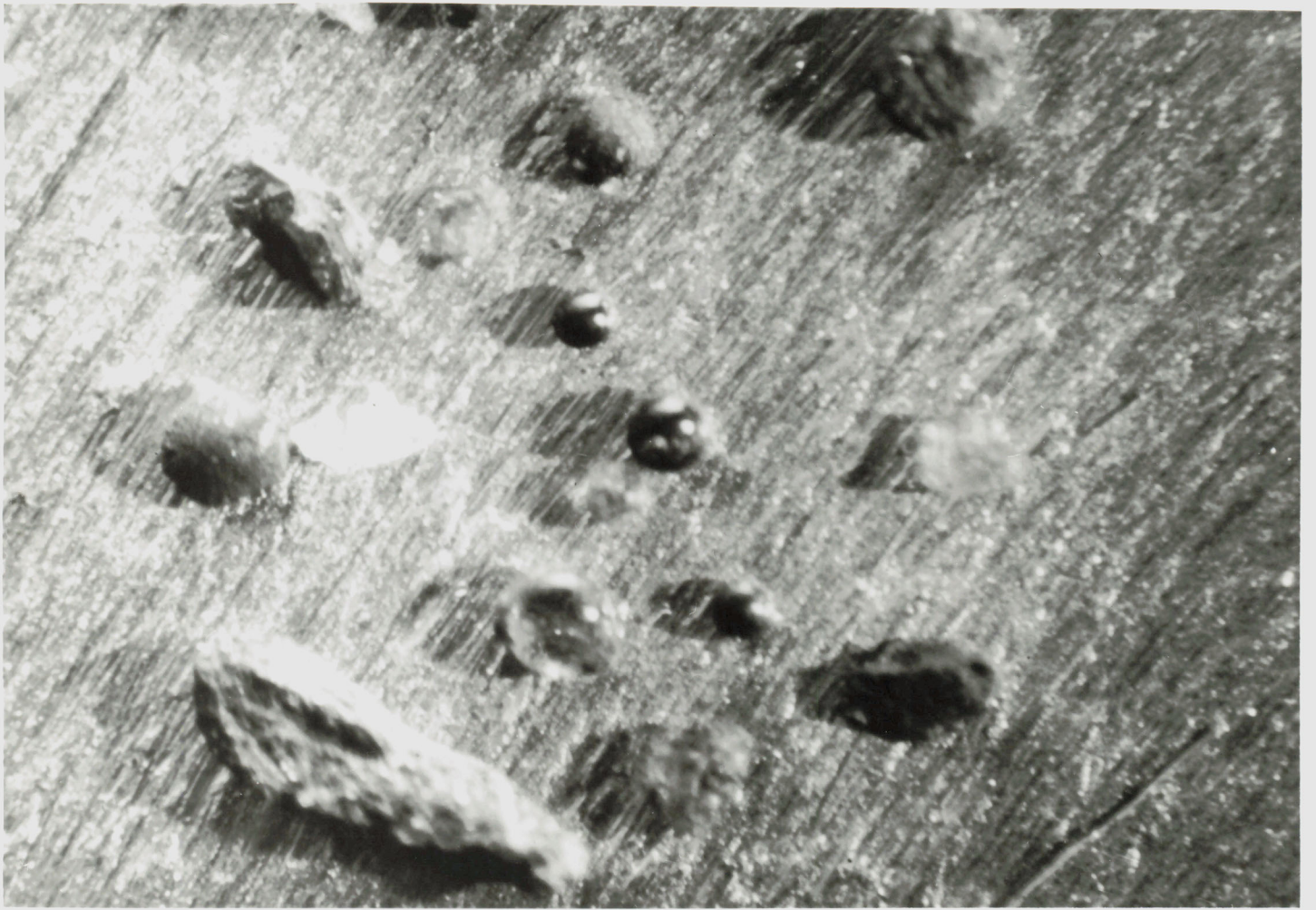
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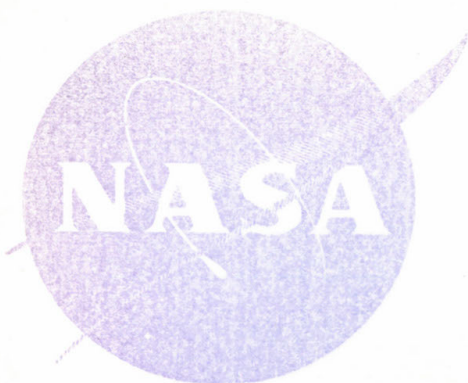
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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS -- APOLLO 11 LUNAR SAMPLE
Close-up surface view of Apollo 11 lunar sample No. 10,047, which was returned in the bulk sample box by Astronauts Neil A. Armstrong, Michael Collins and Edwin E. Aldrin Jr., the crewmen for the Apollo 11 mission. The sample has been brushed slightly to remove some of the surface dust. The holocrystalline granular texture and the large grain size (relative to man, of the other samples) are clearly visible. Armstrong and Aldrin collected the man, Apollo 11 rocks while Collins remained with the Command and Service Modules in lunar orbit.

PHOTO CREDIT -- NASA or National Aeronautics and Space Administration

Moon Rocks





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: September 1969
PHOTO NO. 69-H-1484
69-HC-953

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS -- APOLLO 11
SAMPLE -- Glass spherules of various colors and crystals
from the contingency sample resting in an aluminum dish
in the Lunar Receiving Laboratory at the Manned Space-
craft Center. The largest spherule is 0.4 millimeters
in diameter. The sample was among those collected by
Astronauts Neil A. Armstrong and Edwin E. Aldrin Jr.
during the Apollo 11 lunar landing mission.

PHOTO CREDIT -- NASA or National Aeronautics and Space Administration

NASA
S-69-17211





**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058**

FOR RELEASE:

PHOTO NO.

S-69-17211

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B & W

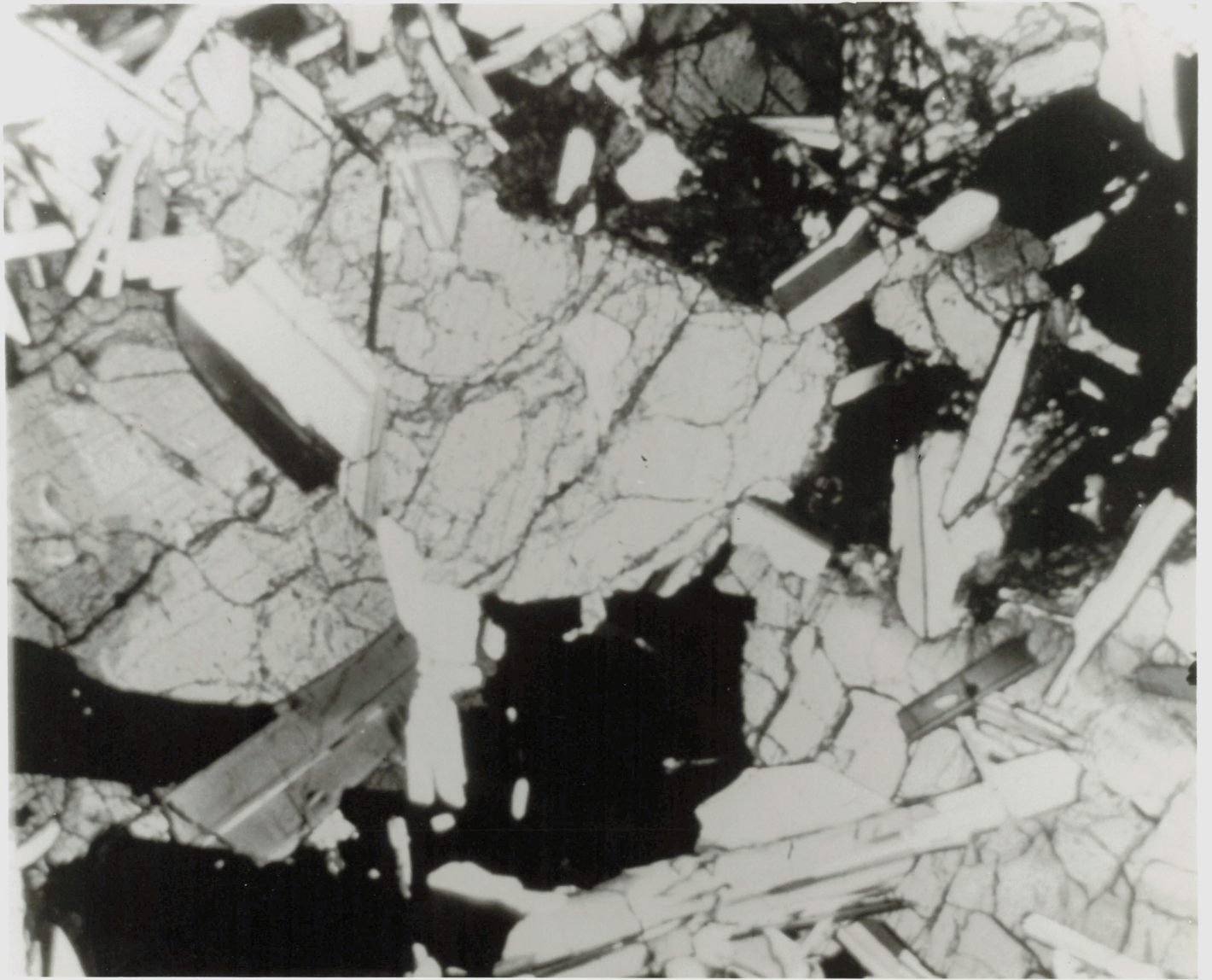
21 JAN 1969

S-69-17211

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

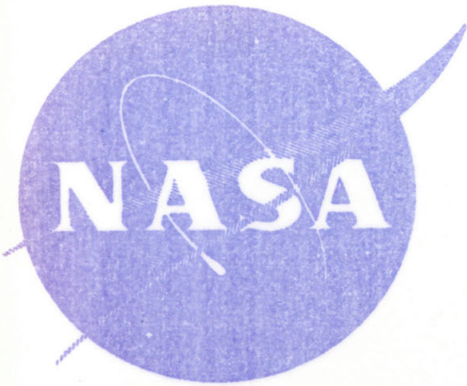
EASEP DEPLOYMENT-----Astronaut Don L. Lind goes through a simulation of deploying the Early Apollo Science Experiment Package (EASEP) in Building 9 on January 21, 1969. Watching closely at far right foreground is Astronaut Edwin E. Aldrin Jr., Apollo 11 prime crew lunar module pilot.

- 9 JUL 1969



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: Filed January 16, 1970
PHOTO NO. 70-H-36



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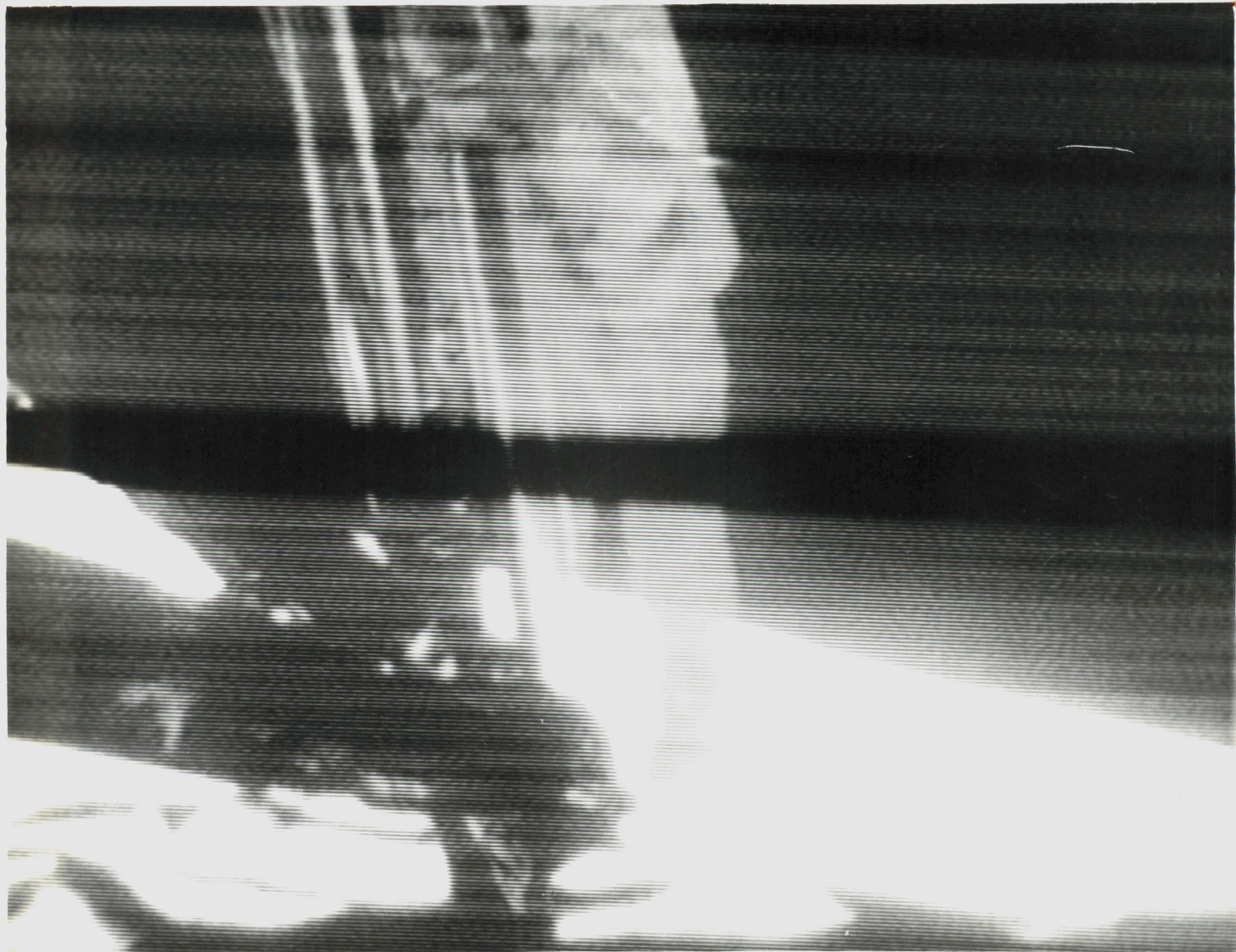
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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS -- APOLLO 11
SAMPLE -- Color photograph of Lunar Rock 10058, in
crossed Nicols showing zoned pyroxene, plagioclase
ilmenite as presented by Dr. S. O. Agrell, Cambridge,
England, one of the more than 140 principal investiga-
tors who made reports at the Apollo 11 Lunar Science
Conference at Houston, January 5-8, 1970.

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53

L-24



JUL 19 1994



National Aeronautics and Space Administration
Houston, Texas 77058

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BLACK & WHITE

20 JULY 1969

S69-42583

JOHNSON SPACE CENTER, HOUSTON, TEXAS

APOLLO 11 TV VIEW ON MOON --- Astronaut Neil A. Armstrong, Apollo 11 commander, descends the ladder of the Apollo 11 Lunar Module prior to making the first step by man on another celestial body. This view is a black and white reproduction taken from a telecast by the Apollo 11 lunar surface camera during extravehicular activity. The black bar running through the center of the picture is an anomaly in the television ground data system at the Goldstone Tracking Station.

PHOTOGRAPH

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

Moon Walk





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: JUL 5 1969
PHOTO NO. 69 H 958
69 HC 498

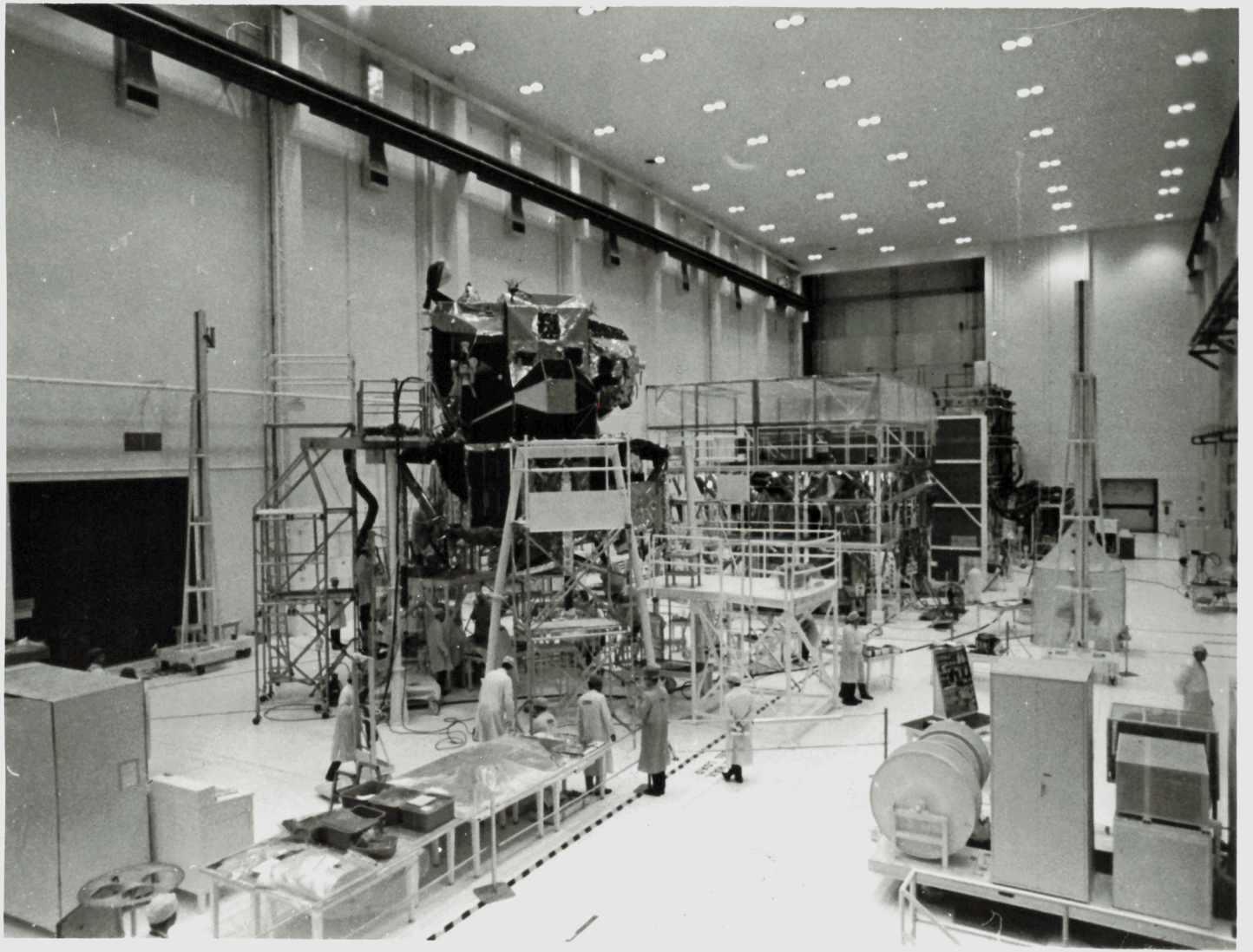
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WASHINGTON -- This is the insignia which the Apollo 11 astronauts will wear when they lift off of Pad 39A at Kennedy Space Center, Fla., and embark on the first lunar landing mission. Launch is scheduled for July 16 and Astronaut Neil Armstrong is to set foot on the lunar surface early on the morning of July 21.

A 76502 - Apollo 11

REFERENCE
JUL 14 '69
N. E. ▲





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: April 11, 1969
PHOTO NO. 69-H-614
69-HC-357

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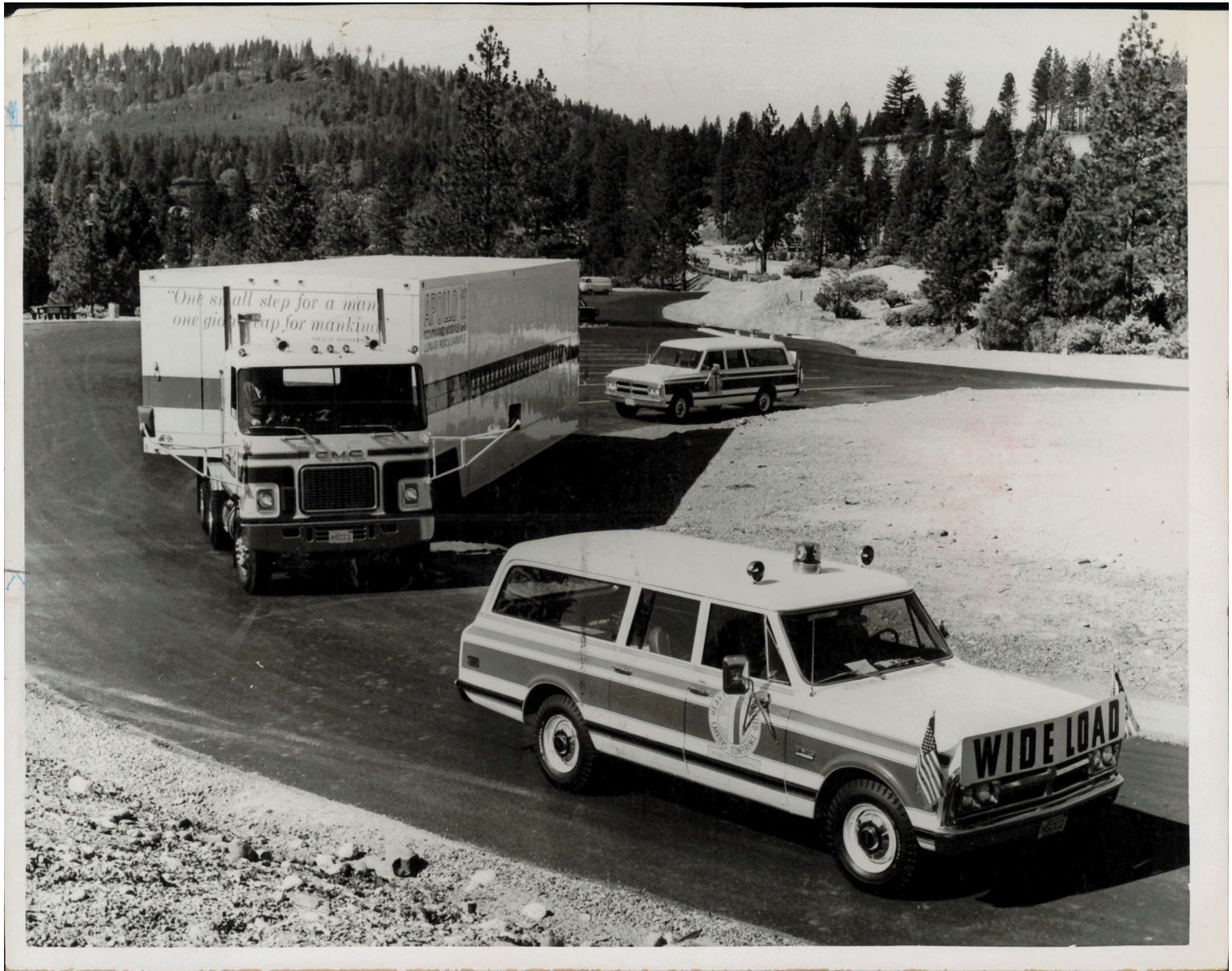
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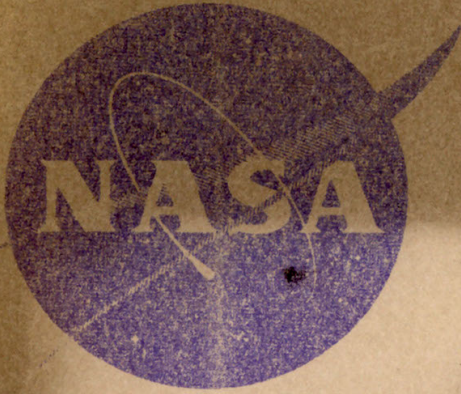
KENNEDY SPACE CENTER, FLORIDA., --Final systems checkout for the National Aeronautics and Space Administration's Lunar Module (LM-6) are conducted in the Open Bay Area of the Manned Spacecraft Operations Building (MSOB). The LM-6 will be flown on the first lunar landing mission, Apollo 11. The Flight Crew is Neil A. Armstrong, commander, Michael Collins, command module pilot, and Edwin E. Aldrin, Jr., Lunar Module Pilot.

A76502 - apollo 11



PHOTO CREDIT -- NASA or National Aeronautics and Space Administration





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WASHINGTON, D. C. 20546

FOR RELEASE: Filled May 14, 1970
PHOTO NO. 70-H-586

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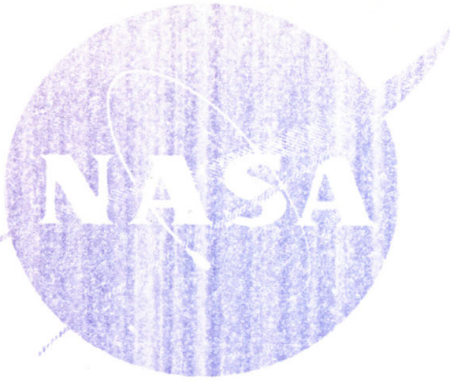
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ON THE ROAD -- Touring the 50 state capitals this year and in 1971 is this 40 x 14 foot van cart, in, a Moon rock sample and the Apollo 11 command module which brought it back to Earth after the first United States lunar landing in July of 1969. The Heavy Specialized Carriers Conference, an American Trucking Association, Inc. affiliate, provided the big rig, without cost to the government. The tour opened in Sacramento in April and the exhibit is working its way eastward on the visit to the length and breadth of the U. S.

X
T.U. _____
Head 3X4
Page 43
Slug Moon Capule



A 76502 - Gollo 11



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: July 11, 1969
PHOTO NO. 69-H-1091
69-HC-720
108-KSC-69PC-436

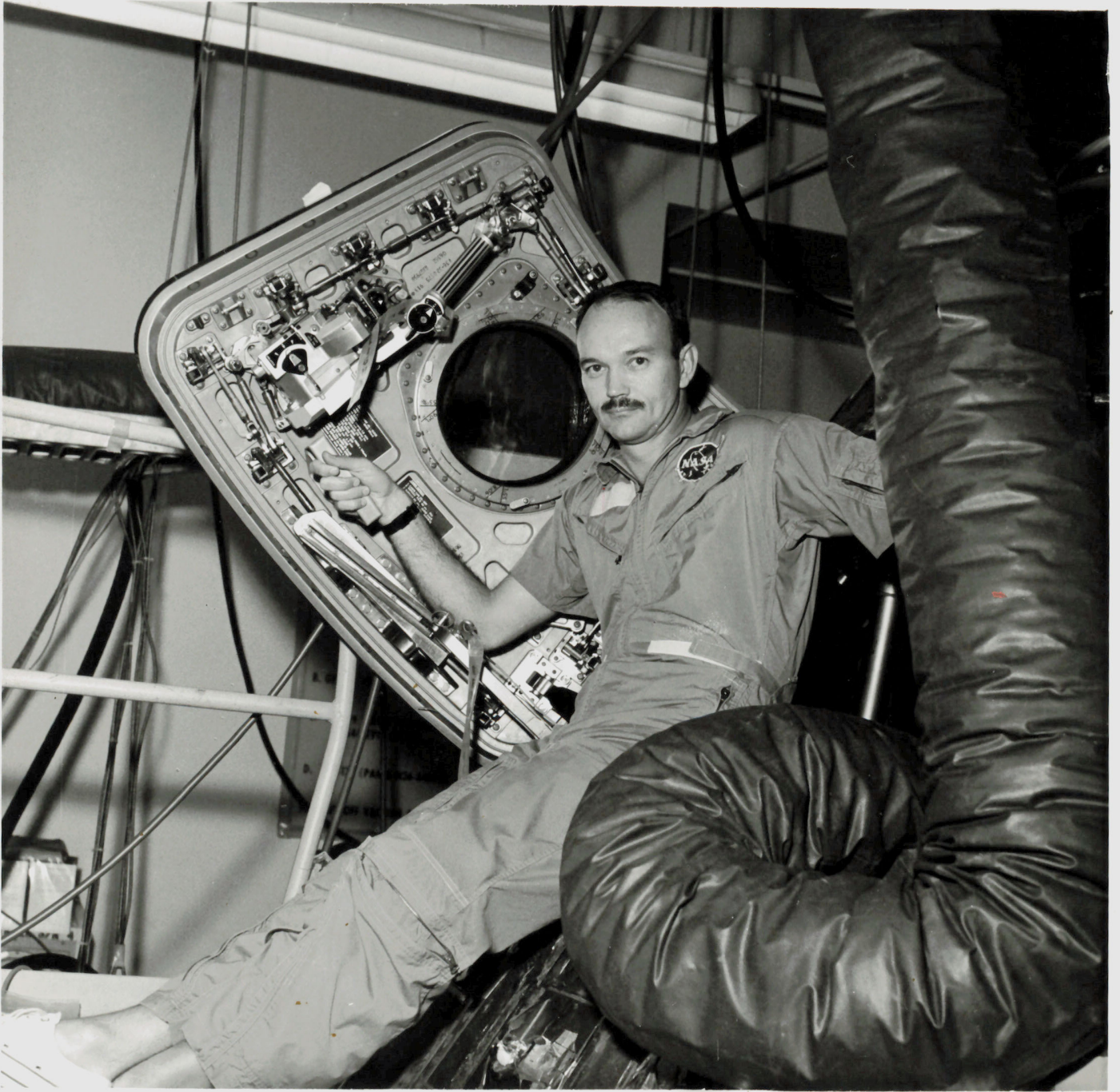
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KENNEDY SPACE CENTER, FLA., -- This plaque, signed by President Richard M. Nixon and Apollo 11 astronauts Neil A. Armstrong, Michael Collins and Edwin E. Aldrin, Jr., is attached to descent stage of the lunar module and will remain on the Moon's surface.

FCUB

REFERENCE
SEP 10 '69
N. E. A.

NASA
S-00-16605



Michael Collins

RETURN TO
2-6-69
CHRONICLE FILES



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

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COLOR

5 AUG 1969

S-69-45495

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 -- Astronaut Michael Collins, command module pilot for the National Aeronautics and Space Administration's Apollo 11 lunar mission, sits in the open hatch of the spacecraft. The Apollo 11 command module was returned to the Manned Spacecraft Center's Lunar Receiving Laboratory for detailed examination following its recovery in the Pacific Ocean.



Michael Collins

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8-6-69
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HOUSTON, TEXAS 77058

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COLOR

5 AUG 1969

S-69-45493

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 -- Astronaut Michael Collins, command module pilot for the National Aeronautics and Space Administration's Apollo 11 mission inspects heat shield damage to his spacecraft. The command module that carried Astronauts Collins, Neil A. Armstrong, commander, and Edwin E. Aldrin Jr., lunar module pilot, on their historic flight to the moon, was return to the Manned Spacecraft Center's Lunar Receiving Laboratory for detailed study.



NASA
S-69-34964

John

Michael Collins

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69



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

FOR RELEASE

PHOTO NO.

8-69-34964

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COLOR

22 MAY 1969

8-69-34964

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 WATER EGRESS TRAINING—Astronaut Michael Collins, prime crew command module pilot of the Apollo 11 lunar landing mission, relaxes aboard the NASA Motor Vessel Retriever prior to participating in water egress training in the Gulf of Mexico.



NASA
S-09-34964

Michael Collins

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7-16-69
CHRONICLE FILES



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

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S-69-34964

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COLOR

24 MAY 1969

S-69-34964

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 WATER EGRESS TRAINING—Astronaut Michael Collins, prime crew command module pilot of the Apollo 11 lunar landing mission, relaxes aboard the NASA Motor Vessel Retriever prior to participating in water egress training in the Gulf of Mexico.



COLLINS, MICHAEL

(ASTRONAUT)



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: Immediate
PHOTO NO. 63-Astro. Train.-175

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Astronaut Michael Collins, 32, was born in Italy. He is five-feet, 10-1/2-inches tall, weight 163 pounds and has brown hair and brown eyes. He is the son of Mrs. James L. Collins, 2126 Connecticut Avenue, N.W., Washington, D.C. He is married to the former Patricia Mary Finnegan of Boston, Massachusetts. The Collins have three children: Kathleen, 4; Ann Stewart, 2; and Michael Lawton, born this year. He is a U.S. Air Force Captain and was an Experimental Flight Test Officer at Edwards AFB, Calif. He is Command Module Pilot for the Apollo 11 flight.

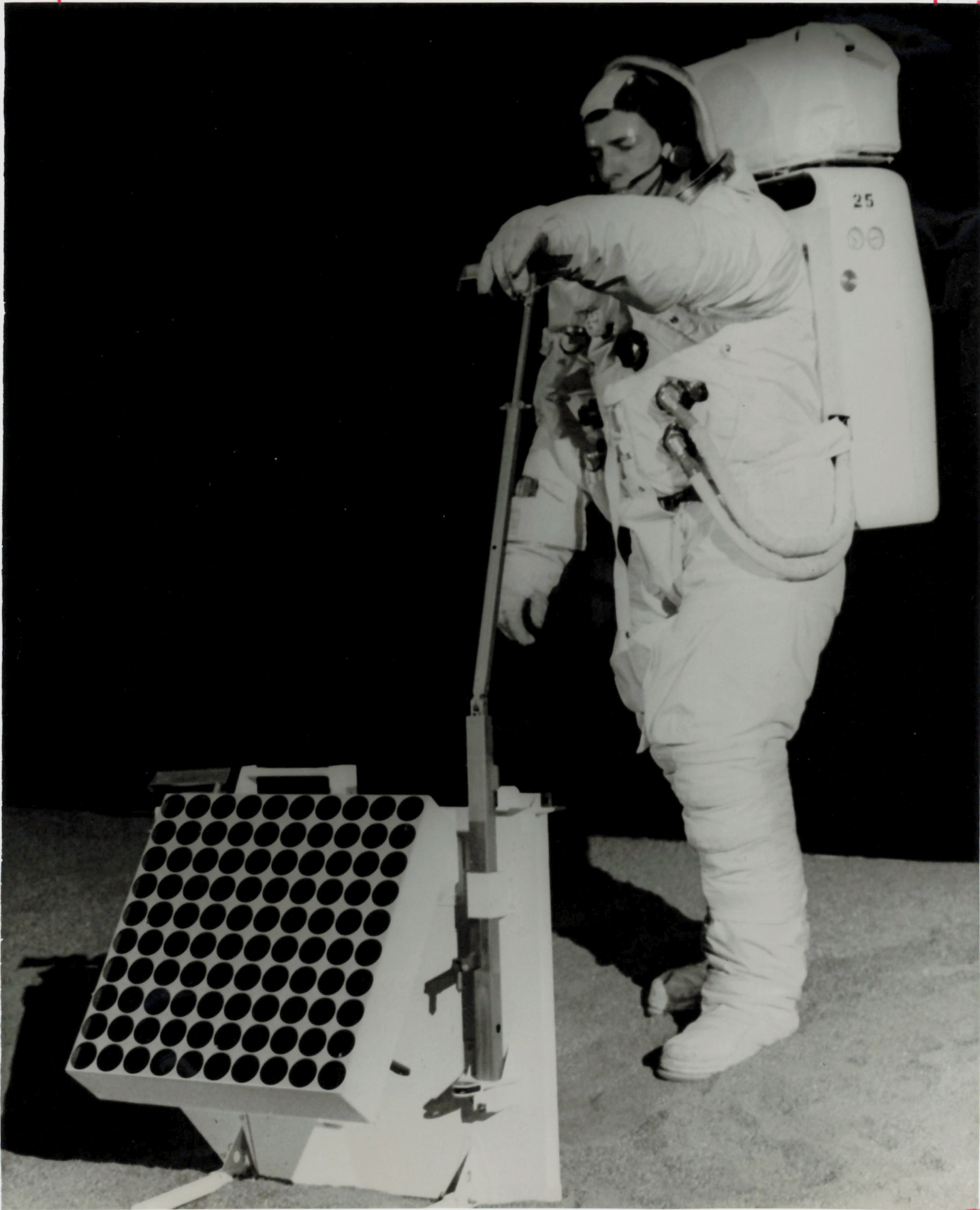
JAN 13 1969

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Apollo 11

MON JUN 9 1969

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

FOR RELEASE: Immediate

PHOTO NO: 69-H-90

MOON-EARTH YARDSTICK-- The Laser Ranging Retro-Reflector is an array of precision optical reflectors that will serve as a target for Earth-based laser systems. The reflector will allow precise measurement of the Earth-Moon distance, wobble of the Earth's rotation, measurements of gravity influences, and measurements of mass distribution in the Moon. It will also provide an opportunity to study whether continents drift on the surface of the Earth. Developed for the National Aeronautics and Space Administration, it will be carried aboard Apollo 11, the United States' first manned lunar landing.

*2 col
Sun w/str
LASER Reflecting Device*

SUN JUN 8 1969 *pic*
NASA Photo
LASER REFLECTING DEVICE FOR THE MOON
Apollo 11 Astronaut Will Set Up Unit on Surface
Apollo lunar landing flights will The seismic data will be re-



NASA
S-69-45483

Project Apollo 11

WED AUG 6 1969

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8-9-69
CHRONICLE FILES



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

FOR RELEASE
PHOTO NO.

S-69-45483

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COLOR

5 AUG 1969

S-69-45483

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 CREW IN LRL----The members of the Apollo 11 lunar landing mission examine a roll of 70mm transparencies taken by themselves during their historic mission. Left to right, are Astronauts Neil A. Armstrong, commander; Michael Collins, command module pilot; and Edwin E. Aldrin Jr., lunar module pilot. They are quarantined in the Crew Reception Area of the Manned Spacecraft Center's Lunar Receiving Laboratory, Building 37.

3 col

w/stry

Apollo 11

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NASA Photo

WED AUG 6 1969

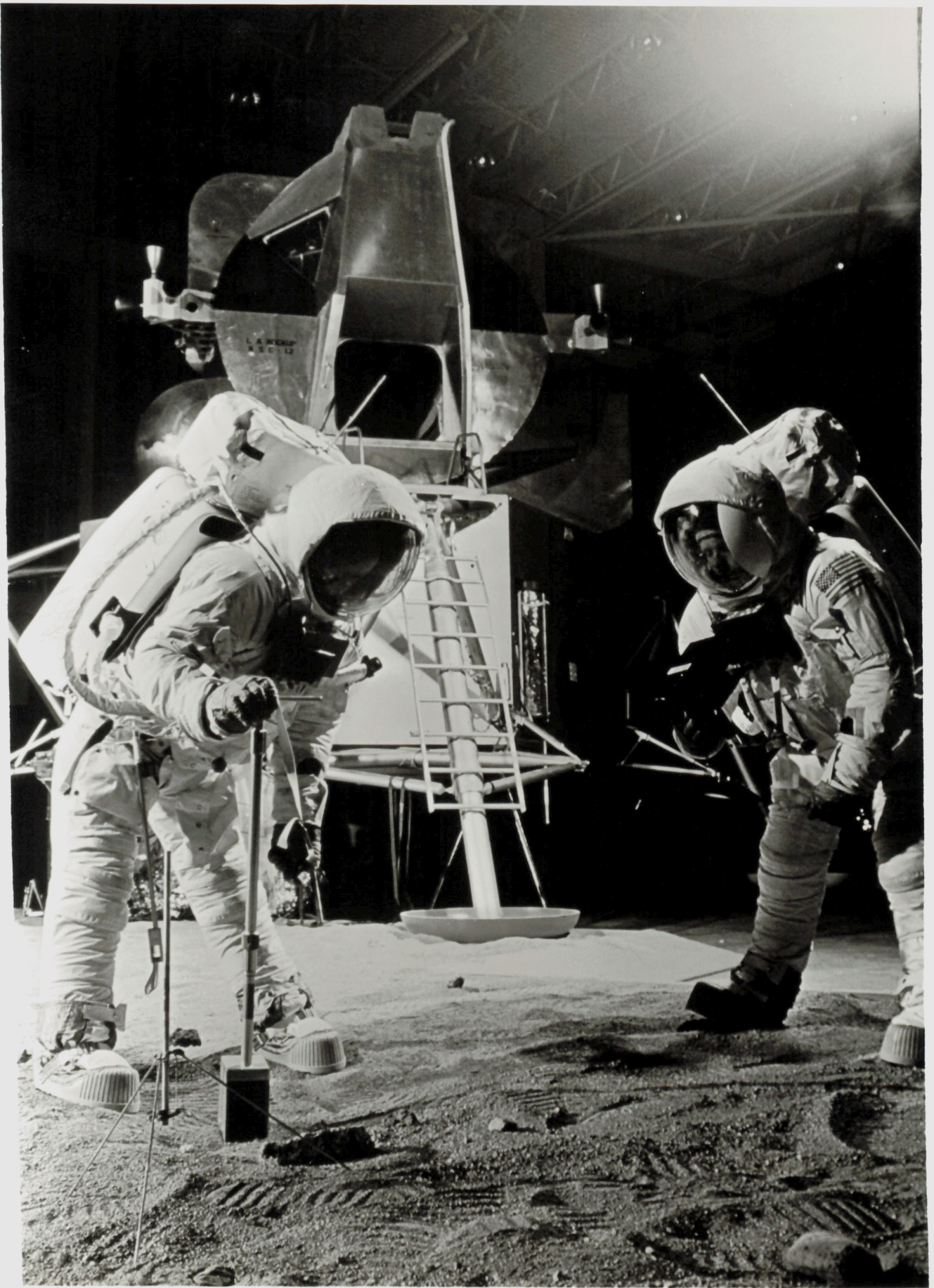
APOLLO 11 ASTRONAUTS FILM TAKEN OF THEMSELVES DURING MISSION
From Left, Neil Armstrong, Michael Collins and Edwin Aldrin, in Quarantine

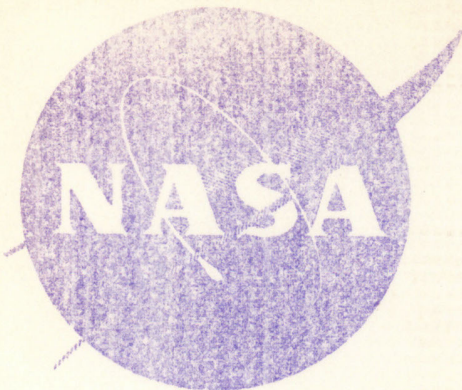


The Apollo 11 spacecraft vies for attention with the Spirit of St. Louis, background, at the National Air and Space Museum in Washington. "It is difficult to say," observes Apollo 11 pilot Michael Collins, "But when people see the Spirit of St. Louis they see Lindbergh flying that plane. Apollo 11 looks like a lamp on the floor."

5777

Smithsonian Institution





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: IMMEDIATE
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69-HC-456

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EARLY ORDER OF BUSINESS -- One of the first chores the Apollo 11 astronauts will perform on the Moon is the collection of lunar surface samples. Lunar Module Pilot Edwin E. Aldrin (left) uses a scoop while Spacecraft Commander Neil Armstrong takes pictures. Picture was taken during practice sessions at Manned Spacecraft Center, Houston.

7/69
Moon Trip to

PHOTO CREDIT-- NASA or National Aeronautics and Space Administration





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

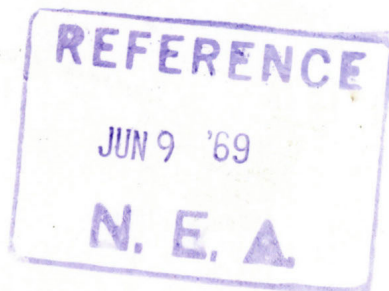
FOR RELEASE: April 22, 1969
PHOTO NO. 69-H-702
69-HC-449

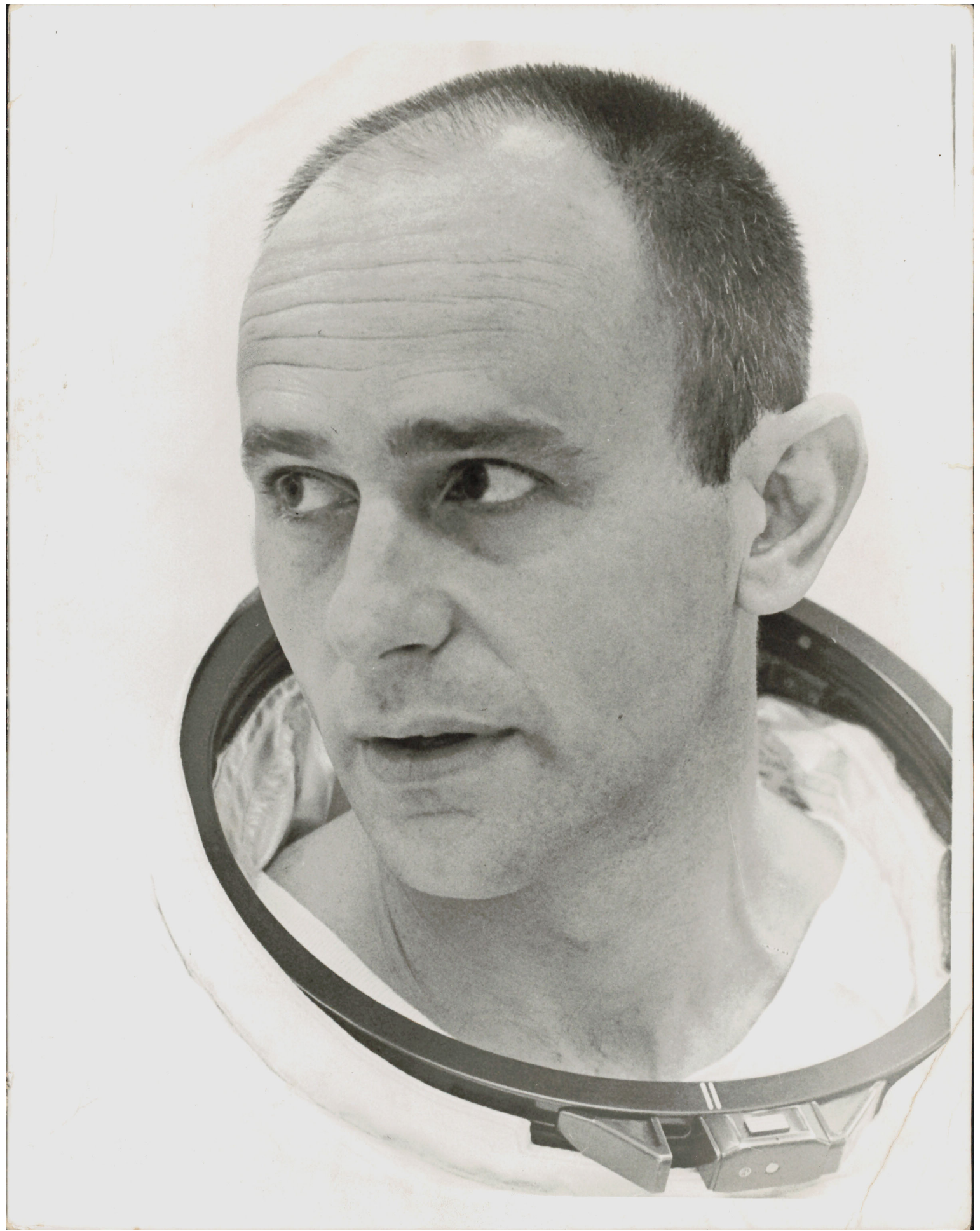
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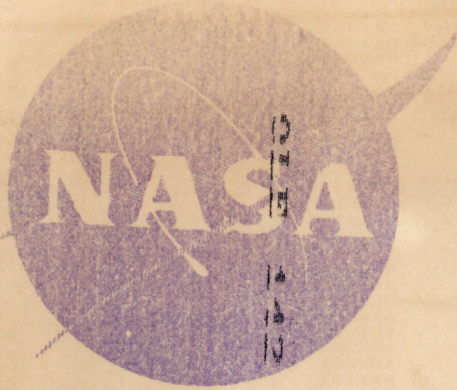
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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS.--APOLLO II Astronaut Neil Armstrong, Spacecraft Commander demonstrates how the first manned lunar landing will be made during a lunar practice session. The right foot is in the Lunar Module foot pad. Apollo II, scheduled for launch July 16, is the first U.S. space mission designed to land two astronauts on the Moon and return them safely to Earth.

A76502 - Apollo 11







NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: November 14, 1969
PHOTO NO. 69-H-1831

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KENNEDY SPACE CENTER, Fla. -- Apollo 12 Lunar Module Pilot Alan B. Bean appears to be concentrating in suiting up activities prior to his launch today with astronauts Charles Conrad, Jr., and Richard F. Gordon. Astronauts Conrad and Bean will explore the lunar surface while Gordon pilots the command module in lunar orbit.

DAILY NEWS

MAY 8 1970

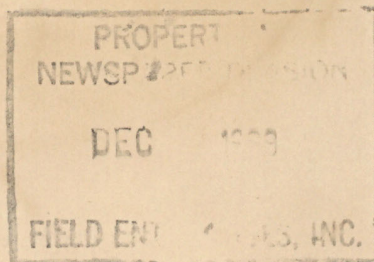
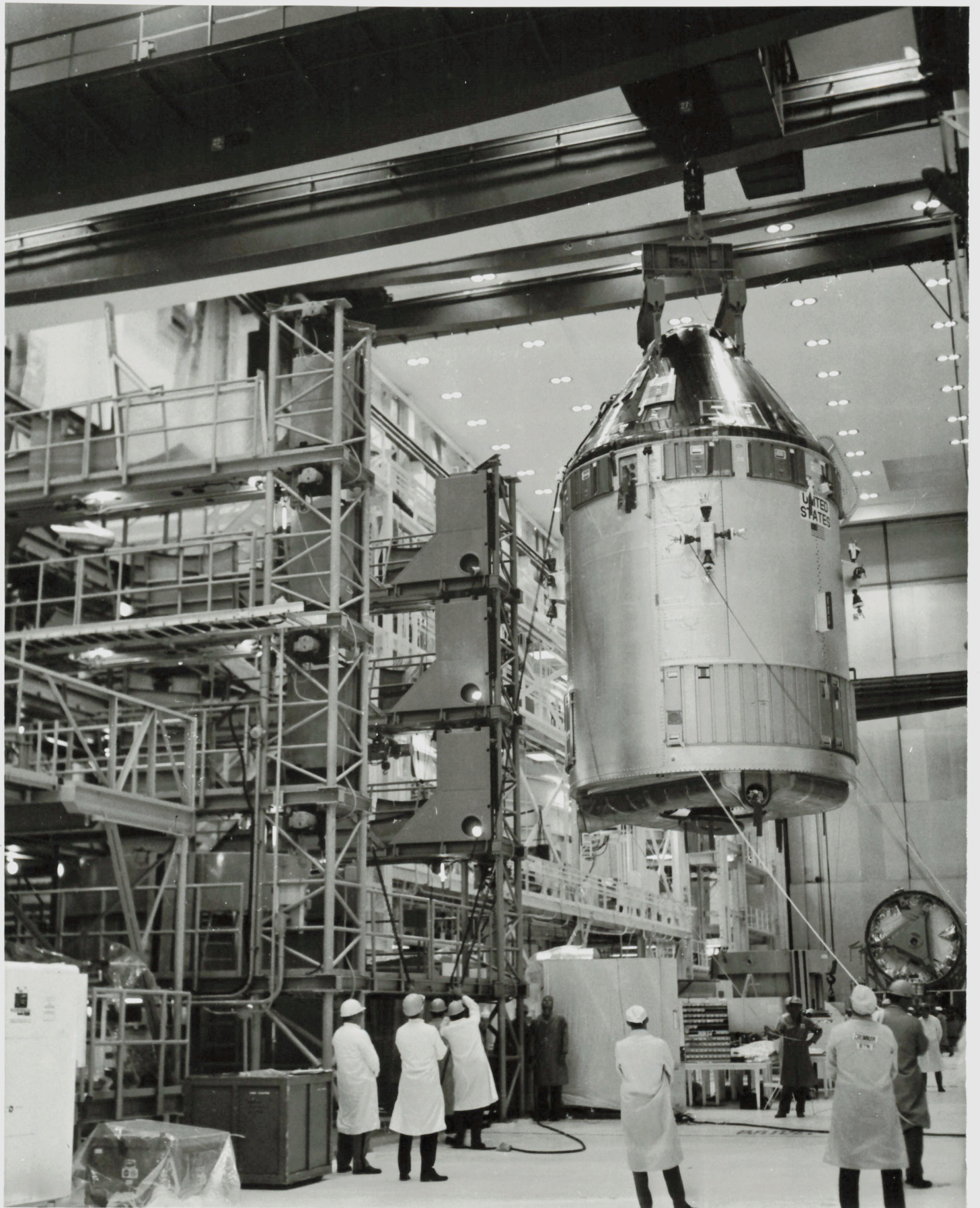


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FOR RELEASE: April 18, 1969
PHOTO NO. 69-H-628
69-HC-371

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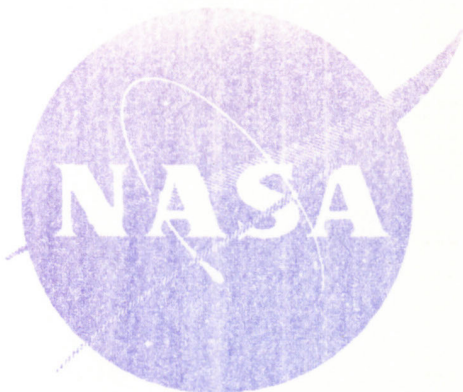
CAPE KENNEDY, FLA., -- National Aeronautics and Space Administration's Apollo II Command/Service Module (CSM-107) shown being readied for moving to the Vehicle Assembly Building for mating to Saturn V (SA-506). Apollo II is scheduled for launch July 16. The prime crew for the lunar landing mission is Commander, Neil Armstrong; Command Module pilot, Michael Collins; Lunar Module Pilot, Edwin Aldrin.

A76502 - Apollo II



PHOTO CREDIT -- NASA or National Aeronautics and Space Administration





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WASHINGTON, D. C. 20546

FOR RELEASE: IMMEDIATE
PHOTO NO. 69-H-1167
108-KSC-69P-648

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MEDICAL SURVEILLANCE -- Judy A. Sullivan of Spacecraft Operations at Kennedy Space Center, Fla., monitors instrumentation which records bio-medical data, such as heartbeat and respiration rate, on the three Apollo 11 astronauts.

Behind the miracle

MEDICAL SURVEILLANCE — Judy A. Sullivan of Spacecraft Operations at Kennedy Space Center, Fla., monitors instrumentation which records bio-medical data, such as heartbeat and respiration rate, on the three Apollo 11 astronauts.

AUG 12 1969

PHOTO CREDIT -- NASA or National Aeronautics and Space Administration



Collins, Michael

Astronaut

The Huntsville Times
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WASHINGTON, D. C. 20546

FOR RELEASE: July 7, 1969
PHOTO NO. 69-H-1021

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Washington -- Command Module Pilot of the Apollo 11 mission, Michael Collins and his family; wife, Patricia, and children, Kathleen, Ann and Michael.

596

LM 3rd TUES



8



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: July 3, 1969
PHOTO NO. 69-H-1017

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WASHINGTON, D. C. -- Apollo 11 Astronaut Neil Armstrong, after stepping onto the lunar surface, will plant the United States flag in its soil. The flag shown on right folded with the words of the

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423
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NASA

National Aeronautics and
Space Administration

1970
S-69-16882



Lyndon B. Johnson Space Center
Houston, Texas 77058

NASA - APOLLO 11

NASA

National Aeronautics and
Space Administration

Houston, Texas 77058

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DBV

10 JANUARY 1969

SCD-16602

MAKED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 11 CREW → These three astronauts have been selected by NASA as the prime crew of the Apollo 11 lunar landing mission. Left to right, are Edwin E. Armstrong, commander; Neil A. Armstrong, lunar module pilot; and Michael Collins, command module pilot. They are photographed in front of a lunar module mockup beside Building 1 following a press conference in the MSC Auditorium.

pg.17-3

PHOTO CREDIT: NASA or National Aeronautics and Space Administration



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: April 22, 1969
PHOTO NO. 69-H-708
69-HC-455

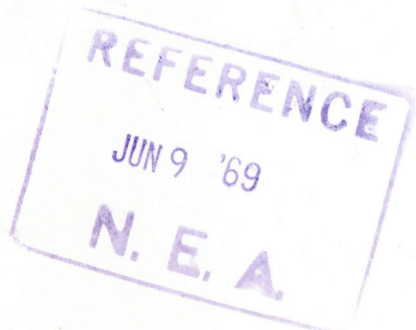
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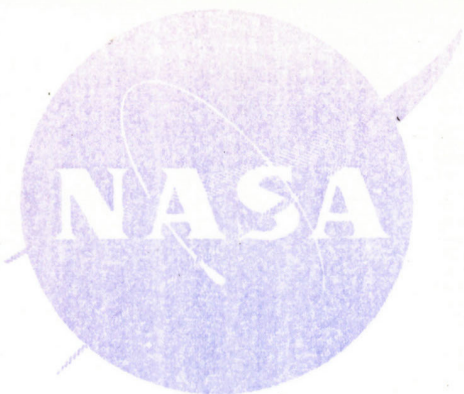
MANNED SPACECRAFT CENTER, HOUSTON, TEXAS., --APOLLO 11 Lunar Module Pilot Edwin E. Aldrin (left) and Spacecraft Commander Neil Armstrong (right) practice lunar surface activities at the Manned Spacecraft Center, Houston. Aldrin is using a scoop to collect samples of the surface while Armstrong takes pictures. The Lunar Module is in the background. The astronauts are in space suits. Breathing oxygen, pressurization and temperature control are provided by backpacks.

Apollo 11, scheduled for launch July 16, is the first U.S. space mission designed to land two astronauts on the Moon and return them safely to Earth.

A 76502 - Apollo 11







A76502 - Apollo 11

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WASHINGTON, D. C. 20546

FOR RELEASE: April 22, 1969
PHOTO NO. 69-H-697

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HOUSTON, TEXAS., --Apollo 11 Lunar Module Pilot Edwin E. Aldrin (front) and Spacecraft Commander Neil Armstrong (rear) practice lunar surface activities at the Manned Spacecraft Center, Houston. Aldrin is using a scoop to collect samples of the surface while Armstrong takes pictures. The Lunar Module is in the background. The astronauts are in space suits. Breathing oxygen, pressurization and temperature control are provided by Backpacks.

Apollo 11, scheduled for launch July 16, is the first U.S. Space mission designed to land two astronauts on the Moon and return them safely to Earth.

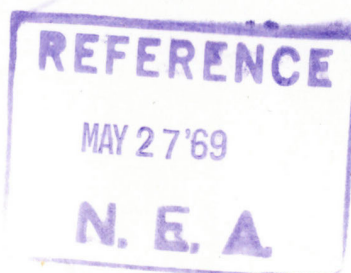
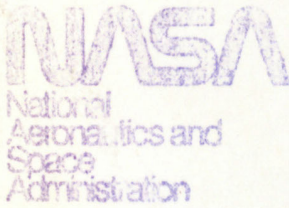


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Headquarters
Washington, D.C.



NASA
National Aeronautics and
Space Administration



Michael Collins

Washington, D.C. 20546

Astronaut

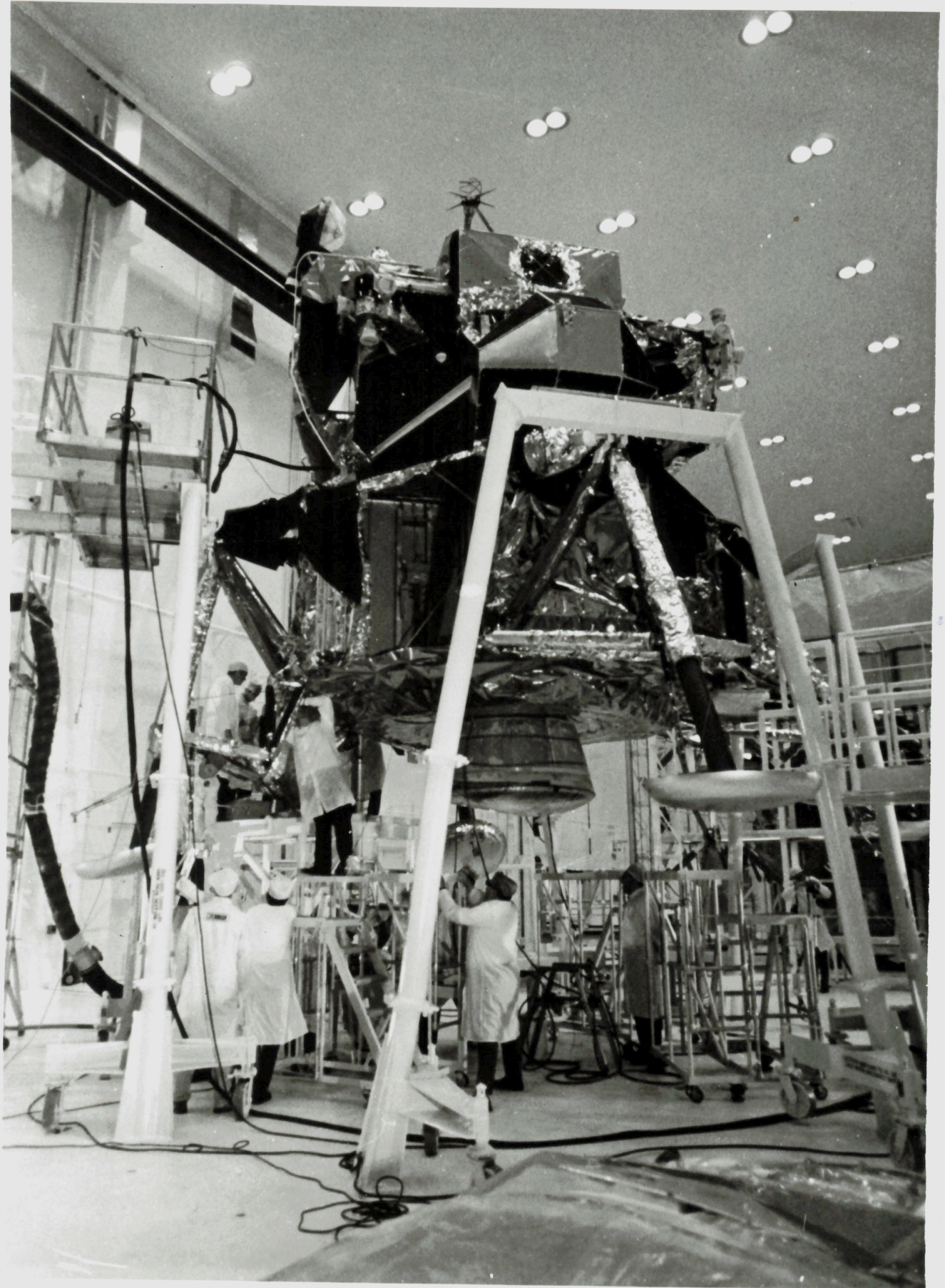
FOR RELEASE: July 16, 1969
PHOTO NO. 69-R-1127
108-KSC-69P-613

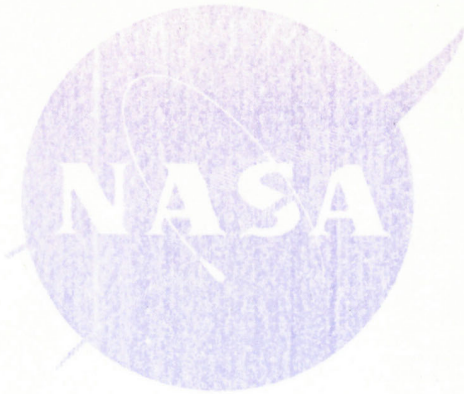
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KENNEDY SPACE CENTER, Fla.--Apollo 11 Command Module Pilot Michael Collins smiles during suiting today, a few hours before he and astronauts Neil A. Armstrong and Edwin E. Aldrin, Jr., were launched on the Nation's first manned lunar landing mission. Liftoff of the Apollo/Saturn V took place at 9:32 a.m. EDT July 16, 1969, from the Kennedy Space Center's Launch Complex 39A.

Zest
2 5/8" x 3 3/8"

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Houston Chronicle Library





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WASHINGTON, D. C. 20546

FOR RELEASE: April 11, 1969
69-H-615
PHOTO NO. 69-HC-358

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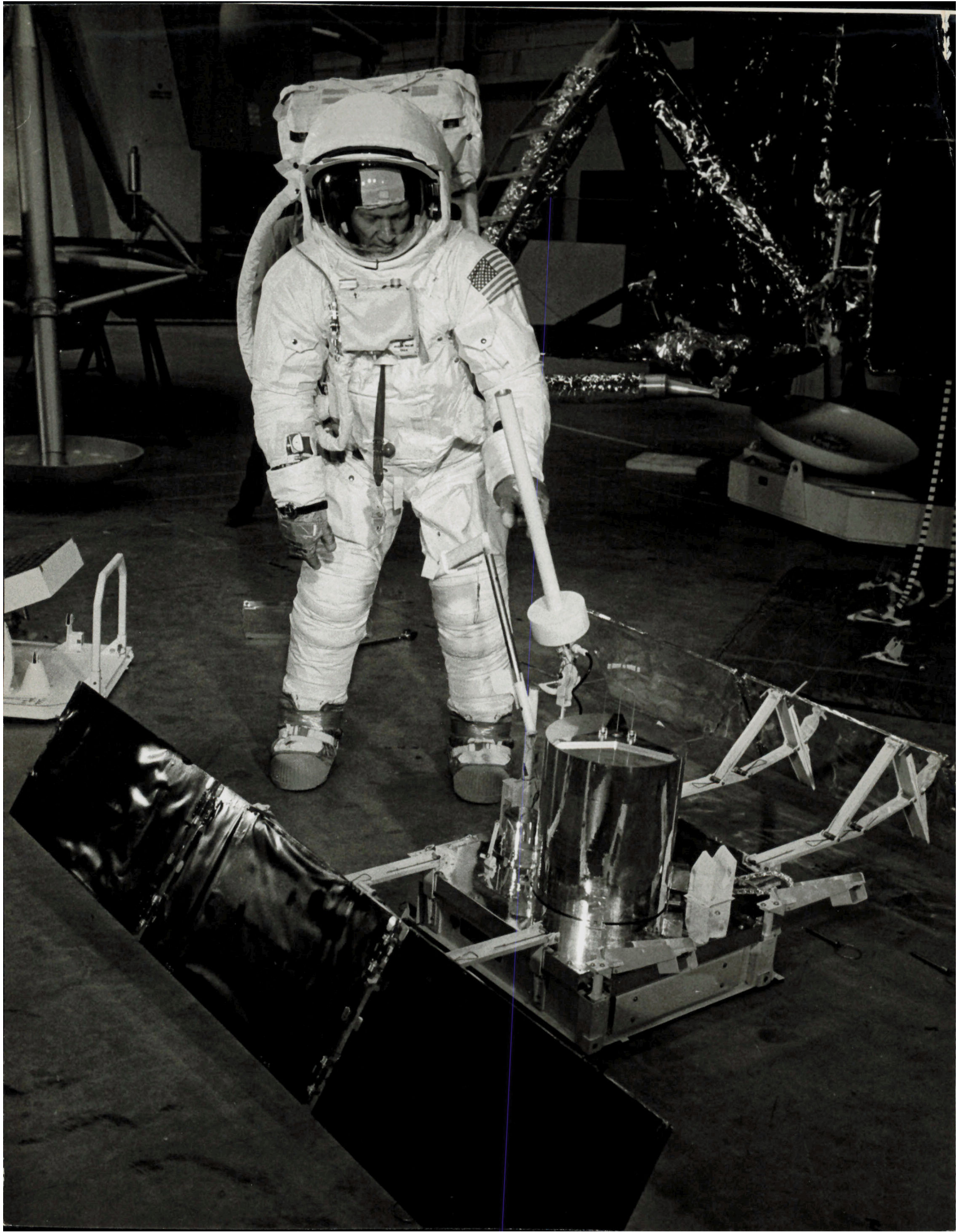
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KENNEDY SPACE CENTER, FLORIDA., ---Final systems checkout for the National Aeronautics and Space Administration's Lunar Module (LM-6) are conducted in the Open Bay Area of the Manned Spacecraft Operations Building (MSOB). The LM-6 will be flown on the first lunar landing mission, Apollo 11. The Flight Crew is Neil A. Armstrong, commander, Michael Collins, command module pilot, and Edwin E. Aldrin, Jr., Lunar Module Pilot.

A76502 - Apollo 11



PHOTO CREDIT-- NASA or National Aeronautics and Space Administration





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: April 18, 1969
PHOTO NO. 69-N-671

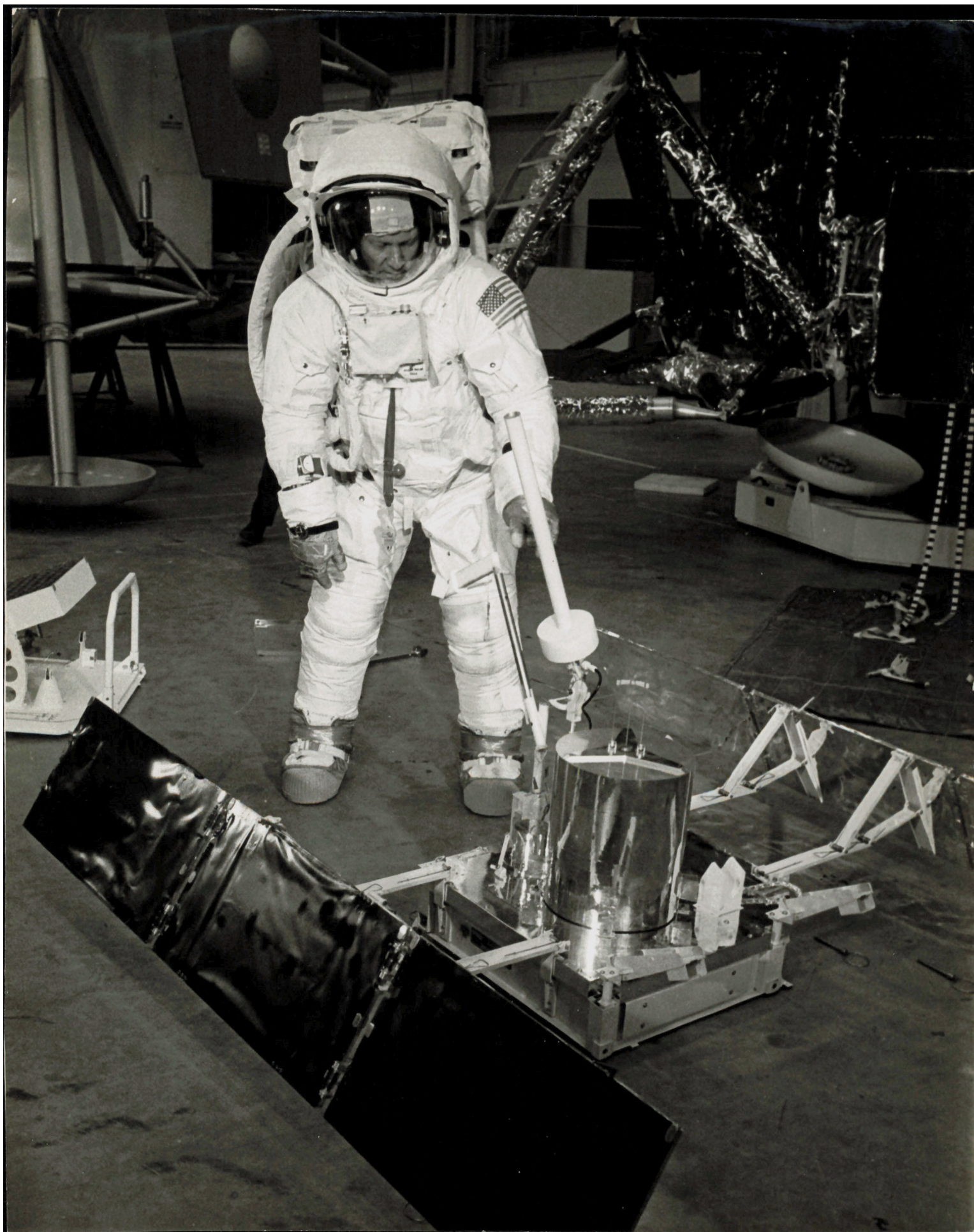
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HOUSTON, TEXAS, -- Apollo 11 Lunar Module Pilot, Aldrin, has just deployed the passive seismometer as he will on the surface of the moon. The instrument will relay seismic information back to earth for up to a year after the Apollo 11 astronauts return to earth. Models of the Lunar Module can be seen in the background.

practice session

Apollo 11, scheduled for launch July 16, is the first U.S. space mission designed to land two astronauts on the moon and return them safely to earth.





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

WASHINGTON, D. C. 20546

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MOONQUAKE TEST -- Edwin E. Aldrin, Lunar Module Pilot, has just deployed the passive seismometer as he will on the surface of the moon. The instrument will relay seismic information for up to a year after the Apollo 11 crew returns to Earth.

simulated pic. of practice session

PHOTO CREDIT -- NASA or National Aeronautics and Space Administration



Charles Conrad Jr.



**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058**

FOR RELEASE:

PHOTO NO.

S-69-34035

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COLOR

13 MAY 1969

S-69-34035

CAPE KENNEDY, FLORIDA

APOLLO 12 TRAINING-----Two members of the Apollo 12 prime crew participate in training with the equipment of the Apollo Lunar Surface Experiment Package (ALSEP) and the Modular Equipment Stowage Assembly at the descent stage of Lunar Module 6 in the low-bay area of the Kennedy Space Center's Manned Spacecraft Operations Building. In foreground is Astronaut Charles Conrad Jr., Apollo 12 commander; and on Conrad's right is Astronaut Alan L. Bean, lunar module pilot. Apollo 12 is scheduled as the National Aeronautics and Space Administration's second lunar landing mission.

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NASA
S-69-52992

Charles Conrad Jr



**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058**

**FOR RELEASE
PHOTO NO.**

S-69-52992

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COLOR

20 SEPT 1969

S-69-52992

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 TRAINING---Astronaut Charles Conrad Jr., prime crew commander of the Apollo 12 lunar landing mission, relaxes aboard the NASA Motor Vessel Retriever prior to participating in water egress training in the Gulf of Mexico.

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NASA
S-69-38868

Charles Conrad Jr.

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

FOR RELEASE

PHOTO NO.

S-69-38866

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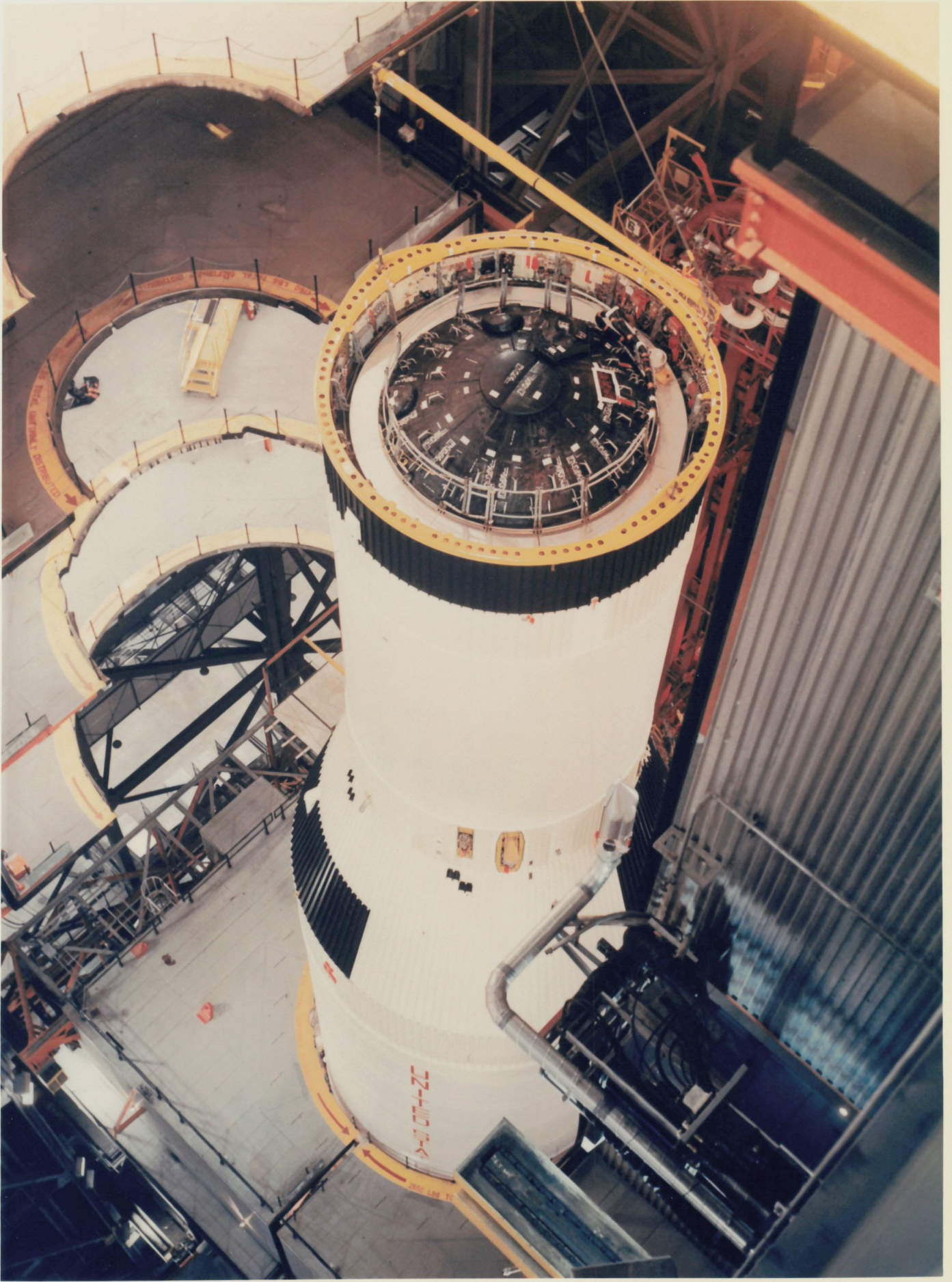
SEPT 1969

S-69-38866

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

ASTRONAUT CHARLES CONRAD JR., Prime Crew Commander of the
Apollo 12 Lunar Landing Mission.

NASA
S-69-36871



Missiles and Rockets - Saturn V



**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058**

FOR RELEASE

PHOTO NO.

S-69-36871

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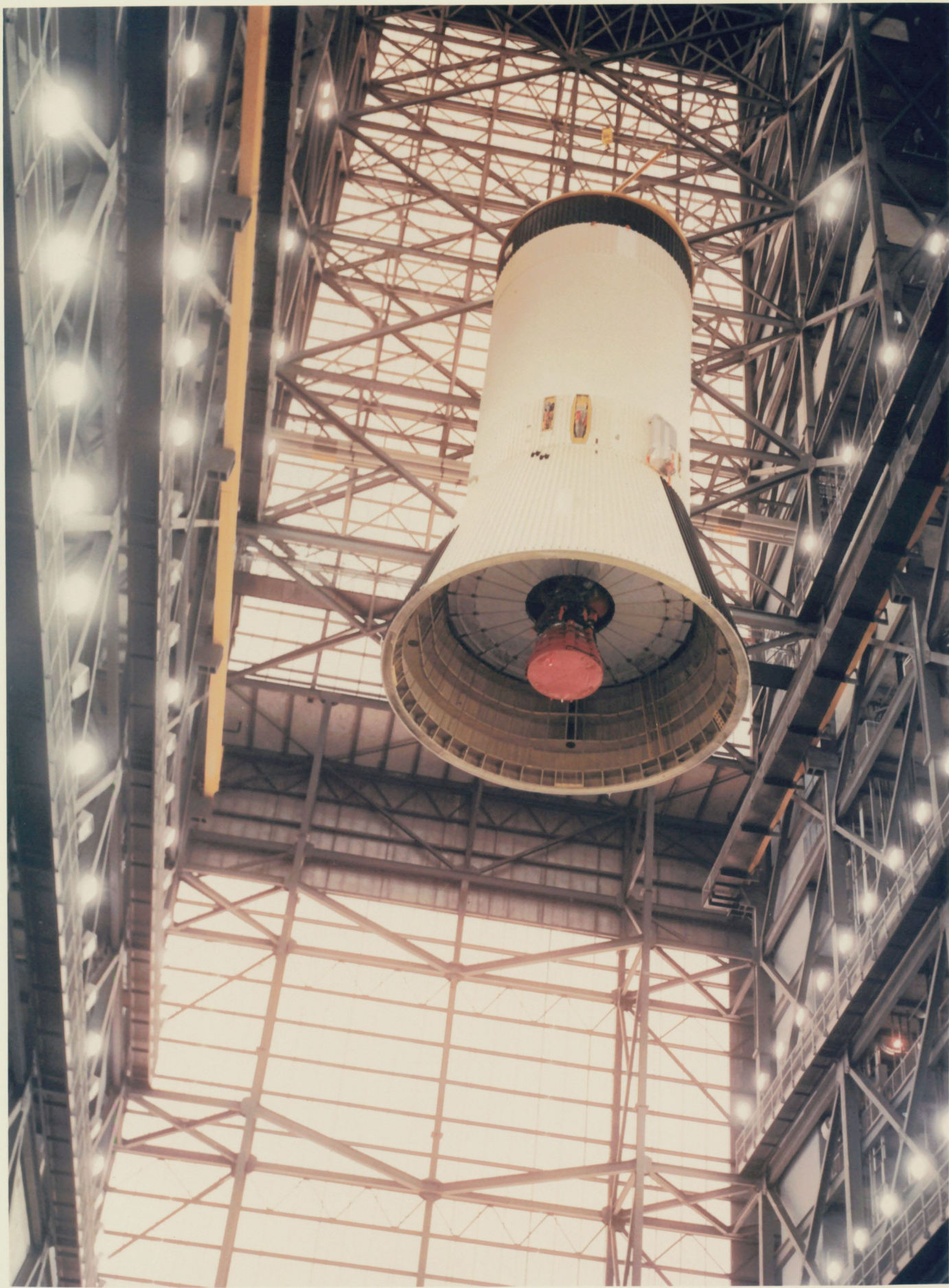
28 MAY 1969

S-69-36871

CAPE KENNEDY, FLORIDA

APOLLO 12 ERECTION----Interior view of the Kennedy Space Center's Vehicle Assembly Building showing the Saturn V's third (S-IVB) stage in position for mating atop the Saturn 507 launch vehicle. Saturn 507 will be the launch vehicle for the Apollo 12 lunar landing mission.

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NASA
S-69-36873

Missiles and Rockets - Saturn V



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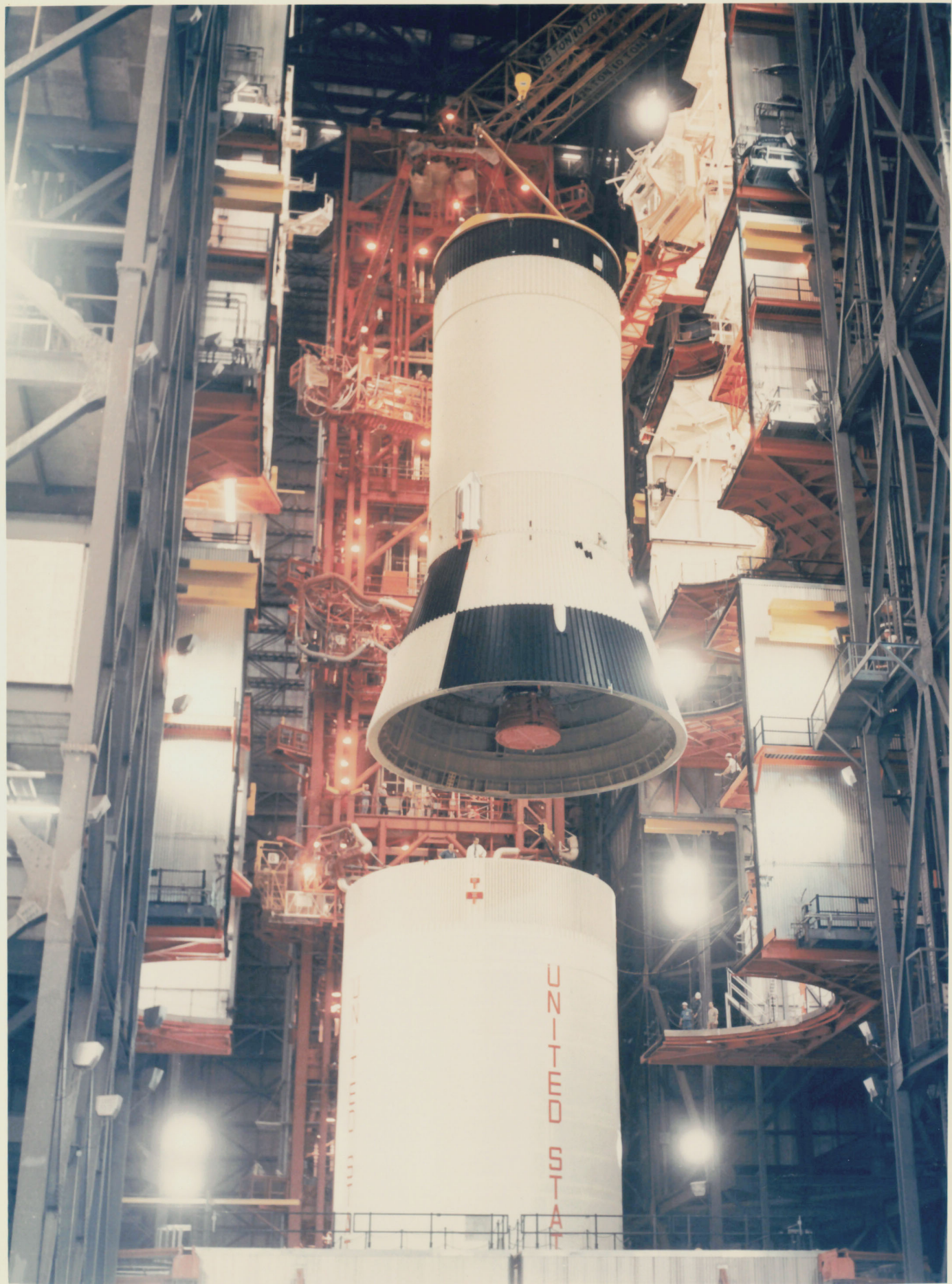
28 MAY 1969

S-69-36873

CAPE KENNEDY, FLORIDA

**APOLLO 12 ERECTION----Interior view of the Kennedy Space Center's
Vehicle Assembly Building showing the Saturn V's third (S-IVB)
stage being hoisted into position for mating atop the Saturn 507
launch vehicle. Saturn 507 will be the launch vehicle for the
Apollo 12 lunar landing mission.**

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NASA
S-69-36872

Missiles and Rockets - Saturn 5



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HOUSTON, TEXAS 77058**

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COLOR

28 MAY 1969

S-69-36872

CAPE KENNEDY, FLORIDA

APOLLO 12 ERECTION----Interior view of the Kennedy Space Center's Vehicle Assembly Building showing the Saturn V's third (S-IVB) stage being moved into position for mating atop the Saturn 507 launch vehicle. Saturn 507 will be the launch vehicle for the Apollo 12 lunar landing mission.

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Project Apollo 12



**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058**

**FOR RELEASE
PHOTO NO.**

8-69-38852

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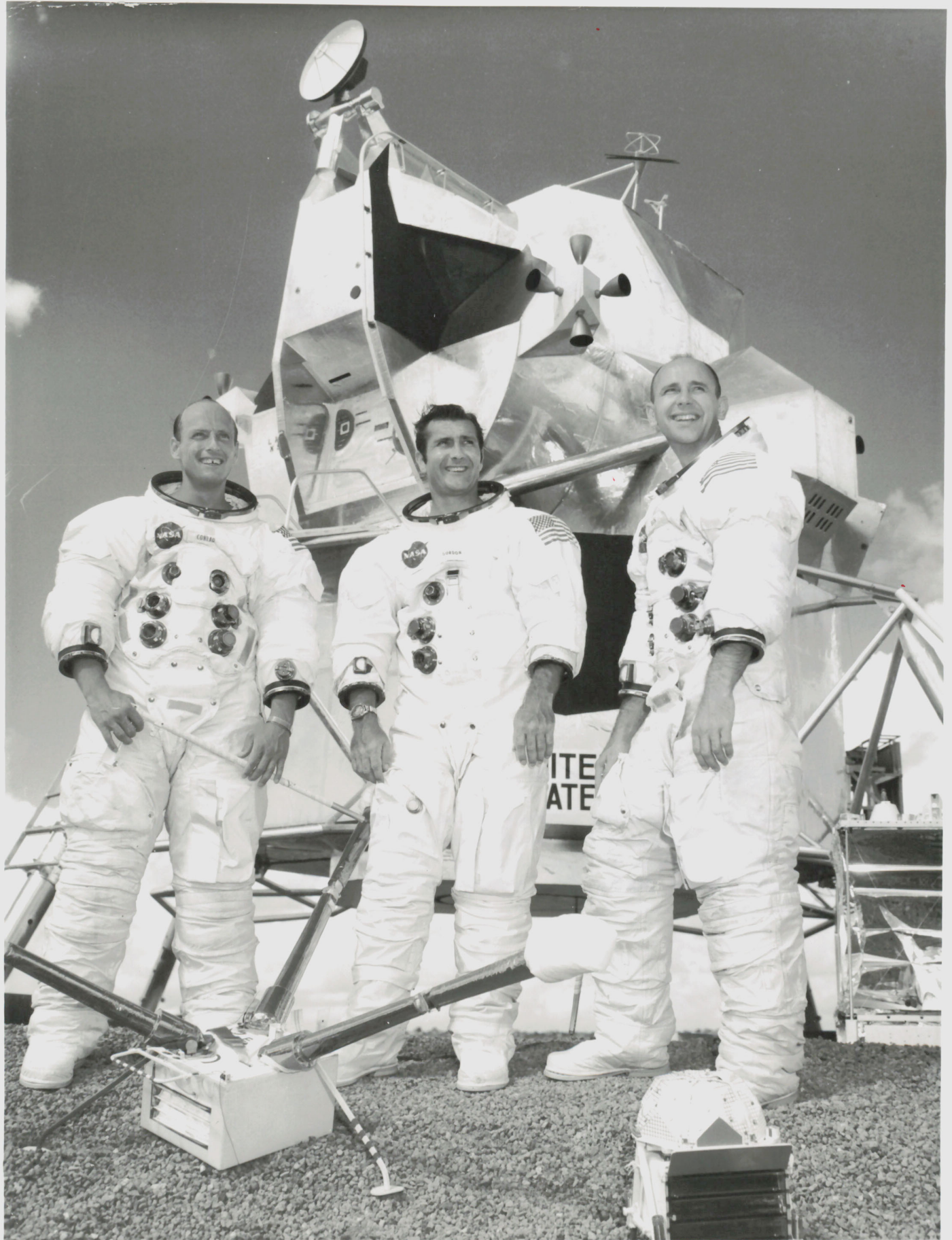
SEPT 1969

8-69-38852

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

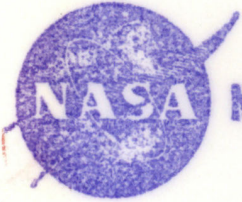
APOLLO 12 CREW---These three astronauts have been named by the National Aeronautics and Space Administration as the prime crew of the Apollo 12 lunar landing mission. Left to right, are Charles Conrad Jr., Richard F. Gordon Jr., and Alan L. Bean.

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SUN MAY 29 1983

LS-SUN P4
6 3/4" X 8 3/4"
The Apollo



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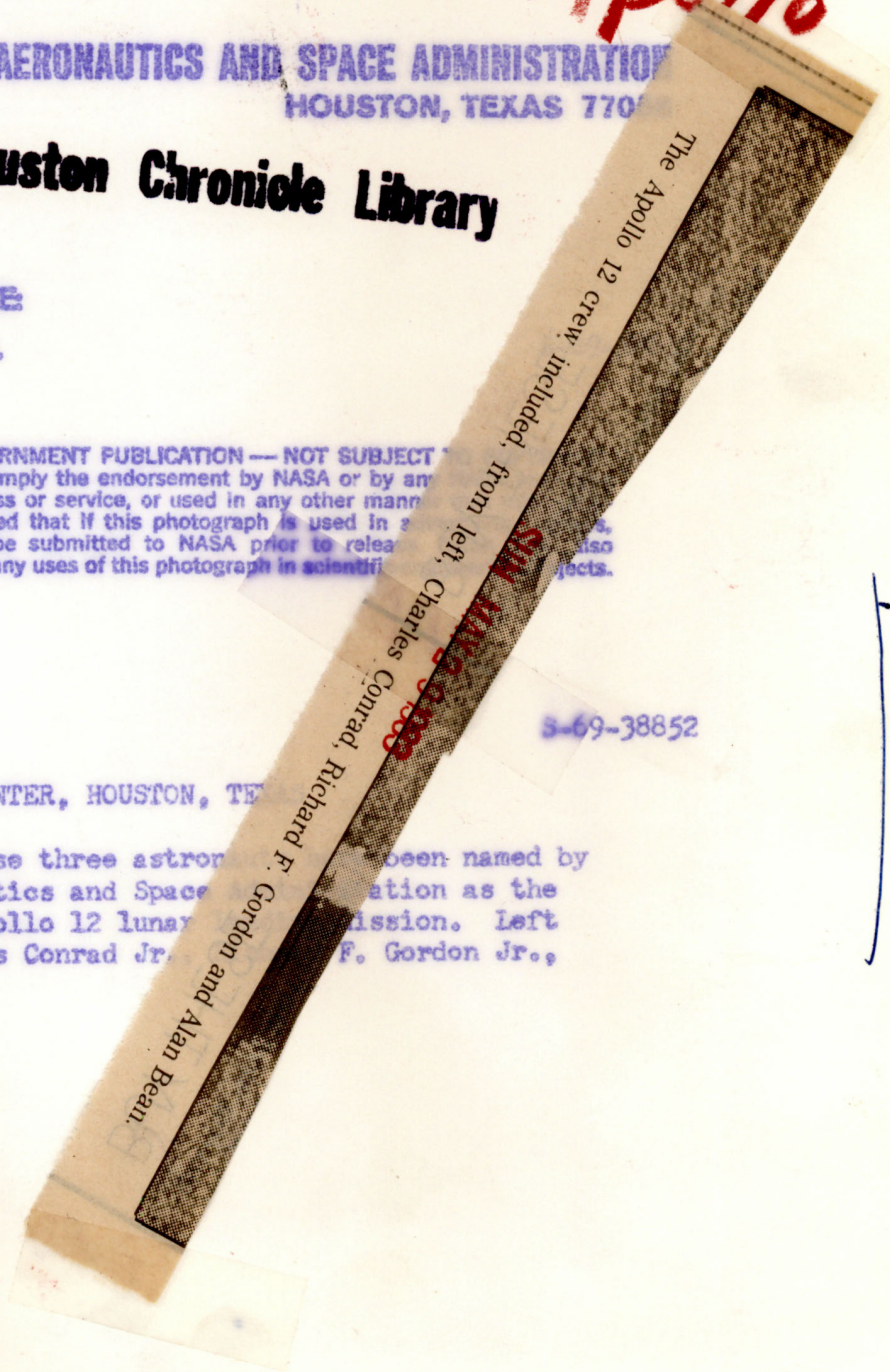
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COLOR (PORTRAIT)

SEPT 1969

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 CREW---These three astronauts have been named by the National Aeronautics and Space Administration as the prime crew of the Apollo 12 lunar surface mission. Left to right, are Charles Conrad Jr., Gordon F. Gordon Jr., and Alan L. Bean.



8-69-38852

Apollo 12



NASA
S-69-39262

Project Apollo 12

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69



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

FOR RELEASE
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S-69-39262

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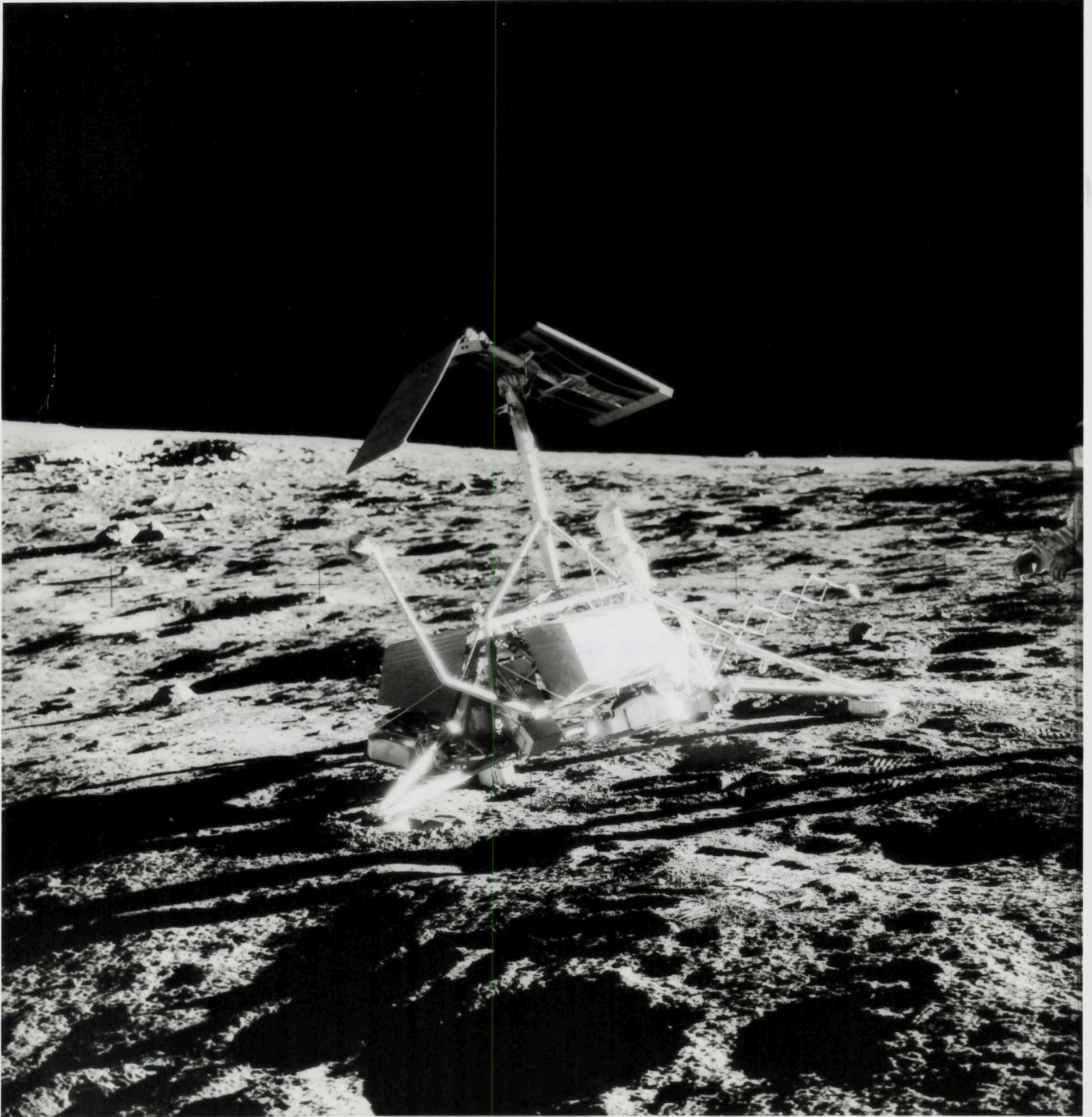
COLOR

23 JUNE 1969

S-69-39262

APOLLO 12 LM PREPARATION--Lunar Module 6, scheduled for the Apollo 12 lunar landing mission in November of 1969, is being moved to an integrated work stand in the Manned Spacecraft Operations Building at Kennedy Space Center. The two prime crew members scheduled to use the LM-6 to descend to the Moon's surface following separation from the Command and Service Modules and to later return to the CSM are Astronauts Charles Conrad Jr., commander, and Alan L. Bean, lunar module pilot. Astronaut Richard F. Gordon Jr. is the prime crew's command module pilot.

NASA
AS12-48-7121



Project Apollo 12

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12-18-72
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B & W

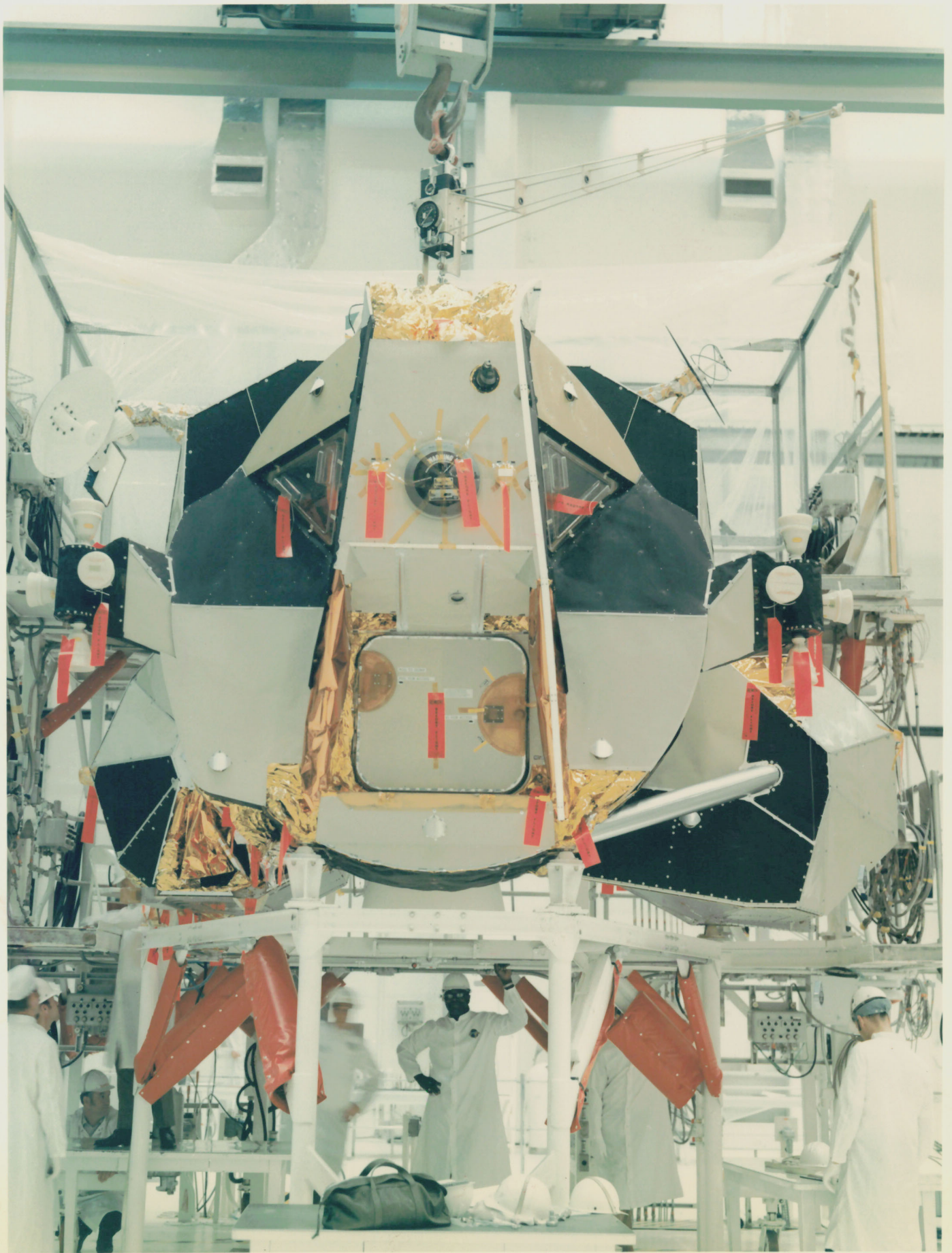
20 NOV 1969

AS12-48-7121

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 EVA---An excellent view of the unmanned Surveyor III spacecraft which was photographed during the Apollo 12 second extravehicular activity (EVA-2) on the surface of the Moon. The Apollo 12 Lunar Module, with Astronauts Charles Conrad Jr. and Alan L. Bean aboard, landed within 600 feet of Surveyor III in the Ocean of Storms. The television camera and several other pieces were taken from Surveyor III and brought back to Earth for scientific examination. Surveyor III landed on the side of this small crater in the Ocean of Storms on April 19, 1967. Astronaut Richard F. Gordon Jr. remained with the Apollo 12 Command and Service Modules in lunar orbit while Conrad and Bean descended to explore the Moon.

Surveyor III



NASA
S-69-32434

Lunar Excursion Module



**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058**

FOR RELEASE:

PHOTO NO.

S-69-32434

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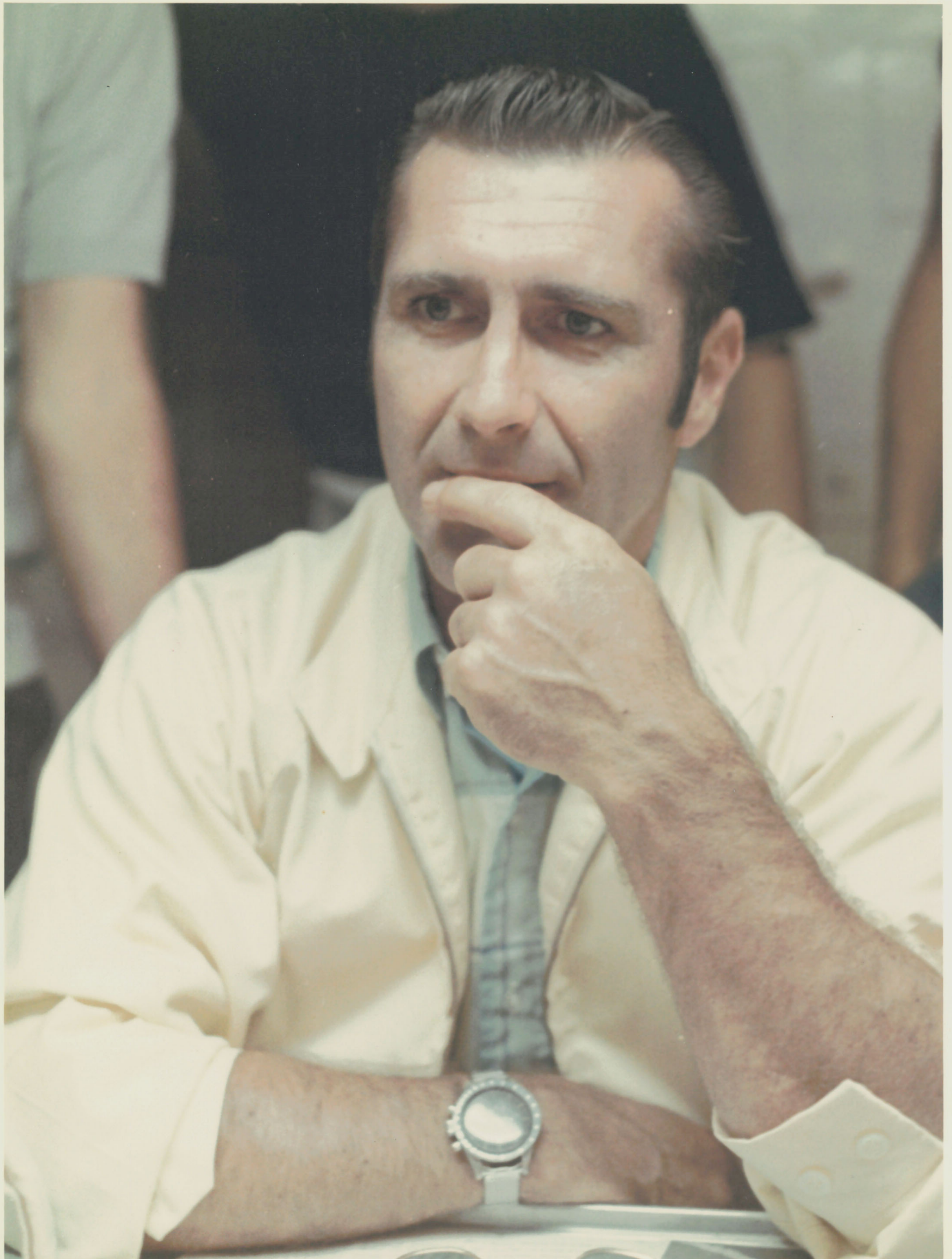
24 MARCH 1969

S-69-32434

CAPE KENNEDY, FLORIDA

APOLLO 12 PREPARATIONS-----Interior view of the Manned Spacecraft Operations Building showing Lunar Module 6 just after it arrived at the Kennedy Space Center. LM-6 is scheduled to be flown on the Apollo 12 lunar landing mission.

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NASA
S-69-52993

Richard F. Gordon Jr.



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

FOR RELEASE
PHOTO NO.

S-69-52993

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COLOR

20 SEPT 1969

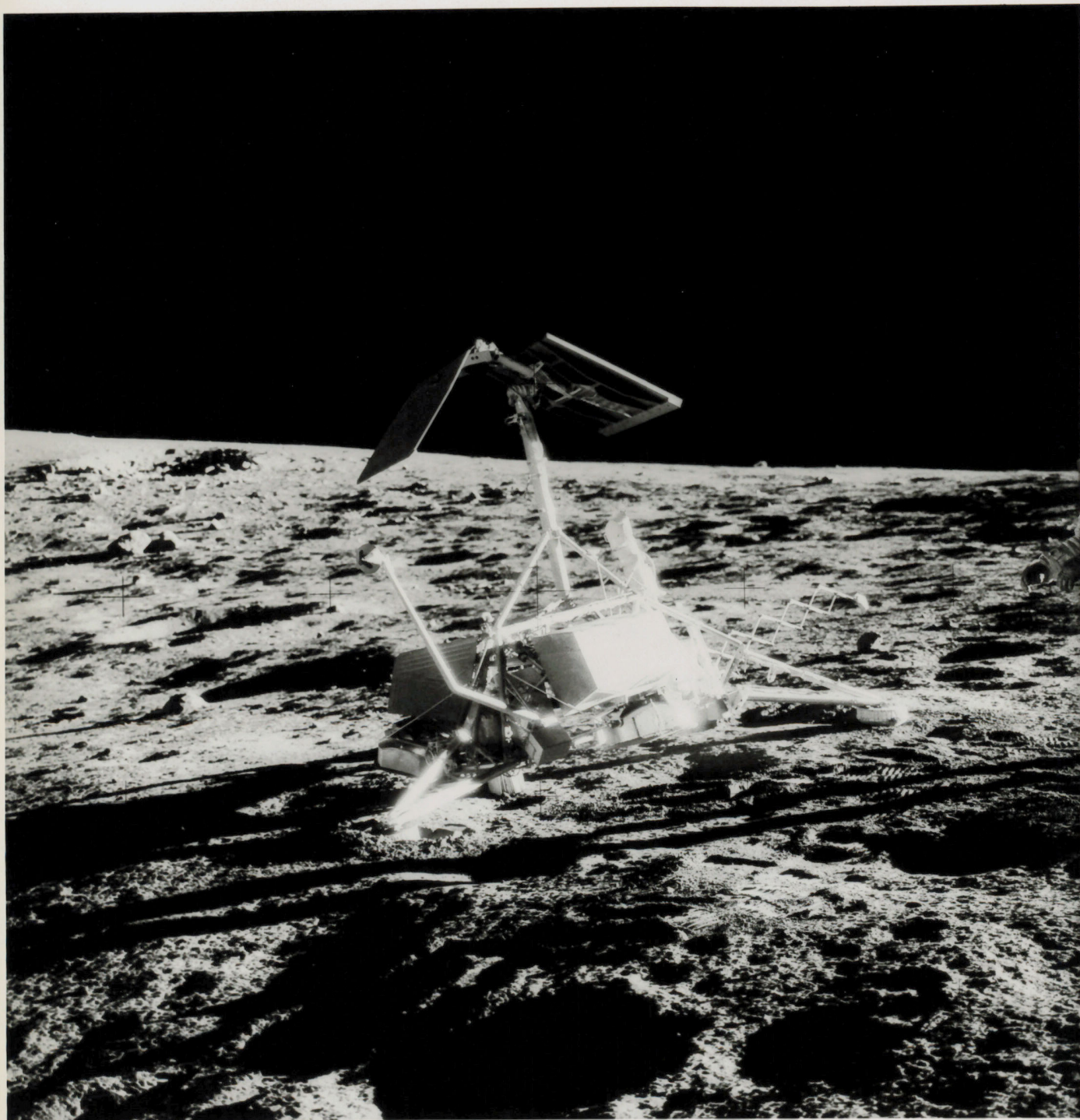
S-69-52993

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 TRAINING----Astronaut Richard F. Gordon Jr., prime crew command module pilot of the Apollo 12 lunar landing mission, relaxes aboard the NASA Motor Vessel Retriever prior to participating in water egress training in the Gulf of Mexico.

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NASA
AS12-48-7121

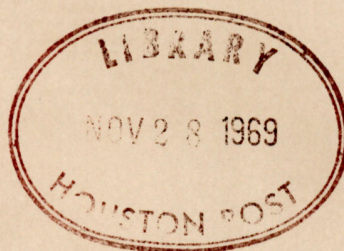


NASA - Apollo 12



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

FOR RELEASE
PHOTO NO.



AS12-48-7121

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B & W

20 NOV 1969

AS12-48-7121

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 EVA---An excellent view of the unmanned Surveyor III spacecraft which was photographed during the Apollo 12 second extravehicular activity (EVA-2) on the surface of the Moon. The Apollo 12 Lunar Module, with Astronauts Charles Conrad Jr. and Alan L. Bean aboard, landed within 600 feet of Surveyor III in the Ocean of Storms. The television camera and several other pieces were taken from Surveyor III and brought back to Earth for scientific examination. Surveyor III landed on the side of this small crater in the Ocean of Storms on April 19, 1967. Astronaut Richard F. Gordon Jr. remained with the Apollo 12 Command and Service Modules in lunar orbit while Conrad and Bean descended to explore the Moon.



NASA
S-69-51309

NASA- Apollo 12

U.S. 9 + 7 " entu



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COLOR

SEPT 8, 1969

S-69-51309

CAPE KENNEDY, FLORIDA

APOLLO 12 ROLL OUT----High-angle view at Launch Complex 39, Kennedy Space Center, showing the Apollo 12 (Spacecraft 108/ Lunar Module 6/Saturn 507) space vehicle on the way from the Vehicle Assembly Building to Pad A. The Saturn V stack and its mobile launch tower are atop a huge crawler-transporter. Apollo 12 is scheduled as the second lunar landing mission. The crew will be Astronauts Charles Conrad Jr., commander; Richard F. Gordon Jr., command module pilot; and Alan L. Bean, lunar module pilot.

84





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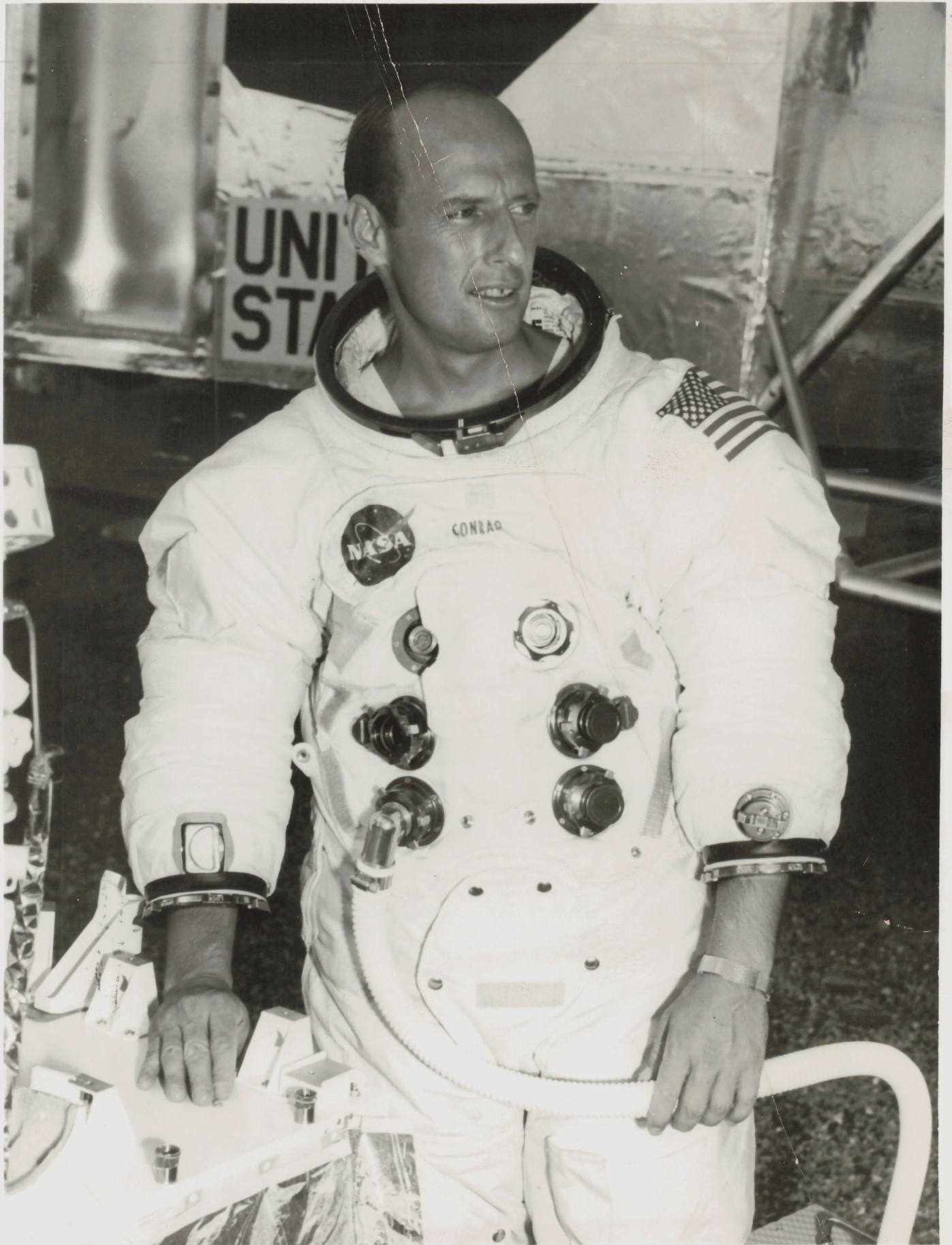
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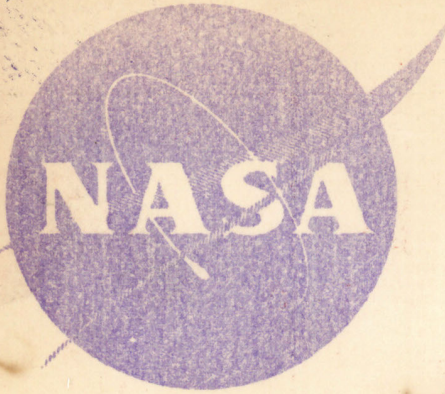
Alan Bean, a veteran of the Apollo 12 moon flight, will lead the second Skylab visit in August and September of next year.

1973

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69-HC-964

APOLLO 12

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SPACE

NOV 10 1969

Conrad is assigned as Commander of the Apollo 12 mission.

NAME: Charles Conrad, Jr. (Commander, USN)
NASA Astronaut

BIRTHPLACE AND DATE: Born on June 2, 1930, in Philadelphia, Pennsylvania.

PHYSICAL DESCRIPTION: Blond hair; blue eyes, height, 5 feet 6 1/2 inches, weight: 138 pounds.

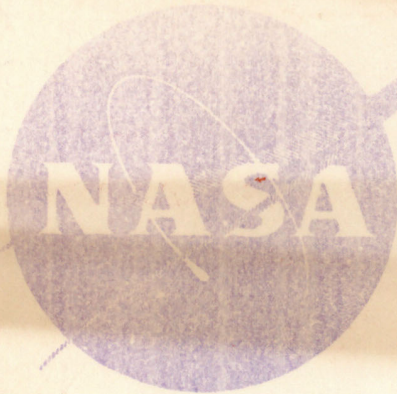
EDUCATION: Attended primary and secondary schools in Haverford, Pennsylvania, and New Lebanon, New York; received a Bachelor of Science degree in Aeronautical Engineering from Princeton University in 1953 and an Honorary Master of Arts degree from Princeton in 1966.

MARITAL STATUS: Married to the former Jane DuBose of Uvalde, Texas, where her parents, Mr. & Mrs. W. O. DuBose, now reside.

CHILDREN: Peter, December 24, 1954, Thomas, May 3, 1957, Andrew, April 30, 1959; Christopher, November 26, 1960.

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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69-EC-965

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SPACE

Gordon is assigned as Command Module Pilot for the Apollo 12 mission.

NAME: Richard P. Gordon, Jr. (Commander, USN)
NASA Astronaut

BIRTHPLACE AND DATE: Born October 5, 1929, in Seattle, Washington. His mother, Mrs. Angela Gordon resides in Seattle.

PHYSICAL DESCRIPTION: Brown hair, hazel eyes, height: 5 feet 7 inches; weight: 150 pounds.

EDUCATION: Graduated from North Kitsap High School, Poulsbo, Washington; received a Bachelor of Science degree in Chemistry from the University of Washington in 1951.

MARITAL STATUS: Married to the former Barbara J. Field of Seattle, Washington. Her parents, Mr. and Mrs. Chester Field, reside in Freeland, Washington.

CHILDREN: Carleen, July 8, 1954; Richard, October 6, 1955; Lawrence, December 18, 1957; Thomas, March 25, 1959; James, April 26, 1960; Diane, April 23, 1961.

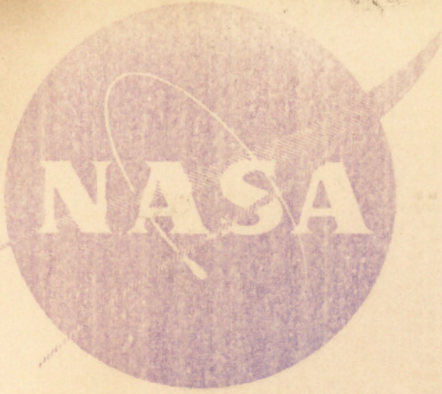
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APOLLO 12





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69-EC-964

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Conrad is assigned as Commander of the Apollo 12 mission.

NAME: Charles Conrad, Jr. (Commander, USN)
NASA Astronaut

BIRTHPLACE AND DATE: Born on June 2, 1930, in Philadelphia, Pennsylvania.

PHYSICAL DESCRIPTION: Blond hair; blue eyes, height, 5 feet 6 1/2 inches, weight: 138 pounds.

EDUCATION: Attended primary and secondary schools in Haverford, Pennsylvania, and New Lebanon, New York; received a Bachelor of Science degree in Aeronautical Engineering from Princeton University in 1953 and an Honorary Master of Arts degree from Princeton in 1966.

MARITAL STATUS: Married to the former Jane DuBose of Uvalde, Texas, where her parents, Mr. & Mrs. W. O. DuBose, now reside.

CHILDREN: Peter, December 24, 1954, Thomas, May 3, 1957, Andrew, April 30, 1959; Christopher, November 26, 1960.

NOV 25 1969



NASA
S-69-52991

Alan L. Bean



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

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PHOTO NO.

S-69-52991

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20 SEPT 1969

S-69-52991

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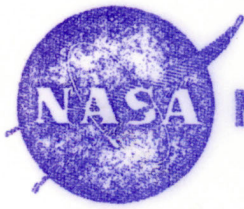
APOLLO 12 TRAINING-----Astronaut Alan L. Bean, prime crew lunar module pilot of the Apollo 12 lunar landing mission, relaxes aboard the NASA Motor Vessel Retriever prior to participating in water egress training in the Gulf of Mexico.

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NASA
S-69-52985

Alan L. Bean



**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058**

FOR RELEASE

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COLOR

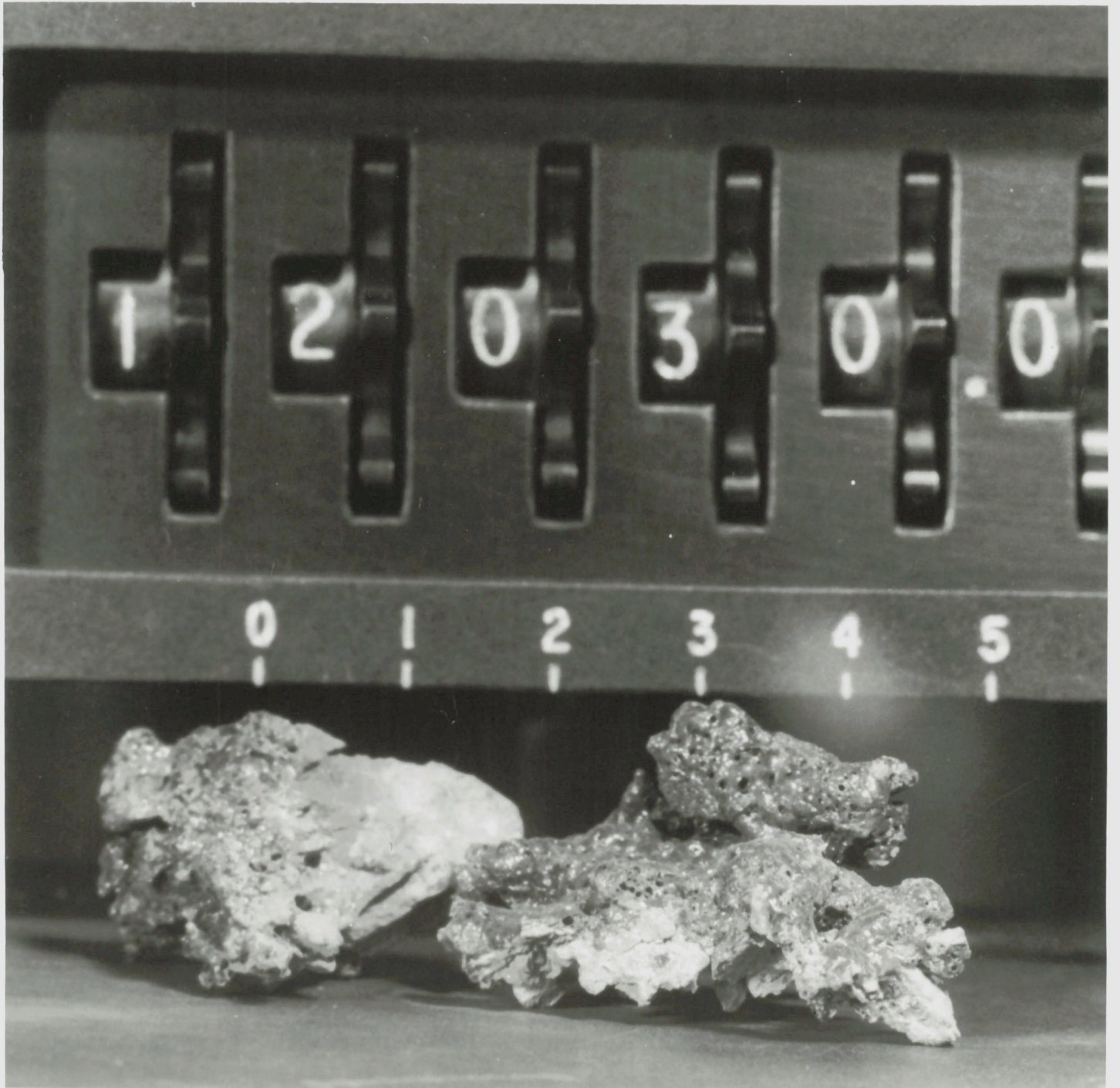
20 SEPT 1969

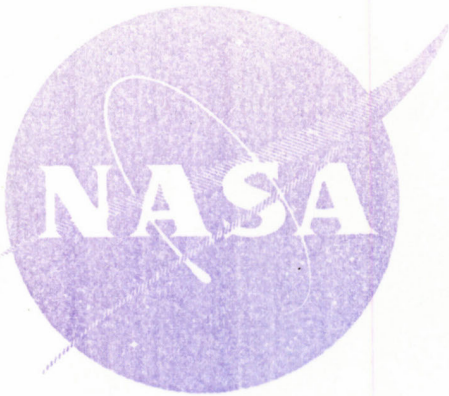
S-69-52985

MANNED SPACECRAFT CENTER, HOUSTON

APOLLO 12 TRAINING-----Astronaut Alan L. Bean, prime crew lunar module pilot of the Apollo 12 lunar landing mission, relaxes aboard the NASA Motor Vessel Retriever prior to participating in water egress training in the Gulf of Mexico.

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FOR RELEASE: Filed January 30, 1970

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70-HC-19

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS -- APOLLO 12 LUNAR SAMPLE -- A close-up view of Apollo 12 lunar sample No. 12030, under scientific examination in the Lunar Receiving Laboratory at Manned Spacecraft Center. The sample, consisting of chips and fines, was collected by Astronaut Alan L. Bean in a small crater, about one meter across. The sample is tightly compacted; and, as can be observed in this view, it is heavily coated with glass. The surface contains several pits which can be seen here. Unlike the bulk of the Apollo 12 samples, this one is a breccia. Astronauts Charles Conrad Jr. and Bean descended in the Apollo 12 Lunar Module to explore the Moon, collect lunar material samples, etc., while Astronaut Richard F. Gordon Jr. remained with the Command and Service Modules in lunar orbit.

17819- moon Rock + materials



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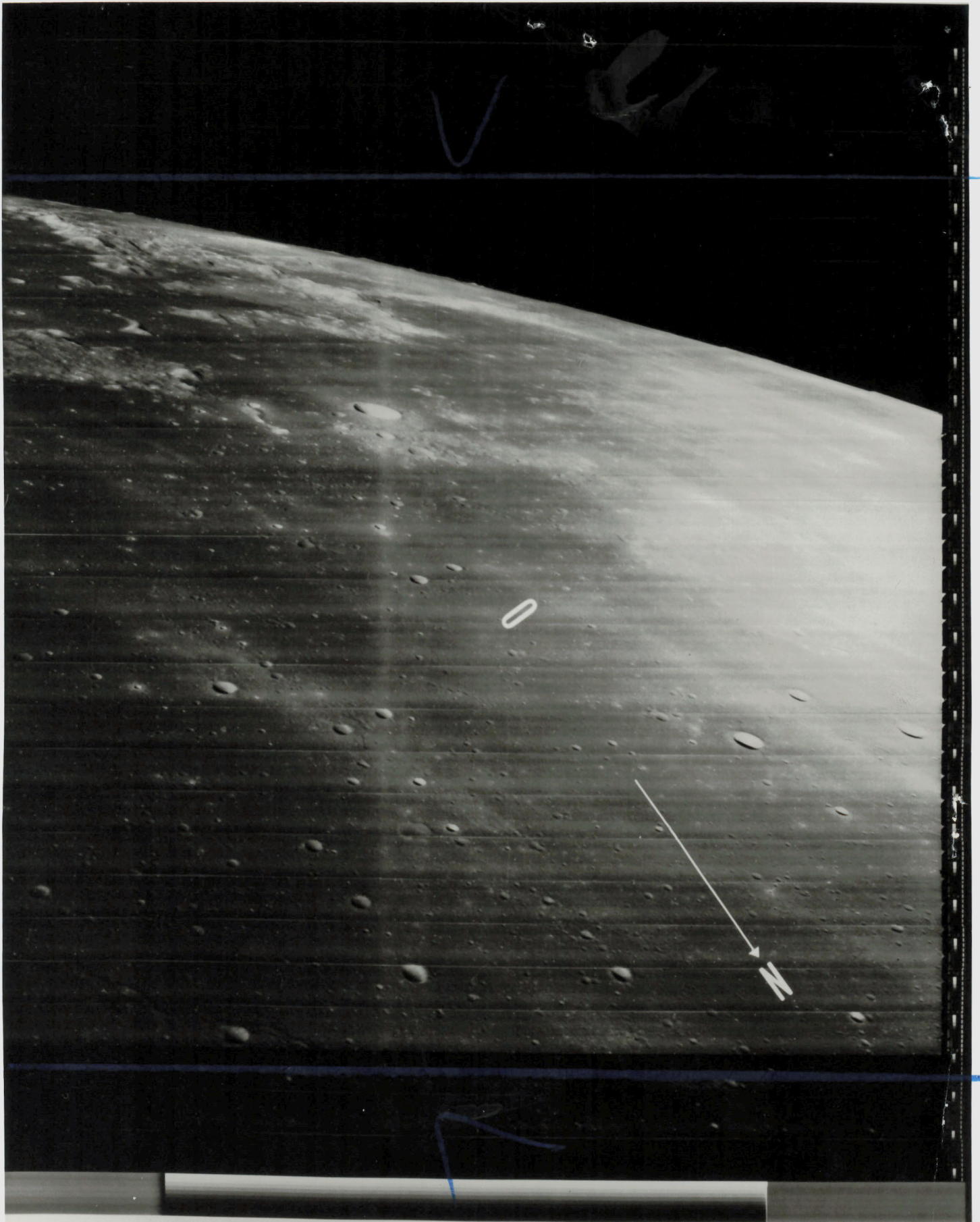
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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS -- APOLLO 12
LUNAR SAMPLE -- One of the first views of the Apollo
12 lunar rocks is this photograph of the open sample
return container. The large rock is approximately 7-
1/2 inches across and is larger than any rock brought
back to Earth by the crew of the Apollo 11 mission.
Two of the rocks in the first container are crystalline
and generally lighter in color than those returned on
the first lunar landing. The rocks in this box are
medium charcoal brown/gray in color.

REFERENCE
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N. C. A.

A 76502 - Apollo 12

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865



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PHOTO NO. 69-H-1548

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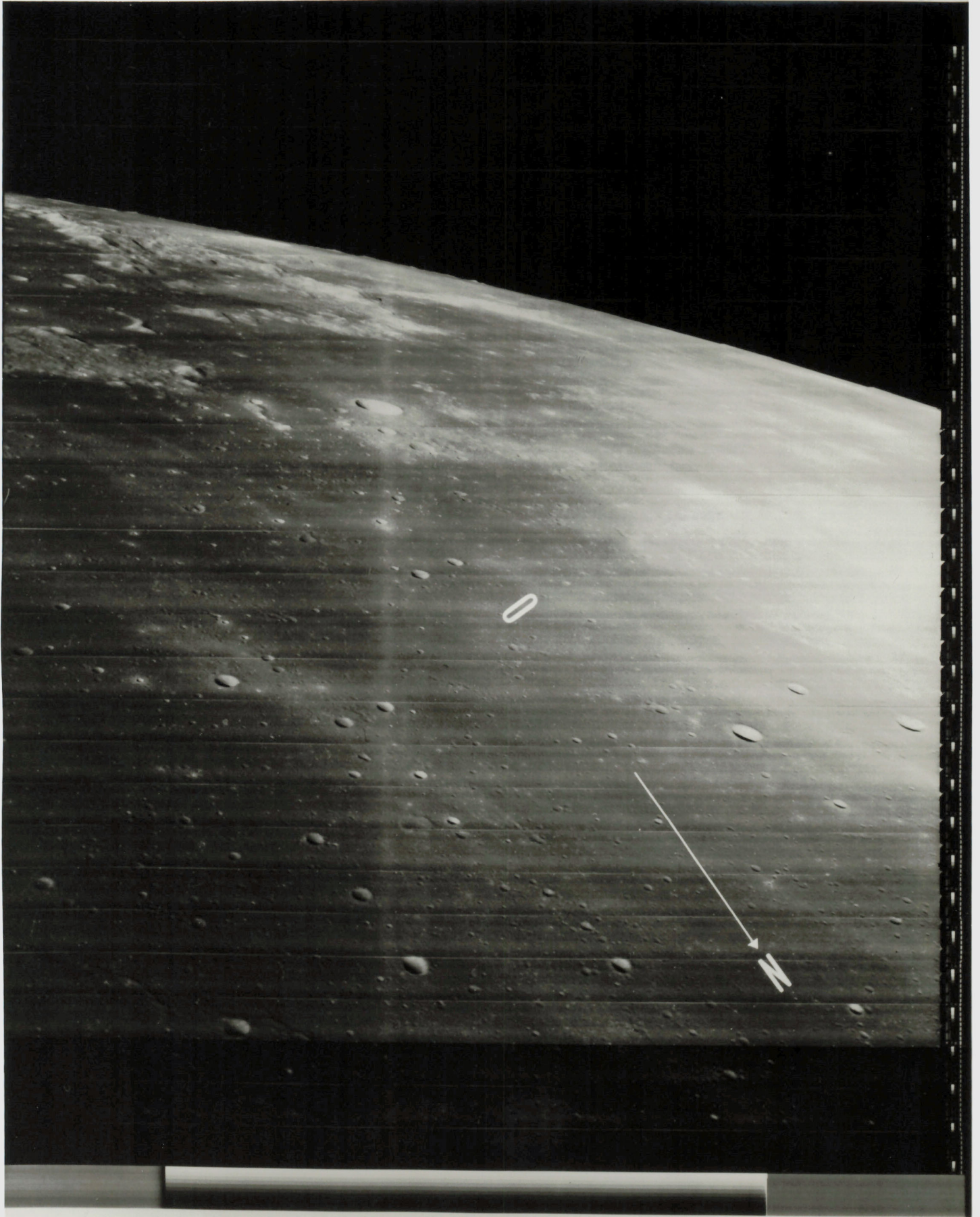
APOLLO 12 PRIME LANDING AREA -- This photo taken by Lunar Orbiter III shows planning activities for Apollo 12 lunar landing 1000 feet East and 500 feet North of Surveyor III. The landing ellipse is 7.2 nautical miles x 2.6 nautical miles. The coordinates of the ellipse center are latitude 2°56'33" south (2.943°), longitude 23°26'36" west (23.443°); and the elevation is 1,735,900 meters. The coordinates of Surveyor III are latitude 2°57'10" South (2.953°), 23°27'10" west (23.453°).

APOLLO #4

39 PICAS X 5 3/4

2ND SECT. THUR. NOV. 13

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APOLLO 12 PRIME LANDING AREA -- This photo taken by Lunar Orbiter III shows planning activities for Apollo 12 lunar landing 1000 feet East and 500 feet North of Surveyor III. The landing ellipse is 7.2 nautical miles x 2.6 nautical miles. The coordinates of the ellipse center are latitude $2^{\circ}56'33''$ south (2.943°), longitude $23^{\circ}26'36''$ west (23.443°); and the elevation is 1,735,900 meters. The coordinates of Surveyor III are latitude $2^{\circ}57'10''$ South (2.953°), $23^{\circ}27'10''$ west (23.453°).

NOV 25 1969

NOV 25 1969

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DEC 21 1969



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Gordon is assigned as Command Module Pilot for the Apollo 12 mission.

NAME: Richard F. Gordon, Jr. (Commander, USN)
NASA Astronaut

BIRTHPLACE AND DATE: Born October 5, 1929, in Seattle, Washington. His mother, Mrs. Angela Gordon resides in Seattle.

PHYSICAL DESCRIPTION: Brown hair, hazel eyes, height: 5 feet 7 inches; weight: 150 pounds.

EDUCATION: Graduated from North Kitsap High School, Poulsbo, Washington; received a Bachelor of Science degree in Chemistry from the University of Washington in 1951.

FAMILY STATUS: Married to the former Barbara J. Field of Seattle, Washington. Her parents, Mr. and Mrs. Chester Field, reside in Freeland, Washington.

CHILDREN: Carleen, July 8, 1954; Richard, October 6, 1955; Lawrence, December 18, 1957; Thomas, March 25, 1958; James, April 26, 1960; Diane, April 23, 1961

43

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The Apollo 12 astronauts will arrive in Seattle at 12:30 p. m. January 2, at Boeing Field for the start of a 24-hour stay.

DEC 21 1969

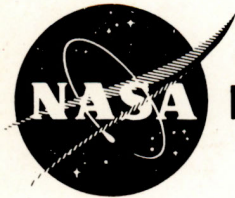
Charles Conrad, Richard F. Gordon and Alan L. Bean, their wives and Gordon's six children will be greeted at The Boeing Co.'s Flight Development Center by civic leaders, headed by Mayor Wes Uhlman.

The astronauts will go from Boeing Field to a round of parades, parties, dinners and discussions of what it is like to be men from the moon.

The tentative schedule:

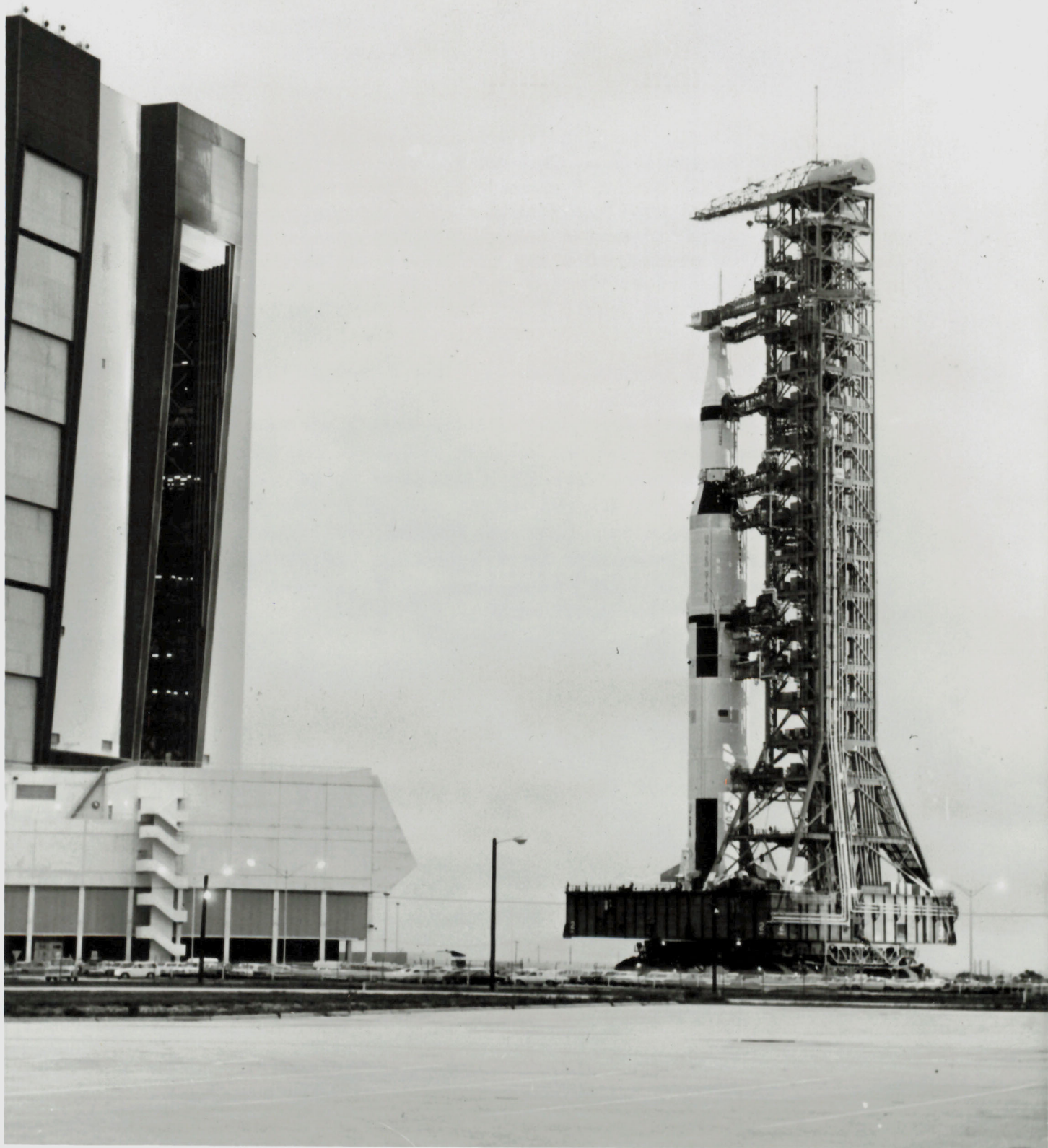


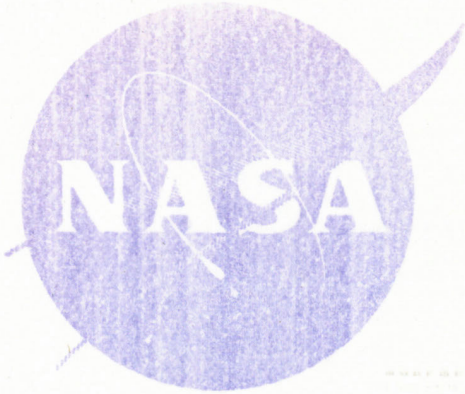
~~of Astronauts~~
NASA-Apollo 12



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

SIXTH MANNED APOLLO CREW—The members of the Apollo 12 prime crew are (left to right) Charles Conrad, Jr., commander; Richard F. Gordon, Jr., command module pilot; and Alan L. Bean, lunar module pilot. Apollo 12 is scheduled to be the National Aeronautics and Space Administration's second lunar landing mission.





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KENNEDY SPACE CENTER, Fla. -- The transporter carries the 363-foot-high Apollo 12 Saturn V space vehicle from the Vehicle Assembly Building's High Bay 3 at the start of the 3.5 mile rollout to Launch Complex 39A today. The transporter carried the 12.8 million pound load along the Crawlerway at speeds under one mile per hour. During Apollo 12, Commander Charles Conrad, Jr., and Lunar Module Pilot Alan L. Bean are to descend to the Moon's surface while Command Module Pilot Richard F. Gordon pilots the command module in lunar orbit.

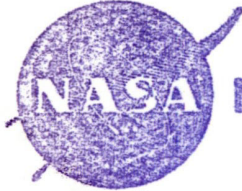
A 76502 - Apollo 12



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NASA
S-69-34036





**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058**

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13 MAY 1969

S-69-34036

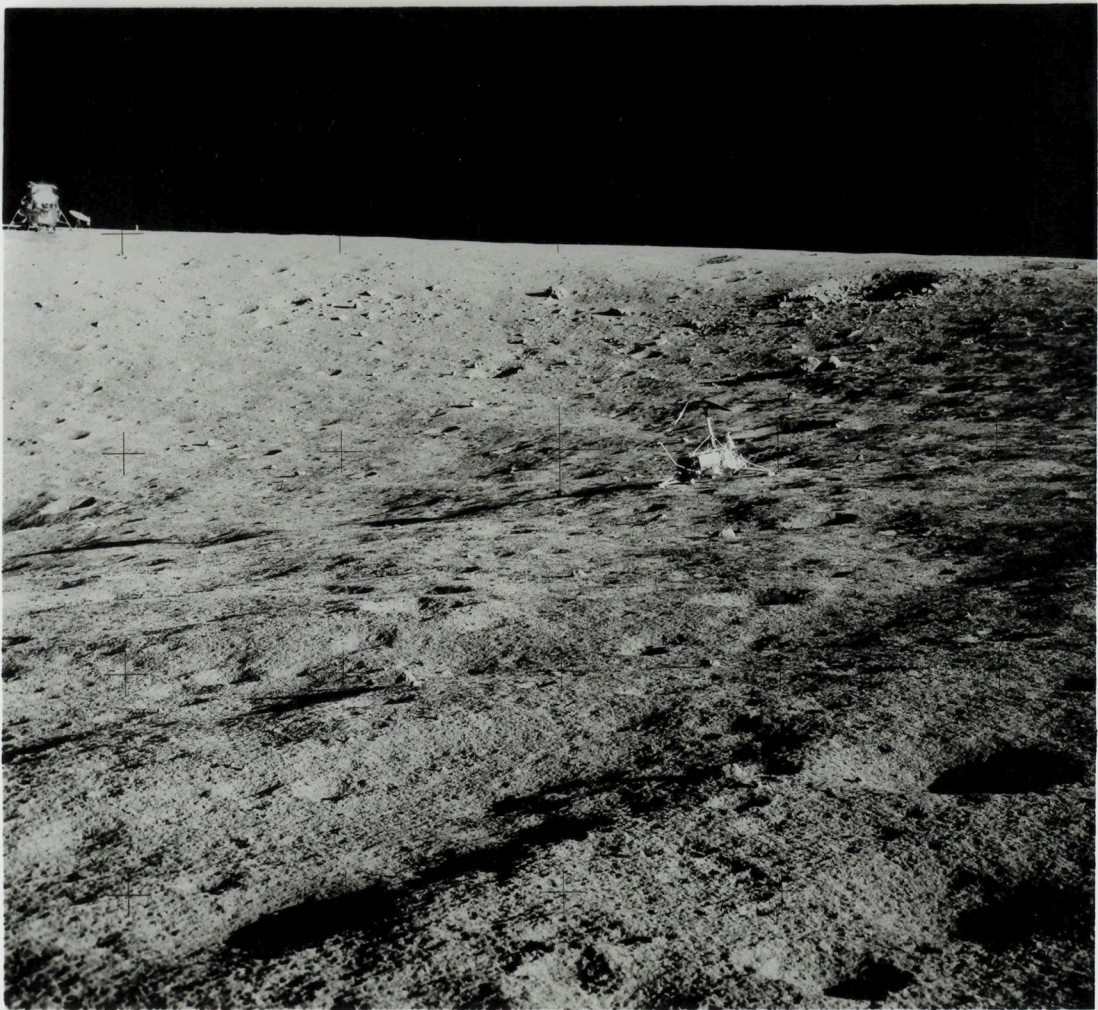
CAPE KENNEDY, FLORIDA

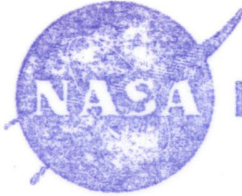
APOLLO 12 TRAINING--Astronaut Charles Conrad Jr. (center), commander of the Apollo 12 lunar landing mission, participates in training with the equipment of the Apollo Lunar Surface Experiment Package (ALSEP) and the Modular Equipment Stowage Assembly (MESA) at the descent stage of Lunar Module 6 in the low-bay area of the Kennedy Space Center's Manned Spacecraft Operations Building. Conrad is holding the lunar hand tool extension handle and hammer. Astronaut Gerald P. Carr (center background) and Scientist-Astronaut Edward G. Gibson (on left) are members of the Apollo 12 Support Team. On the right is Scientist-Astronaut Harrison H. Schmitt, geologist.

Charles Conrad Jr.

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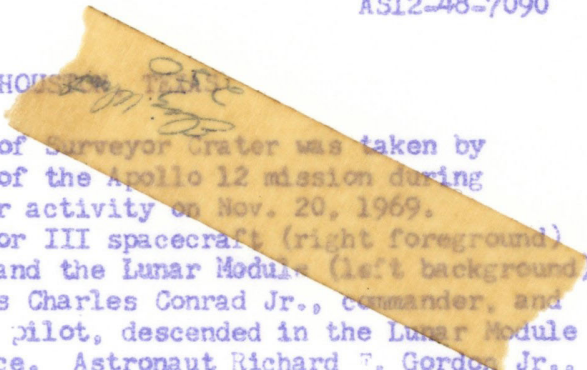
B&W

19-20 NOV 1969

AS12-48-7090

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 EVA----This view of Surveyor Crater was taken by one of the two astronauts of the Apollo 12 mission during their second extravehicular activity on Nov. 20, 1969. This view shows the Surveyor III spacecraft (right foreground) on the side of the crater and the Lunar Module (left background) on the horizon. Astronauts Charles Conrad Jr., commander, and Alan L. Bean, lunar module pilot, descended in the Lunar Module to explore the lunar surface. Astronaut Richard T. Gordon Jr., command module pilot, remained with the Command and Service Modules in lunar orbit.



Project Apollo 12

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COLOR

19 NOV 1969

AS12-47-6918

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 EVA---Astronaut Alan L. Bean, lunar module pilot, took this photograph of three of the components of the Apollo Lunar Surface Experiments Package which was deployed on the Moon during the first Apollo 12 extravehicular activity (EVA-1). The Passive Seismic Experiment is in the center foreground. The largest object is the Central Station; and the white object on legs is the Suprathermal Ion Detector Experiment. A portion of the shadow of Astronaut Charles Conrad Jr., commander, can be seen at the left center edge of the picture. Astronaut Richard F. Gordon Jr., command module pilot, remained with the Apollo 12 Command and Service Modules in lunar orbit while Conrad and Bean descended in the Lunar Module to explore the Moon.

Project Apollo 12

NASA
AS12-48-7034



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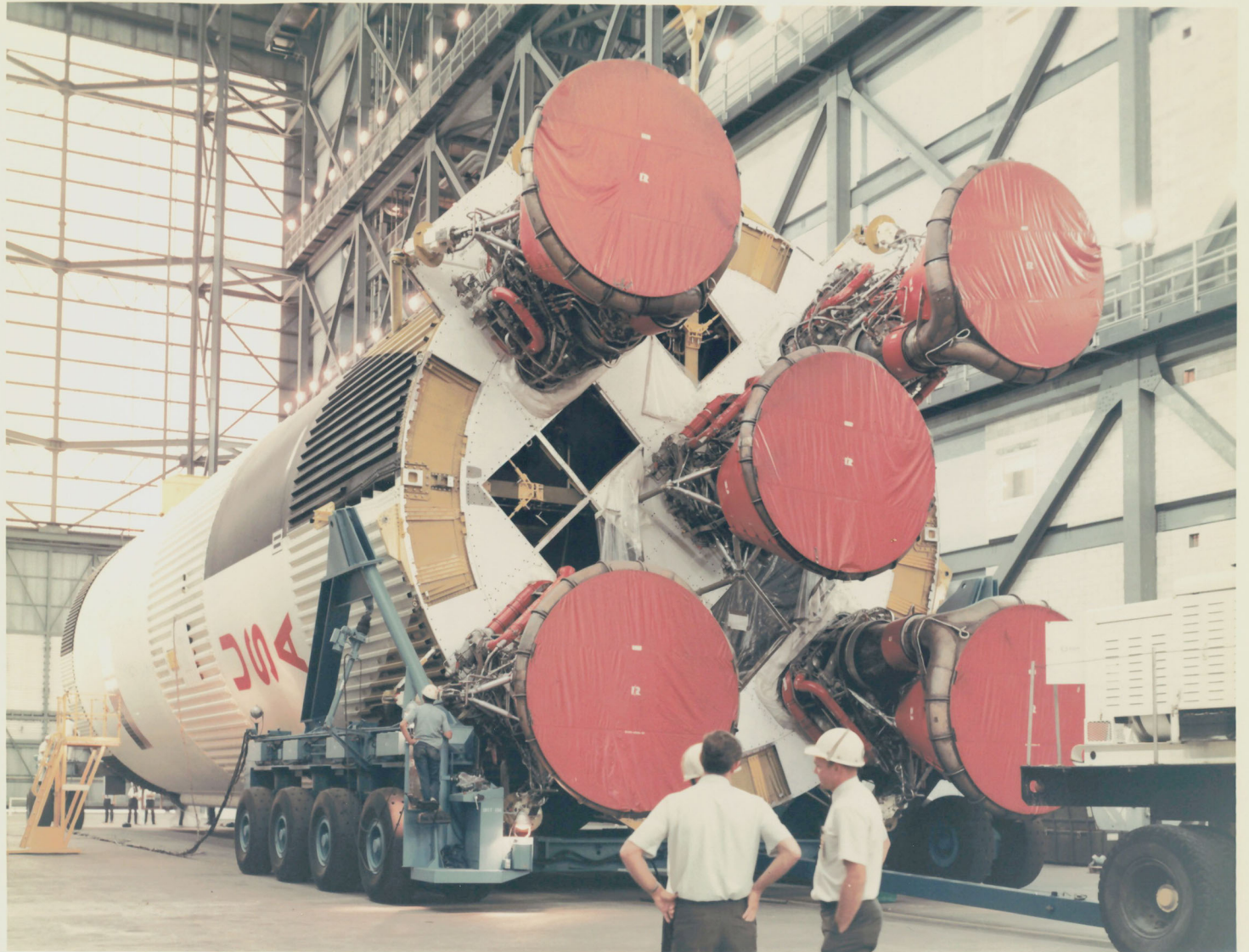
AS12-43-7034

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

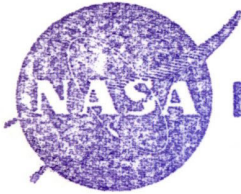
APOLLO 12 EVA -- A close-up view of a portion of the descent stage of the Apollo 12 lunar module, photographed during the Apollo 12 extravehicular activity. At upper right is the empty RTG fuel cask. The fuel capsule has already been removed and placed in the Radioisotope Thermoelectric Generator. The RTG furnishes power for the Apollo Lunar Surface Experiments Package which the Apollo 12 astronauts deployed on the Moon. The LM's descent engine is in the center background. Astronaut Richard F. Gordon Jr., remained with the Apollo 12 Command and Service Modules in lunar orbit while Astronauts Charles Conrad Jr., commander, and Alan L. Bean descended in the LM to explore the Moon.

Lunar Excursion Module

NASA
S-69-34675



Missiles and Rockets - Saturn 5



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COLOR

7 MAY 1969

S-69-34675

CAPE KENNEDY, FLORIDA

APOLLO 12 ERECTION-----Interior view of the Kennedy Space Center's Vehicle Assembly Building showing the first (S-1C) stage being prepared for hoisting into position during the Saturn 507 launch vehicle erection. Later, the S-II and S-IVB stages will be mated atop the S-1C stage. Saturn 507 will be the launch vehicle for the Apollo 12 lunar landing mission.

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COLOR

NOV 1968

S-68-51700

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 9 WATER EGRESS TRAINING-----The backup crew of the Apollo 9 (Spacecraft 104/Lunar Module 3/Saturn 504) space mission stands on the deck of the NASA Motor Vessel Retriever prior to participating in water egress training in the Gulf of Mexico. Left to right, are Astronauts Charles Conrad Jr. (holding hatch), Richard F. Gordon Jr., and Alan L. Bean. They are standing by the Apollo command module trainer which was used in the exercise.

(SINCE THIS PHOTOGRAPH WAS MADE, THESE THREE ASTRONAUTS HAVE BEEN NAMED AS THE PRIME CREW OF THE APOLLO 12 LUNAR LANDING MISSION)

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Project Apollo 12

NASA
AS12-48-7110





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R&W

20 NOV 1969

AS12-48-7110

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 EVA---A close-up view of a footpad of the unmanned
Surveyor III spacecraft, photographed during the second extra-
vehicular activity period (EVA-2) of Astronauts Charles Conrad
Jr., Apollo 12 mission commander, and Alan L. Bean, lunar module
pilot. Their Apollo 12 Lunar Module landed Nov. 19, 1969, in
the Ocean of Storms some 600 feet away from the Surveyor III
spacecraft. Surveyor III landed in the Ocean of Storms on
April 19, 1967.

Project ~~Project~~ Apollo 12

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NASA
AS12-48-7110



FRI NOV 28 1969



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B&W

20 NOV 1969

AS12-48-7110

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 EVA---A close-up view of a footpad of the unmanned Surveyor III spacecraft, photographed during the second extravehicular activity period (EVA-2) of Astronauts Charles Conrad Jr., Apollo 12 mission commander, and Alan L. Bean, lunar module pilot. Their Apollo 12 Lunar Module landed Nov. 19, 1969, in the Ocean of Storms some 600 feet away from the Surveyor III spacecraft. The Surveyor III landing took place in the Ocean of Storms on April 19, 1967.

Moon

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12-1-69
AS12-48-7110

*301
810-1
Footprints
on Moon*

MOON SURVEYOR'S FOOTPRINTS DISTINCT AFTER 31 MONTHS
FRI NOV 28 1969
Unmanned Spacecraft Bounced Upon Lunar Landing in 1967

NASA
AS12-48-7160



Moon

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B & W

NOV 1969

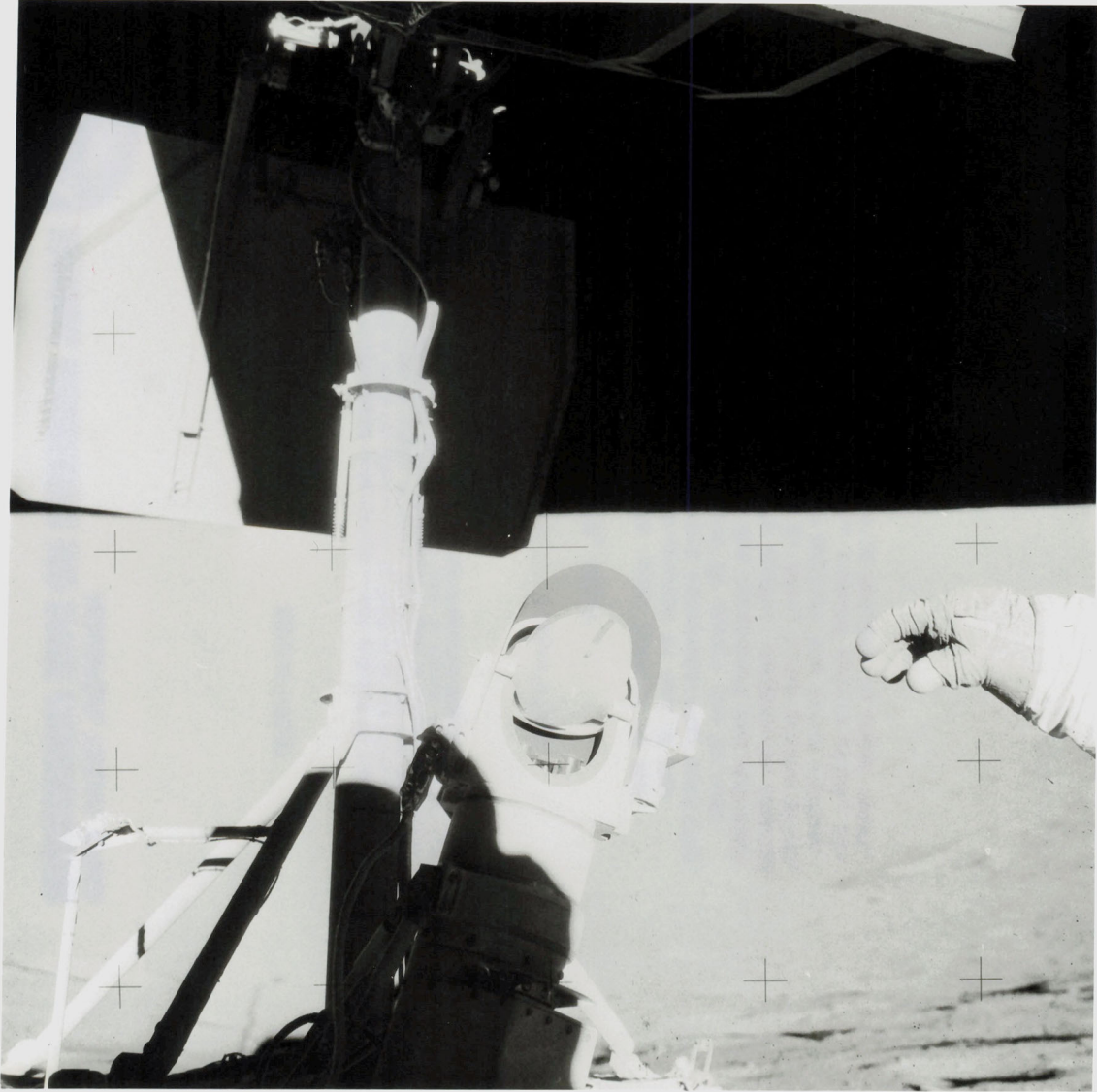
AS12-52-7595

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 VIEW OF MOON---A near vertical view of the northern
portion of Fra Mauro, as photographed from the Apollo 12 space-
craft in lunar orbit. This picture shows the proposed Apollo
13 lunar landing site, near the center, located in the highlands
north of Fra Mauro. The coordinates of the proposed Apollo 13
site are 17.550 degrees west longitude and 3.617 degrees south
latitude.

Moon

NASA
AS12-48-7132





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20 NOV 1969

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APOLLO 12 EVA -- This view of the upper portion of the Surveyor III spacecraft was photographed by one of the Apollo 12 crewmen during the second extravehicular activity on 20 November 1969. The Surveyor TV camera can be seen prior to its being removed from the spacecraft and returned to the Lunar Module for return to earth. Astronauts Charles Conrad Jr., commander, and Alan L. Bean, lunar module pilot, descended in the Lunar Module to explore the lunar surface. Astronaut Richard F. Gordon Jr., command module pilot, remained with the Command and Service Modules in lunar orbit.

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Project Apollo 12

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S-69-04182



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COLOR

DEC 1969

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 LUNAR SAMPLE--A close-up view of Apollo 12 lunar sample No. 12030, under scientific examination in the Lunar Receiving Laboratory at Manned Spacecraft Center. The sample, consisting of chips and fines, was collected by Astronaut Alan L. Bean in a small crater, about one meter across. The sample is tightly compacted; and, as can be observed in this view, it is heavily coated with glass. The surface contains several pits which can be seen here. Unlike the bulk of the Apollo 12 samples, this one is a breccia. Astronauts Charles Conrad Jr. and Bean descended in the Apollo 12 Lunar Module to explore the Moon, collect lunar material samples, etc., while Astronaut Richard F. Gordon Jr. remained with the Command and Service Modules in lunar orbit.

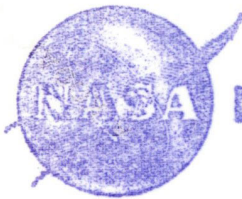
Moon Rocks

NASA
S-80-01183



Moon Rocks

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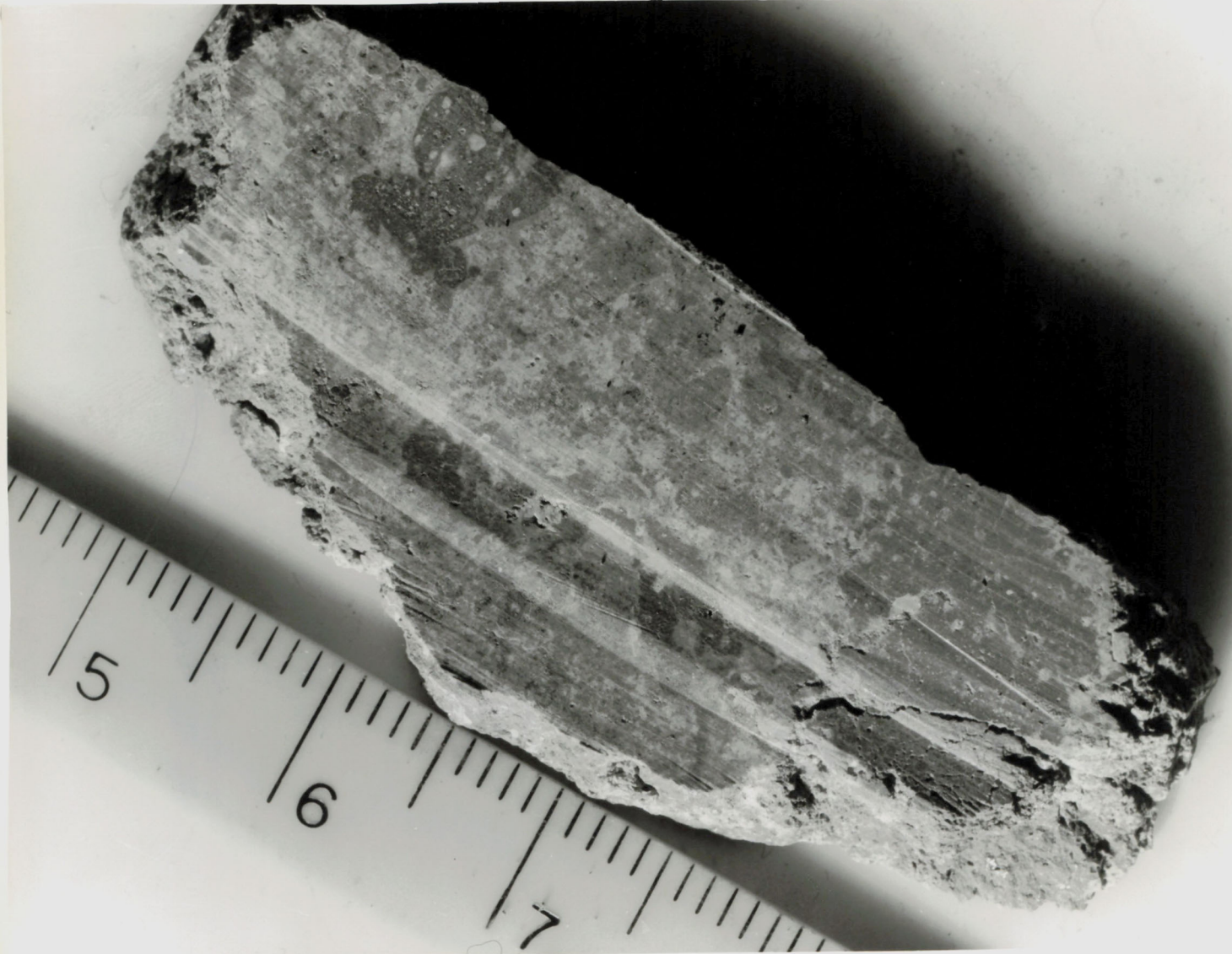
COLOR

DEC 1969

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 LUNAR SAMPLE--A close-up view of Apollo 12 lunar sample No. 12030, under scientific examination in the Lunar Receiving Laboratory at Manned Spacecraft Center. The sample, consisting of chips and fines, was collected by Astronaut Alan L. Bean in a small crater, about one meter across. The sample is tightly compacted; and, as can be observed in this view, it is heavily coated with glass. The surface contains several pits which can be seen here. Unlike the bulk of the Apollo 12 samples, this one is a breccia. Astronauts Charles Conrad Jr. and Bean descended in the Apollo 12 Lunar Module to explore the Moon, collect lunar material samples, etc., while Astronaut Richard F. Gordon Jr. remained with the Command and Service Modules in lunar orbit.

NASA
S-70-40349



Moon Rocks



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B & W

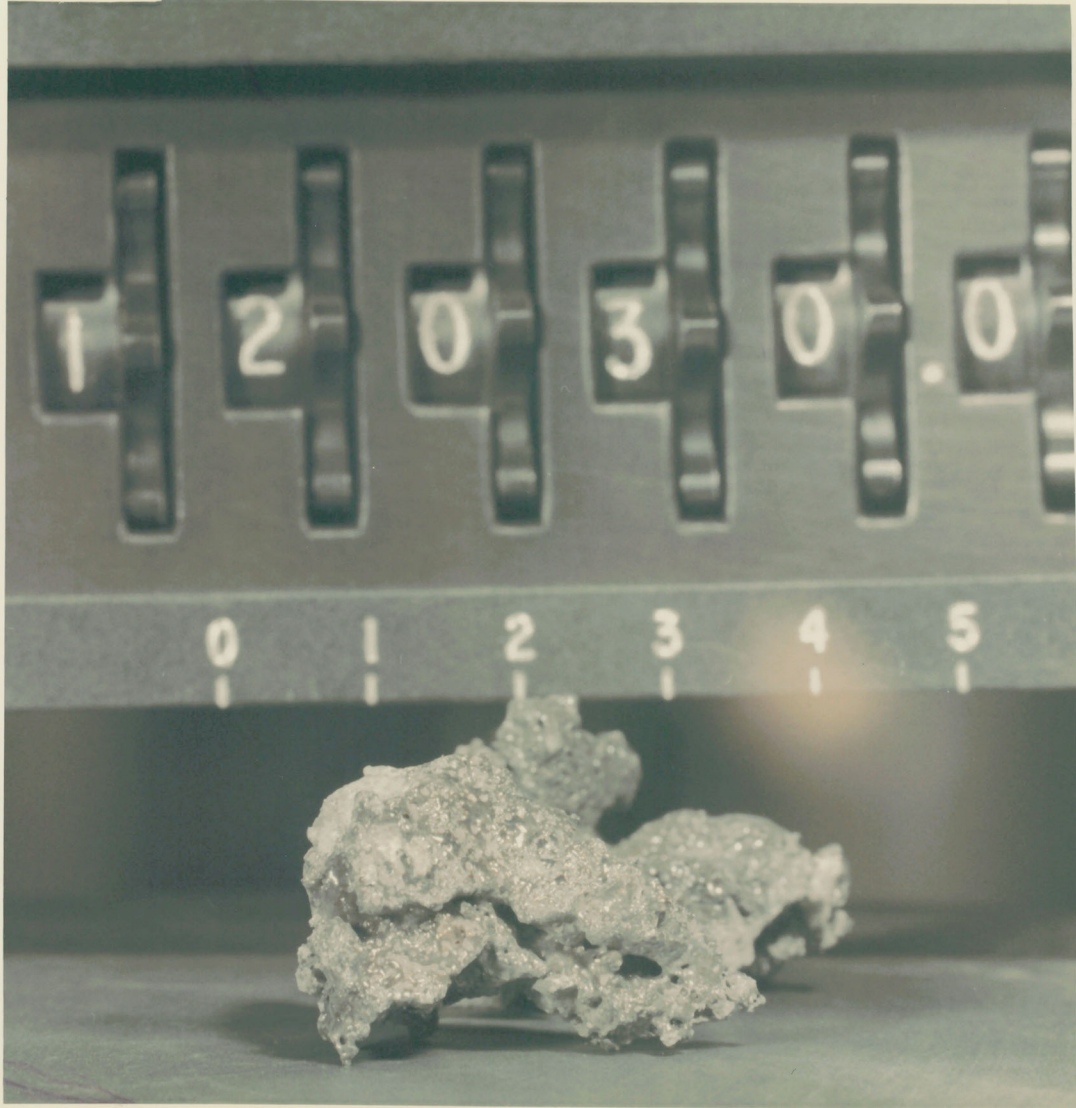
MAY 1970

S-70-40349

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 MOON SAMPLE-----A close-up view of a slice from lunar sample number 12013 which was brought back from the Moon by the Apollo 12 crewmen. This rock has been found to be chemically unique, and possesses the highest concentration of naturally radioactive elements yet observed. The 83 gram specimen 12013 was recognized as an unusual specimen during preliminary examination at the Manned Spacecraft Center's Lunar Receiving Laboratory. Its uranium, thorium, and potassium concentration is more than 20 times that of any other lunar rock. The first analysis indicates that the rock has an apparent age of 4.6 billion years. This is clearly the oldest rock yet found on the Moon. Note the heterogenous texture of this sample as depicted by the various color regions. This texture indicates that rock 12013 has had a complicated history.

NASA
8-09-84185



Moon Rocks

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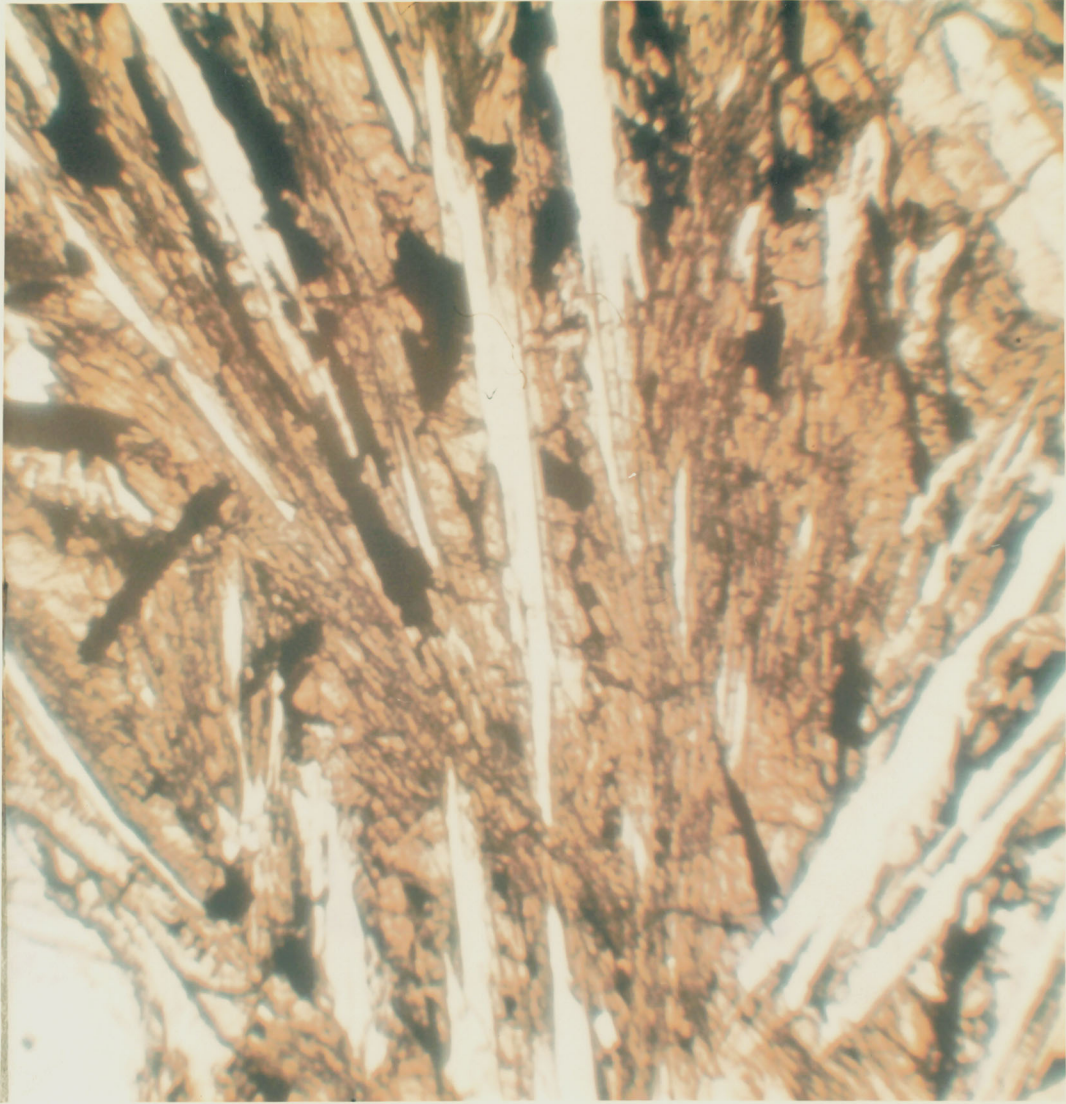
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DEC 1969

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 LUNAR SAMPLE--A close-up view of Apollo 12 lunar sample No. 12030, under scientific examination in the Lunar Receiving Laboratory at Manned Spacecraft Center. The sample, consisting of chips and fines, was collected by Astronaut Alan L. Bean in a small crater, about one meter across. The sample is tightly compacted; and, as can be observed in this view, it is heavily coated with glass. The surface contains several pits which can be seen here. Unlike the bulk of the Apollo 12 samples, this one is a breccia. Astronauts Charles Conrad Jr. and Bean descended in the Apollo 12 Lunar Module to explore the Moon, collect lunar material samples, etc., while Astronaut Richard F. Gordon Jr. remained with the Command and Service Modules in lunar orbit.

NASA
S-60-63439



Moon Rocks

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DEC 1969

S-69-63439

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 LUNAR SAMPLE--An enlarged view of a thin section of one of the rocks brought back to Earth by the crew of the Apollo 12 lunar landing mission, showing the rock's mineralogy. This photograph reveals a sub-parallel arrangement of plagioclase within pyroxene grains (brown). According to scientists examining the rock, such an arrangement is relatively common in volcanic rocks and may indicate flow or movement during crystallization process.

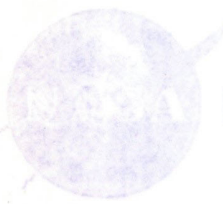
NASA
S-70-27030



Fred W. Haise

- Astronaut

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B&W

NOV 1969

S-70-27030

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 MGC ACTIVITY--Astronauts Fred W. Haise Jr. (left) and James A. Lovell Jr. record data while viewing activity of the Apollo 12 mission at a console in the Mission Operations Control Room (MOCR), Mission Control Center, at Manned Spacecraft Center. Lovell was earlier named as prime crew commander of the upcoming Apollo 13 lunar landing mission, and Haise was named prime crew lunar module pilot. The two closely observed the activity of Apollo 12.

THU NOV 10 1969

NASA file photo

Fred Haise, left, and Jim Lovell chart Apollo 12's flight in Mission Control before making their own lunar voyage.

NASA
S-69-537-7

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1969

S-69-53717

NORTH AMERICAN ROCKWELL CORPORATION, DOWNEY, CALIF.

APOLLO 12 CHECKOUT-----The prime crew of the Apollo 12 lunar landing mission is photographed during spacecraft checkout activity at North American Rockwell Space Division at Downey, Calif. Left to right, are Astronauts Charles Conrad Jr., commander; Richard F. Gordon Jr., command module pilot; and Alan L. Bean, lunar module pilot.

Charles Conrad

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APOLLO
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APOLLO 12 CREW SLATED FOR QUARANTINE, TOO
From Left, Astronauts Charles Conrad, Richard Gordon and Alan Bean
NASA Photo

NASA
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S-69-53714

NORTH AMERICAN ROCKWELL CORPORATION, DOWNEY, CALIF.

APOLLO 12 CHECKOUT-----The prime crew of the Apollo 12 lunar landing mission is photographed during spacecraft checkout activity at North American Rockwell Space Division at Downey, Calif. Left to right, are Astronauts Charles Conrad Jr., commander; Richard F. Gordon Jr., command module pilot; and Alan L. Bean, lunar module pilot.

Charles Conrad Jr.

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*NO STAIR
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Conrad*

WED NOV 19 1969
ASTRONAUTS CHARLES CONRAD JR., RICHARD GORDON JR., AND ALAN L. BEAN
Apollo 12 Crew Were in Happy Frame of Mind as They Poised for Flight

NASA
8-69-59104





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18 NOV 1969

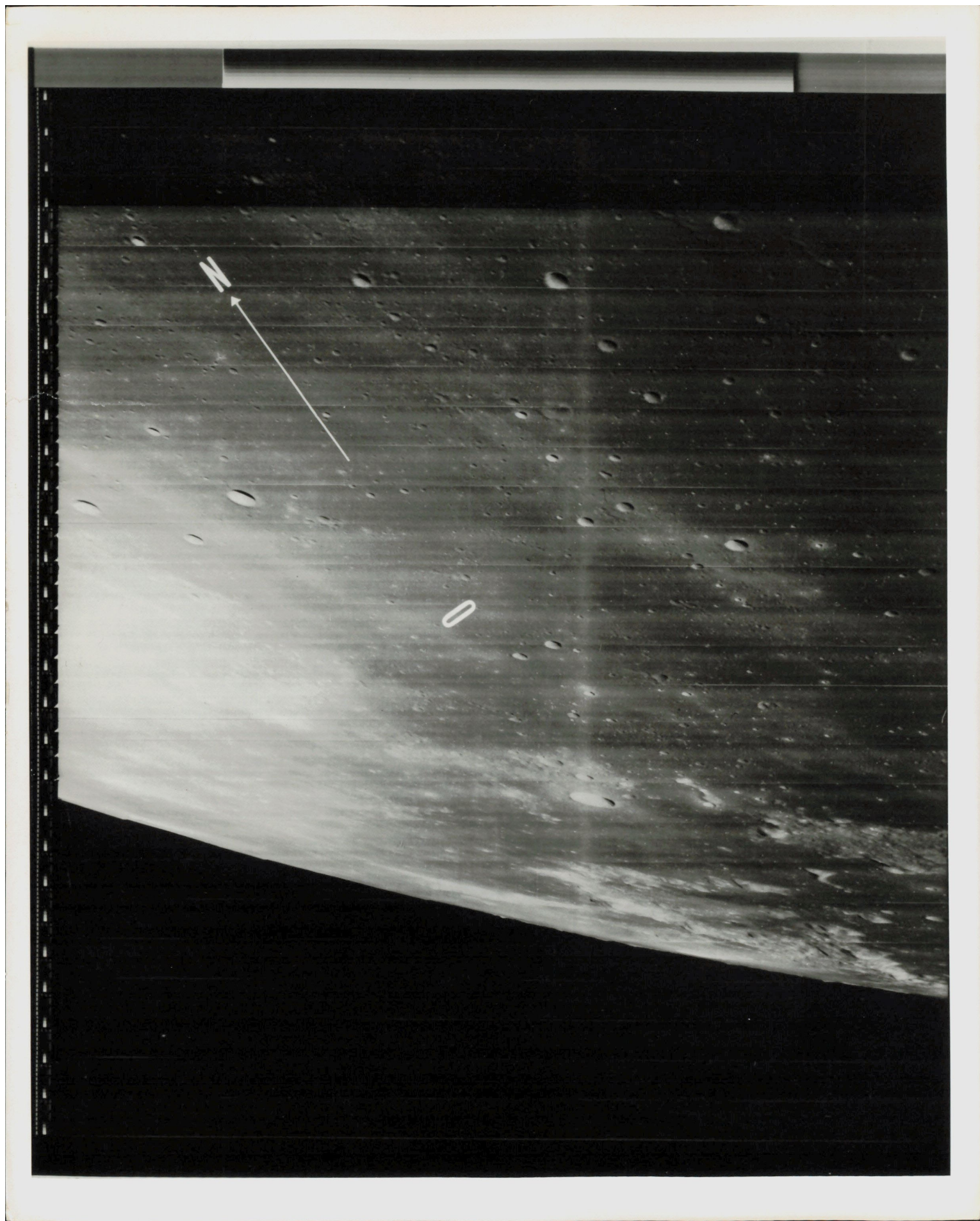
S-69-59104

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 MCC---Activity in Mission Control Center at Manned Spacecraft Center during the Apollo 12 lunar landing mission, Nov. 18, 1969, the day of two periods of extravehicular activity involving two members of the crew--Astronauts Charles Conrad Jr., commander, and Alan L. Bean, lunar module pilot. Astronaut Alfred M. Worden (left), a Shift 2 spacecraft communicator and also the back-up crew command module pilot for the Apollo 12 mission, picks up audio from the mission activity and views monitor for video. Two members of the upcoming Apollo 13 mission are also pictured as they stay atune to the mission's activities. They are Astronauts James A. Lovell Jr. (right), Apollo 13 prime crew commander, and Fred W. Haise Jr., prime crew lunar module pilot. View-monitors are located at the extreme right of the photograph.

James A. Lovell Jr.

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NASA-Apollo 12

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

WASHINGTON, D. C. 20546



FOR RELEASE: Filed September 22, 1969

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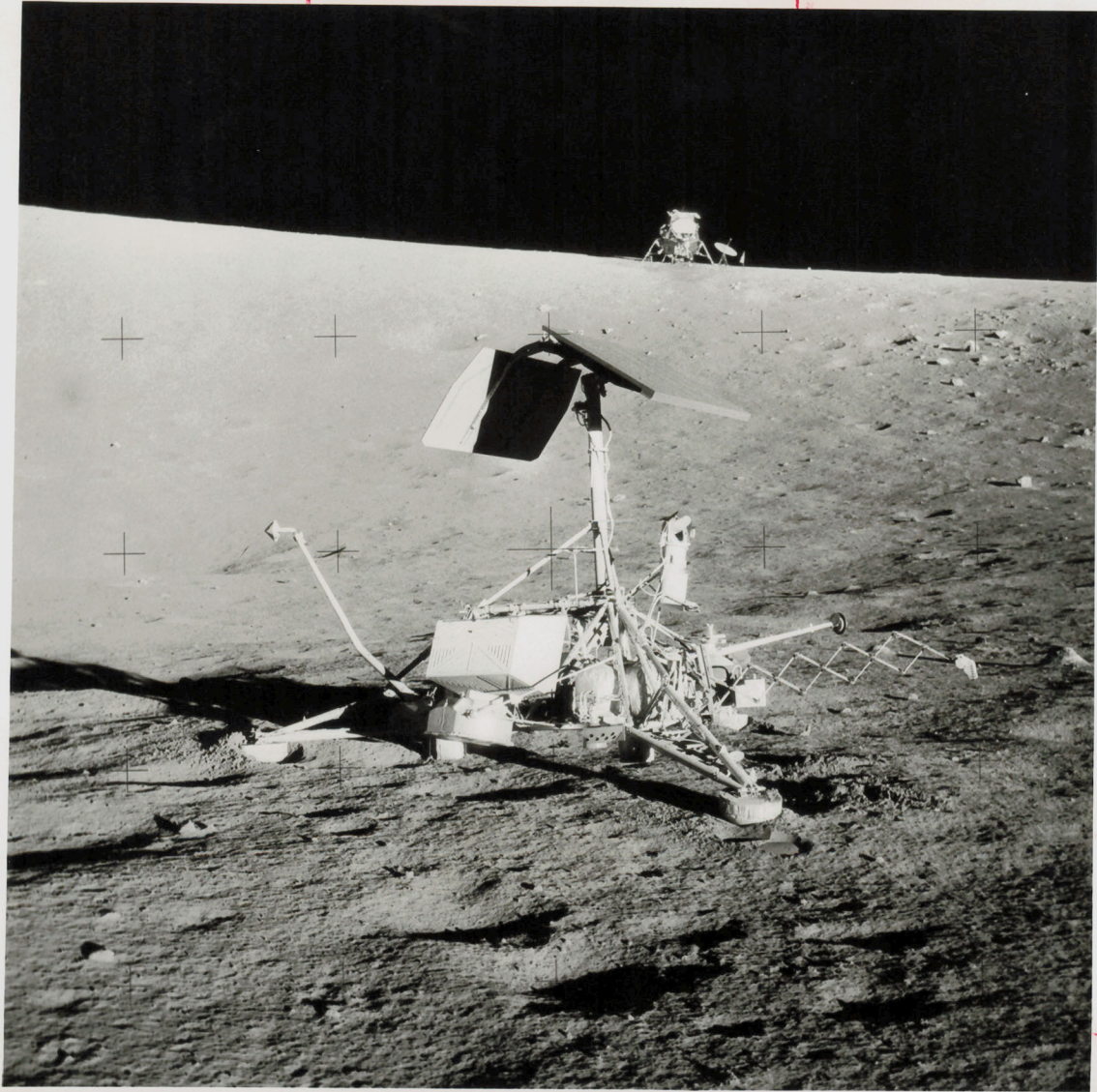
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APOLLO 12 PRIME LANDING AREA -- This photo taken by Lunar Orbiter III shows planning activities for Apollo 12 lunar landing 1000 feet East and 500 feet North of Surveyor III. The landing ellipse is 7.2 nautical miles x 2.6 nautical miles. The coordinates of the ellipse center are latitude $2^{\circ}56'33''$ south (2.943°), longitude $23^{\circ}26'36''$ west (23.443°); and the elevation is 1,735,900 meters. The coordinates of Surveyor III are latitude $2^{\circ}57'10''$ South (2.953°), $23^{\circ}27'10''$ west (23.453°).

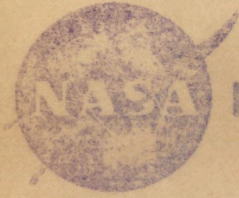


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AS12-48-7099



NASA. Apollo 12



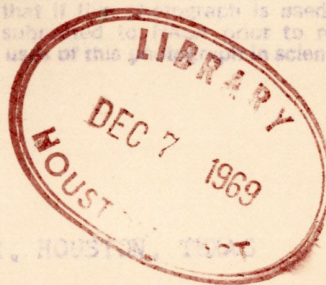
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20 NOV 1969

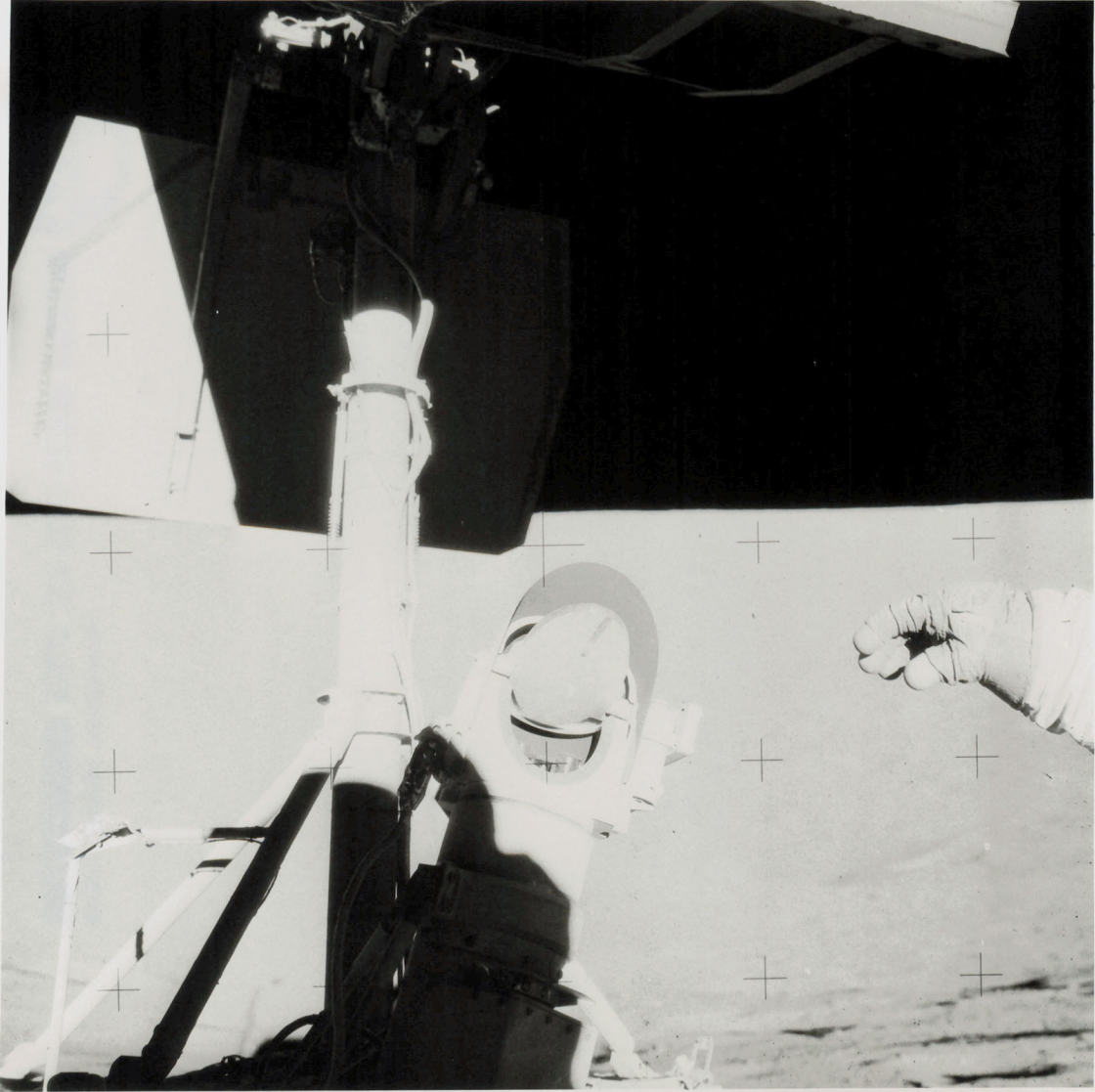
AS12-48-7099

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 EVA--This unusual photograph, taken during the second Apollo 12 extravehicular activity (EVA-2), shows two U.S. spacecraft on the surface of the Moon. The Apollo 12 Lunar Module is in the background. The unmanned Surveyor III spacecraft is in the foreground. The Apollo 12 LM, with Astronauts Charles Conrad Jr. and Alan B. Bean aboard, landed about 600 feet from Surveyor III in the Ocean of Storms. The television camera and several other pieces were taken from Surveyor III and brought back to Earth for scientific examination. Astronaut Richard F. Gordon Jr. remained with the Apollo 12 Command and Service Modules in lunar orbit while Conrad and Bean descended in the LM to explore the Moon. Surveyor III soft-landed on the Moon on April 19, 1967.

L 12

NASA
AS12-48-7132





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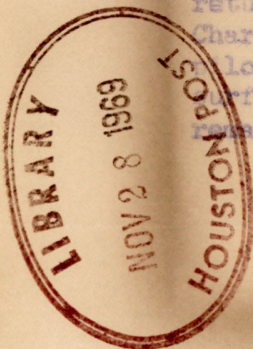
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20 NOV 1969

AS12-43-7132

MAINED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 EVA -- This view of the upper portion of the Surveyor III spacecraft was photographed by one of the two Apollo 12 crewmen during the second extravehicular activity on 20 November 1969. The Surveyor TV camera can be seen prior to its being removed from the spacecraft and returned to the Lunar Module for return to earth. Astronauts Charles Conrad Jr., commander, and Alan L. Bean, lunar module pilot, descended in the Lunar Module to explore the lunar surface. Astronaut Richard F. Gordon Jr., command module pilot, remained with the Command and Service Modules in lunar orbit.



NASA-Apollo 12

AS12-48-7034





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19-20 NOV 1969

AS12-43-7034

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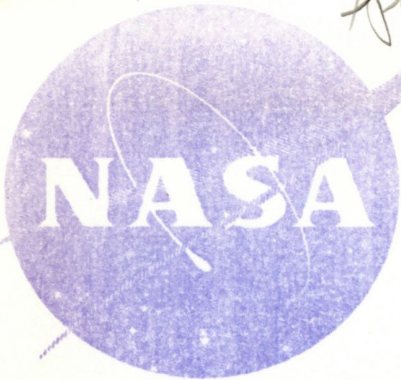
APOLLO 12 EVA -- A close-up view of a portion of the descent stage of the Apollo 12 lunar module, photographed during the Apollo 12 extravehicular activity. At upper right is the empty RTG fuel cask. The fuel capsule has already been removed and placed in the Radioisotope Thermoelectric Generator. The RTG furnishes power for the Apollo Lunar Surface Experiments Package which the Apollo 12 astronauts deployed on the Moon. The LM's descent engine is in the center background. Astronaut Richard F. Gordon Jr., remained with the Apollo 12 Command and Service Modules in lunar orbit while Astronauts Charles Conrad Jr., commander, and Alan L. Bean descended in the LM to explore the Moon.



NASA - Apollo 12



Space flight



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FOR RELEASE: November 26, 1969
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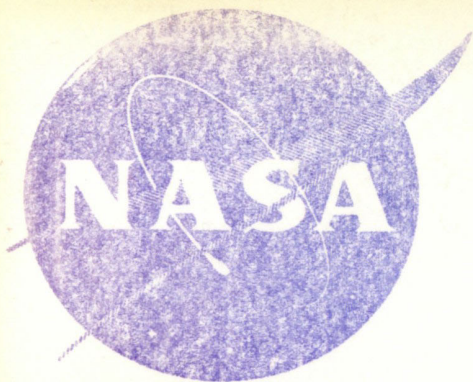
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ABOARD THE USS HORNET -- Apollo 12 Astronaut Alan Bean takes part in lunar de-briefing aboard the Hornet.

B

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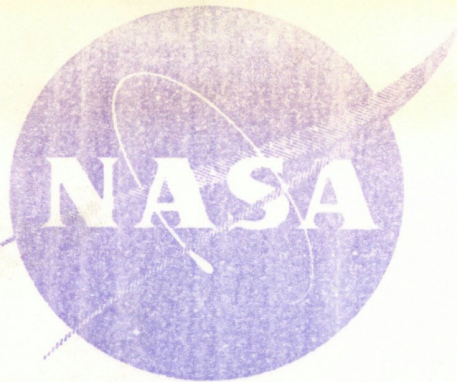
RUSSIAN SCIENTIST AT MSC -- Academician Alexander Vinogradov, left, examines a lunar rock collected on the Apollo 12 mission, during a visit to Houston and the Manned Spacecraft Center. Assisting the visitor is Dr. Michael B. Duke, center, curator in the Lunar and Earth Sciences Division of the Science and Applications Directorate at MSC. Dr. Robert R. Gilruth, MSC Director is at right. The Russian scientist presented a paper at the Lunar Science Conference January 11-14.

Moon Rocks

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TRAINED SPACECRAFT CENTER, HOUSTON, Texas -- Apollo 12 Astronauts Charles Conrad, Jr., Richard Gordon and Alan L. Bean and a team of Navy Frogmen undergo egress training with a dummy spacecraft in the Gulf of Mexico off Galveston, Texas. Apollo 12 mission is scheduled for launching Nov. 14, 1969 from Complex 39 Kennedy Space Center, Fla.

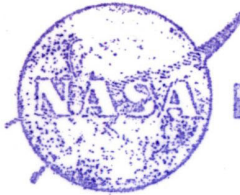
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NASA
AS12-57-8455



MOON



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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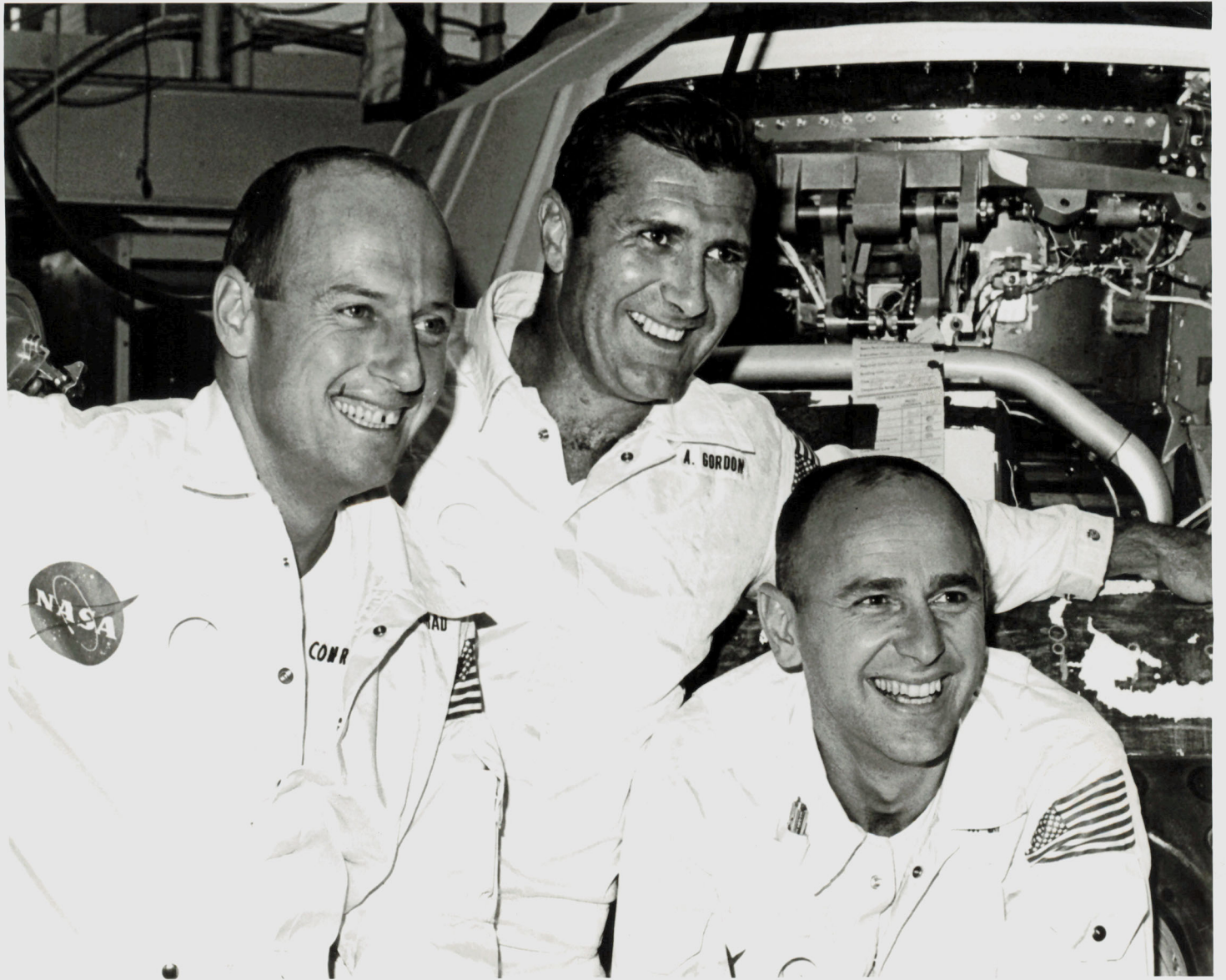
AS12-57-8455

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 STEREO CLOSE-UP VIEW--An Apollo 12 stereo view showing a three-inch square area of the lunar surface. The exposure was made with an Apollo 35mm stereo close-up camera during extravehicular activity of the Apollo 12 lunar landing mission. The camera was developed to get the highest possible resolution of a small area. The three-inch square is photographed with a flash illumination and at a fixed distance. The camera is mounted on a walking stick, and the astronauts use it by holding it up against the object to be photographed and pulling the trigger. Astronauts Charles Conrad Jr., commander, and Alan L. Bean, lunar module pilot, descended in the Apollo 12 Lunar Module to explore the Moon while Astronaut Richard F. Gordon Jr. remained with the Command and Service Modules in lunar orbit in the capacity of command module pilot.

FRI JUL 11 1980

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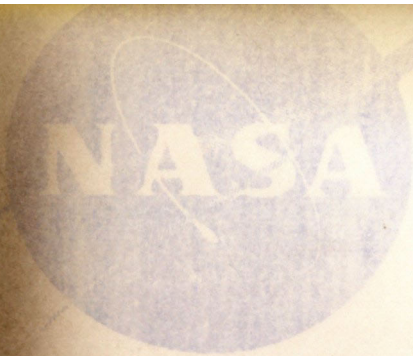
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WASHINGTON -- Apollo 12 Astronauts (L-R) Charles Conrad, Jr., Commander, Richard F. Gordon, Command Module Pilot and Alan L. Bean, Lunar Module Pilot during spacecraft checkout at North American Rockwell Space Division, Downey, Calif. The Apollo 12 mission is scheduled for launching Nov. 14, 1969 from Kennedy Space Center, Fla.

NOV 5 1969





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FOR RELEASE: September 22, 1969
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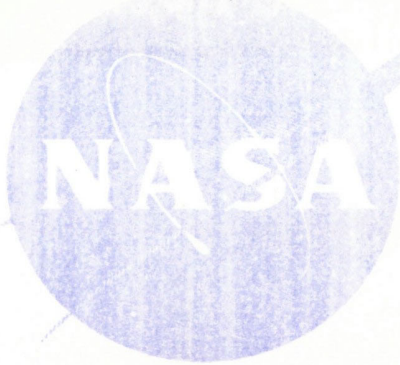
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IMPRESO SPACECRAFT CENTER, HOUSTON, Texas -- Apollo 12 Astronauts Charles Conrad, Jr., Richard Gordon and Alan L. Bean and a team of Navy Frogmen undergo egress training with a dummy spacecraft in the Gulf of Mexico off Galveston, Texas. Apollo 12 mission is scheduled for launching Nov. 14, 1969 from Complex 39 Kennedy Space Center, Fla.



SPACE TRAVEL - APOLLO 12



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FOR RELEASE: September 22, 1969
PHOTO NO. 69-B-1370

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MANNED SPACECRAFT CENTER, HOUSTON, Texas -- Apollo 12 Astronauts Charles Conrad, Jr., Richard Gordon and Alan L. Bean and a team of Navy Frogmen undergo egress training with a dummy spacecraft in the Gulf of Mexico off Galveston, Texas. Apollo 12 mission is scheduled for launching Nov. 14, 1969 from Complex 39 Kennedy Space Center, Fla.

NOV 16 1969

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APOLLO 12

NOVEMBER 1969

Charles Conrad

CHARLES CONRAD, JR.
ASTRONAUT

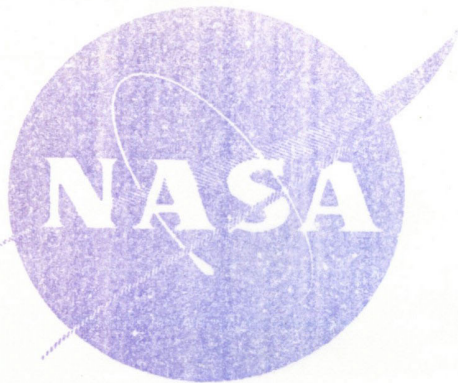
Richard F. Gordon, Jr.

RICHARD F. GORDON, JR.
ASTRONAUT

Alan L. Bean

ALAN L. BEAN
ASTRONAUT

A 819 Moon



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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FOR RELEASE: November 6, 1969
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69-HC-1125

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 12 MOON PLAQUE--Close-up view of a replica of the plaque which the Apollo 12 astronauts will leave on the Moon in commemoration of their flight. The plaque will be attached to the ladder on the landing gear strut on the descent stage of the Apollo 12 Lunar Module. Apollo 12 will be the United States' second lunar landing mission.

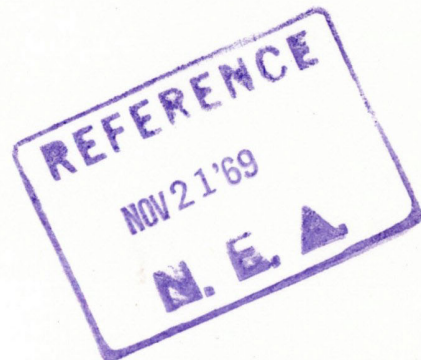


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Apollo 13

Houston, Texas 77508

National Aeronautics and
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B & W

14 APRIL 1970

S70-34986

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 MCC---A group of eight astronauts and flight controllers monitor the console activity in the Mission Operations Control room of the Mission Control Center during the problem-plagued Apollo 13 lunar landing mission. Seated, left to right, are MOCR Guidance Officer Raymond F. Teague; Astronaut Edgar D. Mitchell, Apollo 14 prime crew lunar module pilot; and Astronaut Alan B. Shepard Jr., Apollo 14 prime crew commander. Standing, left to right, are Scientist-Astronaut Anthony W. England; Astronaut Joe H. Engle, Apollo 14 backup crew lunar module pilot; Astronaut Eugene A. Cernan, Apollo 14 backup crew commander; Astronaut Ronald E. Evans, Apollo 14 backup crew command module pilot; and M. P. Frank, a flight controller. When this picture was made, the Apollo 13 moon landing had already been cancelled, and the Apollo 13 crewmen were in transearth trajectory attempting to bring their crippled spacecraft back home.

pg.19

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S-69-25200





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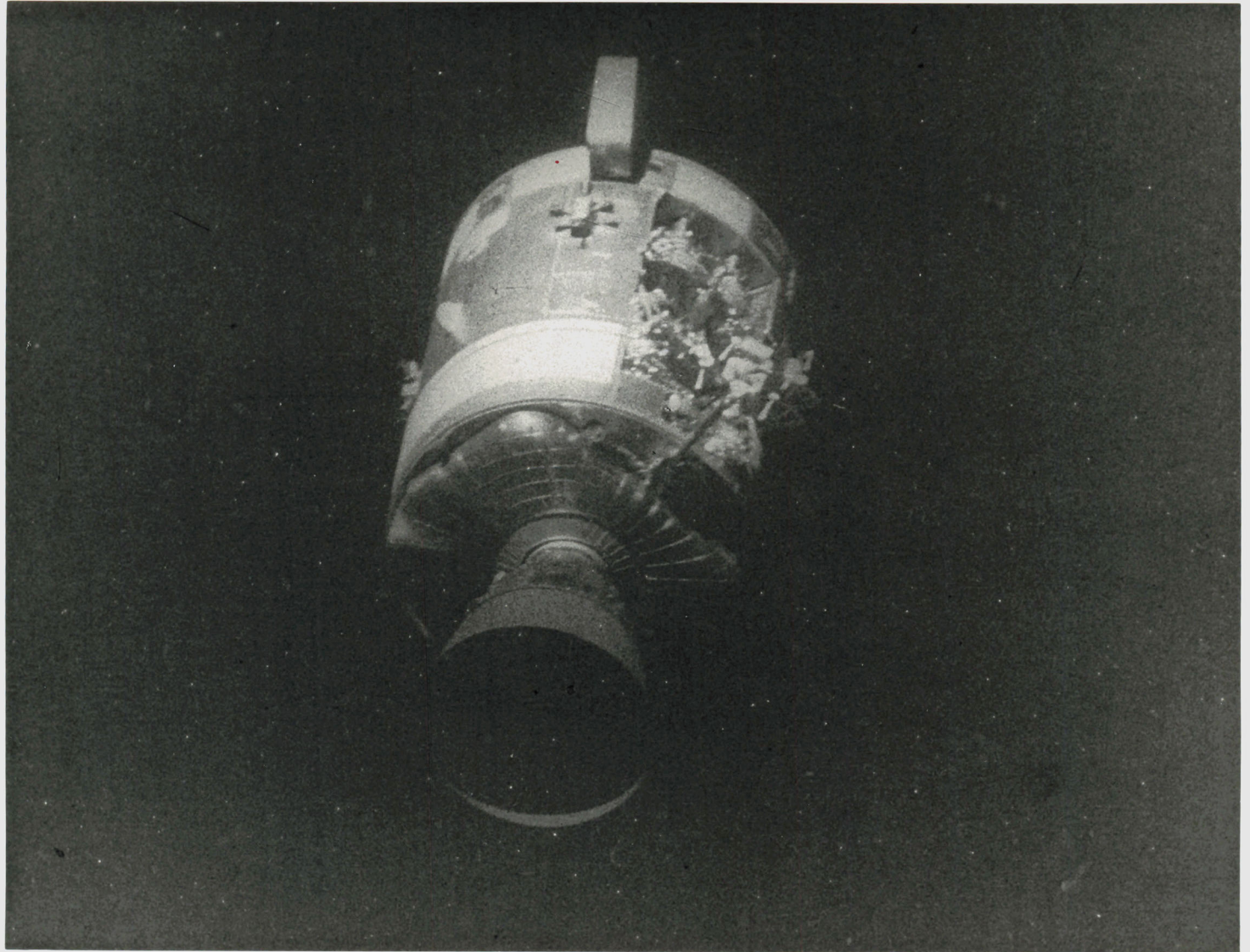
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S-69-25200

HUDSPETH COUNTY, TEXAS

APOLLO 13 TRAINING---Astronauts James A. Lovell Jr. (on left) and Fred W. Haise Jr., two members of the Apollo 13 lunar landing mission, look over terrain features during a geological field trip to the Quitman Mountains area near Fort Quitman ruins in far west Texas. Lovell is the Apollo 13 commander; and Haise is the lunar module pilot.

APOLLO 13
- 5 -
LUNAR MODULE FILES





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17 APRIL 1970

AS13-59-8500

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

File:

APOLLO 13 VIEW OF DAMAGED SM---This view of the severely damaged Apollo 13 Service Module was photographed from the Lunar Module/Command Module following SM jettisoning. As seen here, an entire panel on the SM was blown away by the apparent explosion of oxygen tank number two located in Sector 4 of the SM. Two of the three fuel cells are visible just forward (above) the heavily damaged area. Three fuel cells, two oxygen tanks, and two hydrogen tanks are located in Sector 4. The damaged area is located above the S-band high gain antenna. Nearest the camera is the Service Propulsion System (SPS) engine and nozzle. The damage to the SM caused the Apollo 13 crewmen to use the Lunar Module as a "lifeboat." The LM was jettisoned just prior to Earth re-entry by the CM.

pg.6

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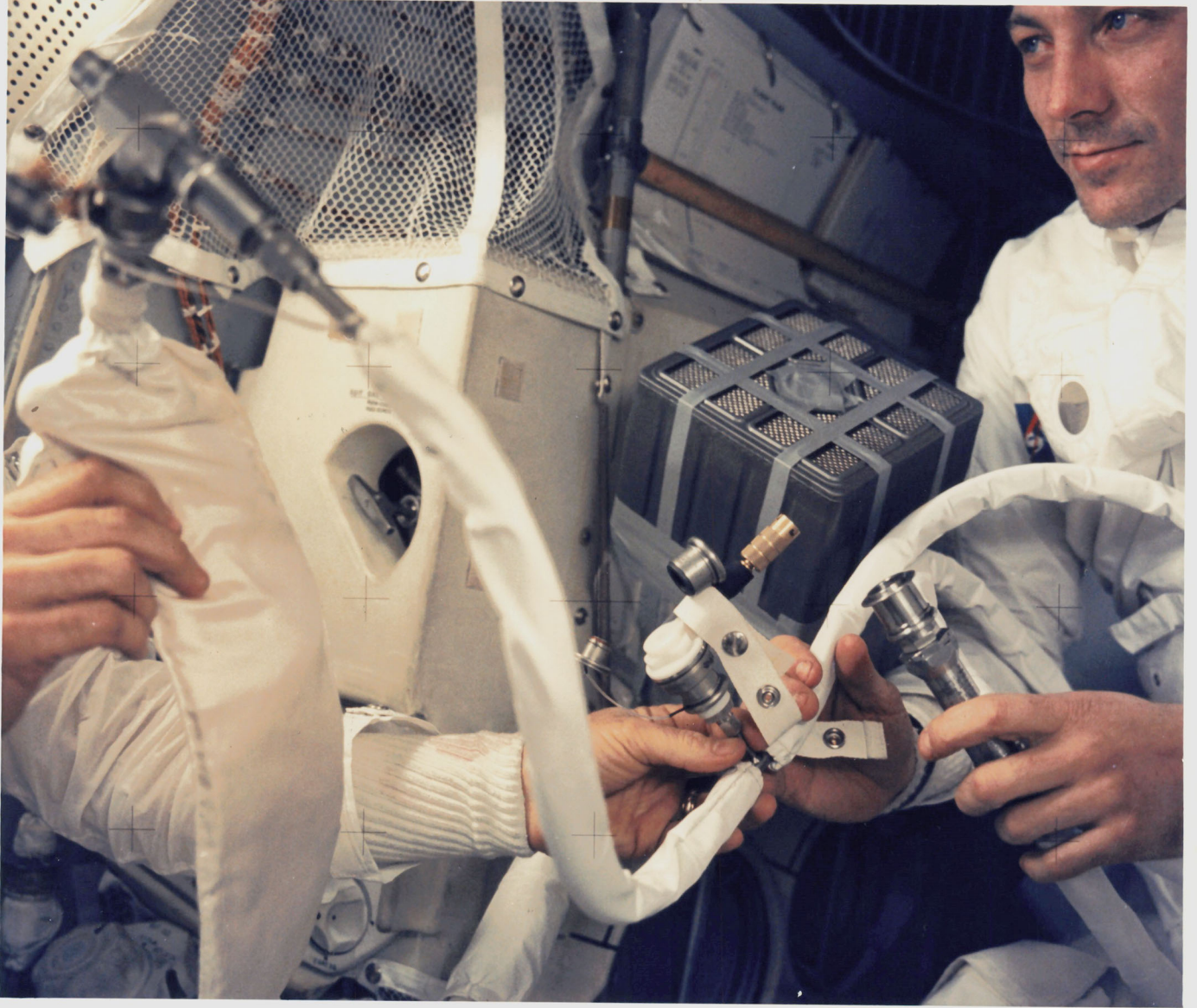
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Apollo 13



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APRIL 1970

AS13-62-9004

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 ONBOARD VIEW --- An interior view of the Apollo 13 Lunar Module (LM) during the trouble-plagued journey back to Earth. This photograph shows some of the temporary hose connections and apparatus which were necessary when the three Apollo astronauts moved from the Command Module (CM) to use the LM as a "lifeboat". Astronaut John L. Swigert Jr., command module pilot, is on the right. An unidentified astronaut on the left holds in his right hand the feed water bag from the Portable Life Support System (PLSS). It is connected to a hose (in center) from the Lunar Topographic (Hycon) Camera. In the background is the "mail box," a jury-rigged arrangement which the crew men built to use the Command Module (CM) lithium hydroxide canisters to used to scrub CO2 from the spacecraft's atmosphere. Since there was a limited amount of lithium hydroxide in the LM, this arrangement was rigged up to utilize the canisters from the CM. The "mail box" was designed and tested on the ground at the Manned Spacecraft Center (MSC) before it was suggested to the Apollo 13 astronauts. An explosion of an oxygen tank in the Service Module (SM) caused the cancellation of the scheduled Moon landing, and made the return home a hazardous journey for astronauts Swigert, James A. Lovell Jr., and Fred W. Haise Jr.

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NASA photo

Interior photo of Lunar Module shows hose connections and apparatus necessary to turn LM into a "lifeboat."

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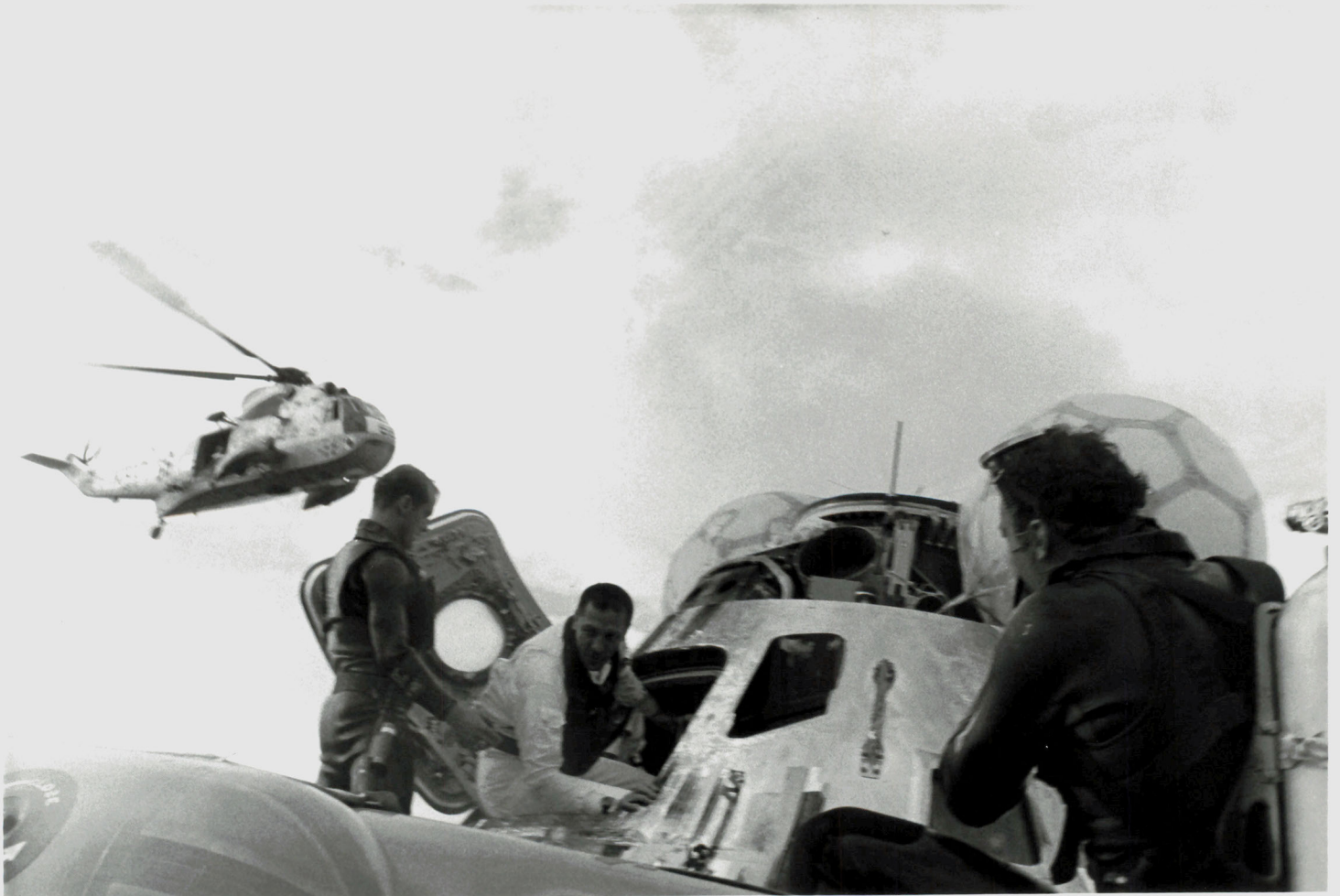
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Apollo 13

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Apollo 13

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17 APRIL 1970

870-35605

RECOVERY AREA, SOUTH PACIFIC OCEAN

APOLLO 13 RECOVERY -- A water level view of the Apollo 13 recovery operations in the South Pacific. Astronaut John L. Swigert Jr., command module pilot, is egressing the spacecraft. Astronauts James A. Lovell Jr., commander, and Fred W. Haise Jr., lunar module pilot, are still inside the spacecraft. A U.S. Navy Underwater demolition team assists with the recovery operations. The three crewmen were picked up by helicopter and flown to the prime recovery ship, USS Iwo Jima. The Apollo 13 Command Module splashed down at 12:07:44 p.m. (CST), April 17, 1970, to conclude safely a perilous space flight. Though the Apollo 13 moon landing was cancelled, a disastrous loss of three astronauts was averted.

pg.13-2

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Apollo 13



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14 APRIL 1970

S70-34900

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 MCC -- Mrs. Mary Haise receives an explanation of the revised flight plan of the Apollo 13 mission from Astronaut Gerald P. Carr in the briefing room of mission control center, Bldg. 30. Her husband, Astronaut Fred W. Haise Jr., lunar module pilot for the Apollo 13 mission, was joining fellow crew members, Astronauts James A. Lovell Jr., and John L. Swigert Jr. in making correction in their spacecraft following discovery of an oxygen cell failure several hours earlier.

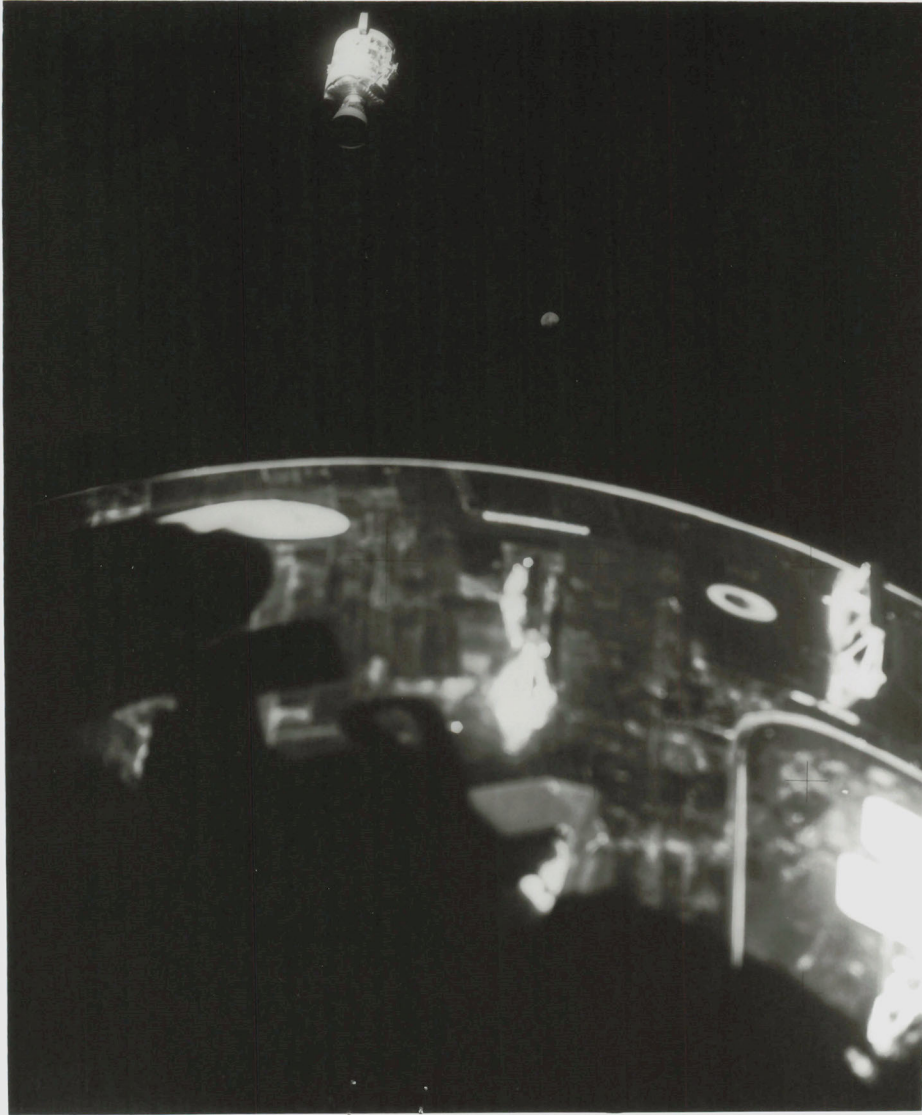
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Apollo 13



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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 VIEW OF DAMAGED SM---This view of the severely damaged Apollo 13 Service Module, with the Moon in the distant background, was photographed from the Lunar Module following SM jettisoning. The Command Module, still docked with the LM, is in the foreground. An entire panel on the SM was blown away by the apparent explosion of oxygen tank number two located in Sector 4 of the SM. Three fuel cells, two oxygen tanks, and two hydrogen tanks are located in Sector 4. The damaged area is forward (above) the S-Band high gain antenna. The damage to the SM caused the Apollo 13 crewmen to use the Lunar Module as a "lifeboat." The LM was jettisoned just prior to Earth reentry by the CM.

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Project Apollo 13



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14 MARCH 1970

S-70-30835

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 NEWS CONFERENCE----The prime crew of the Apollo 13 lunar landing mission poses for photographers at the Apollo 13 pre-flight press conference held on March 14, 1970, in the Manned Spacecraft Center auditorium. Left to right, are Astronauts James A. Lovell Jr., commander; Thomas K. Mattingly II, command module pilot; and Fred W. Haise Jr., lunar module pilot. They are displaying the Apollo 13 emblem.

NASA
S-70-35148





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17 APRIL 1970

S-70-35148

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

File:

APOLLO 13 MCC--Dr. Thomas O. Paine (center), Administrator, National Aeronautics and Space Administration, and other NASA officials joined millions of Americans and persons over the world in applauding the successful splashdown of the Apollo 13 crewmen. Others among the large crowd of persons in the Mission Operations Control Room of the Mission Control Center, MSC, at the time of recovery were U.S. Air Force Lt. Gen. Samuel C. Phillips (extreme left), who formerly served as Apollo Program Director, Office of Manned Space Flight, NASA Headquarters; Dr. Charles A. Berry (third from left), Director, Medical Research and Operations Directorate, MSC; and Dr. George M. Low, Associate Administrator, NASA.

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25 FEB 1969

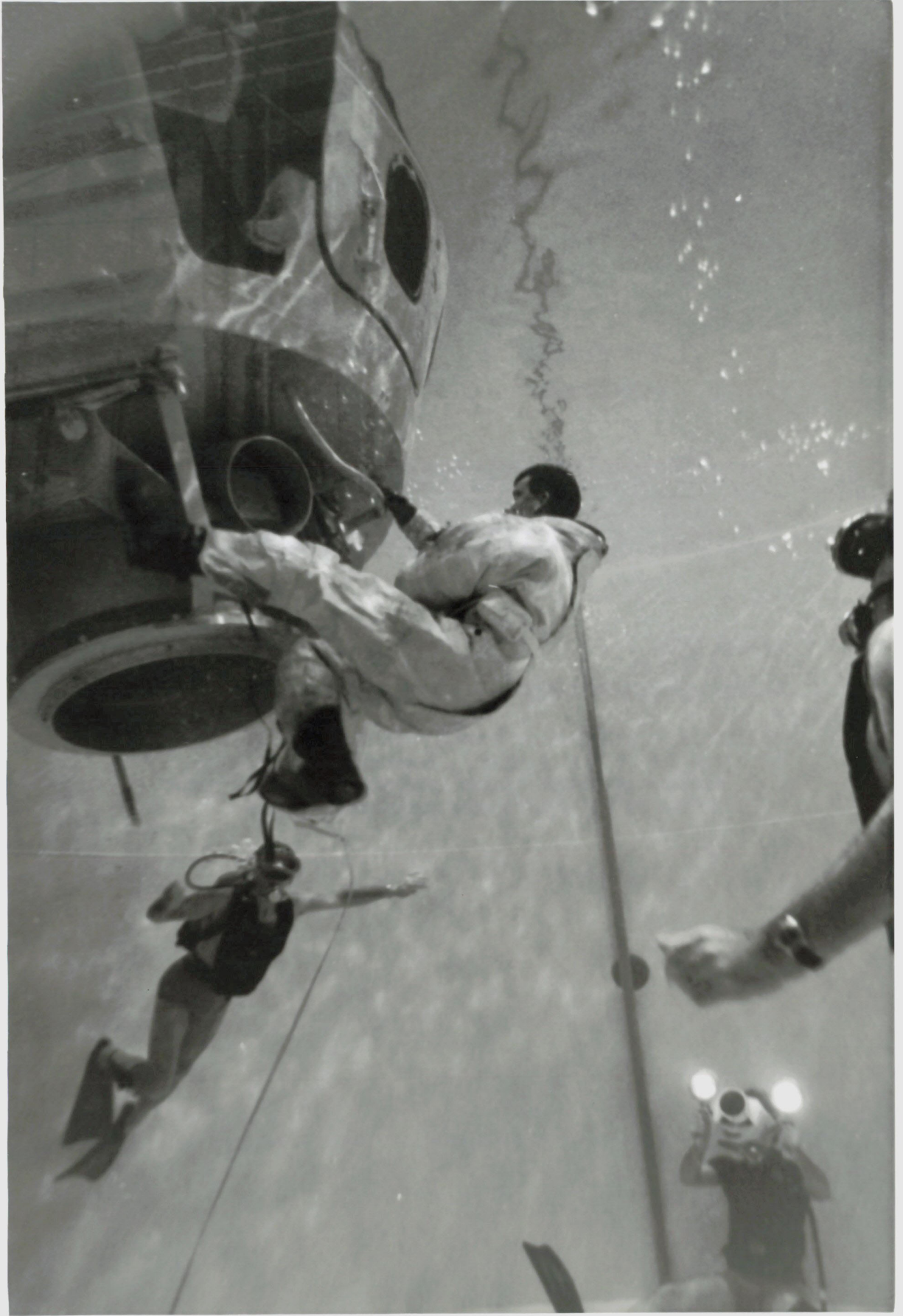
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HUDSPETH COUNTY, TEXAS

APOLLO 13 TRAINING---Astronauts James A. Lovell Jr. (on left) and Fred W. Haise Jr., two members of the Apollo 13 lunar landing mission, examine rock samples during a geological field trip to the Quitman Mountains area near the Fort Quitman ruins in far west Texas. Lovell is the Apollo 13 commander; and Haise is the lunar module pilot.

James A. Lovell Jr.

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17 JAN 1970

S-70-24015

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 TRAINING---Astronaut Fred W. Haise Jr., lunar
module pilot of the Apollo 13 lunar landing mission,
participates in water egress training in a water tank
in Building 260 at the Manned Spacecraft Center.

NASA
S-70-20041





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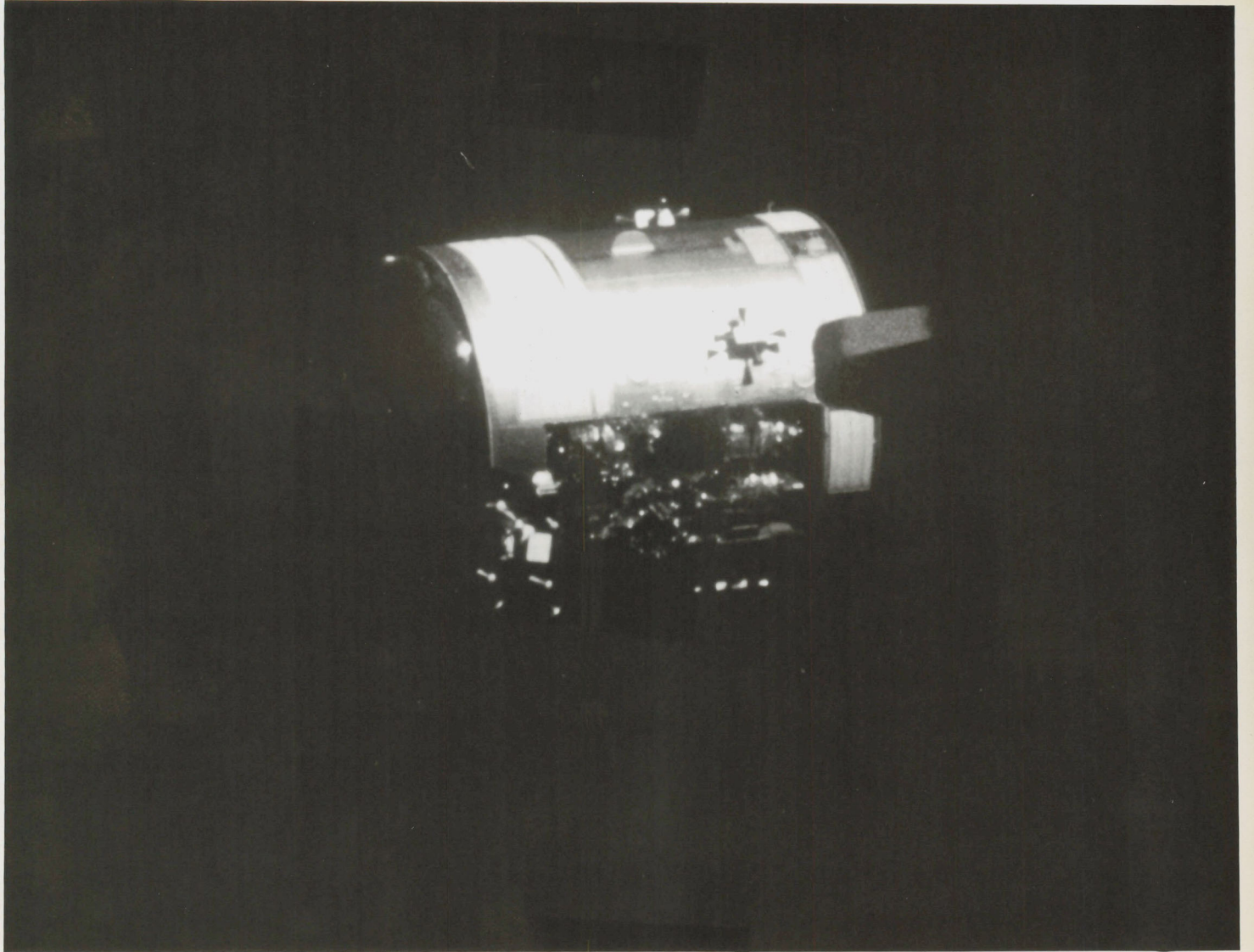
S-70-20041

KAPCHO, HAWAII

APOLLO 13 TRAINING-----Astronauts James A. Lovell Jr. (right) and Fred W. Haise Jr., Apollo 13 commander and lunar module pilot, respectively, carry out a simulation of a lunar traverse at the Kapcho, Hawaii, training site. Both crew members were carrying lunar surface cameras and communications equipment during this and other simulated traverses. The two maintained contact with men in the roles of spacecraft communicators throughout the traverse. Lovell holds a scoop from the Apollo Lunar Hand Tools (ALHT) set. The gnomon, also from the ALHT set, has been deployed between the two astronauts.

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NASA - Apollo 13



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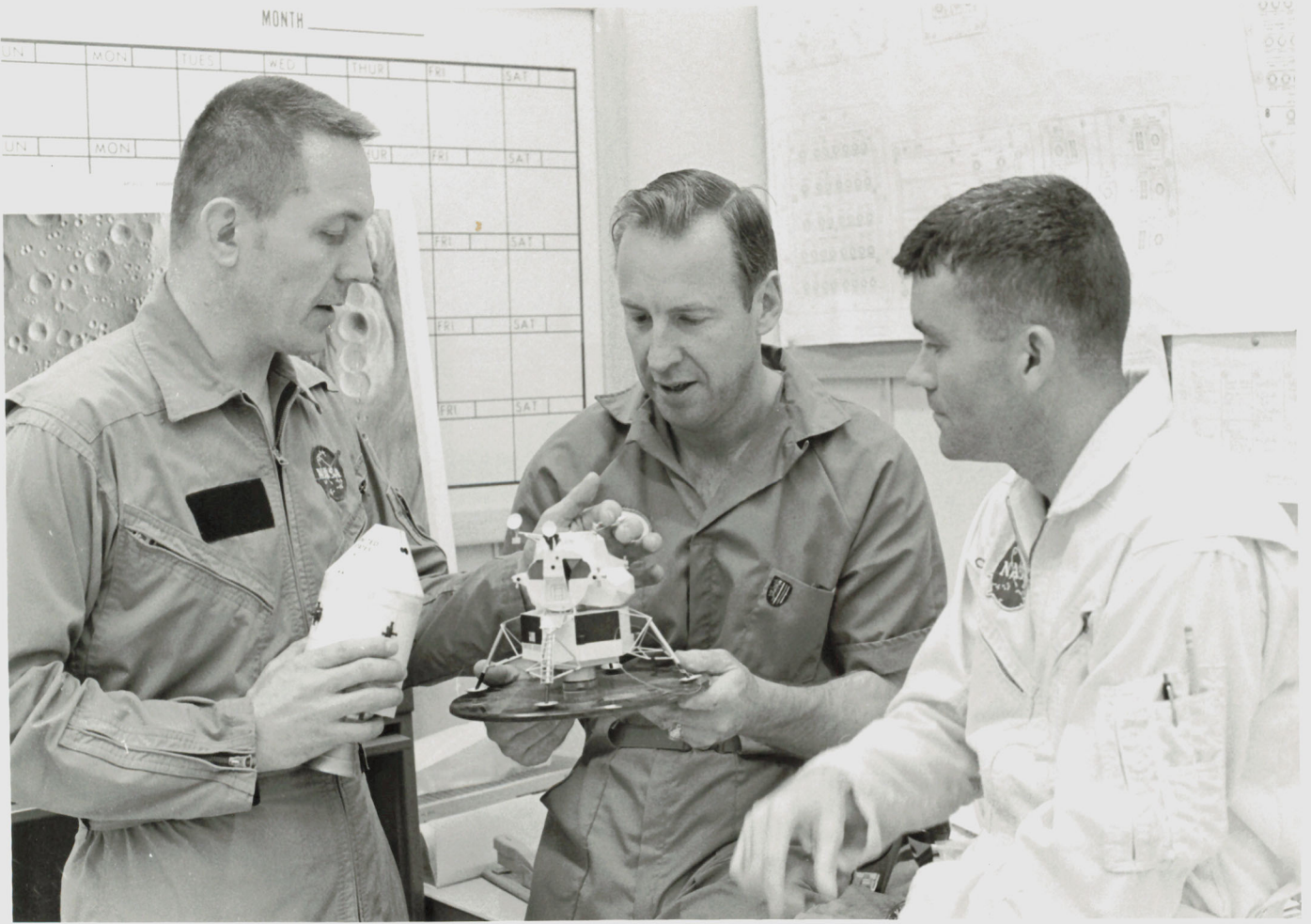
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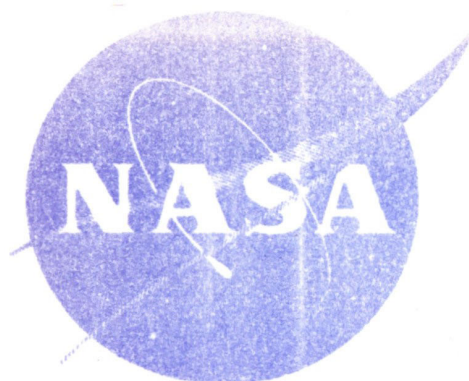
COLOR

17 APRIL 1970

MANNEED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 -- This view of the severely damaged Apollo 13 Service Module was photographed from the Command Module just after CM/SM separation prior to earth reentry. An entire SM panel was blown away by the apparent explosion of oxygen tank number two. Two of the three fuel cells are visible at the forward portion of the opening. The hydrogen tanks can be seen below the heavily damaged area. The fuel cells, oxygen and hydrogen tanks are located in Sector 4 of the Apollo 13 Service Module. The apparent rupture of the oxygen tank caused the Apollo 13 crewmen to use the Lunar Module as a "lifeboat."





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KENNEDY SPACE CENTER, Fla. -- John L. Swigert, Jr., left, the Apollo 13 backup crewman being considered as command module pilot in place of Thomas K. Mattingly II because of the latter's exposure to measles, refers to spacecraft models during training exercise with James A. Lovell, Jr., center, mission commander, and Fred W. Haise, Jr., lunar module pilot. Swigert is holding a model of the mated command and service modules, Lovell, the lunar module. Apollo 13 will be the National Aeronautics and Space Administration's third lunar landing mission.

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17 APRIL 1970

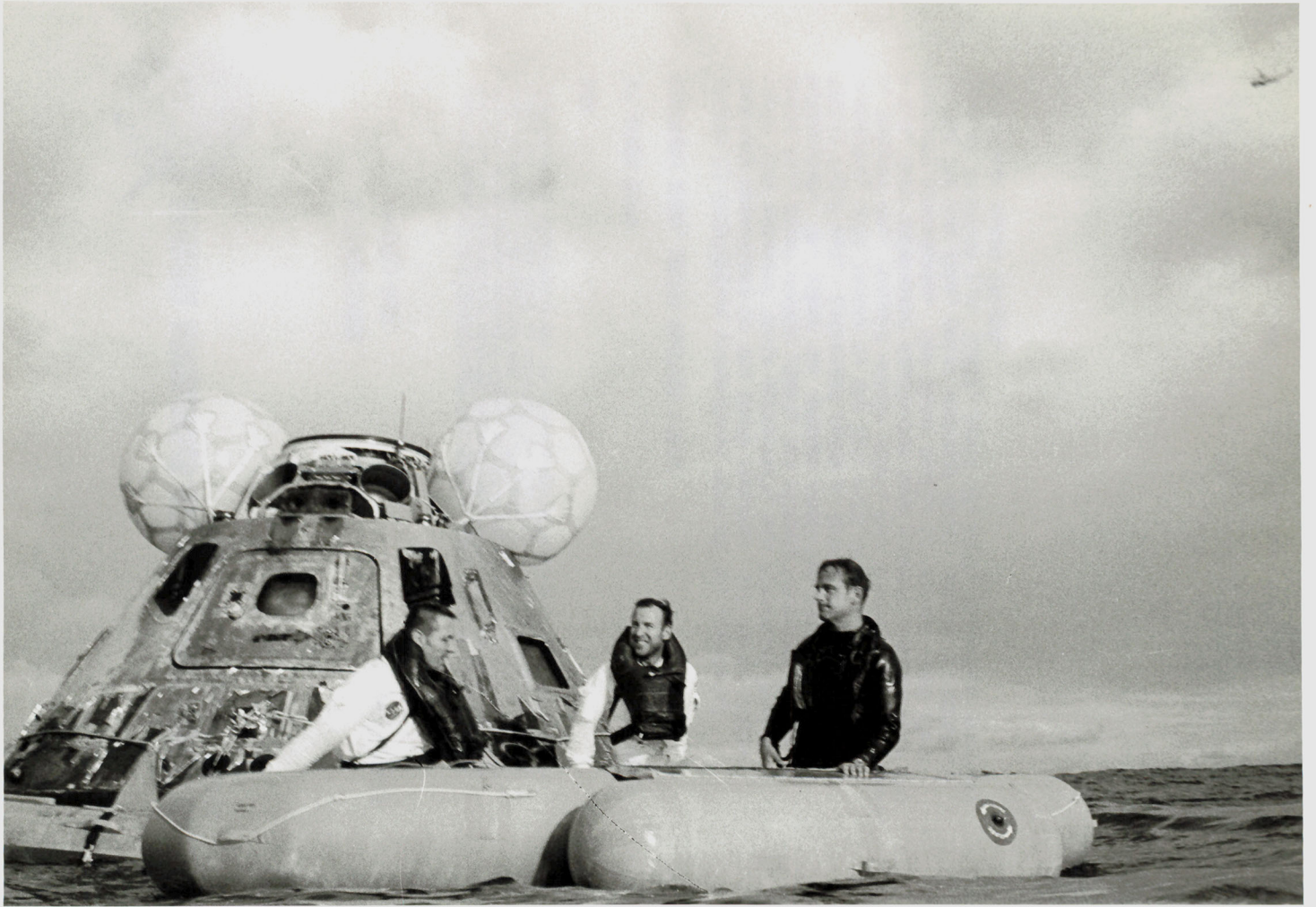
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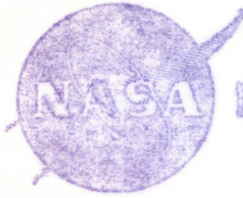
MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 VIEW OF DAMAGED SM----This view of the severely damaged Apollo 13 Service Module was photographed from the Command Module just after CM/SM separation and prior to earth reentry. This view was taken from behind the aft bulkhead of the Service Module. An entire SM panel was blown away by the apparent explosion of oxygen tank number two located in Sector 4 of the SM. The apparent rupture of the oxygen tank caused the Apollo 13 crewmen to use the Lunar Module as a "lifeboat."

NASA - APOLLO 13

NASA
S-70-35615





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B&W

17 APRIL 1970

S-70-35615

RECOVERY AREA, SOUTH PACIFIC OCEAN

APOLLO 13 RECOVERY--A water-level view of the Apollo 13 recovery operations in the South Pacific. The three astronauts have egressed their spacecraft, and Astronaut Fred W. Haise Jr., lunar module pilot, has already ascended to the helicopter. The other two crewmen await the return of the "Billy Pugh" net. Astronaut James A. Lovell Jr. (center), commander, will remain in the life raft until Astronaut John L. Swigert Jr., command module pilot, has boarded the helicopter. A U.S. Navy underwater demolition team swimmer assists with the recovery operations. The three Apollo 13 crewmen were flown to the USS Iwo Jima, prime recovery ship. Apollo 13 splashed down at 12:07:44 p.m. (CST), April 17, 1970, to safely conclude a perilous space flight.

NASA - Apollo 13



NASA- Apollo 13

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221



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4-10-70

COLOR

MARCH 1970

S-70-29722

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 CAMERA----A close-up view showing how the Hycon, or Lunar Topographic Camera, is mounted on the hatch window of the Apollo 13 Command Module. This camera will be used to take high resolution pictures of candidate lunar landing sites. The size of the camera is 28 inches in length, and 11 x 12. The camera has an 18-inch focal length and the format of the film which will be taken on the mission is about 4-1/2 by 4-1/2. The most significant advantage to this camera is that it has image motion compensation.

One low pass for whoever operates camera

NASA
S-70-35604





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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B & W

17 APRIL 1970

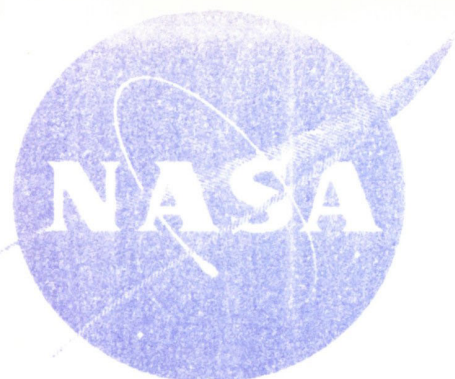
S-70-35604

RECOVERY AREA, SOUTH PACIFIC OCEAN

APOLLO 13 RECOVERY---A water-level view of the Apollo 13 recovery operations in the South Pacific. Astronaut Fred W. Haise Jr., lunar module pilot, is about to be hoisted up to a recovery helicopter from the USS Iwo Jima. Awaiting their turn are Astronauts John L. Swigert Jr. (in center), command module pilot; and James A. Lovell Jr. (on right), commander. A member of an underwater demolition team assists with the recovery. The Apollo 13 Command Module splashed down at 12:07:44 p.m. (CST), April 17, 1970, to conclude safely a perilous space flight. Though the Apollo 13 moon landing was cancelled, a disastrous loss of three astronauts was averted.

NASA - Apollo 13





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FOR RELEASE: April 9, 1970
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KENNEDY SPACE CENTER, Fla. -- Thomas K. Mattingly, left, Apollo 13 command module pilot, discusses orbital maneuvers with John L. Swigert, Jr., the backup crewman who is being considered as his replacement on the prime crew because of Mattingly's exposure to measles.

CENTRAL PRESS
ASSOCIATION

MAY 7 1970

1841
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NASA
S-70-35141



NASA- MSC



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COLOR

16 APRIL 1970

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 MCC---Wide-angle view of the Mission Operations Control Room of the Mission Control Center at the Manned Spacecraft Center during the last 24 hours of the problem-plagued Apollo 13 mission. When this picture was made, the Apollo 13 moon landing had already been cancelled, and the Apollo 13 crewmen were in transearth trajectory attempting to bring their crippled spacecraft back home.

NASA
S-70-20041





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COLOR

DEC 1969

S-70-20041

KAPOHO, HAWAII

APOLLO 13 TRAINING----Astronauts James A. Lovell Jr. (right) and Fred W. Haise Jr., Apollo 13 commander and lunar module pilot, respectively, carry out a simulation of a lunar traverse at the Kapoho, Hawaii, training site. Both crew members were carrying lunar surface cameras and communications equipment during this and other simulated traverses. The two maintained contact with men in the roles of spacecraft communicators throughout the traverse. Lovell holds a scoop from the Apollo Lunar Hand Tools (ALHT) set. The gnomon, also from the ALHT set, has been deployed between the two astronauts.

NASA - APOLLO 13





**MANNED SPACECRAFT CENTER
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March 12, 1964

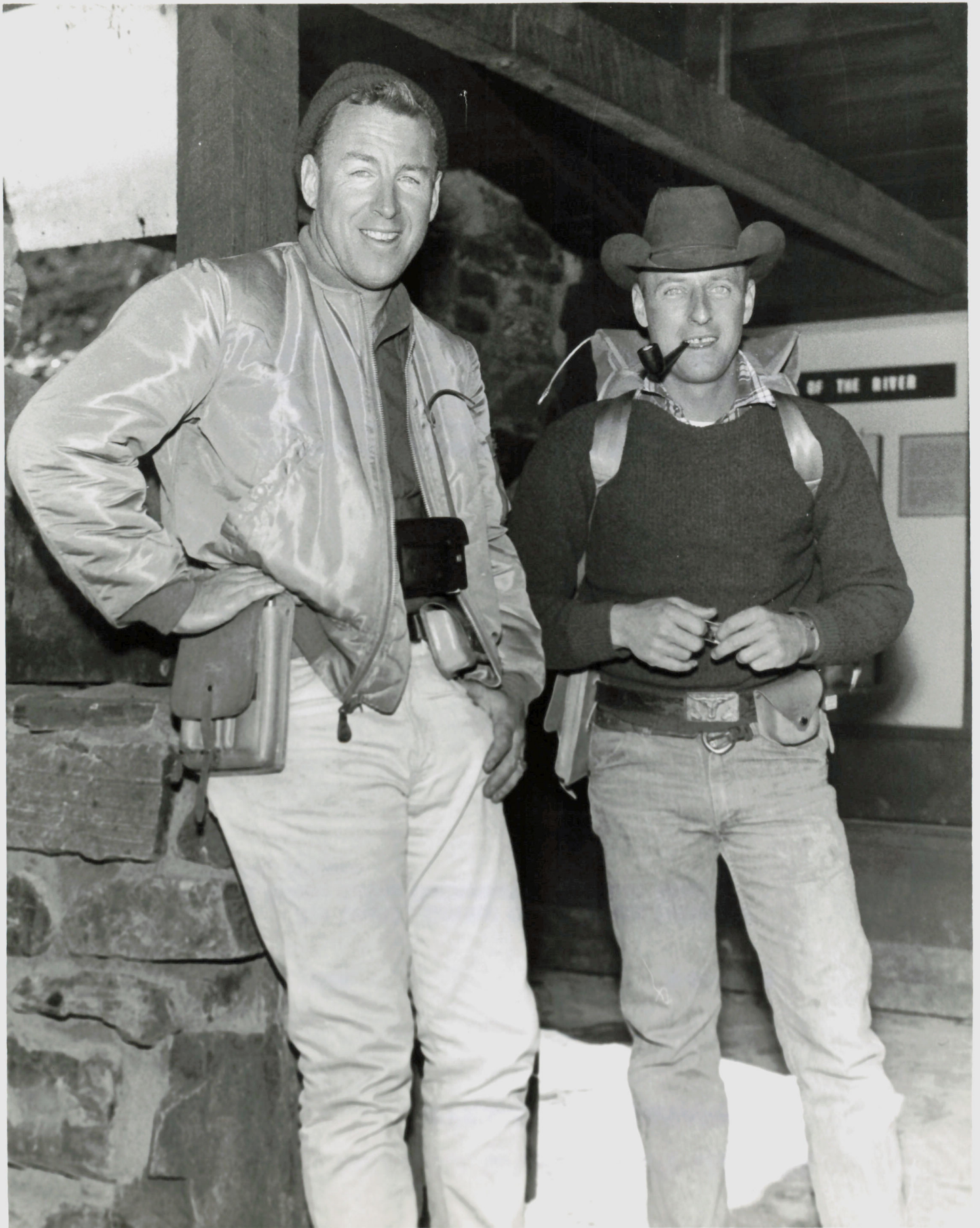
Photos-1964

S-64-13799

Jim Lovell during geological training in Grand Canyon, Arizona.

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Its use in commercial advertising must be approved, along with copy and layout, by the Public Affairs Officer, National Aeronautics and Space Administration, Manned Spacecraft Center, Houston 1, Texas.





MANNED SPACECRAFT CENTER

OFFICIAL PHOTOGRAPH

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March 13, 1964

S-64-13880

(left) - Photos - 1964
Jim Lovell, Charles Conrad at the bottom of
Grand Canyon during Geological Training at Grand
Canyon, Arizona.

The National Aeronautics and Space Administration has no objection to the publication of this photograph.

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NASA
S-63-11034

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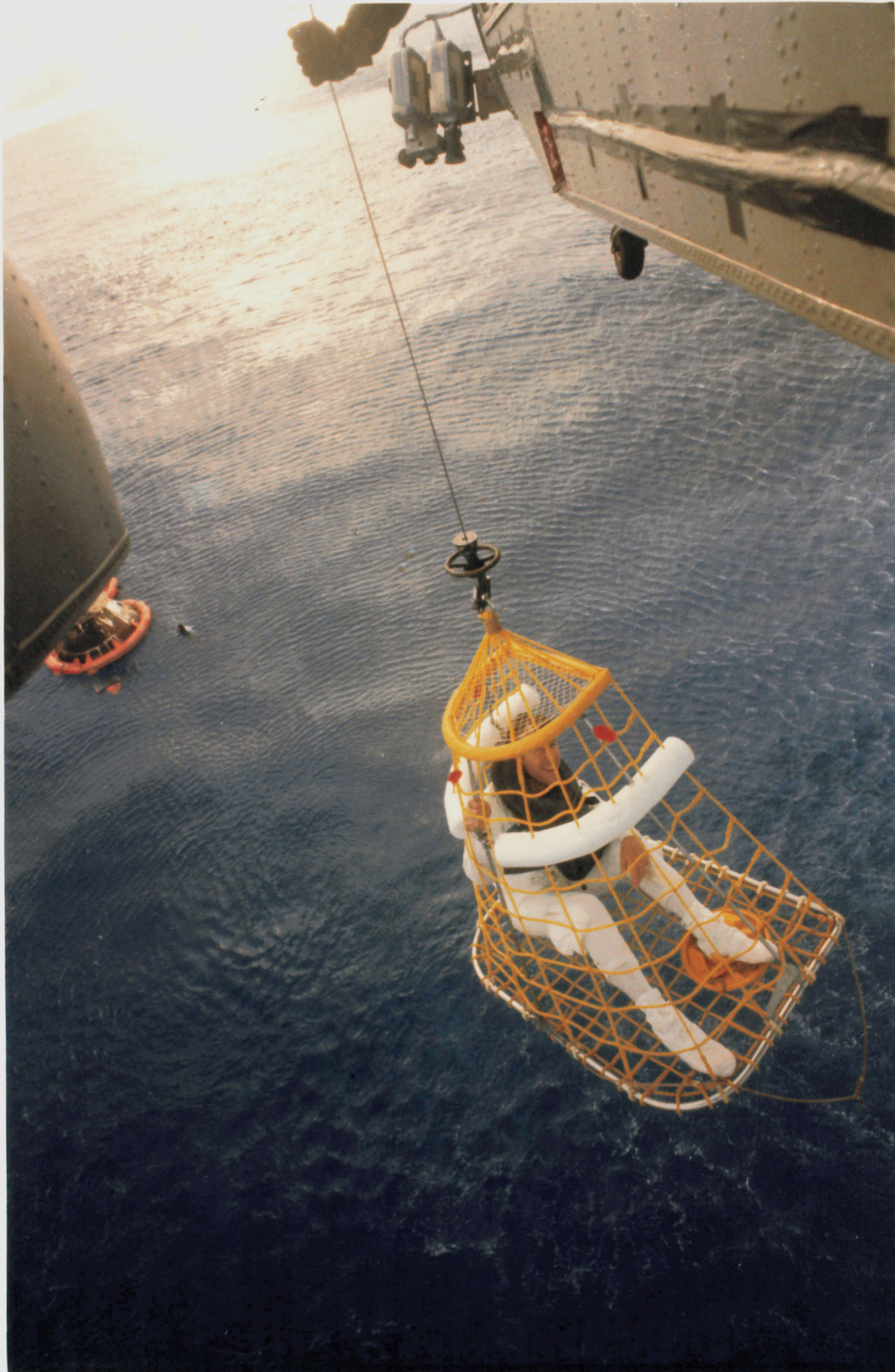
Astronaut James A. Lovell, Jr., studies his notes while eating a sandwich at a North American Aviation Corp. review of the project Apollo crew station.

OFFICIAL NASA PHOTOGRAPH

The National Aeronautics and Space Administration has no objection to the publication of this photograph.

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Apollo 13

Houston, Texas 77058

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COLOR

17 APRIL 1970

S70-35645

RECOVERY AREA, SOUTH PACIFIC OCEAN

APOLLO 13 RECOVERY -- Astronaut James A. Lovell Jr., commander, is hoisted aboard a helicopter from the USS Iwo Jima, prime recovery vessel for the mission. Lovell was the last of the three Apollo 13 crewmen to egress the Command Module and the last to be lifted aboard the helicopter. He was preceded by Astronauts John L. Swigert Jr., command module pilot, and Fred W. Haise Jr., lunar module pilot. The CM and a U.S. Navy underwater demolition team swimmer can be seen in the background. Apollo 13 splashed down at 12:07:44 p.m. (CST), April 17, 1970.

pg. 8-2

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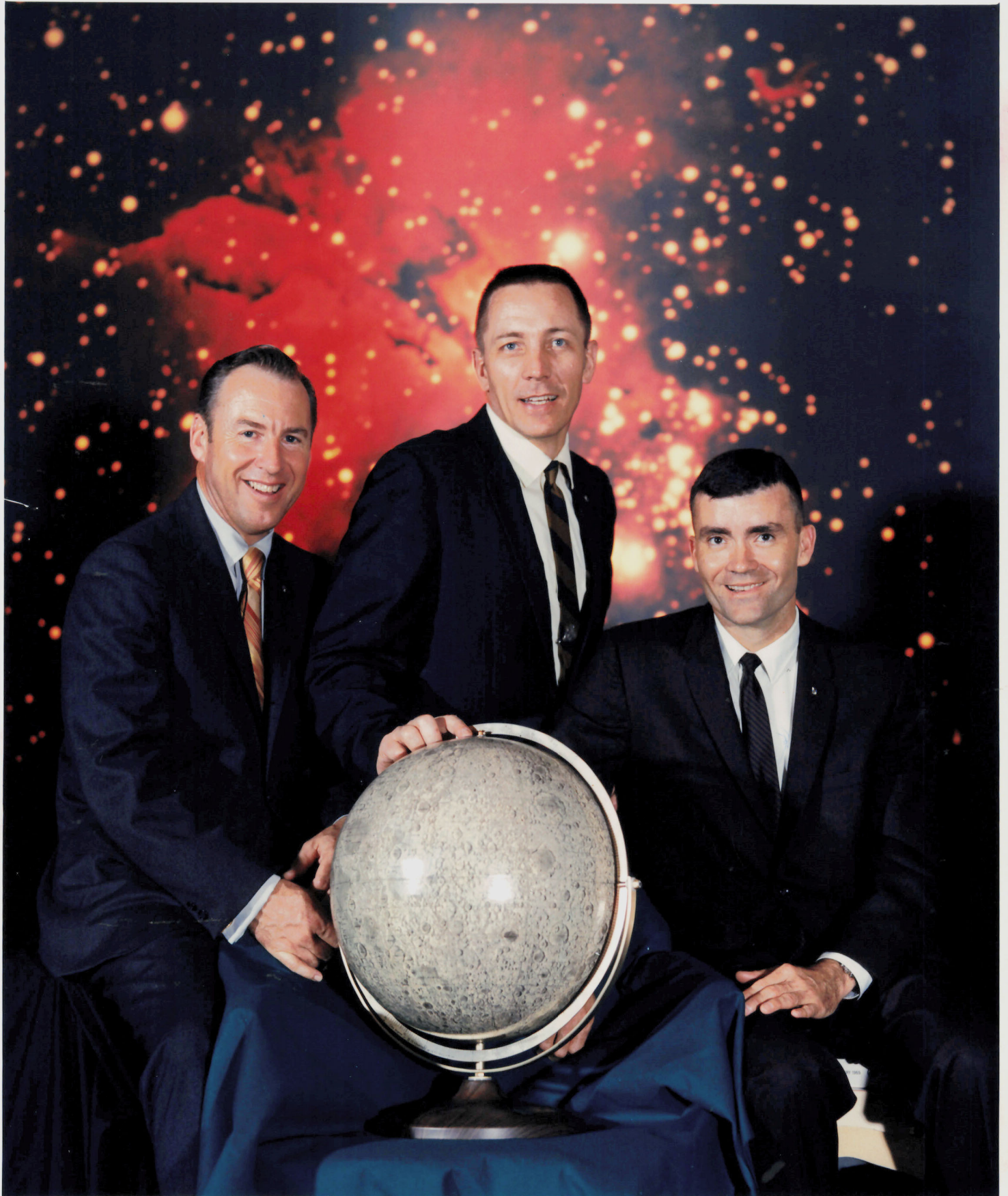
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Apollo 13



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COLOR (PORTRAIT)

APRIL 1970

S70-36485

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 OFFICIAL CREW PORTRAIT --- These three astronauts are the prime crew of the National Aeronautics and Space Administration's (NASA) Apollo 13 lunar landing mission. Left to right, are James A. Lovell Jr., commander; John L. Swigert Jr., command module pilot; and Fred W. Haise Jr., lunar module pilot. Apollo 13 will be the United States' third lunar landing mission.

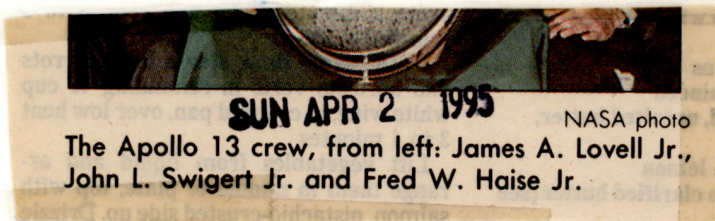


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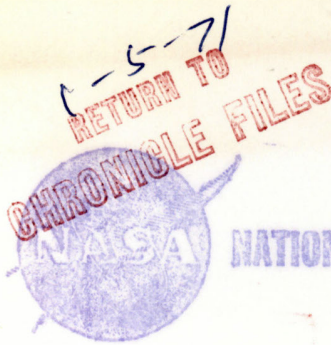
S-70-30536

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

LLTV FLIGHT---Astronaut James A. Lovell Jr. talks to newsmen after making a test flight in a Lunar Landing Training Vehicle at Ellington Air Force Base. Lovell is the commander of the Apollo 13 lunar landing mission. Lovell used the LLTV to practice lunar-landing techniques in preparation for his scheduled mission. Lovell will be at the controls of the Apollo 13 Lunar Module when it lands on the Moon in the highlands just north of Fra Mauro. Astronaut Thomas K. Mattingly II, command module pilot, will remain with the Apollo 13 Command and Service Modules in lunar orbit while Astronauts Lovell and Fred W. Haise Jr., lunar module pilot, descend in the LM to explore the Moon.



NASA
S-64-23549



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B & W

4 JUNE 1964

S-64-23849

PHILMONT RANCH, NEW MEXICO

GEOLOGY TRAINING---Astronaut James A. Lovell Jr. makes strike and dip measurements during geological training in New Mexico. Looking on is geologist instructor Elbert King of the Manned Spacecraft Center.



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S-70-20299

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COLOR

DEC 1969

S-70-20299

KAPOHO, HAWAII

APOLLO 13 TRAINING—~~Astronauts James A. Lovell Jr. (right)~~ and Fred W. Haise Jr., ~~commander~~ and lunar module pilot, respectively, for the upcoming Apollo 13 lunar landing mission, carry out a simulated lunar traverse at the Kapoho, Hawaii, training site. Each astronaut carries a lunar surface camera and communications equipment. Lovell holds a gnomon and a scoop from the Apollo Lunar Hand Tools (ALHT) while looking over a check-list. The carrier for ALHT stands between the two crewmen.





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COLOR

DEC 1969

S-70-20272

KAPOHO, HAWAII

APOLLO 13 TRAINING---Astronaut James A. Lovell Jr., commander of the upcoming Apollo 13 lunar landing mission, uses a scoop from the Apollo Lunar Hand Tools (ALHT) during a simulated lunar surface traverse at the Kapoho, Hawaii, training site. Astronauts Lovell and Fred W. Haise Jr., lunar module pilot, will descend in the Apollo 13 Lunar Module to explore the Moon while Astronaut Thomas K. Mattingly II, command module pilot, remains with the Command and Service Modules in lunar orbit. While at the Hawaii training sites, Lovell and Haise will participate in thorough rehearsals of their extravehicular activity (EVA).



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COLOR

DEC 1969

S-70-20553

KILAUEA, HAWAII

APOLLO 13 TRAINING---Astronauts James A. Lovell Jr. (left) and Fred W. Haise Jr., Apollo 13 prime crew commander and lunar module pilot, respectively, carry out a simulation of a lunar traverse at Kilauea, Hawaii, site. Both crew members of NASA's third team of Moon explorers were carrying cameras and communications equipment during the simulated traverse. They maintained contact with men in the roles of spacecraft communicators throughout the traverse. Lovell holds a scoop from the Apollo Lunar Hand Tools (ALHT), and a gnomon, also from the ALHT is deployed in front of Haise. The ALHT carrier is at left background, (almost obscured by Lovell).



NASA
S-70-20290



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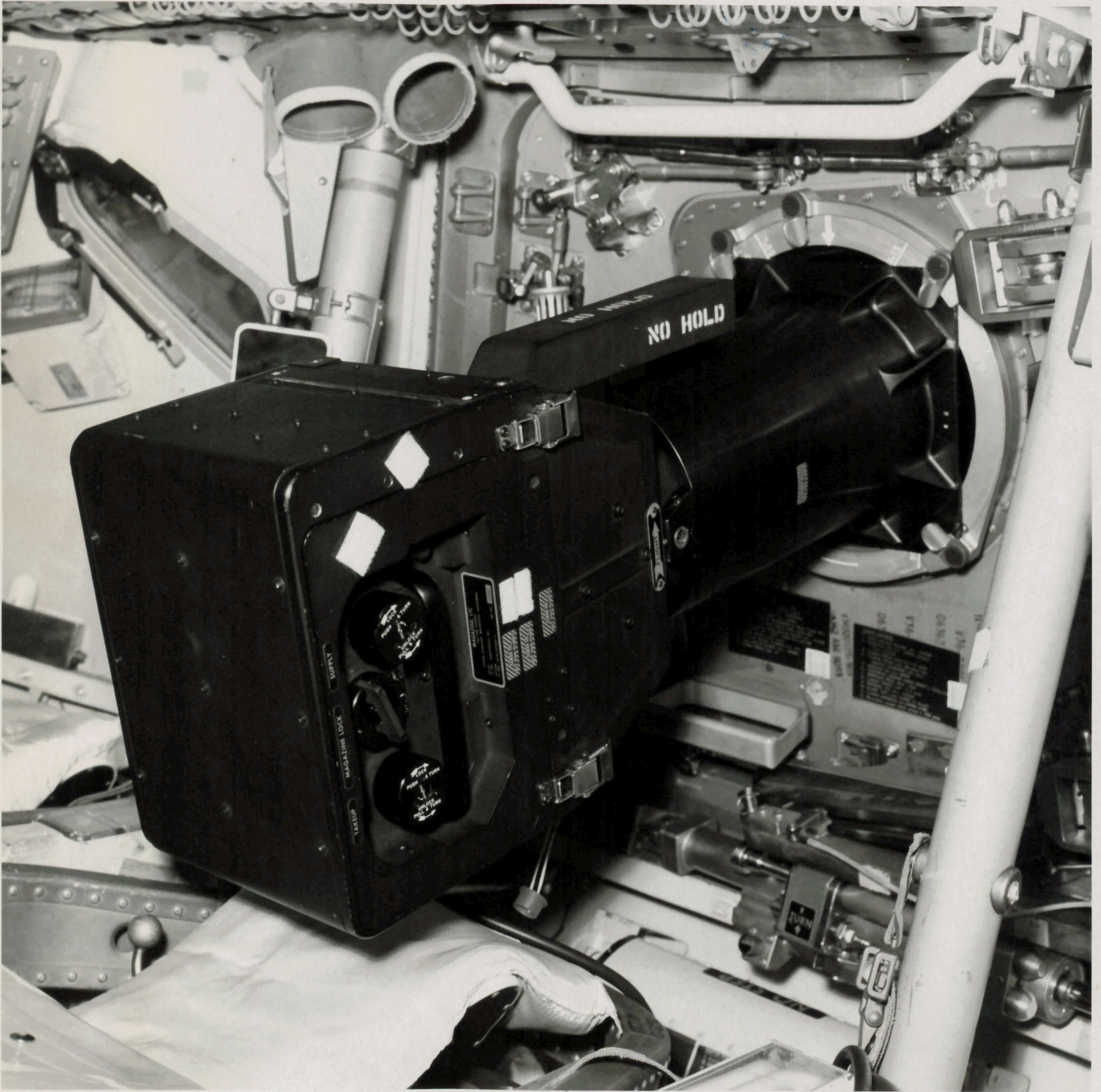
COLOR

DEC 1969

S-70-20290

KAPOHO, HAWAII

APOLLO 13 TRAINING---Astronaut Fred W. Haise Jr., lunar module pilot for the upcoming Apollo 13 lunar landing mission, participates in a simulated lunar surface traverse at Kapoho, Hawaii, training site. Equipped with lunar surface cameras and communications paraphernalia, Astronaut James A. Lovell Jr., commandor, and Haise took part in a thorough rehearsal of the scheduled Apollo 13 traverse. They will descend in their Lunar Module to explore the Moon while Astronaut Thomas K. Mattingly II, command module pilot, remains with the Command and Service Modules in lunar orbit.



NASA- APOLLO 13



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MARCH 1970

S-70-29721

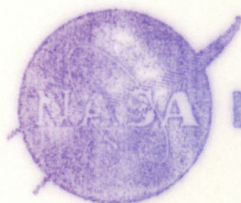
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APOLLO 13 CAMERA-----A close-up view showing how the Hycon, or Lunar Topographic Camera, is mounted on the hatch window of the Apollo 13 Command Module. This camera will be used to take high resolution pictures of candidate lunar landing sites. The size of the camera is 28 inches in length, and 11 x 12. The camera has an 18-inch focal length and the format of the film which will be taken on the mission is about 4-1/2 by 4-1/2. The most significant advantage to this camera is that it has image motion compensation.



NASA
S-70-20253

NASA - APOLLO 13



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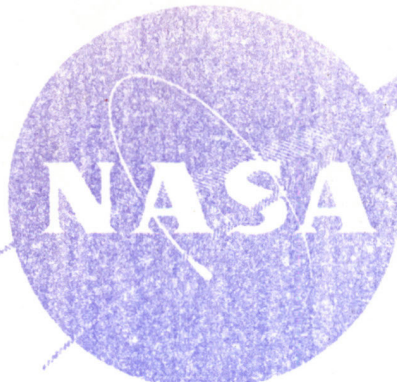
S-70-20553

KILAUEA, HAWAII

APOLLO 13 TRAINING---Astronauts James A. Lovell Jr. (left) and Fred W. Haise Jr., Apollo 13 prime crew commander and lunar module pilot, respectively, carry out a simulation of a lunar traverse at Kilauea, Hawaii, site. Both crew members of NASA's third team of Moon explorers were carrying cameras and communications equipment during the simulated traverse. They maintained contact with men in the roles of spacecraft communicators throughout the traverse. Lovell holds a scoop from the Apollo Lunar Hand Tools (ALHT), and a gnomon, also from the ALHT is deployed in front of Haise. The ALHT carrier is at left background, (almost obscured by Lovell).



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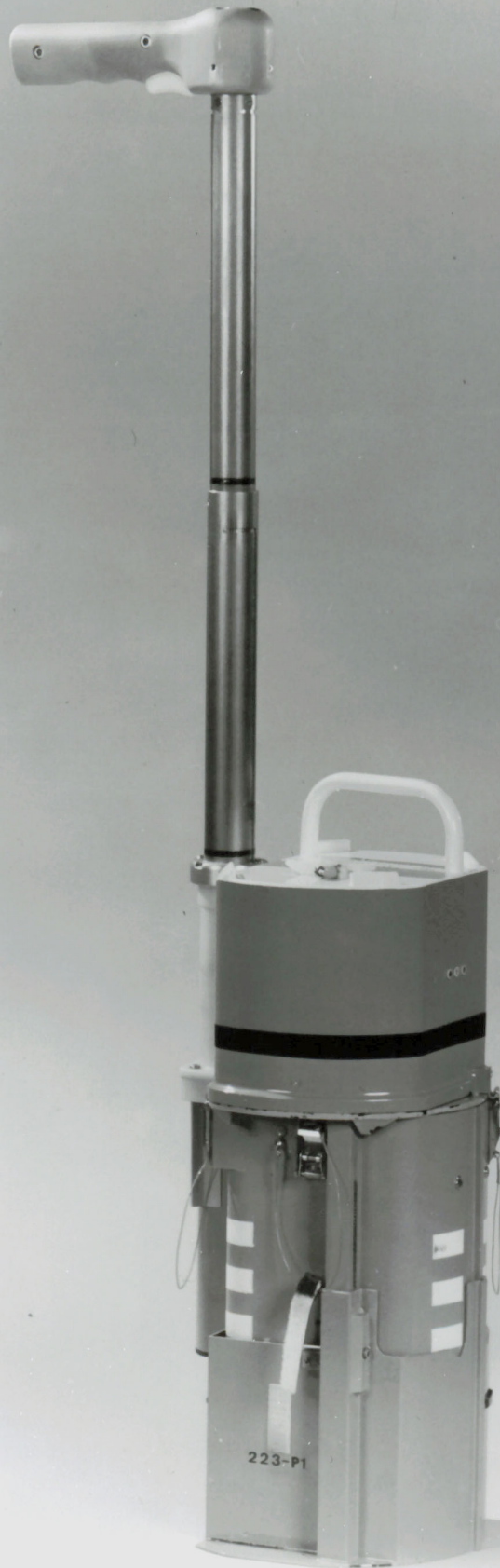
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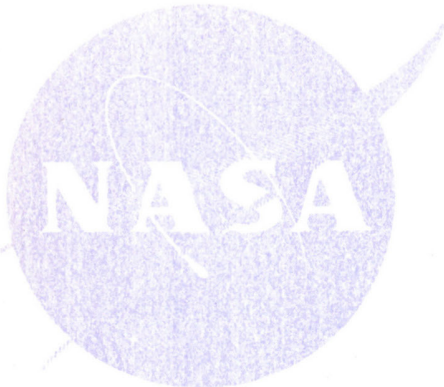
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Astronaut Fred W. Haise, Jr., lunar module pilot for Apollo 13. The third manned lunar landing mission is scheduled for April 11, 1970. The selected landing area for Apollo 13 is the Moon's Fra Mauro region.

REFERENCE
MAR 23 '70
N. E. A.





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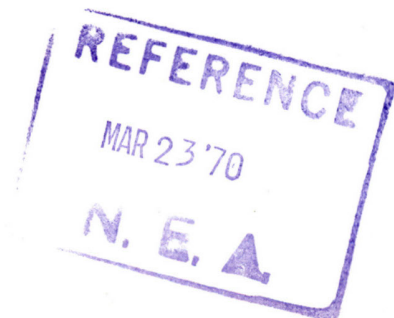
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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS -- APOLLO 13
STEREO CAMERA -- A 35mm stereo close-up camera which
will be carried on the Apollo 13 lunar landing mission.
The camera will be used by Astronauts James A. Lovell
Jr. and Fred W. Haise Jr. to take close-up geological
photographs of the lunar soil. The camera was specially
designed to get the highest possible resolution of a
small area. The camera is mounted on a walking stick,
and the astronauts use it by holding it against the
object to be photographed and pulling the trigger.
Also, this type of camera was successfully used on
the Apollo 11 and Apollo 12 lunar landing missions.

A 76502 - Apollo 13





NASA
S-70-34849

Swigert, John Leonard, Jr. "Jack"
Astronaut

The Huntsville Times

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CAPE KENNEDY, FLORIDA

APOLLO 13 PREPARATION -- Astronaut John L. Swigert, Jr., command module pilot for NASA's Apollo 13 moon mission, during suiting up procedures at Kennedy Space Center. Swigert replaced Astronaut Thomas K. Mattingly II when it was learned he had been exposed to the measles. Other member of the crew are Astronauts James A. Lovell, Jr., commander, and Fred W. Haise, Jr., lunar module pilot.