CHAPTER 13

Apollo 14

Apollo 15

Apollo 17

See Chapter 1 for Apollo 16 images

NASA
S-70-34420

Eugene A. Cernan

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5-27-74

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COLOR

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ALOI ALAE, HAWAII

APOLLO 14 EVA TRAINING--Astronaut Eugene A. Cernan, back-up crew commander of the Apollo 14 mission, inspects a jagged piece of fresh basalt (volcanic) rock during an April 1970 field trip to various sites in Hawaii having similar surface features to those on the Moon. The back-up crewmen, Astronauts Cernan and Joe H. Engle, back-up lunar module pilot, joined the prime crewmen scheduled to walk on the Moon--Astronauts Alan B. Shepard Jr., commander, and Edgar D. Mitchell, lunar module pilot--for the training trip.

NASA
S-70-34413

Eugene A. Cernan

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COLOR

APRIL 1970 S-70-34413

KAPOHO, HAWAII

APOLLO 14 EVA TRAINING--Astronaut Eugene A. Cernan (right), back-up crew commander of the Apollo 14 lunar landing mission, pours a scoopful of sample material into a bag held by Astronaut Joe H. Engle, Apollo 14 back-up crew lunar module pilot. The two joined the prime crewmen and other Manned Spacecraft Center personnel on a training trip to various areas of Hawaii. Here, the two back-up crewmen for man's next lunar landing mission are taking part in a full simulation of a traverse on the lunar surface. Note the check-list on Cernan's left wrist. He carries a penetrometer in his belt. The terrain in this area bears many similarities to that on the lunar surface.

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KENNEDY SPACE CENTER, FLA. -- Members of the Apollo 14 backup crew worked out with lunar surface experiments during a runthrough of extravehicular activity here today. Joe Engle, the backup lunar module pilot, prepares to use the "thumper", a tubular, cartridge-firing device that will be used to create small seismic waves on the lunar surface. The Apollo 14 mission is the first in which active seismic experiments will be used on the lunar surface.

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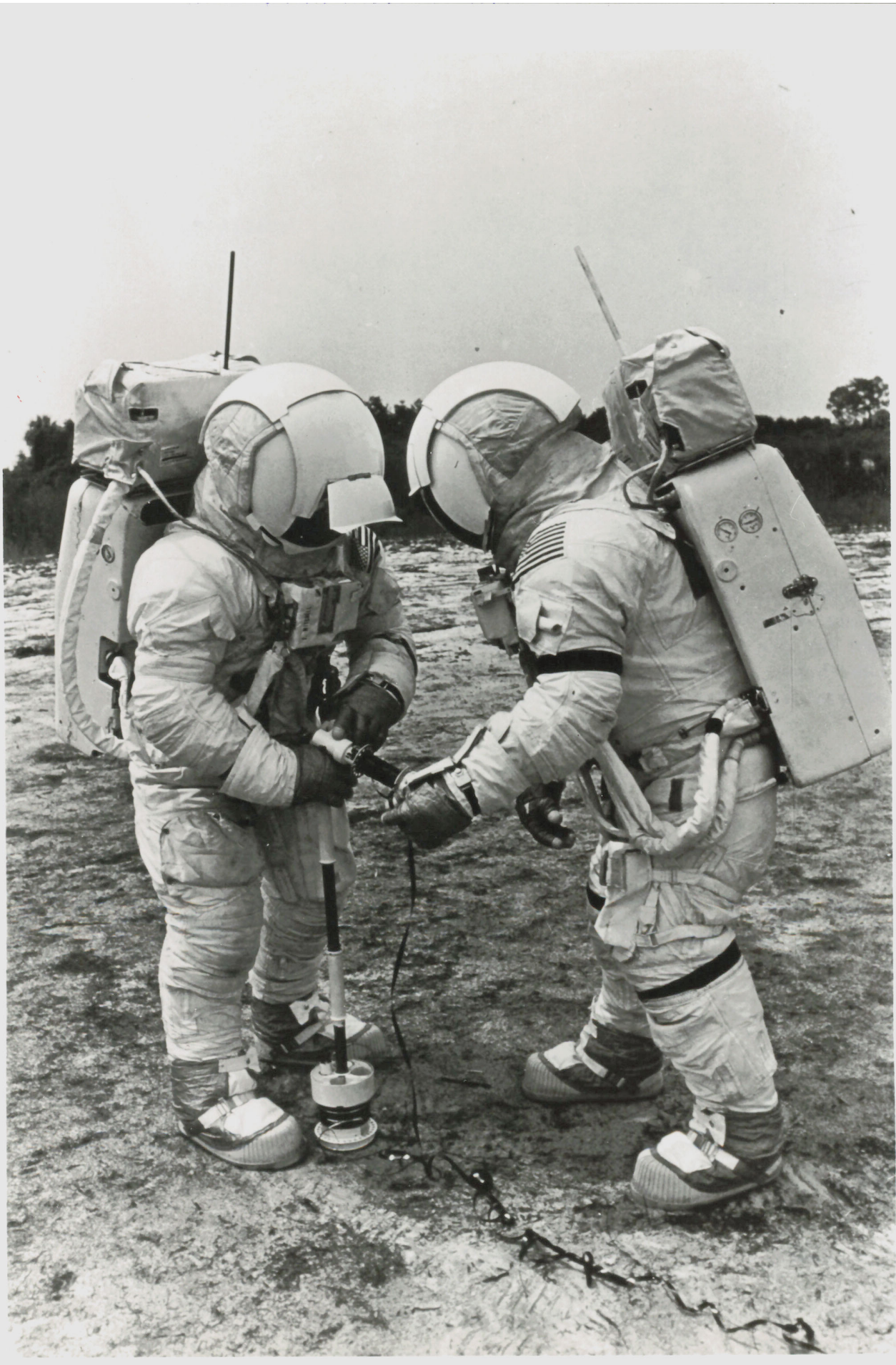

Edgar D. Mitchell

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SEISMIC EXPERIMENT--Apollo 14 astronauts Edgar D. Mitchell, lunar module pilot (left), and Alan B. Shepard, commander, practice how to use a seismic experiment to set off small explosions on the Moon. Data radioed to Earth will give scientist information on the structure of the Moon.

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NAVY
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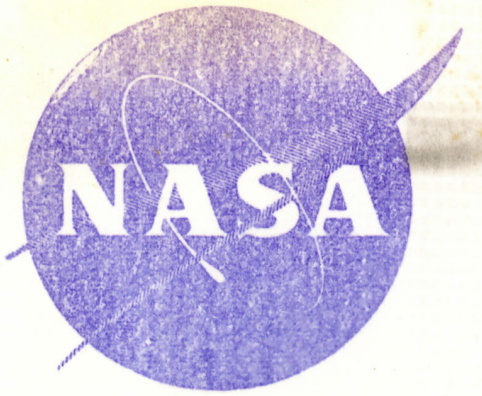

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71-H-309

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APOLLO 14 PACIFIC RECOVERY AREA--A life raft is dropped from helicopter during Apollo 14 recovery operations today, approximately 780 nautical miles southeast of American Samoa. A pararescueman watches from the flotation collar supporting the Apollo 14 spacecraft containing Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell. Splashdown at the completion of the successful lunar landing mission took place at 4:05 p.m. EST February 9, 1971.

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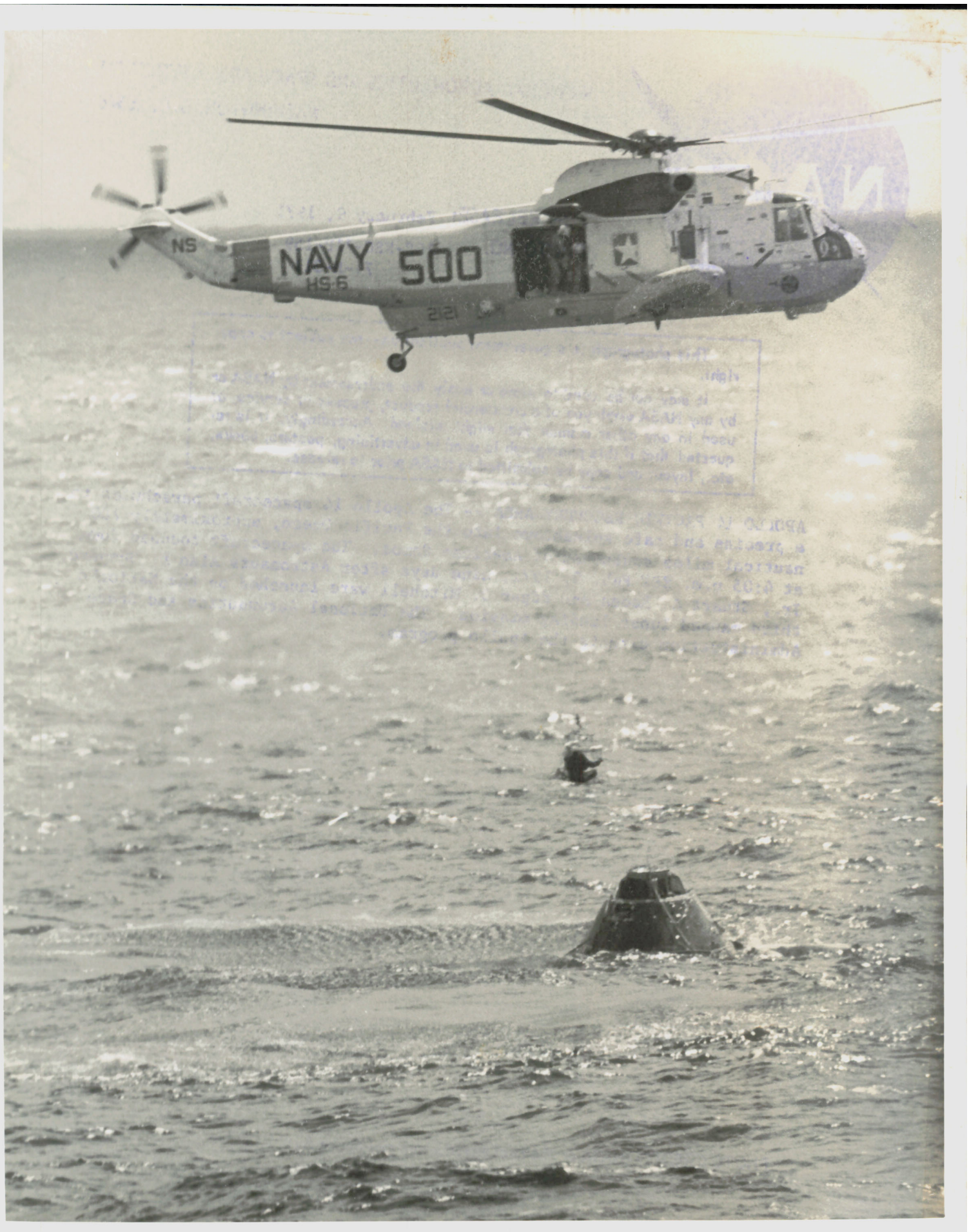
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APOLLO 14 PACIFIC RECOVERY AREA -- Apollo 14 Mission Commander Alan B. Shepard, Jr., is hoisted aboard recovery helicopter joining Astronauts Stuart A. Roosa and Edgar D. Mitchell at the completion of the Nation's third manned lunar landing mission. They splashed down in the Pacific Ocean at 4:05 p.m. EST Feb. 9, 1971, approximately 780 nautical miles southeast of American Samoa.

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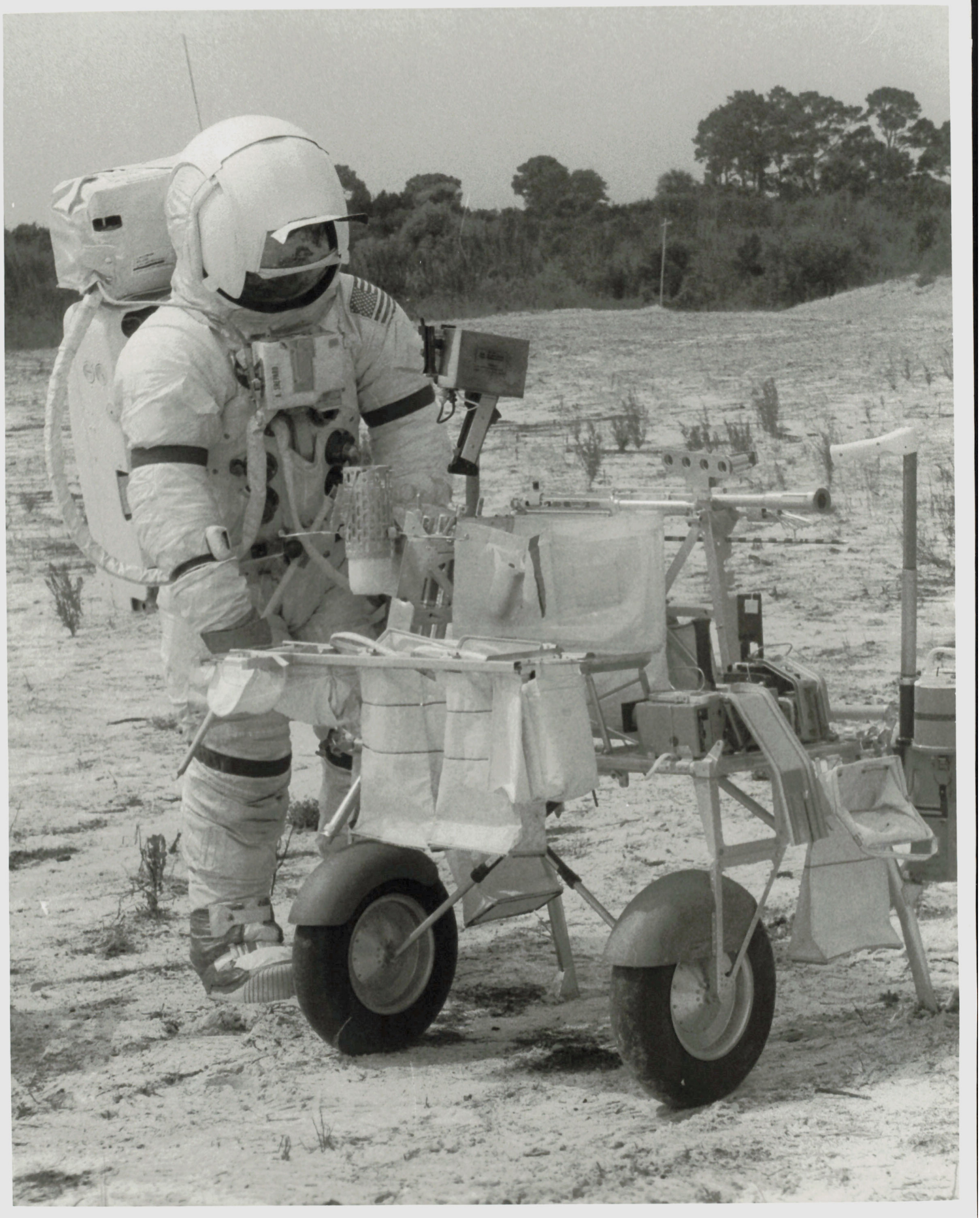

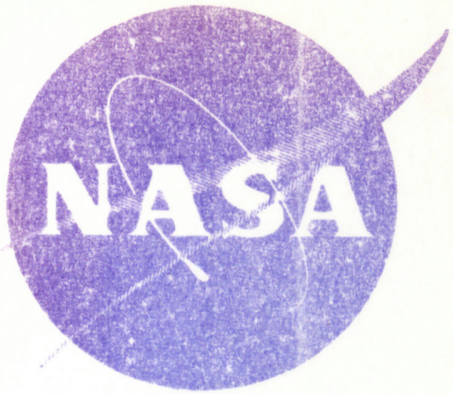

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SHEPARD'S RICKSHAW--Astronaut Alan B. Shepard, Jr., takes part in lunar surface simulation training wearing an extravehicular mobility unit. He is standing by the modularized equipment transporter (MET), dubbed "Shepard's Rickshaw" by the astronauts.

FEB 9 1971

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APOLLO 14 PACIFIC RECOVERY AREA - One of the three Apollo 14 astronautis is hoisted aboard helicopter during recovery operations today following the successful completion of the Nation's third manned lunar landing mission.

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APOLLO 14 PACIFIC RECOVERY AREA -- Apollo 14 Command Module Pilot Stuart A. Roosa is hoisted aboard helicopter during recovery operations today in the South Central Pacific, 780 nautical miles southeast of American Samoa.

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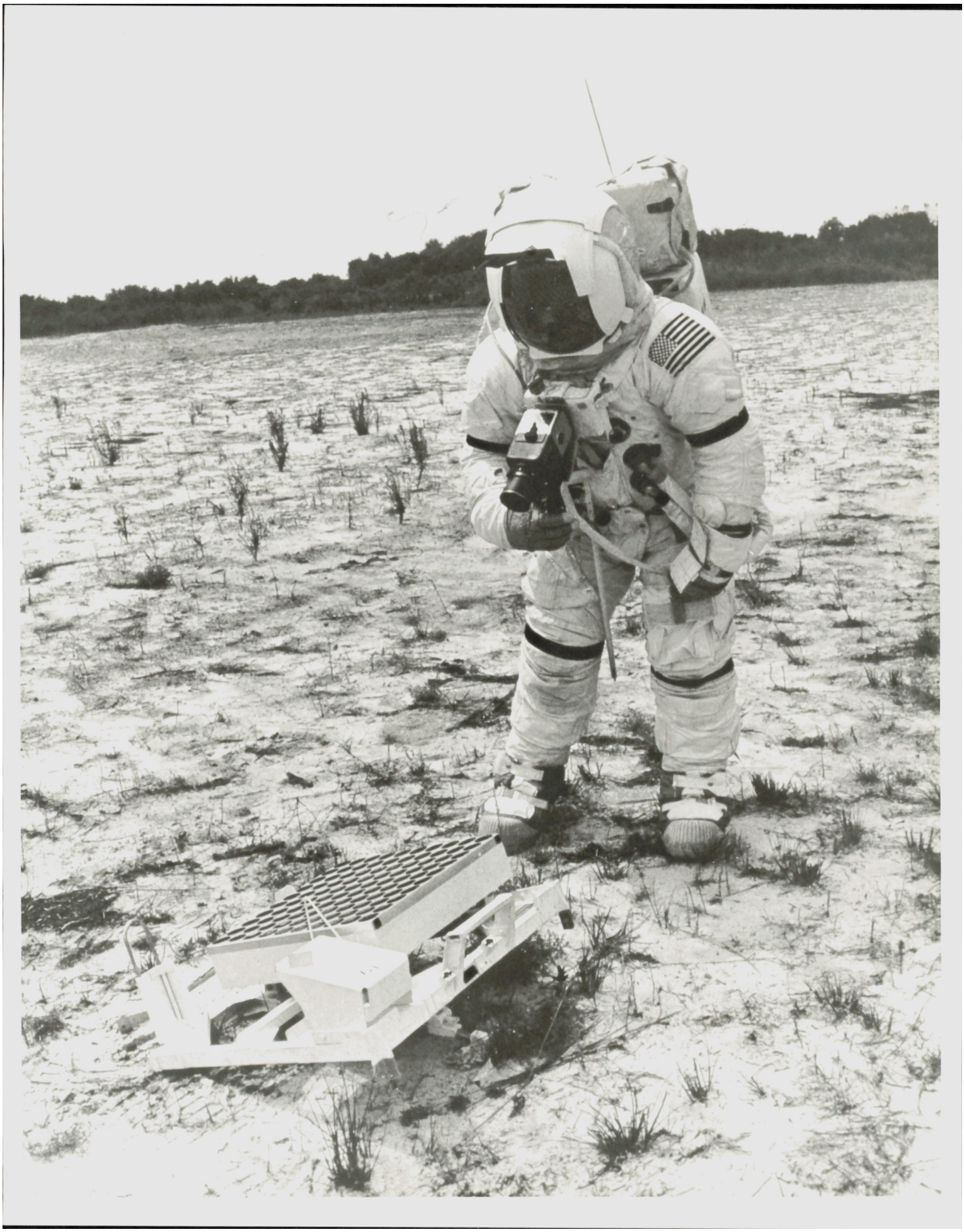

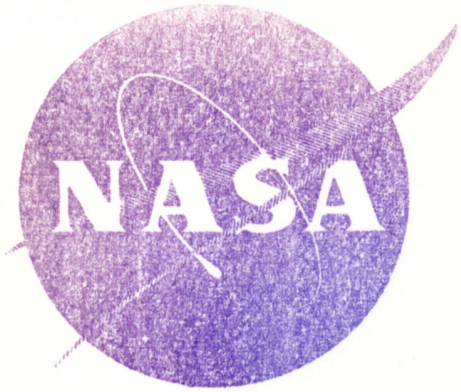

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CHECKING THE MIRROR--Commander of the Apollo 14 mission, Alan B. Shepard, Jr., checks the laser ranging retro-reflector (LR3) experiment. The set of mirrors will reflect beams of light from Earth back to their origin and enable scientists to make precise Earth-Moon measurements.

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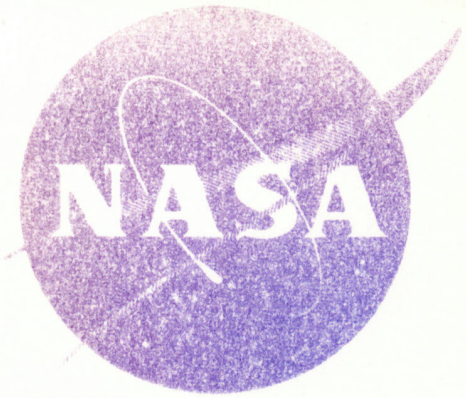

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SEISMIC EXPERIMENT--Apollo 14 astronauts Edgar D. Mitchell, lunar module pilot (left), and Alan B. Shepard, commander, practice how to use a seismic experiment to set off small explosions on the Moon. Data radioed to Earth will give scientist information on the structure of the Moon.

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GATHERING ROCKS--Alan B. Shepard, Jr., commander of the Apollo 14 mission uses tongs to gather lunar samples in simulation exercises at the Kennedy Space Center, Fla. A 35-mm stereo camera is attached to the chest area of his suit. The modularized equipment transporter is in the background.

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CAPE KENNEDY, FLORIDA -- APOLLO 14 CREW -- The members of the prime crew of the Apollo 14 lunar landing mission are photographed during training activity at the Kennedy Space Center. From foreground are Astronauts Alan B. Shepard Jr., commander; Stuart A. Roosa, command module pilot; and Edgar D. Mitchell, lunar module pilot. They are standing at a Lunar Module mock-up.

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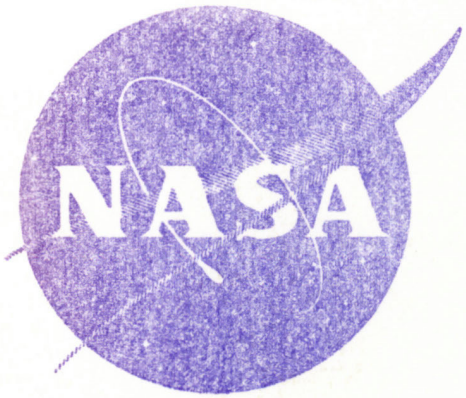

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KENNEDY SPACE CENTER, FLA.--Apollo 14 Astronauts Edgar G. Mitchell, Lunar Module Pilot (left) and Alan B. Shepard, Commander, practice how to use a seismic experiment to set off explosions on the Moon. During their exploration of the lunar hill country next February, the Apollo 14 astronauts will set off 21 small explosions on the surface and arm a mortar to launch four grenades after they leave. Measurements of the resulting vibrations of the Moon, radioed to Earth, will give scientists new information on the shape, structure, and thickness of the outer lunar crust. The Active Seismic Experiment, as it's called, will be set out by the astronauts during their day-and-a-half stay on the Moon.

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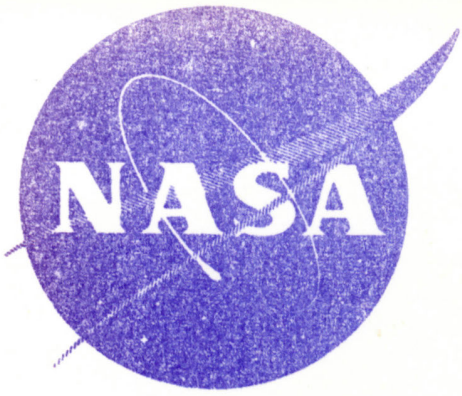

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KENNEDY SPACE CENTER, FLA. -- Astronauts Eugene A. Cernan and Joe Engle, commander and lunar module pilot respectively of the Apollo 14 backup crew, conducted a runthrough of the extravehicular activity scheduled for the lunar exploration mission to be launched from KSC next January 31. Engle, at left, deploys box-like four-barrel mortar which will be left behind to hurl explosive charges at ranges up to 5,000 feet. Cernan is at right with the central recording and relay station which will transmit the seismic data back to earth.

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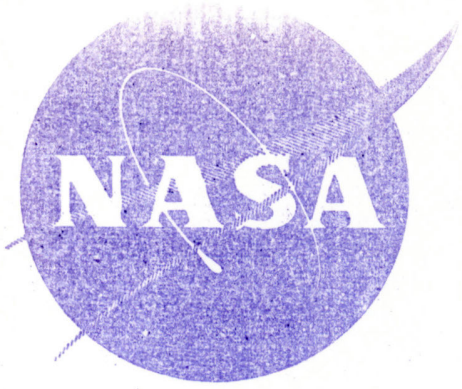

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KENNEDY SPACE CENTER, FLA. -- Astronauts Eugene A. Cernan and Joe Engle, commander and lunar module pilot respectively of the Apollo 14 backup crew, conducted a runthrough of the extravehicular activity scheduled for the lunar exploration mission to be launched from KSC next January 31. Engle, at left, deploys box-like four-barrel mortar which will be left behind to hurl explosive charges at ranges up to 5,000 feet. Cernan is at right with the central recording and relay station which will transmit the seismic data back to earth.

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CAPE KENNEDY, FLORIDA.--APOLLO 14 TRAINING--Two crewmen of the Apollo 14 lunar landing mission participate in lunar surface simulation training at the Kennedy Space Center. Astronaut Alan B. Shepard Jr. (right) is the Apollo 14 commander. On the left is Astronaut Edgar D. Mitchell, lunar module pilot. The two astronauts are wearing Extravehicular Mobility Units.

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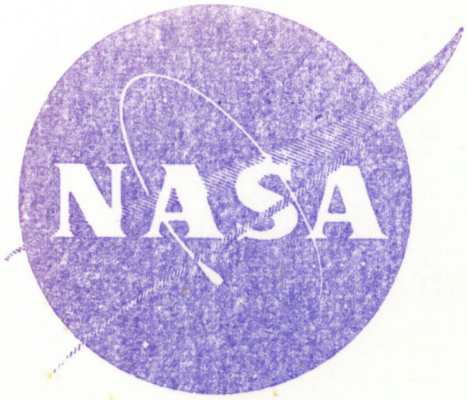

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CAPE KENNEDY, FLORIDA.--APOLLO 14 TRAINING--Astronaut Alan B. Shepard Jr., commander of the Apollo 14 lunar landing mission, participates in lunar surface simulation training at the Kennedy Space Center. Shepard, wearing an Extravehicular Mobility Unit, is standing by a Modular Equipment Transporter.

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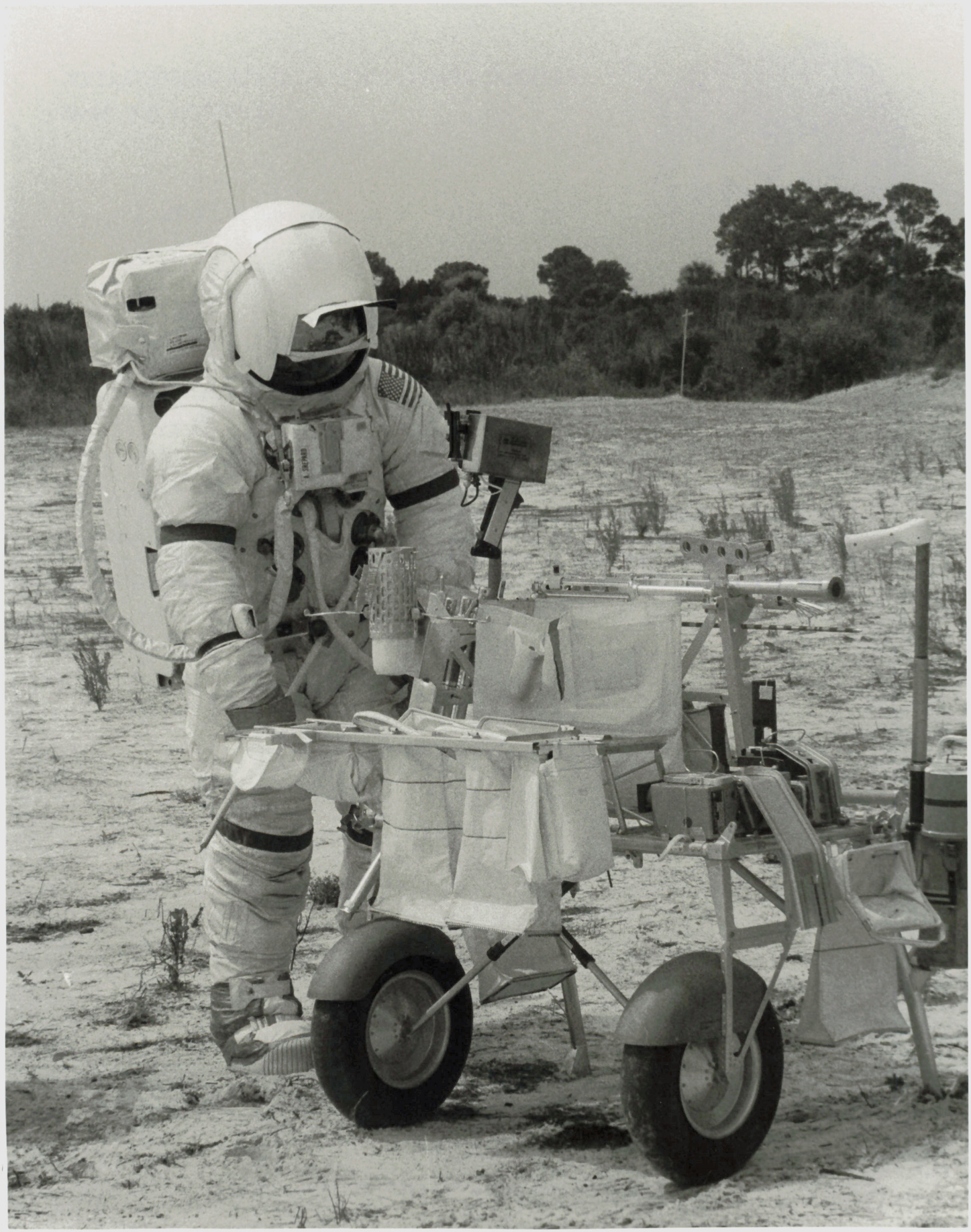

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CAPE KENNEDY, FLORIDA.--APOLLO 14 TRAINING--Astronaut Alan B. Shepard Jr., commander of the Apollo 14 lunar landing mission, participates in lunar surface simulation training at the Kennedy Space Center. Shepard, wearing an Extravehicular Mobility Unit, is standing by a Modular Equipment Transporter.

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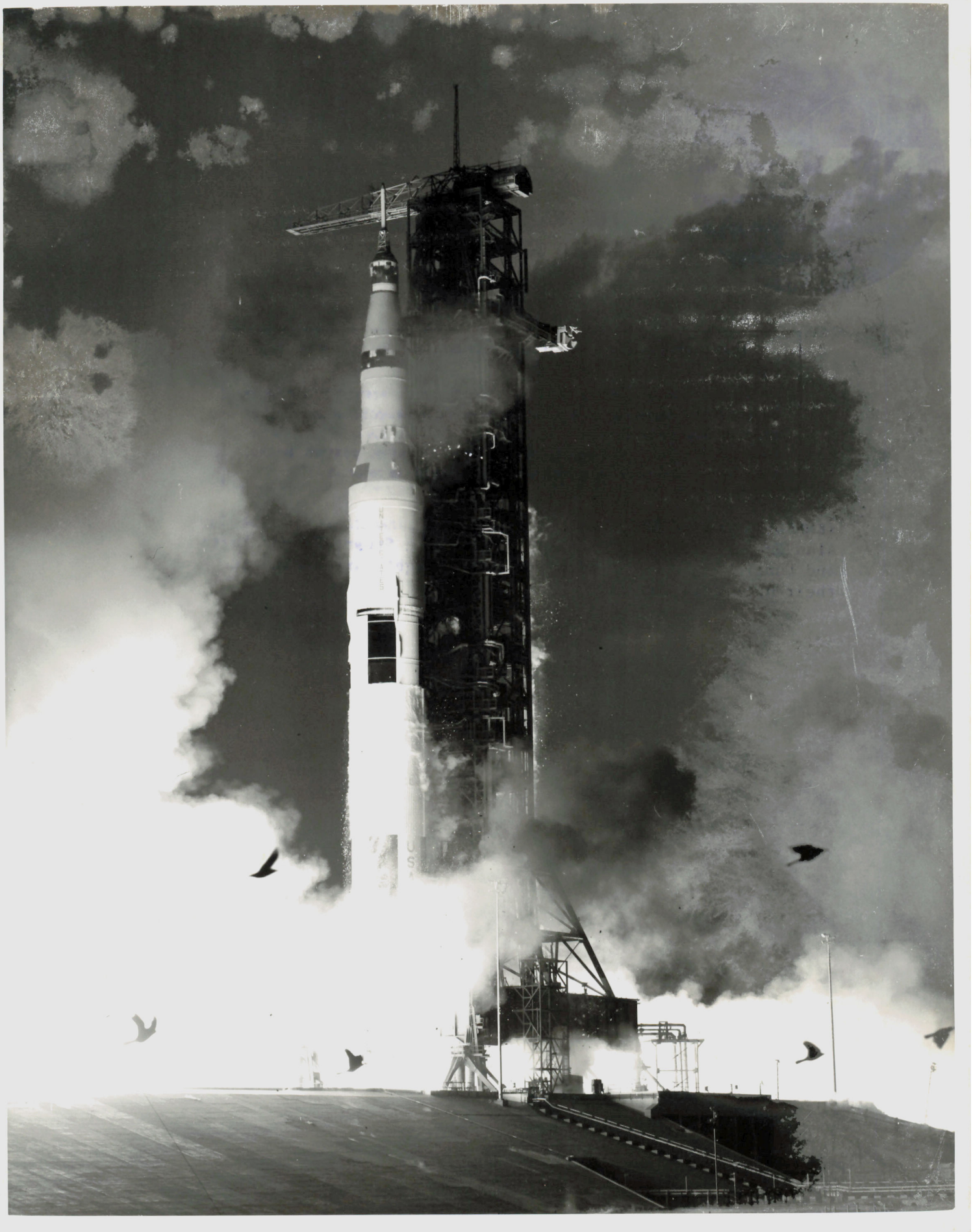

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KENNEDY SPACE CENTER, Fla.--The Apollo 14 Saturn V space vehicle carrying Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell lifted off to the Moon at 4:03 p.m. EST from the Kennedy Space Center's Launch Complex 39A. The 363-foot-high vehicle generated more than 7 1/2 million pounds of thrust as it sent the astronauts on the first leg of the Nation's sixth manned voyage to the Moon. Astronauts Shepard and Mitchell will descend in a lunar module to the Moon's hilly upland region north of the Fra Mauro crater while Roosa pilots the command module in lunar orbit. Shepard and Mitchell are scheduled to remain on the surface 33 hours, and spend 7 to 10 hours outside of their spacecraft during two extravehicular activities. Scientists hope the lunar materials they return will yield new information about the early history of the Moon, Earth and solar system. They also will set up scientific experiments and conduct extensive surveys of the landing site area. The National Aeronautics and Space Administration directs the Apollo program.

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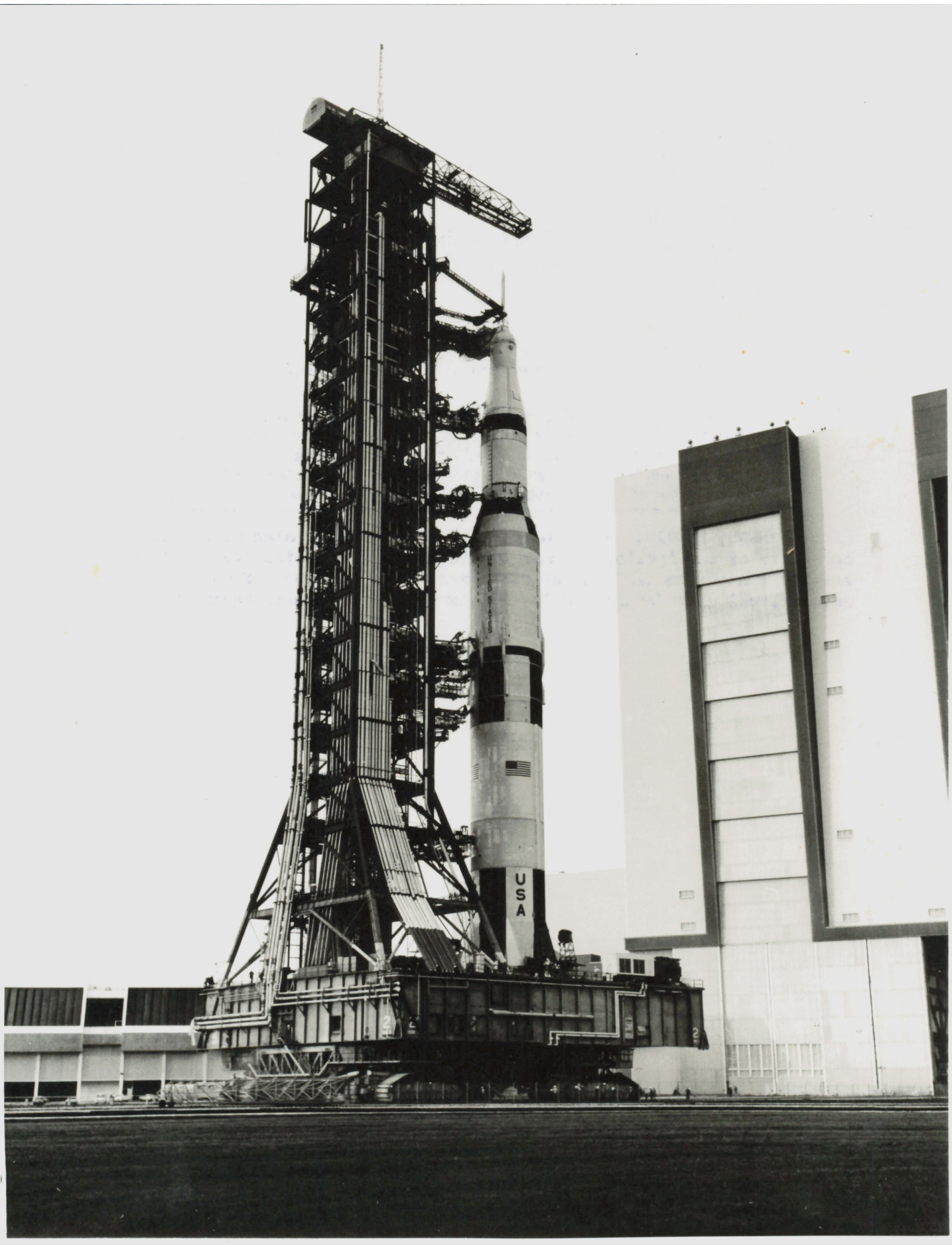
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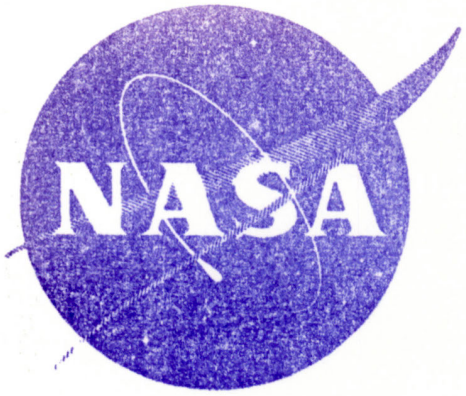

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KENNEDY SPACE CENTER, FLA. -- Rollout of the Apollo 14 launch vehicle began at 6:30 a.m. EST Nov. 9. About 4 1/2 to 5 hours was required for the 3 1/2-mile trip from the vertical assembly building to the launch pad. Apollo 14 astronauts Alan B. Shepard, Jr., commander; Stuart A. Roosa, command module pilot; and Edgar D. Mitchell, lunar module pilot are scheduled to be aboard the launch vehicle January 31, 1971.

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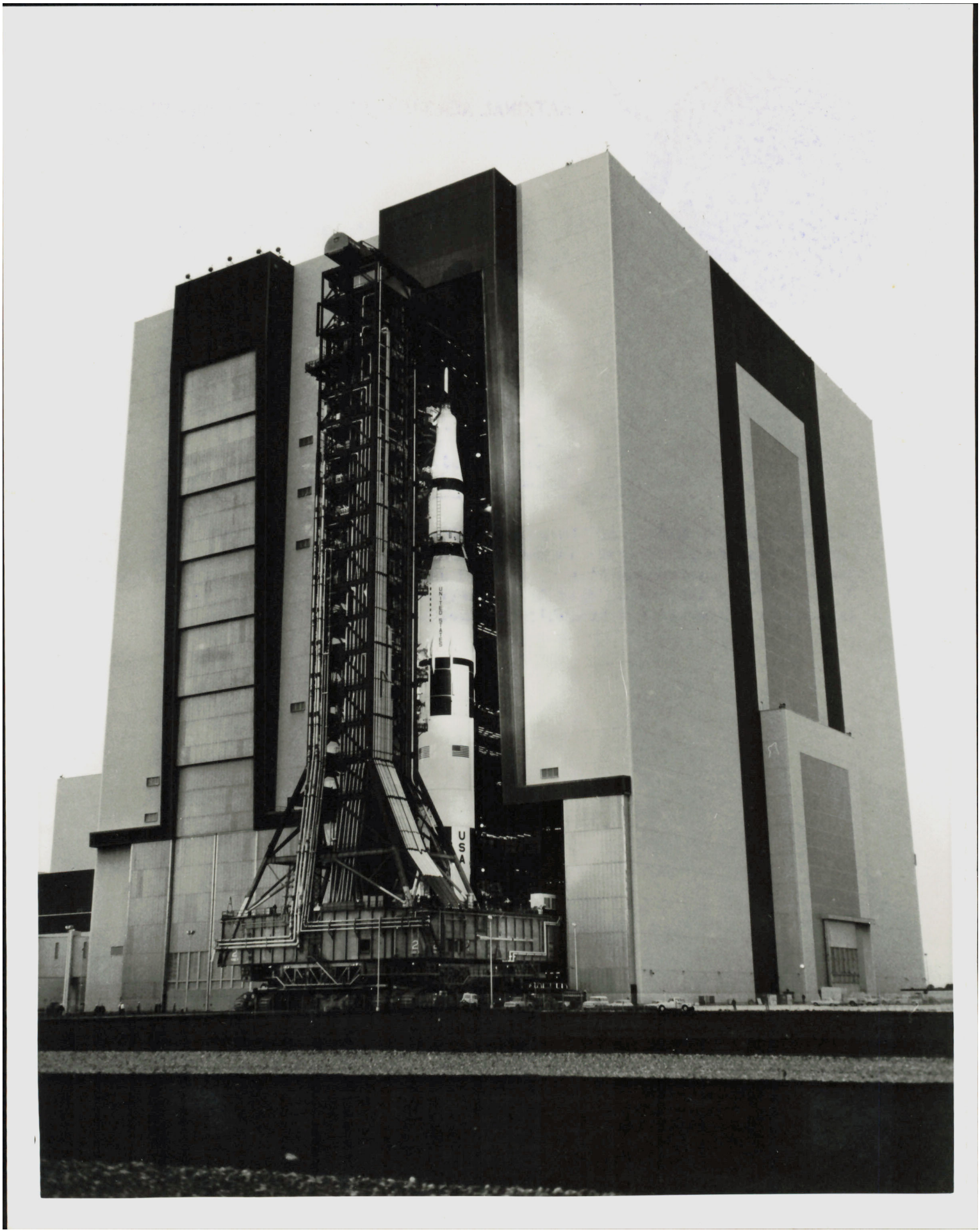
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PHOTO NO. 70-H-1472
70-HC-1051

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KENNEDY SPACE CENTER, FLA.--Rollout of the Apollo 14 launch vehicle began at 6:30 a.m. EST Nov. 9. About 4 1/2 to 5 hours was required for the 3 1/2-mile trip from the vertical assembly building to the launch pad. Apollo 14 astronauts Alan B. Shepard, Jr., commander; Stuart A. Roosa, command module pilot; and Edgar D. Mitchell, lunar module pilot, are scheduled to be aboard the launch vehicle January 31, 1971.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

NO SMOKING
APOLLO 14
Shepard Roosa Mitchell

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

FOR RELEASE: January 31, 1971

PHOTO NO. 106-KSC-71PC-99
71-HC-230
71-H-284

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KENNEDY SPACE CENTER, Fla.--Apollo 14 Mission Commander Alan B. Shepard, Jr., and a technician examine weather conditions at Launch Complex 39A following their arrival from the crew quarters. The launch was delayed 40 minutes due to rain, but lifted off successfully at 4:03 P.M. EST today.

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA 32899

FOR RELEASE JULY 25, 1971 PHOTO NO. 108-KSC-71P- 441
71-H- 1168

KENNEDY SPACE CENTER, Fla.-- Apollo 14 Astronaut Edgar D. Mitchell demonstrates the flexibility of the new Apollo spacesuit, designated the EV-A-7LB. The suit, shown here without its outer layers, differs from earlier Apollo spacesuits by having a waist joint that allows greater mobility while the suit is pressurized. This enables the astronauts to stoop down to set up lunar surface experiments, gather samples and sit on the lunar roving vehicle. It incorporates other features used in earlier suits, including special joints at the knees, wrists, elbows, ankles and thighs. ILC Industries, Inc. fabricates the Apollo spacesuit for the National Aeronautics and Space Administration.

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FOR RELEASE JULY 25, 1971 PHOTO NO. 108-KSC-71P-440
71-H-1167

KENNEDY SPACE CENTER, Fla.--- Apollo 14 Astronaut Edgar D. Mitchell demonstrates the flexibility of the new Apollo spacesuit, designated the EV-A-7LB. The suit, shown here without its outer layers, differs from earlier Apollo spacesuits by having a waist joint that allows greater mobility while the suit is pressurized. This enables the astronauts to stoop down to set up lunar surface experiments, gather samples and sit on the lunar roving vehicle. It incorporates other features used in earlier suits, including special joints at the knees, wrists, elbows, ankles and thighs. ILC Industries, Inc. fabricates the Apollo spacesuit for the National Aeronautics and Space Administration.

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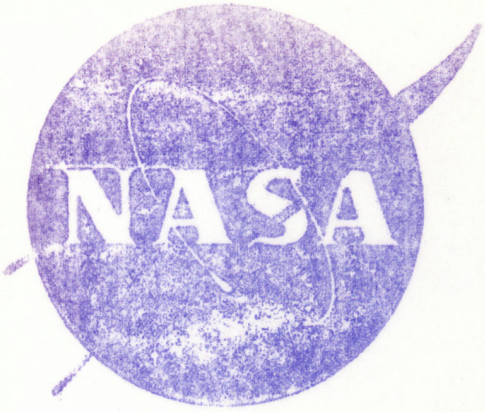

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FOR RELEASE: July 25, 1971
PHOTO NO. 71-H-1173
108-KSC-71P-446

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KENNEDY SPACE CENTER, Fla.--Apollo 14 Astronaut Edgar D. Mitchell demonstrates the flexibility of the new Apollo spacesuit, designated the EV-A-7LB. The suit, shown here without its outer layers, differs from earlier Apollo spacesuits by having a wasist joint that allows greater mobility while the suit is pressurized. This enables the astronauts to stoop down to set up lunar surface experiments, gather samples and sit on the lunar roving vehicle. It incorporates other features used in earlier suits, including special joints at the knees, wrists, elbows, ankles and thighs. ILC Industries, Inc. fabricates the Apollo spacesuit for the National Aeronautics and Space Administration.

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FOR RELEASE JULY 25, 1971 PHOTO NO. 108-KSC-71P-444

71-H-1171

KENNEDY SPACE CENTER, Fla.--- Apollo 14 Astronaut Edgar D. Mitchell demonstrates the flexibility of the new Apollo spacesuit, designated the EV-A-7LB. The suit, shown here without its outer layers, differs from earlier Apollo spacesuits by having a waist joint that allows greater mobility while the suit is pressurized. This enables the astronauts to stoop down to set up lunar surface experiments, gather samples and sit on the lunar roving vehicle. It incorporates other features used in earlier suits, including special joints at the knees, wrists, elbows, ankles and thighs. ILC Industries, Inc. fabricates the Apollo spacesuit for the National Aeronautics and Space Administration.

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FOR RELEASE JULY 25, 1971 PHOTO NO. 108-KSC-71P-438
71-H-1165

KENNEDY SPACE CENTER, Fla.--- Apollo 14 Astronaut Edgar D. Mitchell demonstrates the flexibility of the new Apollo spacesuit, designated the EV-A-7LB. The suit, shown here without its outer layers, differs from earlier Apollo spacesuits by having a waist joint that allows greater mobility while the suit is pressurized. This enables the astronauts to stoop down to set up lunar surface experiments, gather samples and sit on the lunar roving vehicle. It incorporates other features used in earlier suits, including special joints at the knees, wrists, elbows, ankles and thighs. ILC Industries, Inc. fabricates the Apollo spacesuit for the National Aeronautics and Space Administration.

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FOR RELEASE: January 31, 1971
PHOTO NO. 108-KSC-71P-88
71-H-239

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KENNEDY SPACE CENTER, Fla.--Apollo 14 Lunar Module Pilot Edgar D. Mitchell examines watch he later took on his launch to the Moon today with Astronauts Alan B. Shepard, Jr., and Stuart A. Roosa. They lifted off aboard an Apollo/Saturn V space vehicle at 4:03 p.m. EST from the Kennedy Space Center's Launch Complex 39A.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

ROOSA

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

FOR RELEASE: January 31, 1971
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71-H-235

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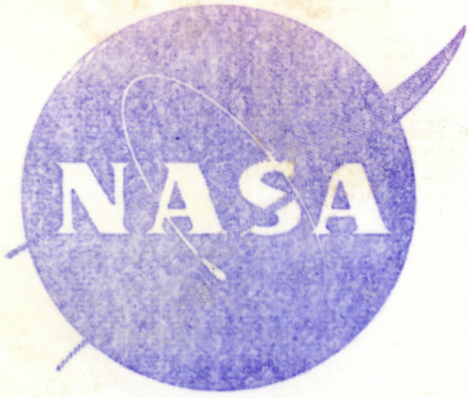
KENNEDY SPACE CENTER, Fla.--Apollo 14 Command Module Pilot Stuart A. Roosa watches technician suit him up today for his scheduled launch to the Moon with Astronauts Alan B. Shepard, Jr. and Edgar D. Mitchell.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

APOLLO
SHEPARD
NASA



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FOR RELEASE: January 31,1971

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KENNEDY SPACE CENTER, FLA.--Apollo 14 Mission Commander Alan B. Shepard, Jr., appears relaxed during suiting activities for his launch to the Moon with Astronauts Stuart A. Roosa and Edgar D. Mitchell. Liftoff took place today at 4:03 p.m. EST from the Kennedy Space Center s Launch Complex 39A. The nine-day-mission is designed to return new information about the early history of the Moon, Earth and solar system.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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FOR RELEASE: July 25, 1971
PHOTO NO. 71-H-1169
108-KSC-71P-442

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KENNEDY SPACE CENTER, FLA.--Apollo 14 Astronaut Edgar D. Mitchell demonstrates the flexibility of the new Apollo spacesuit, designated the EV-A-7LB. The suit, shown here without its outer layers, differs from earlier Apollo spacesuits by having a waist joint that allows greater mobility while the suit is pressurized. This enables the astronauts to stoop down to set up lunar surface experiments, gather samples and sit on the lunar roving vehicle. It incorporates other features used in earlier suits, including special joints at the knees, wrists, elbows, ankles and thighs. ILC Industries, Inc. fabricates the Apollo spacesuit for the National Aeronautics and Space Administration.

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NASA
S-71-15088

Edgar D. ~~Mitchell~~ Mitchell Jr. (Family)

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HOUSTON, TEXAS 77058

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COLOR (PORTRAIT)

JAN 1971 S-71-15088

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

MITCHELL AND FAMILY---This is a family portrait of Astronaut Edgar D. Mitchell and his family. Mitchell is the lunar module pilot of the Apollo 14 lunar landing mission. The family includes, left to right, Mrs. Mitchell, the former Louise Elizabeth Randall; Elizabeth R., born on March 24, 1959; and Karlyn L., born on Aug. 12, 1953.

FRI APR 16 1971

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APR 22 1971

½ col Mitchell (man)
½ col Mrs. Mitchell (woman)
w/sky Fr. No*

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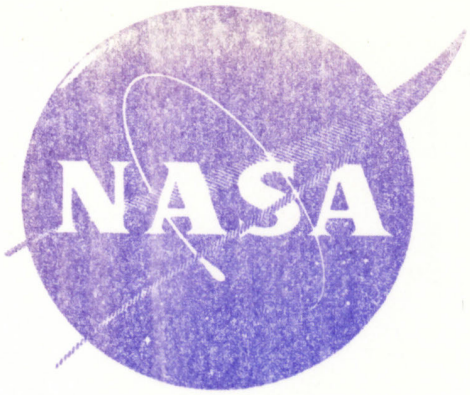

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WASHINGTON, D.C. 20546

FOR RELEASE: February 19, 1971
PHOTO NO. 71-H-343

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS--APOLLO 14 ROCKS--The two moon-exploring crewmen of the Apollo 14 lunar landing mission show off some of the largest of the lunar rocks they collected on their mission during a through-the-glass meeting with newsmen in the Crew Reception Area of the Lunar Receiving Laboratory at the Manned Spacecraft Center. Astronaut Edgar D. Mitchell (left), lunar module pilot, holds up a tote bag in which some of the lunar samples were stowed, while Astronaut Alan B. Shepard, Jr., commander, looks on. The largest sample brought back on the mission, a basketball-size rock, is said to be the largest lunar rock collected in three lunar landing missions for the National Aeronautics and Space Administration.

31

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

JOHN F. KENNEDY SPACE CENTER, NASA
KENNEDY SPACE CENTER, FLORIDA 32899

FOR RELEASE JULY 25, 1971 PHOTO NO.108-KSC-71P-445
71-H-1172

KENNEDY SPACE CENTER, Fla.-- Apollo 14 Astronaut Edgar D. Mitchell demonstrates the flexibility of the new Apollo spacesuit, designated the EV-A-7LB. The suit, shown here without its outer layers, differs from earlier Apollo spacesuits by having a waist joint that allows greater mobility while the suit is pressurized. This enables the astronauts to stoop down to set up lunar surface experiments, gather samples and sit on the lunar roving vehicle. It incorporates other features used in earlier suits, including special joints at the knees, wrists, elbows, ankles and thighs. ILC Industries, Inc. fabricates the Apollo spacesuit for the National Aeronautics and Space Administration.

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70-2669

APOLLO 14

26FEB 1971

70-2668

APOLLO 14

26FEB 1971

70-2667

APOLLO 14

26FEB 1971

APOLLO 14
Shepard
NASA
ROOSA

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

FOR RELEASE: Immediate
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PRIME CREW--Commander Alan B. Shepard, Jr., center, command module pilot Stuart A. Roosa, left, and lunar module pilot Edgar D. Mitchell, right, are shown with their Apollo emblem.

Project Apollo 14

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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Project Apollo 14

COLOR

13-18 FEB 1970 S-70-29639

SONOITA, STATE OF SONORA, MEXICO

APOLLO 14 TRAINING---A group of Apollo 14 astronauts and their geologist instructor look over the terrain during geological and lunar surface simulation training in the Pinacate volcanic area of northwestern Sonora, Mexico. They are (from foreground) Astronaut Edgar D. Mitchell, prime crew lunar module pilot; Astronaut Alan B. Shepard Jr., prime crew commander; Astronaut Eugene A. Cernan (arms folded), backup crew commander; Astronaut Joe H. Engle (in rear of Cernan), backup crew lunar module pilot; and Dr. Richard H. Jahns, a geologist with the California Institute of Technology.

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S-70-34419

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COLOR

APRIL 1970 S-70-34419

KAPOHO, HAWAII

APOLLO 14 EVA TRAINING--Astronaut Eugene A. Cernan, back-up crew commander of the Apollo 14 mission, uses a stereo camera specially built for field geology experimentation. Back-up crew members joined the two prime crewmen scheduled to walk on the Moon, on the field trip to various sites in Hawaii having features similar to those found on the lunar surface. Dr. Al Chidester, a geologist with the U.S. Geological Survey (USGS) in Flagstaff, Ariz., accompanies Cernan. A fault scarp (steep embankment) forms the background.

Eugene A. Cernan

National Aeronautics and
Space Administration

71-20784

Lyndon B. Johnson Space Center
Houston, Texas 77058

National Aeronautics and Space Administration

Houston, Texas 77058

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COLOR

5 FEBRUARY 1971 S71-20784

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 14 TV VIEW OF SHEPARD GOLFING ON MOON --- Astronaut Alan B. Shepard Jr., commander, can be seen preparing to swing at a golf ball during a television transmission near the close of the second extravehicular activity (EVA-2) at the Apollo 14 Fra Mauro landing site. Shepard is using a real golf ball and an actual six iron, attached to the end of the handle for the contingency sample return. Astronaut Edgar D. Mitchell, lunar module pilot, looks on. Also visible in the picture are the erectable S-Band antenna (left foreground). Astronaut Stuart A. Rossa, command module pilot, remained with the Command and Service Modules (CSM) in lunar orbit, while Shepard and Mitchell descended in the Lunar Module (LM) to explore the Moon.

M 127531

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

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NASA National Aeronautics and Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058

70-55387

Alan B. Shepard Jr.
-Astronaut-

National Aeronautics and Space Administration
Houston, Texas 77058

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COLOR (PORTRAIT)

DECEMBER 1970 S70-55387

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 14 CREW PORTRAIT --- These three astronauts are the prime crew of the Apollo 14 lunar landing mission. Left to right, are Stuart A. Roosa, command module pilot; Alan B. Shepard Jr., commander; and Edgar D. Mitchell, lunar module pilot. The Apollo 14 emblem is in the left background.

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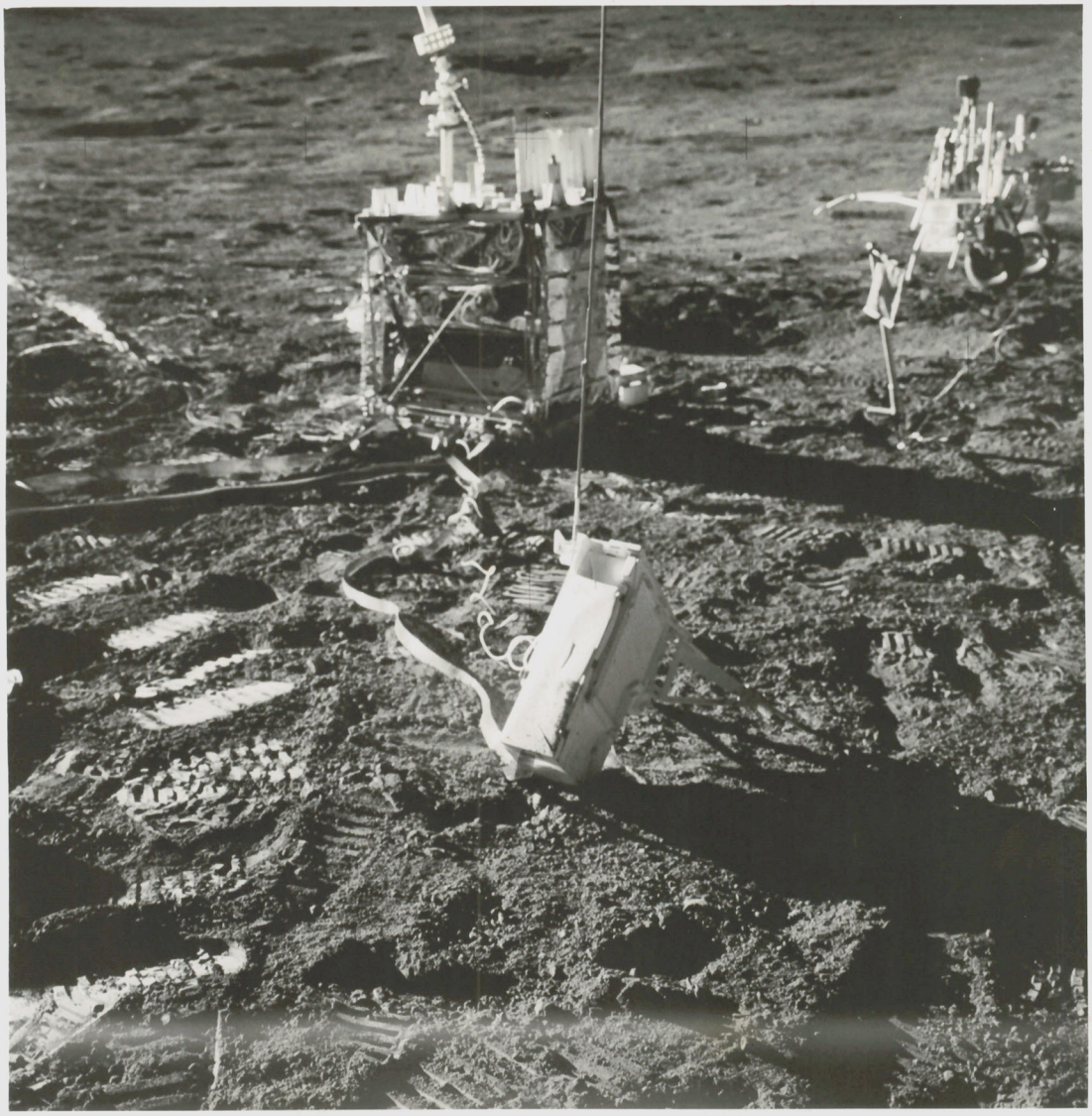

Project Apollo 14

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5 FEB 1971 AS14-67-9361

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 14 ALSEP ON MOON-----A close-up view of two components of the Apollo Lunar Surface Experiments Package (ALSEP) which the Apollo 14 astronauts deployed on the Moon during their first extravehicular activity (EVA-1). In the center background is the ALSEP's Central Station; and in the foreground is the Mortar Package Assembly of the ALSEP's Active Seismic Experiment (ASE). The Modularized Equipment Transporter (MET) can be seen in the right background. While Astronauts Alan B. Shepard Jr. and Edgar D. Mitchell descended in the Lunar Module to explore the Moon, Astronaut Stuart A. Roosa remained with the Command and Service Modules in lunar orbit.

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MON APR 19 1971

NASA Photo SUN APR 18 1971

APOLLO 14 MORTAR READY FOR FIRING
In Background Is Transmitting Center for Experiments

NASA
S-70-29535

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13-18 FEB 1970 S-70-29535

SONOITA, STATE OF SONORA, MEXICO

APOLLO 14 TRAINING---A group of Apollo 14 astronauts are shown, along with their geologist instructors, participating in geological and lunar surface simulation training in the Pinacate volcanic area of northwestern Sonora, Mexico. Left to right, are Astronaut Alan B. Shepard Jr. (leading), prime crew commander; Astronaut Joe H. Engle (center foreground), backup crew lunar module pilot; Astronaut Edgar D. Mitchell (pulling the Modular Equipment Transporter), prime crew lunar module pilot; Dr. Richard H. Jahns (in center background), a geologist with the California Institute of Technology; and Astronaut Eugene A. Cernan (next to the MET), backup crew commander.

Project Apollo 14

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Project Apollo 14

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MON FEB 9 1970

NASA Photo

LUNAR RICKSHAW FOR APOLLO 14
Two Handles Have Since Been Changed to One

NASA
S-70-45652

NASA-Apollo 14

The Apollo 14 astronauts, above, are preparing for their moon mission launch scheduled for Jan. 31. At left, Capt Alan B. Shepard Jr, crew commander and the first American to fly in space, stands at the foot of the lunar lander, preparing to inspect the craft with Major Stuart Roosa, middle, and Cmdr Edgar Mitchell. At right, Shepard and Mitchell work in pressurized suits with some of the scientific equipment they will leave on the lunar surface. —NASA Photos

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7 APR 1971

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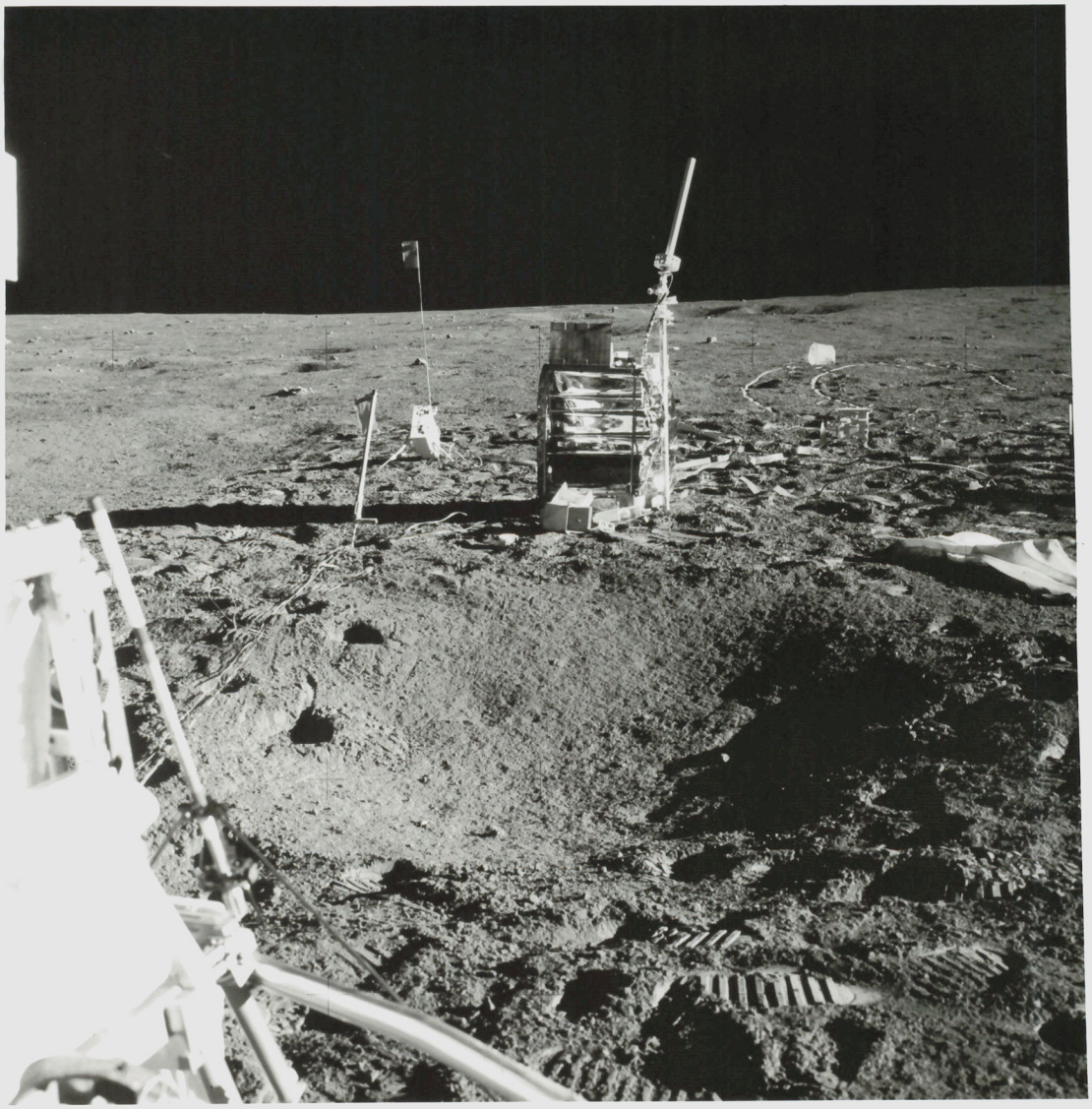

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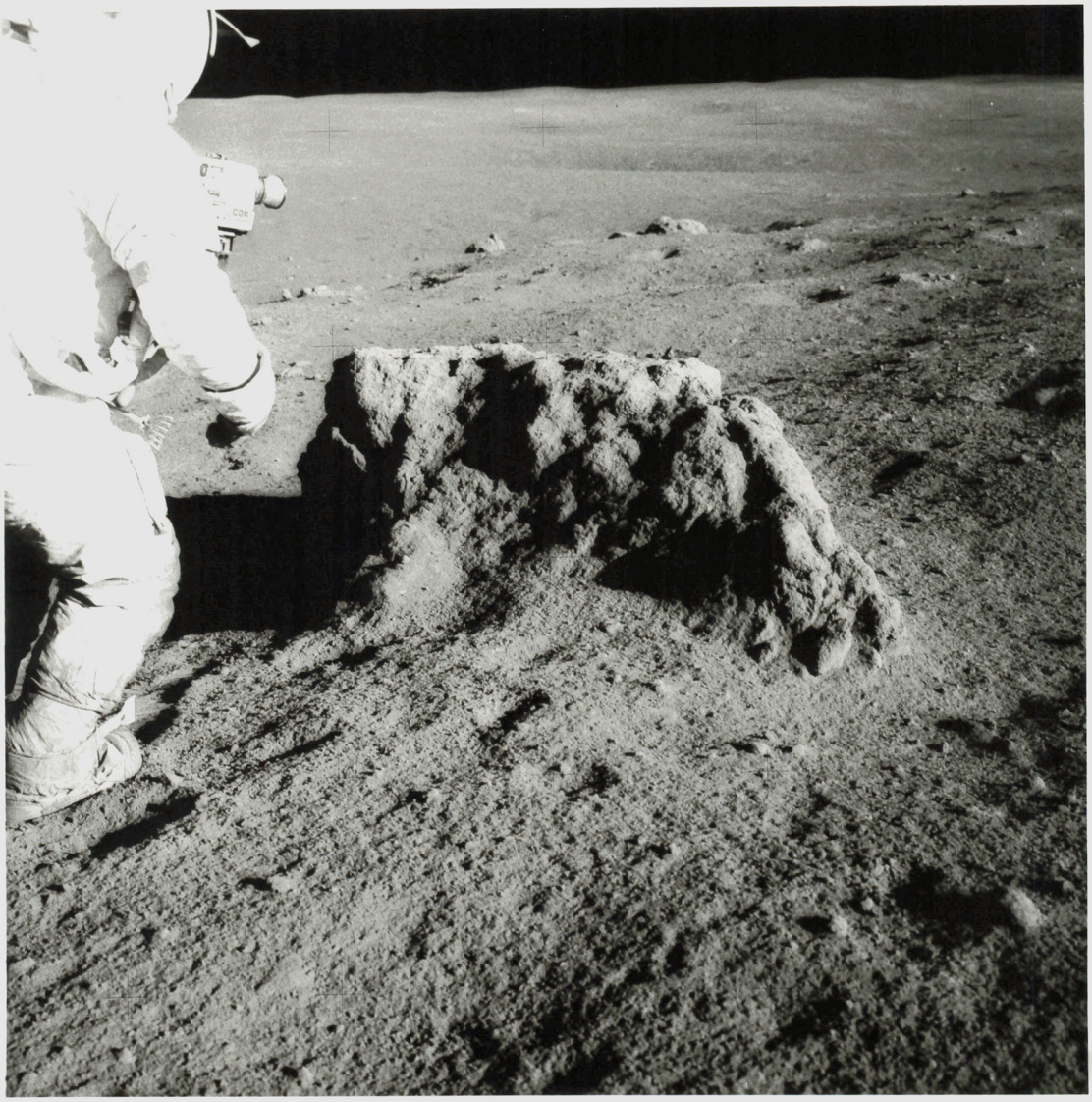

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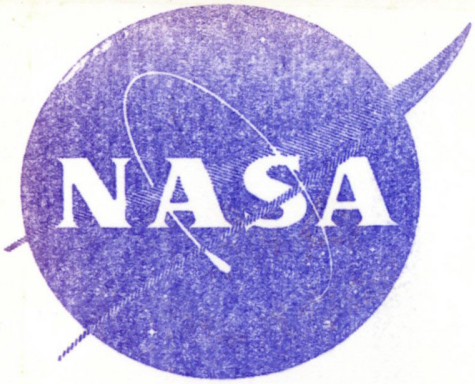

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FOR RELEASE: January 31, 1971

PHOTO NO. 108-KSC-71P-134
71-H-276

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KENNEDY SPACE CENTER, Fla.--Vice President Spiro T. Agnew, Prince and Princess Carlos of Spain, and Neil A. Armstrong during the Apollo 14 pre-launch activities today at the Kennedy Space Center.

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

FOR RELEASE: January 31, 1971

PHOTO NO. 108-KSC-71P-81
71-H-232

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KENNEDY SPACE CENTER, Fla.--It's all "go" for the launch of Apollo 14 as Astronaut Alan B. Shepard, Jr., leads crewmen Stuart A. Roosa, center, and Edgar D. Mitchell from the suiting room in the Manned Spacecraft Operations Building. The space pilots will be launched on the Nation's sixth manned voyage to the Moon.

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WASHINGTON, D. C. 20546

FOR RELEASE: Filed: March 2, 1971
PHOTO NO. 71-H-456

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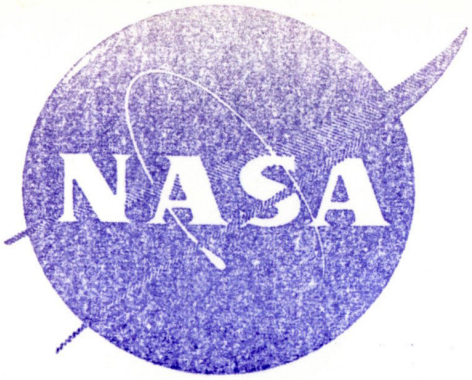
WASHINGTON, D. C.--The Apollo 14 Astronauts' wives attend the Apollo 14 Mission briefing, at the House Committee on science and Astronautics, seated left to right are; Mrs. Stuart Roosa, Mrs. Alan B. Shepard, Mrs George Low, wife of the Acting NASA Administrator, and Mrs. Edgar D. Mitchell.

PHOTO CREDIT -- NASA or National Aeronautics and Space Administration



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FOR RELEASE: Filed: March 2, 1971
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71-H-462

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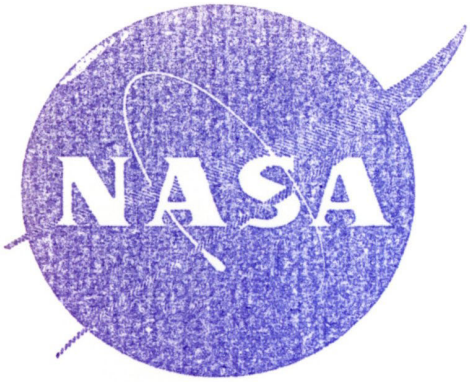
WASHINGTON, D.C. -- The Apollo 14 astronauts Edgar D. Mitchell, Alan B. Shepard, and Stuart Roosa, flanked by ranking members of the Senate pose on the capitol steps.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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FOR RELEASE: Filed: March 1, 1971
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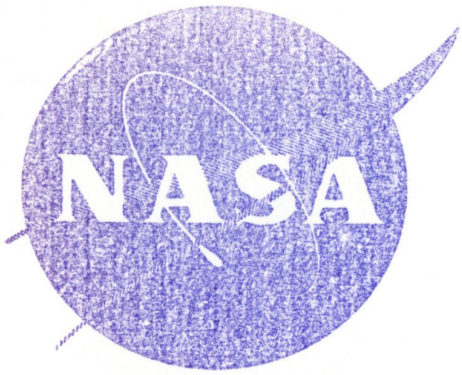
WASHINGTON, D.C.--President Nixon congratulates Apollo 14 Command Module Pilot Stuart Roosa, after presenting the NASA distinguished service medal in ceremonies conducted in the East Room of the White House.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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FOR RELEASE: Filed: March 4, 1971
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71-HC-398

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WASHINGTON, D. C.--President Nixon prepares to give autographed golf balls to the three Apollo 14 Astronauts Alan Shepard, Edgar D. Mitchell, and Stuart Roosa, and a special golf ball to Vice President Agnew for putting only.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

ALAN SHEPARD
EDGAR MITCHELL
STUART ROOSA
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION U.S.A.

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

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WASHINGTON, D. C. -- The Apollo 14 flight crew, Alan B. Shepard, Edgar D. Mitchell and Stuart Roosa meet the press at a news conference conducted in the State Department auditorium.

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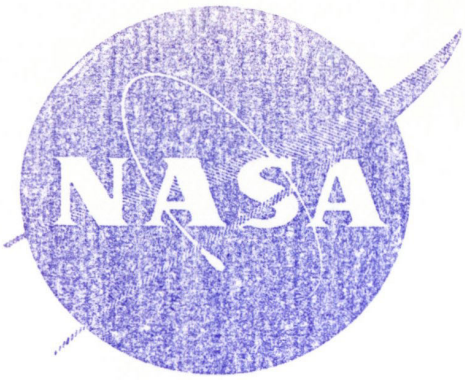

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FOR RELEASE: Filed: March 2, 1971
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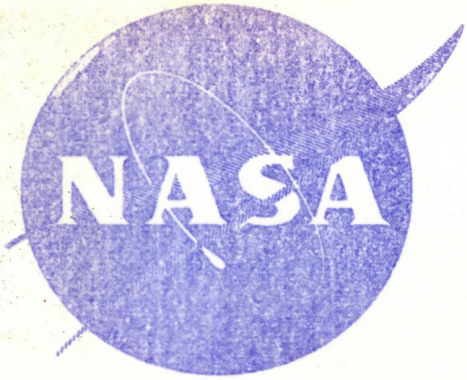
WASHINGTON, D. C.--Apollo 14 Commander Alan B. Shepard addresses the assembled members and guests of the House of Representatives on the highlights of the NASA Apollo 14 Mission; on his left, next to the Lecturn are crew members Stuart Roosa, and Edgar Mitchell.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

USS NEW ORLEANS
APOLLO 14
NASA



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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FOR RELEASE: February 9, 1971
PHOTO NO. 108-KSC-71P-163
71-H-315

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ABOARD THE USS NEW ORLEANS--The Apollo 14 astronauts wave to personnel aboard the prime recovery vessel as they leave helicopter which carried them from their spacecraft's splashdown point, 780 nautical miles southeast of American Samoa. Wearing filter masks as part of their quarantine period, Astronauts, left to right, Stuart A. Roosa, Edgar D. Mitchell and Alan B. Shepard, Jr., pause briefly before entering the Mobile Quarantine Facility. They splashed down at 4:05 p.m. EST Feb. 9, 1971, at the completion of the Nation's third manned lunar landing mission.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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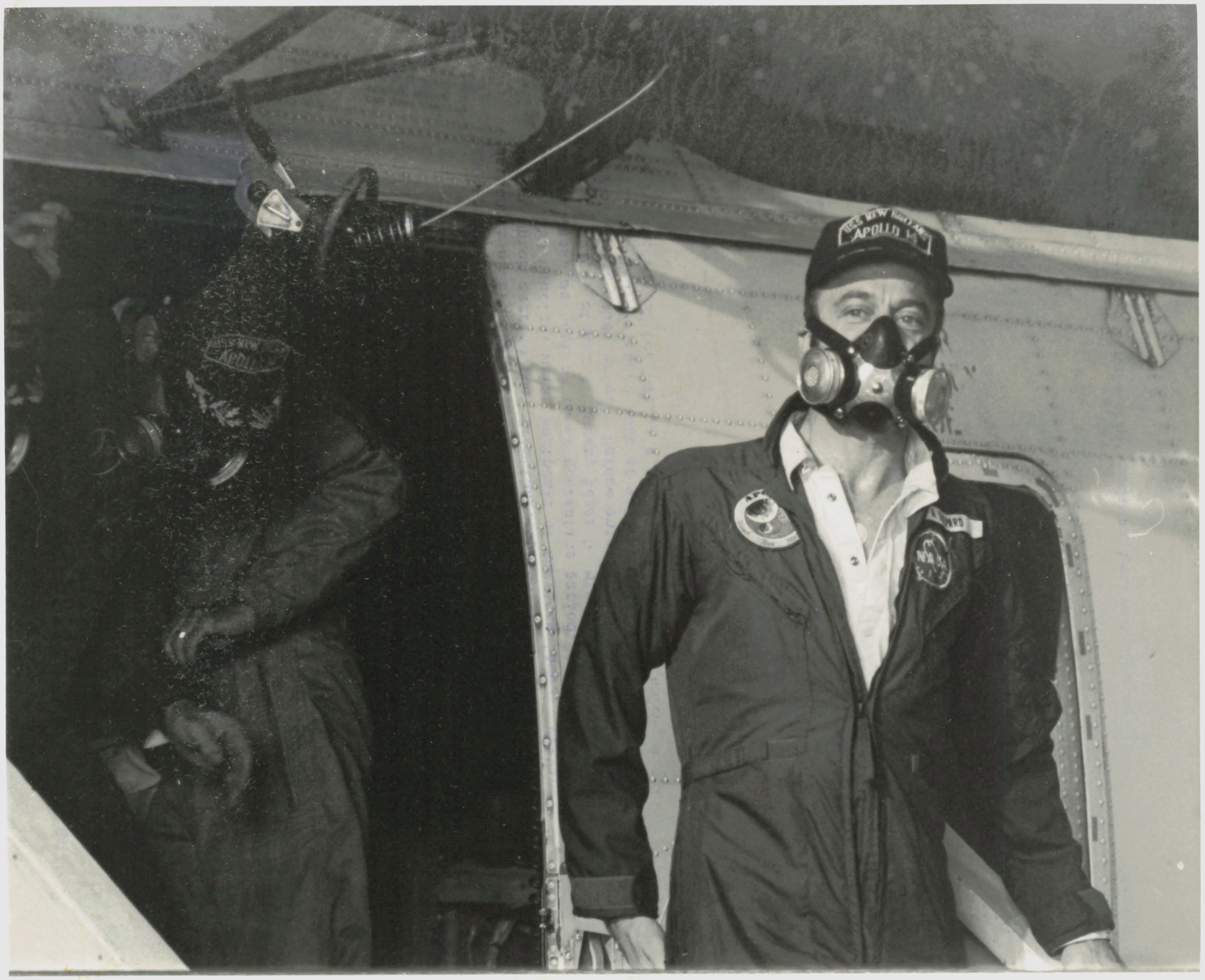
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D.C. 20546

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71-H-316

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ABOARD THE USS NEW ORLEANS--Apollo 14 Commander Alan B. Shepard, Jr., leads Astronauts Edgar D. Mitchell and Stuart A. Roosa from recovery helicopter after it touched down on deck of the prime recovery vessel today. The astronauts wore filter masks, which a pararescueman handed them in their spacecraft, as part of their quarantine. Splashdown took place at 4:05 p.m. EST Feb. 9, 1971, approximately 780 nautical miles southeast of American Samoa, after the space pilots returned from the Nation's third manned lunar landing mission.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

USS NEW ORLE
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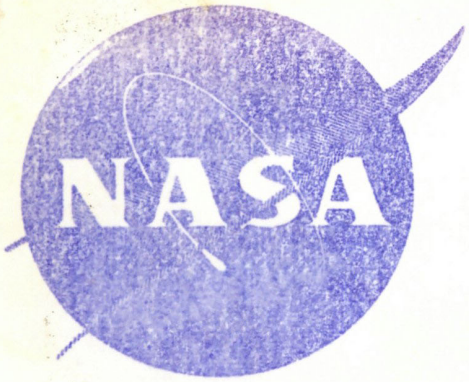

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71-H-317

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ABOARD THE USS NEW ORLEANS -- The Apollo 14 astronauts greet personnel aboard the USS New Orleans after they were flown by helicopter from their splashdown point in the Pacific Ocean, 780 nautical miles southeast of American Samoa. They are, left to right, Stuart A. Roosa, Edgar D. Mitchell and Alan B. Shepard, Jr. After completing a highly successful lunar landing mission they splashed down at 4:05 p.m. EST Feb. 9, 1971, less than a mile from their planned landing point.

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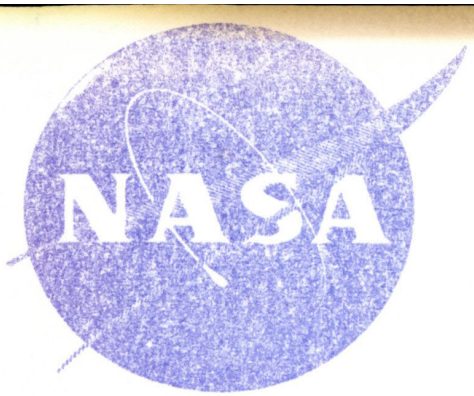

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Washington, D. C.--Speaker of the House Carl Albert greets the Apollo 14 Astronauts Stuart Roosa, Edgar Mitchell, and Alan Shepard, flanked by Rep. George P. Miller (left) and Rep. James G. Fulton (right), on their arrival at the Capitol.

CENTRAL PRESS ASSOCIATION
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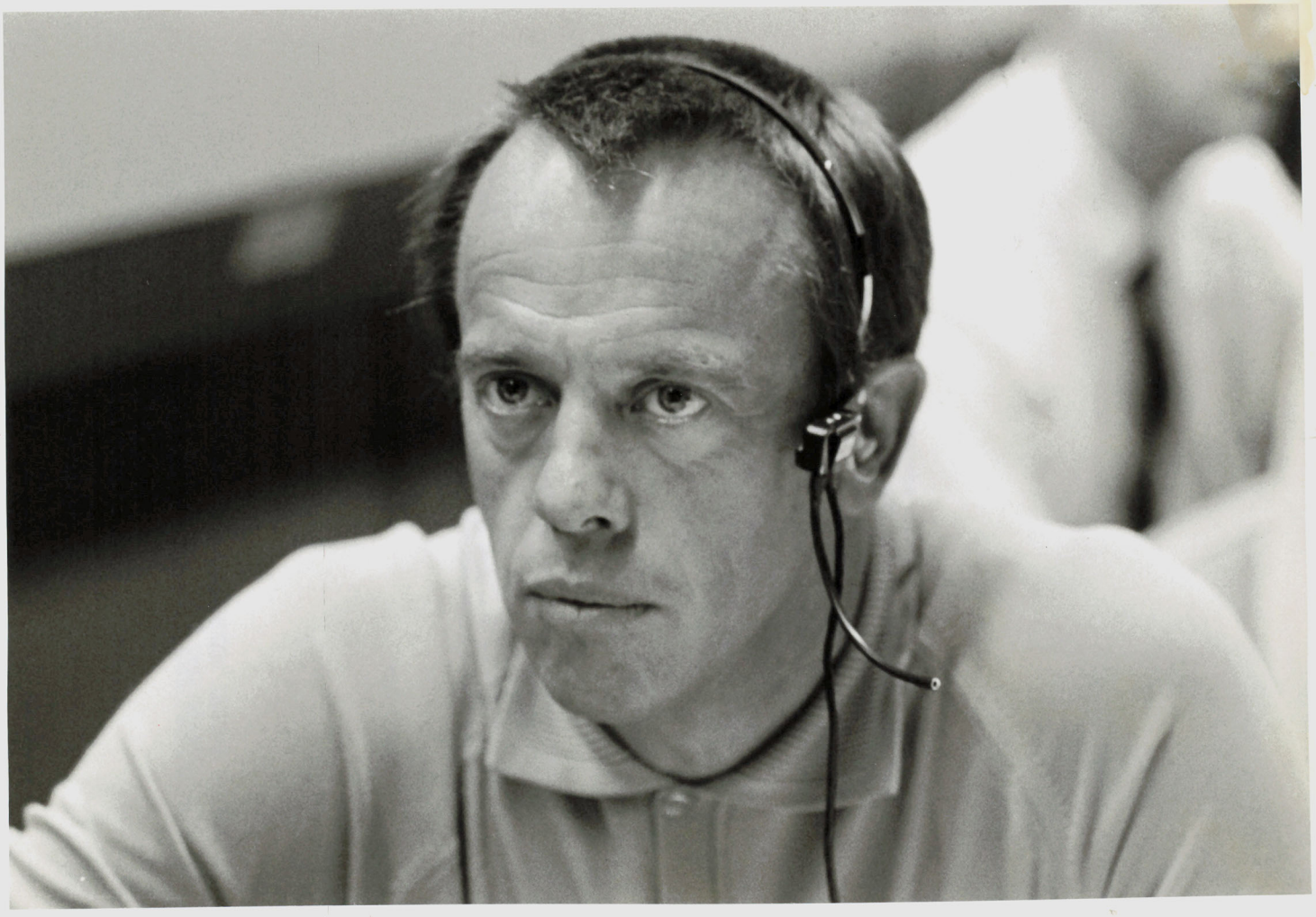
NASA
S-70-39004



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B&W

14 APRIL 1970 S-70-34904

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 13 MCC--Astronaut Alan B. Shepard Jr., prime crew commander of the Apollo 14 mission, monitors communications between the Apollo 13 spacecraft and Mission Control Center. He is seated at a console in the Mission Operations Control Room of the MCC, Manned Spacecraft Center. The main concern of the moment was action taken by the three Apollo 13 crewmen--Astronauts James A. Lovell Jr., John L. Swigert Jr. and Fred W. Haise Jr.--to make corrections inside the spacecraft following discovery of an oxygen cell failure several hours earlier.

Alan Shepard Jr

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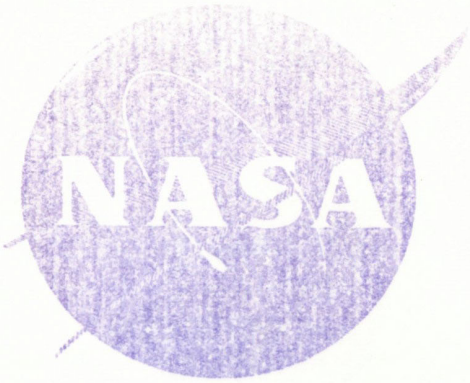

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS--APOLLO 14 ROCK--Gary Meschi, left, and Jim Bacak, right, glove operators employed by Brown & Root/Northrop on the Manned Spacecraft Center site, work with newly-arrived Apollo 14 lunar sample material in the Sterile Nitrogen Atmospheric Processing (SNAP) line in the Lunar Receiving Laboratory (LRL) at MSC. Pictured in a tray is Apollo 14 sample No. 14411. Dr. Don Morrison of the Planetary and Earth Sciences Division of the Science and Applications Directorate at MSC is in center background.

10

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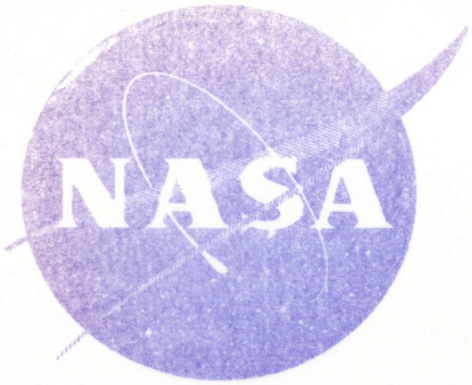

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS--APOLLO 14 SAMPLES---Glove handlers work with freshly opened Apollo 14 lunar sample material in modularized cabinets in the Lunar Receiving Laboratory at the Manned Spacecraft Center. The glove operator on the right starts to pour fine lunar material which he has just taken from a tote bag. This powdery sample was among the last to be revealed of the 90-odd pounds of material brought back to Earth by the Apollo 14 crewmen. Scientists are currently making preliminary examination of all the material collected.

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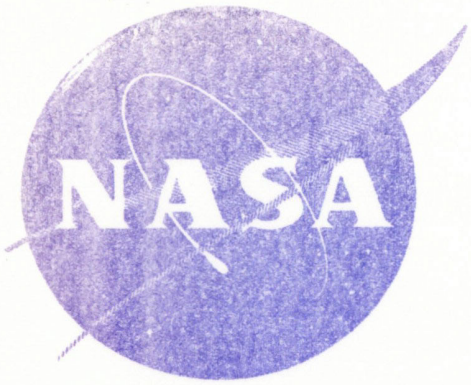

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS--APOLLO 14 ROCKS--The two moon-exploring crewmen of the Apollo 14 lunar landing mission show off some of the largest of the lunar rocks they collected on their mission, during a through-the-glass meeting with newsmen in the Crew Reception Area of the Lunar Receiving Laboratory at the Manned Spacecraft Center. Astronaut Edgar D. Mitchell, lunar module pilot, left, points toward some walnut and potato-size rocks taken from the tote bag at left, while Astronaut Alan B. Shepard, Jr., commander, stands near a large basketball-size sample, said to be the largest of all rocks brought back on three Apollo lunar landing missions.

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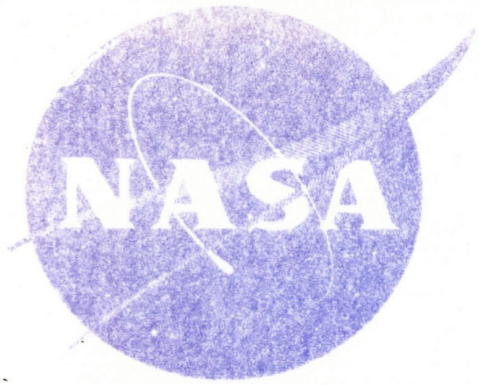

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS--Apollo 14 Astronauts Edgar Mitchell, left, and Alan Shepard look at the rock samples they brought back from the Moon. Scientists are currently making preliminary analyses of material brought back from the Moon at the Lunar Receiving Laboratory.

30

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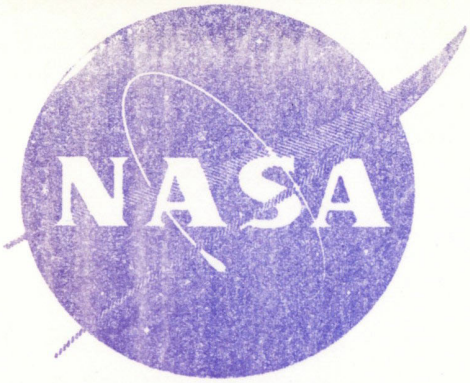

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS--APOLLO 14 ROCKS---The Apollo 14 crewmen show off some of the largest of the lunar rocks which they brought back from the Moon during a through-the-glass meeting with newsmen in the Crew Reception Area of the Lunar Receiving Laboratory at the Manned Spacecraft Center. Astronaut Alan B. Shepard, Jr., right, mission commander, leans over to view a large basketball-size rock which Astronaut Edgar D. Mitchell, lunar module pilot, points out. Astronaut Stuart A. Roosa, command module pilot, who circled the Moon in the Command and Service Modules while his two fellow crewmen explored the Moon, looks on (near the center of the photograph). Four of the 14 men quarantined with the Apollo 14 crew look on in the background.

33

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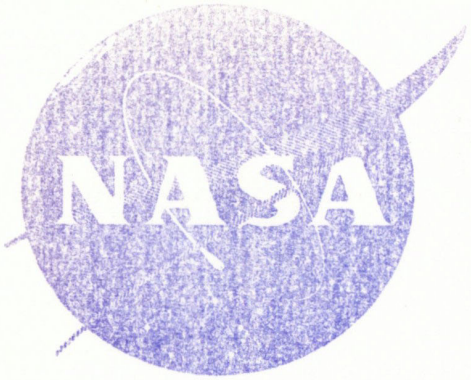

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MANNED SPACECRAFT CENTER--APOLLO 14 EVA--This view shows the javelin and golf ball used by Astronaut Alan B. Shepard, Jr., Apollo 14 commander, during the mission's second EVA (EVA-2) on February 6, 1971. Just to the left of center lies the javelin, with the golf ball just below it, almost perpendicular to it. Dark colored trails are the results of tracks made by the lunar overshoes of the astronauts and the wheels of the modularized equipment transporter (MET). This photograph was made through the right window of the lunar module, looking northwest.

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NASA
S-70-55387

NASA — Apollo 14

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

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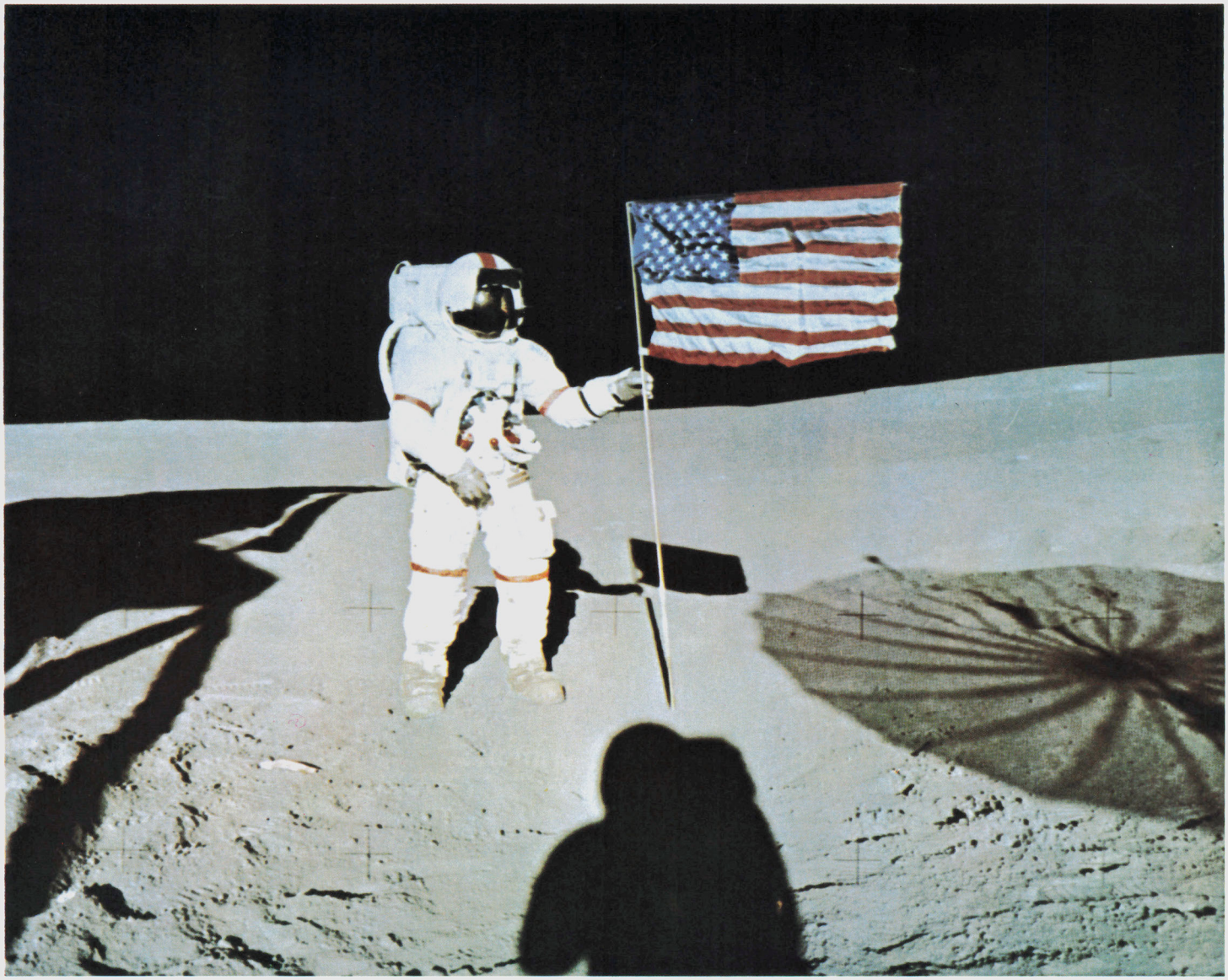
COLOR (PORTRAIT)

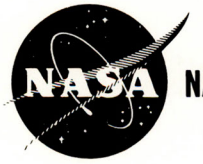
DEC 1970 S-70-55387

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 14 CREW----These three astronauts are the prime crew of the Apollo 14 lunar landing mission. They are Alan B. Shepard Jr. (center), commander; Stuart A. Roosa (left), command module pilot; and Edgar D. Mitchell (right), lunar module pilot. The Apollo 14 emblem is in the background.



APOLLO 14 EVA



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

APOLLO 14 EVA — Astronaut Alan B. Shepard, Jr., commander of the Apollo 14 lunar landing mission, stands by the deployed U.S. flag on the lunar surface during the early moments of the first extravehicular activity (EVA-1) of the mission. Shadows of the lunar module, Astronaut Edgar D. Mitchell, lunar module pilot, and the erectable S-Band antenna surround the scene of the third flag-implanting to be performed on the lunar surface. While Shepard and Mitchell were exploring the Moon, Astronaut Stuart A. Roosa, command module pilot, was maneuvering the command and service modules in lunar orbit.

MSCL-69

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APOLLO 14
Shepard
NASA
KOOSA

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.....FROM LEFT, APOLLO 14 ASTRONAUTS STUART A. ROOSA, ALAN B. SHEPARD AND EDGAR D. MITCHELL.

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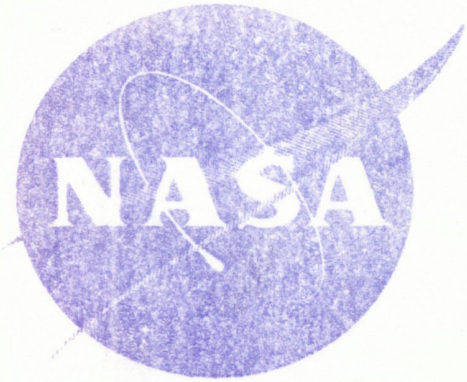

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D.C. 20546

FOR RELEASE: January 19, 1971

PHOTO NO. 108-KSC-71P-20
71-H-160

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KENNEDY SPACE CENTER, FLA. -- The Apollo 14 prime crew -- left to right, Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell walk to the elevator at Launch Complex 39A today at the start of their participation in the Countdown Demonstration Test or dress rehearsal for launch. They entered their spacecraft at the 320-foot-level of the mobile launcher, and simulated their final 2-1/2 hours before liftoff aboard a Saturn V vehicle. The space pilots will be launched on a lunar voyage no earlier then January 31, 1971.

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WASHINGTON, D.C. 20546

FOR RELEASE: Filed: March 1, 1971
PHOTO NO. 71-H-452

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WASHINGTON, D.C.--President Nixon congratulates Apollo 14 Command Module Pilot Stuart Roosa, after presenting the NASA distinguished service medal in ceremonies conducted in the East Room of the White House.

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APR - 1 1971

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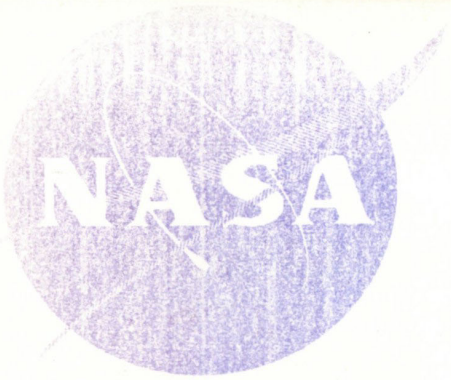
MR. CABELL



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FOR RELEASE: Filed: March 2, 1971
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WASHINGTON, D. C.--The Apollo 11 Astronauts, Stuart Roosa, Edgar D. Mitchell, and Alan B. Shepard, along with NASA Acting Administrator, Dr. George M. Low, report the Apollo 11 mission to the House Committee on science and astronautics.

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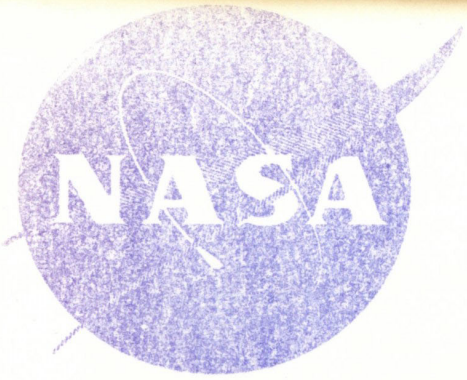

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FOR RELEASE: Filed: March 2, 1971
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WASHINGTON, D. C.--The Apollo 14 Astronauts, Stuart Roosa, Edgar D. Mitchell, and Alan B. Shepard, along with NASA Acting Administrator, Dr. George M. Low, report the Apollo 14 mission to the House Committee on science and astronautics.

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NASA
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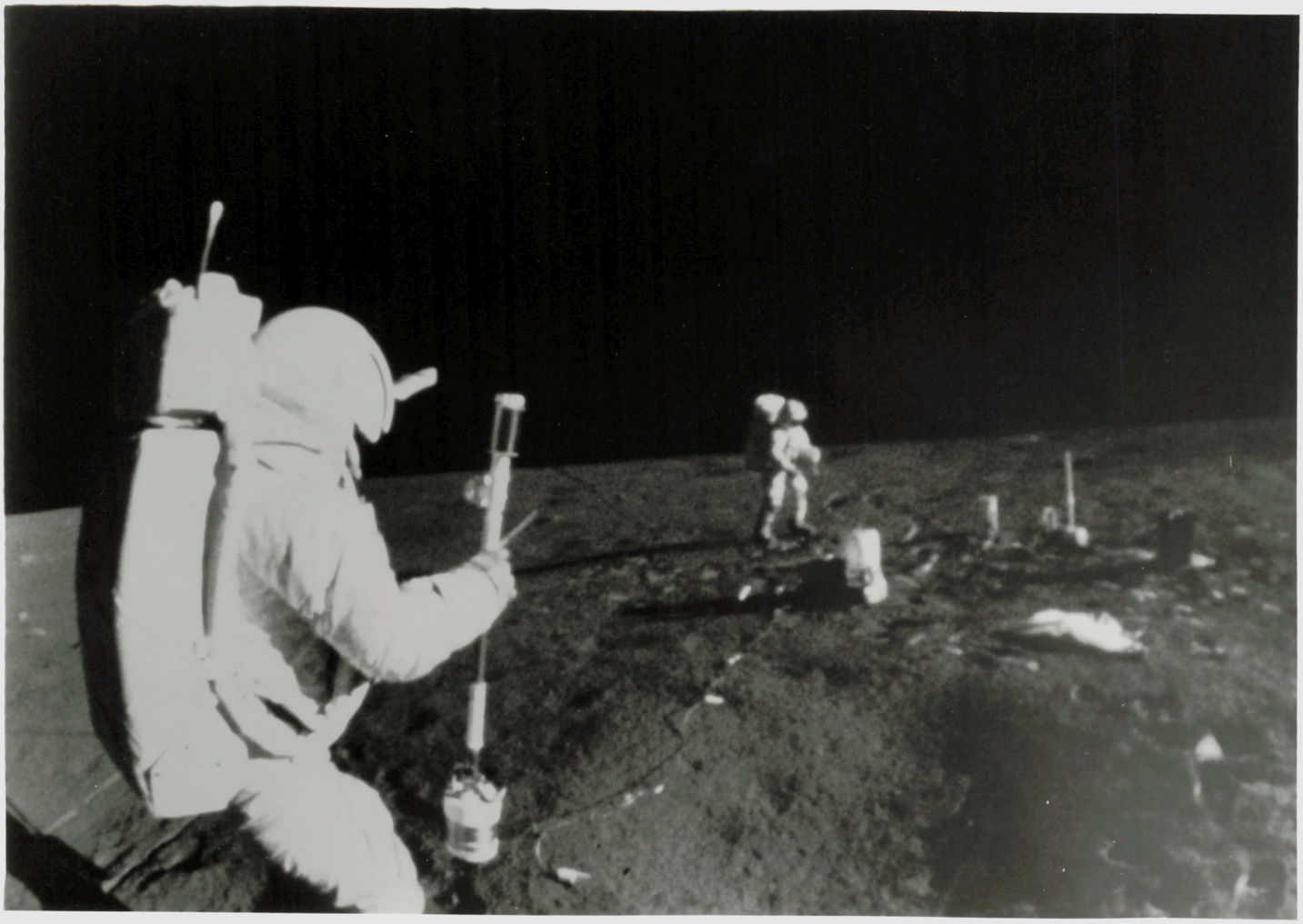
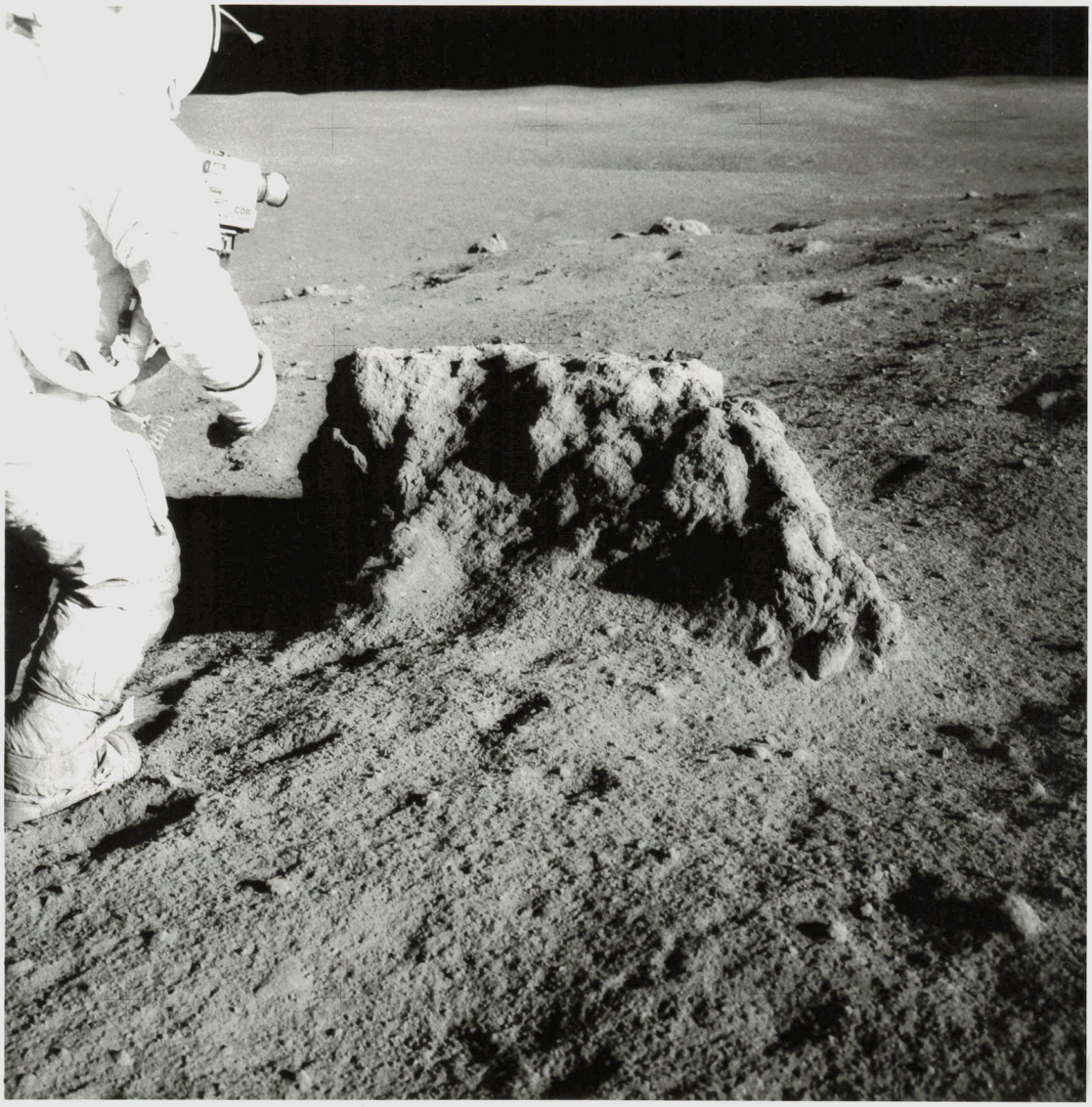


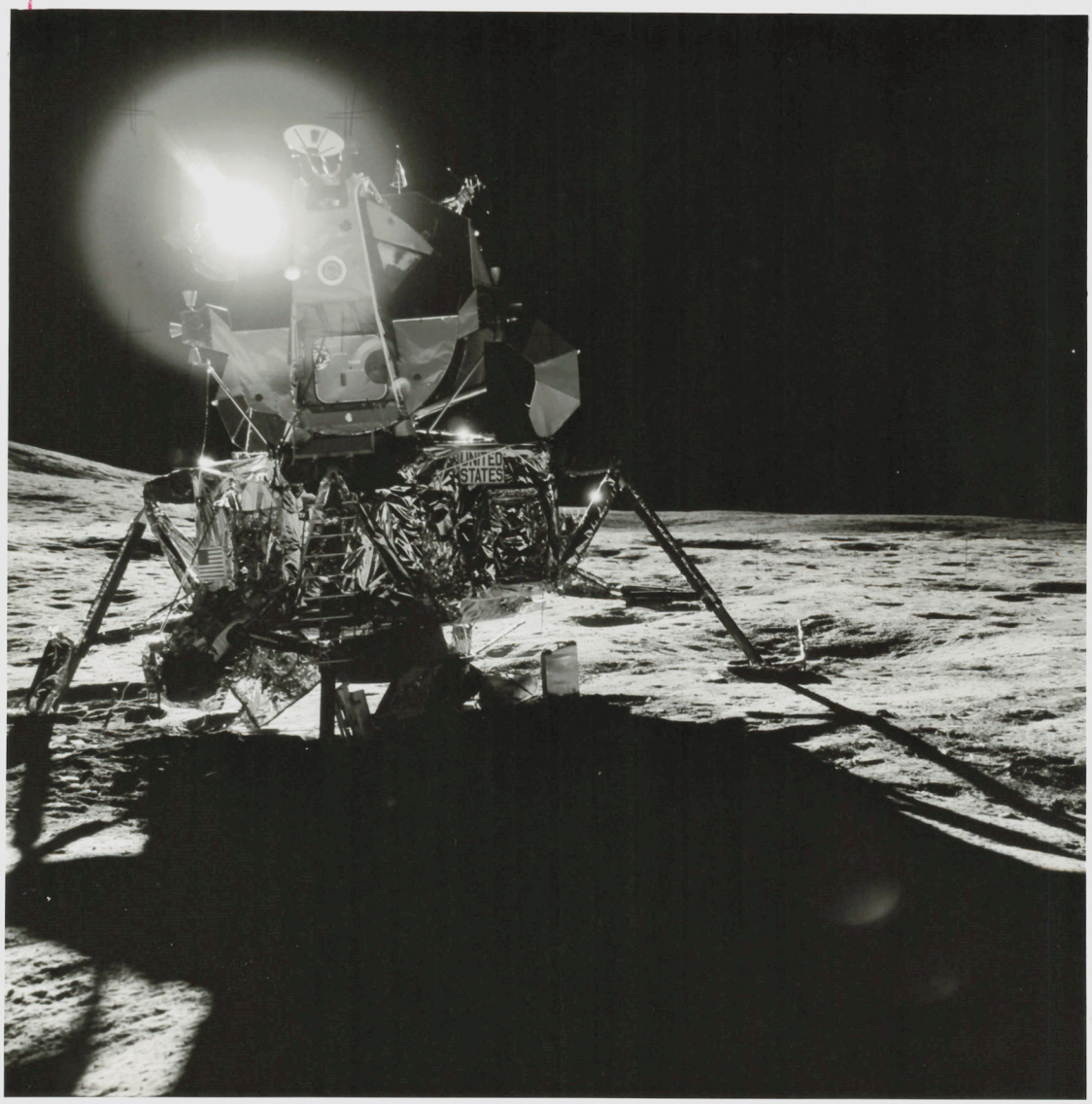
NASA - Apollo 14 — Moonlanding

NASA
AS14-68 -9414



NASA – Apollo 14 – Moon landing

NASA
AS14-66-9306



NASA - Apollo 14 — Moonlanding

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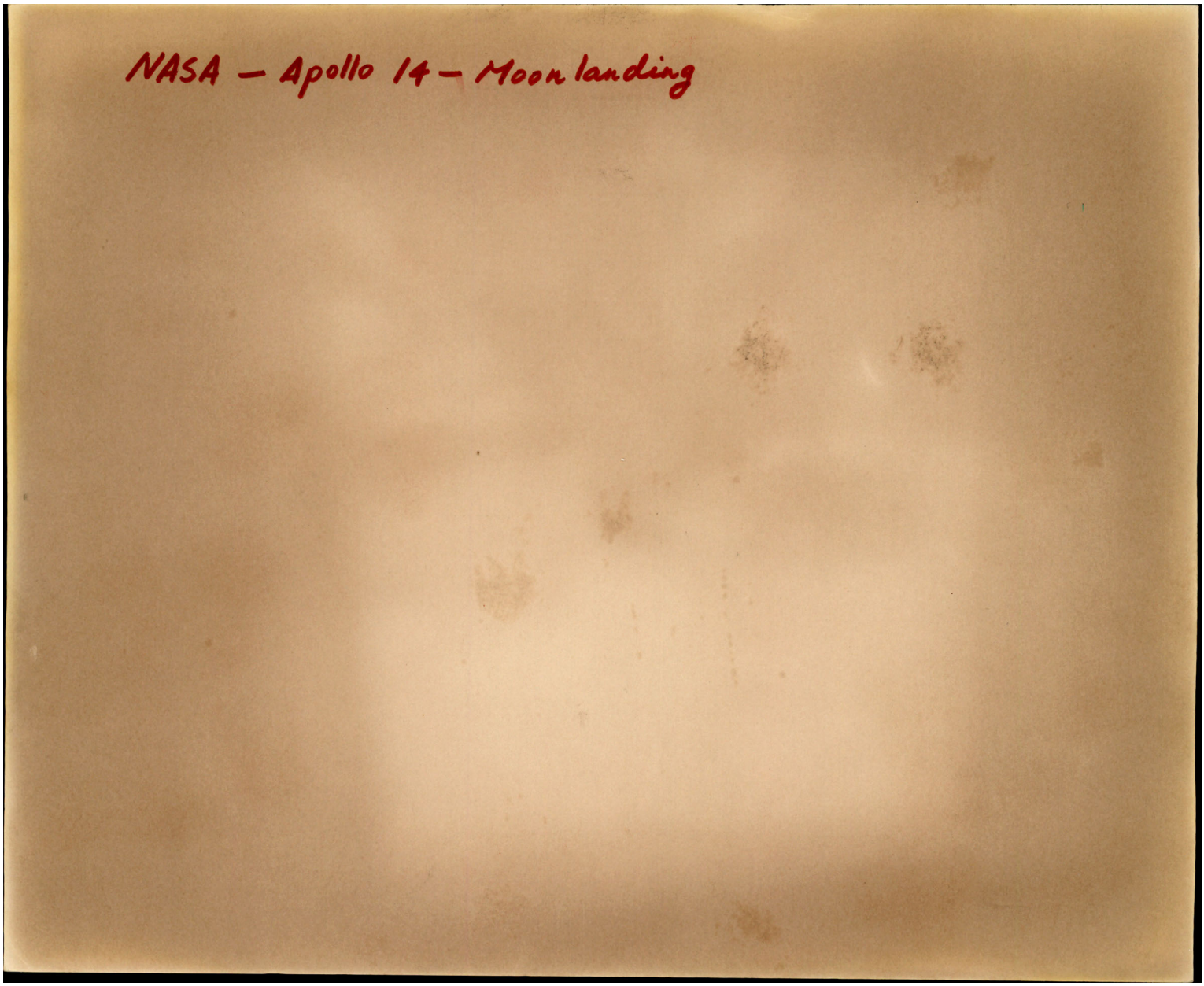
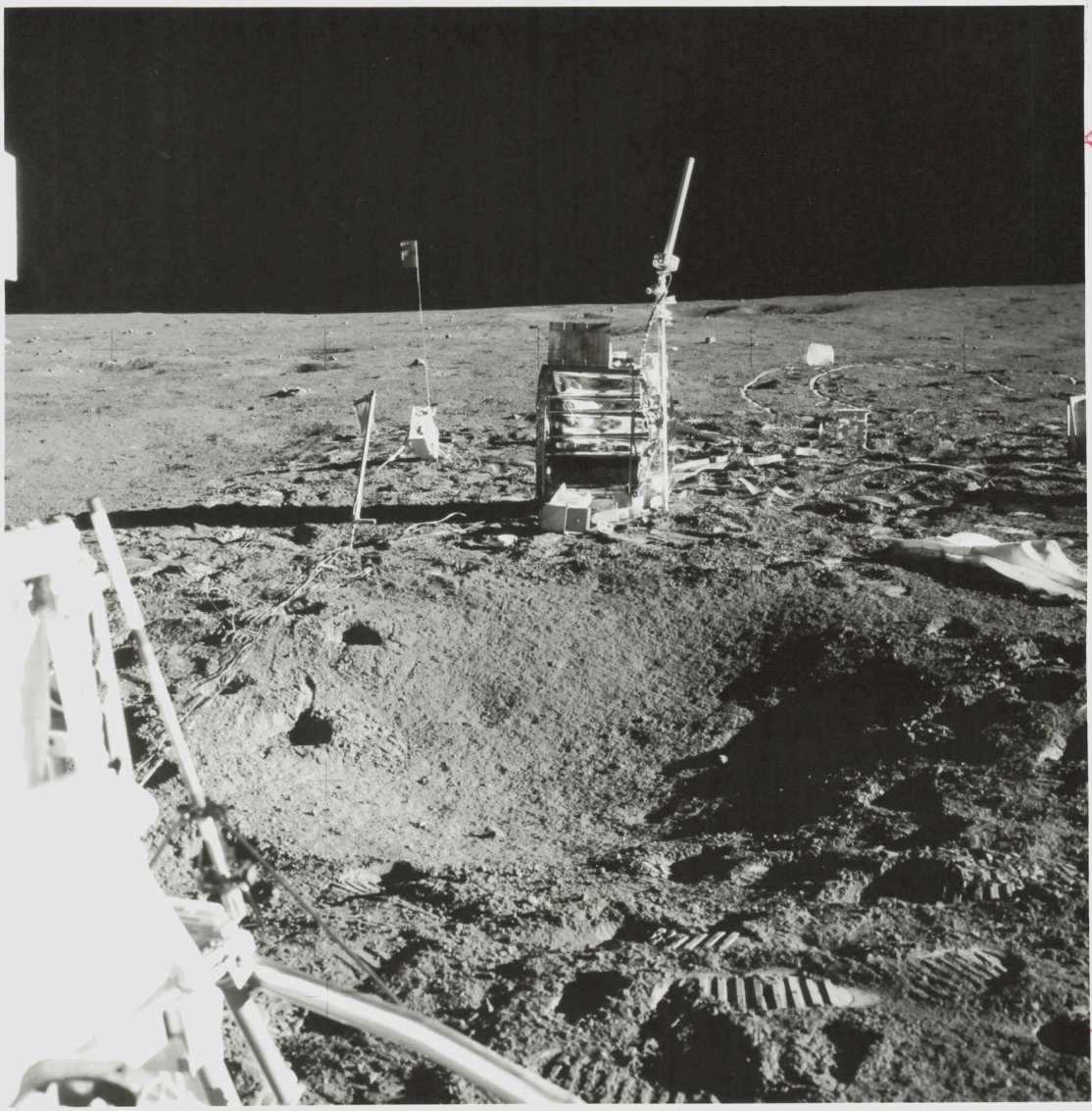
AS14-66-9325


NASA – Apollo 14 – Moon landing

NASA
AS14-66-9340

NASA – Apollo 14 – Moon landing

NASA
AS14-67-9376



NASA – Apollo 14 – Moonlanding

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NASA
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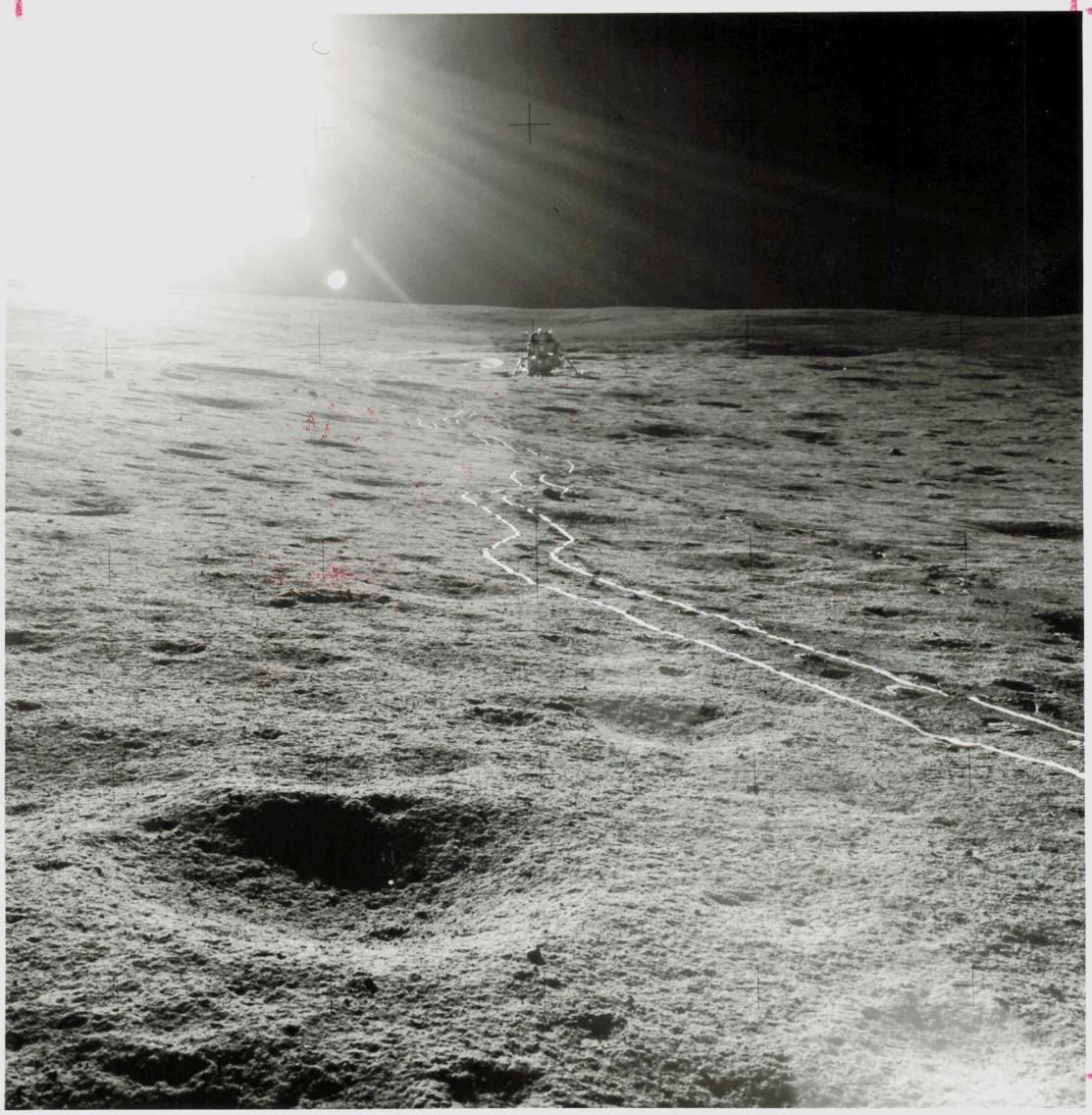

NASA – Apollo 14 – Moon landing

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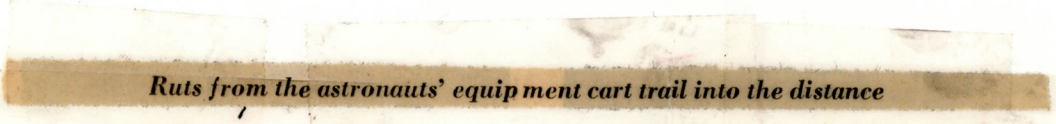
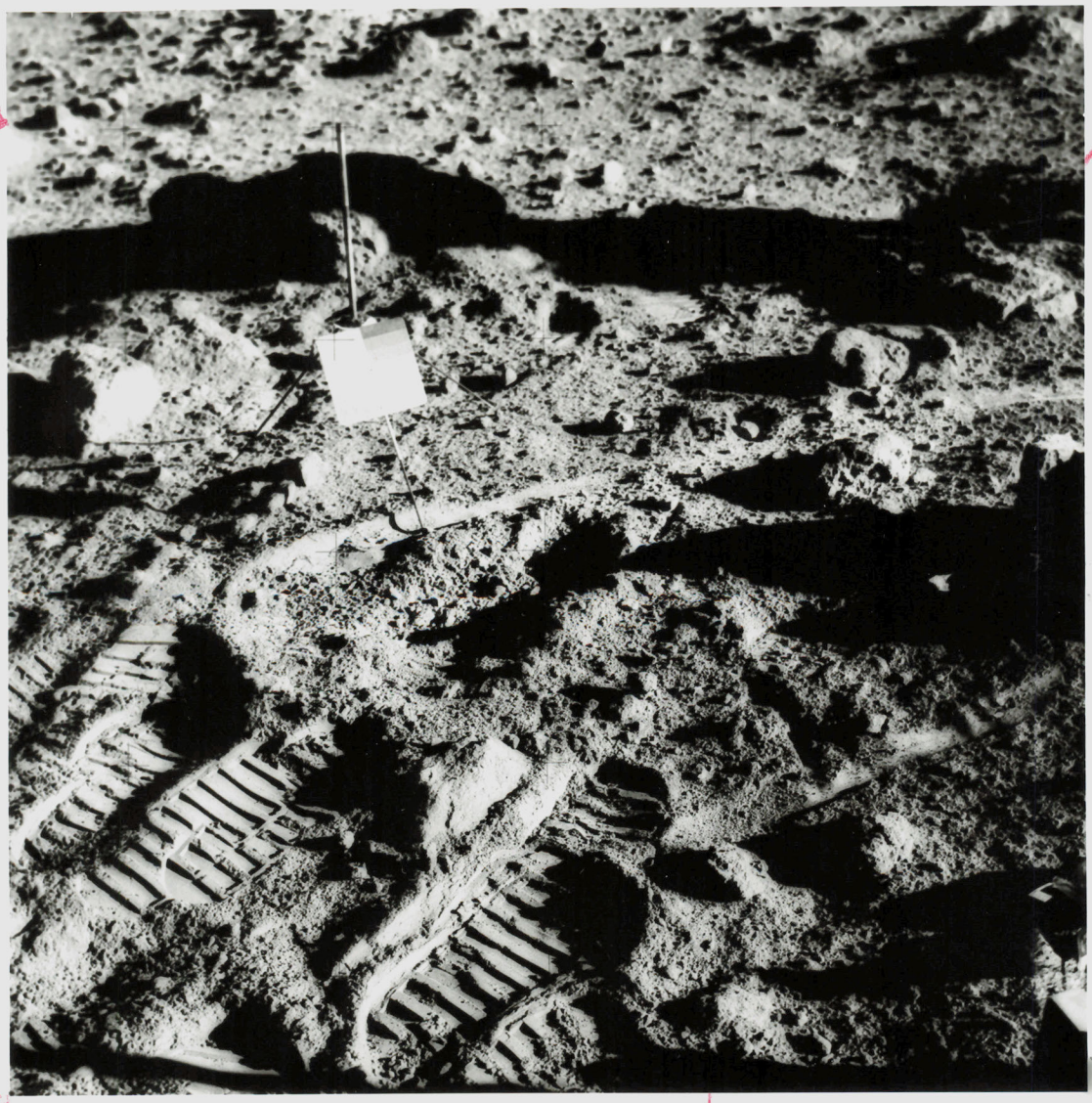


Ruts from the astronauts' equip ment cart trail into the distance

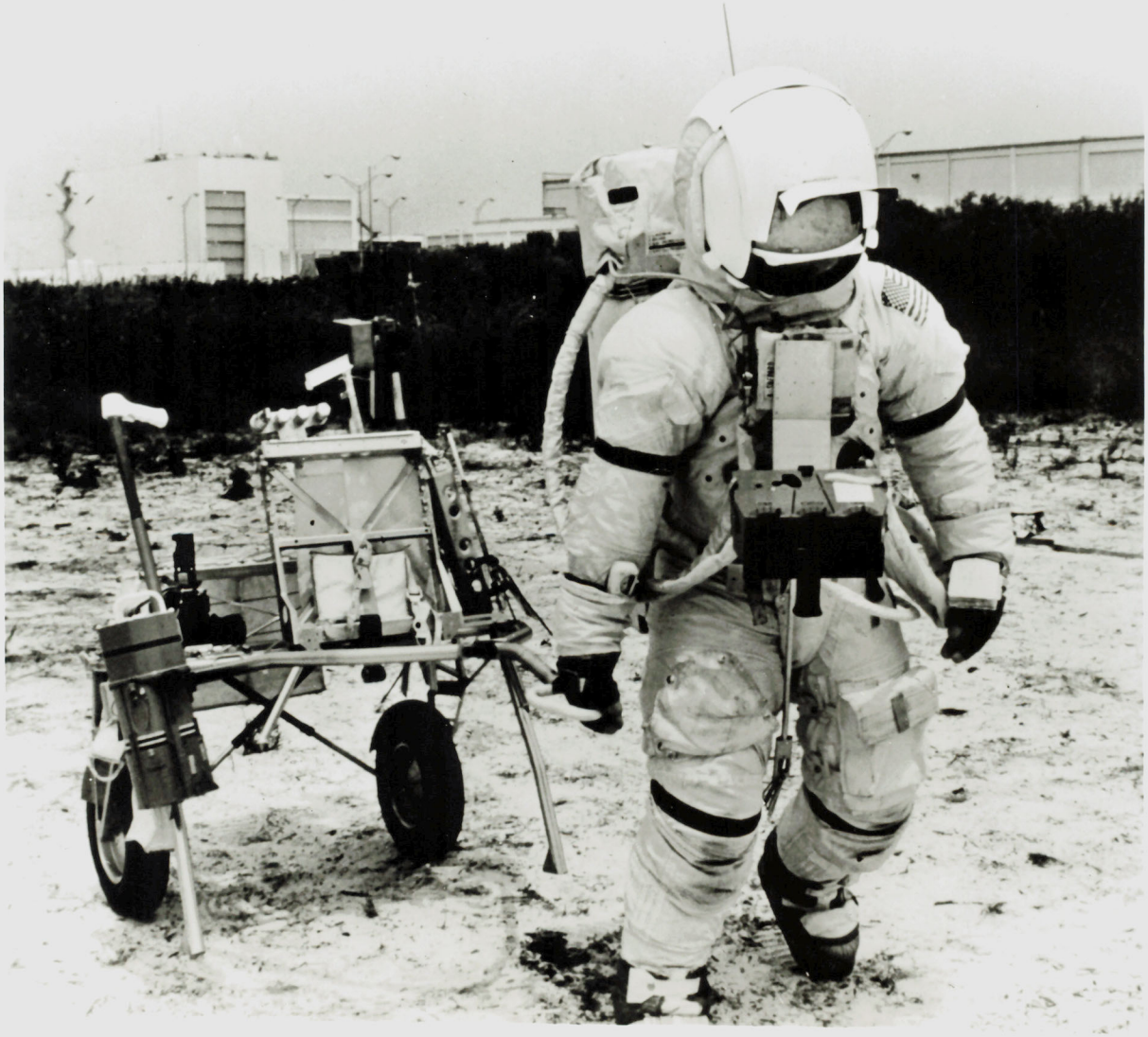
180
14
166

NASA
AS14-64-9127



#17206
DUSTY
SUBS
TOP
RIGHT

NASA – Apollo 14 – Moon landing



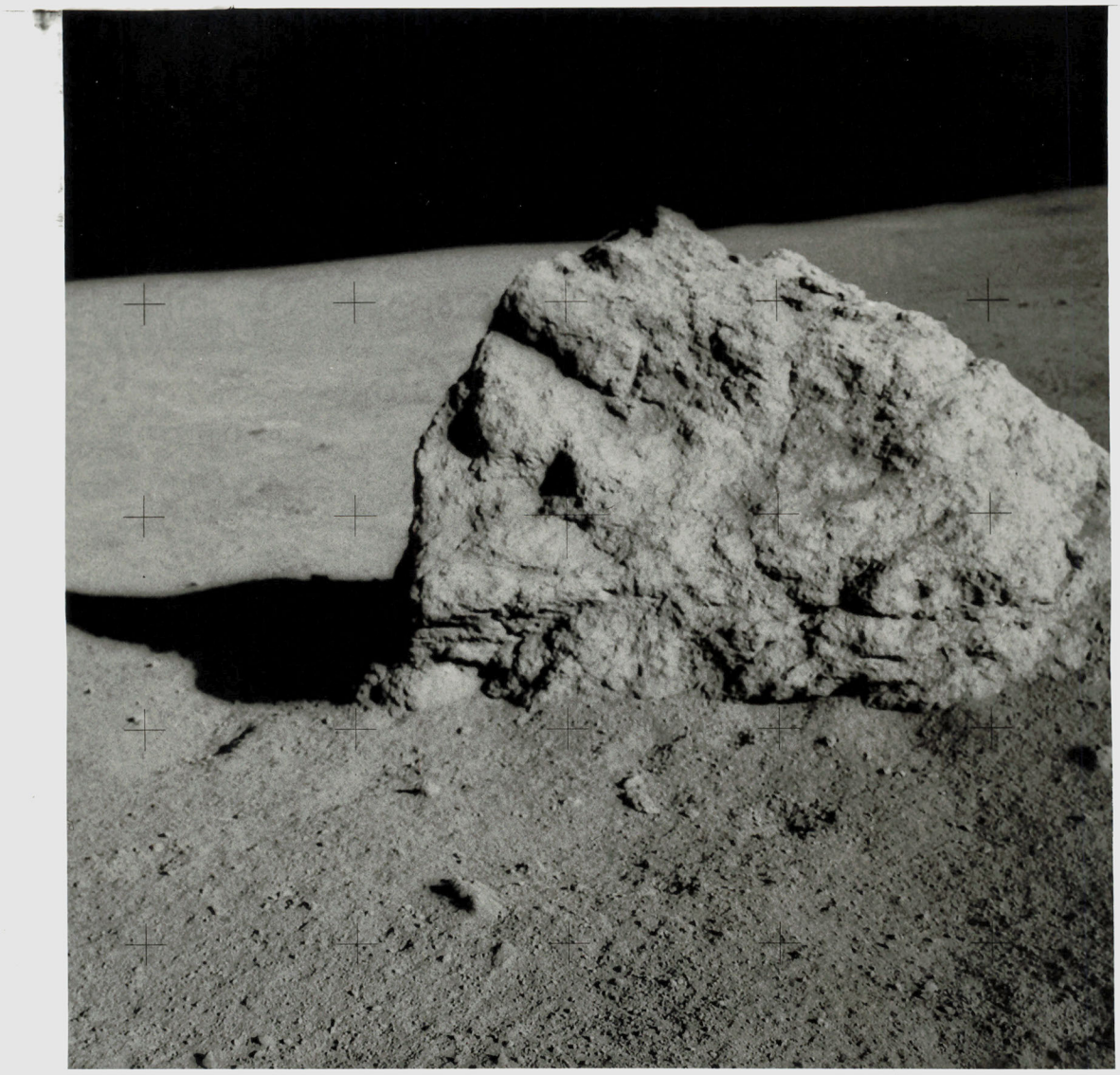
70-2663

APOLLO 14

Skylab, A/D

26 FEB 1971

NASA
AS14-64-9135



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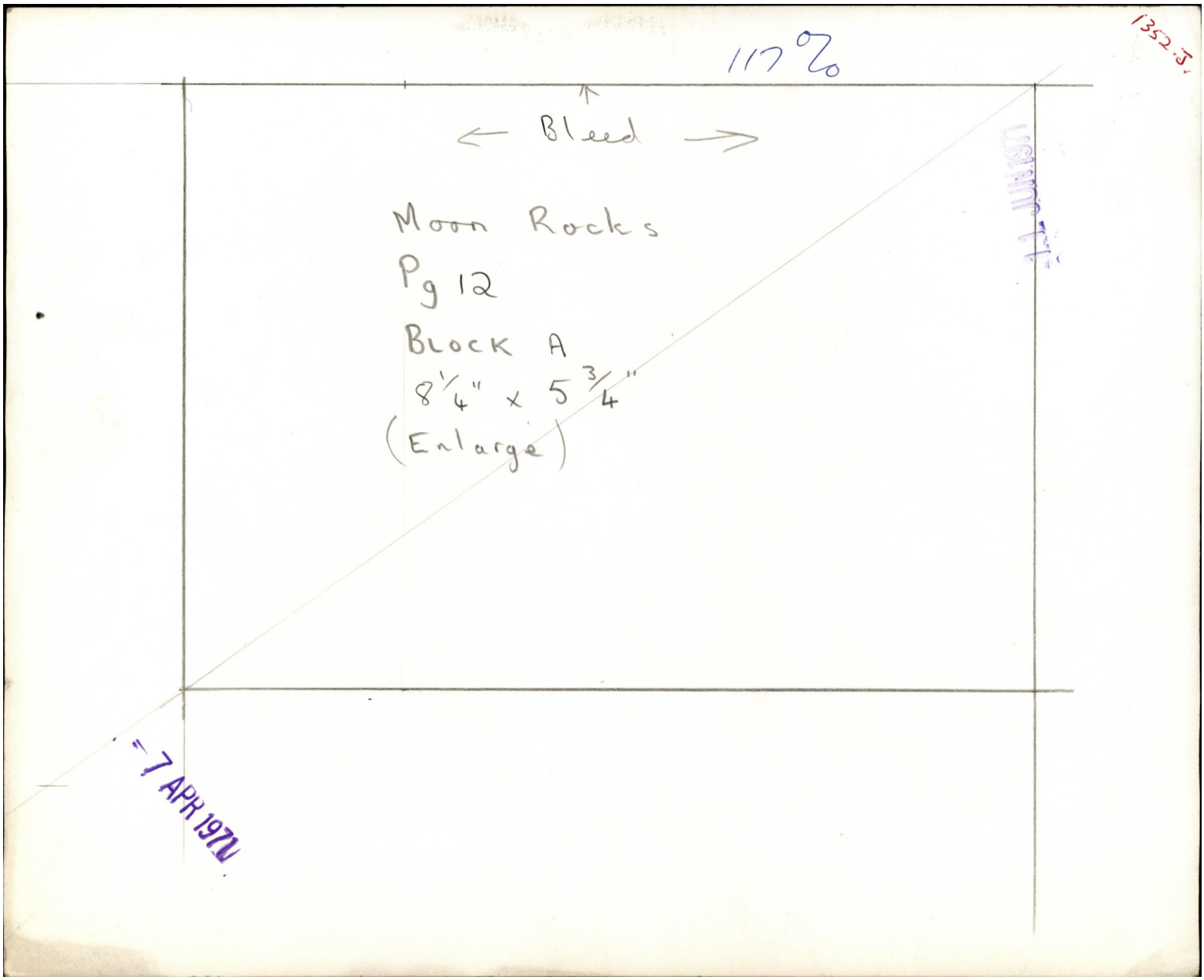
11 JUN 1971

27 APR 1971

NASA
AS14-68-9451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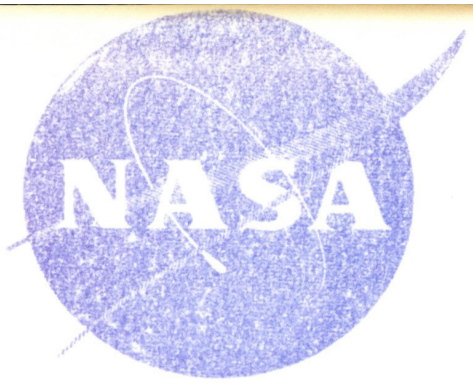
Moon Rocks
Pg 12
Block A
8 1/4" x 5 3/4"
(Enlarge)
7 APR 1971

NASA
AS14-68-9448

7 APR 1971

11 JUN 1971

ALAN SHEPARD
EDGAR MITCHELL
STUART ROOSA
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION U.S.A.



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WASHINGTON, D. C. -- The Apollo 14 flight crew, Alan B. Shepard, Edgar D. Mitchell and Stuart Roosa meet the press at a news conference conducted in the State Department auditorium.

CENTRAL PRESS ASSOCIATION
APR - 1 1971
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WASHINGTON, D. C. -- President Nixon with his hands on his side in dismay, after dropping the NASA Distinguished Service Medal to be presented to Apollo 14 Lunar Module Pilot, Edgar D. Mitchell.

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FOR RELEASE: Filed: March 4, 1971

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71-HC-406

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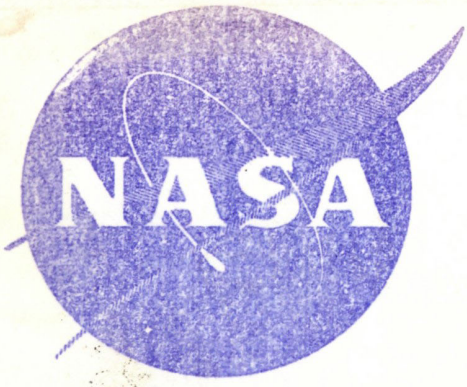
MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 14 TV PICTURE--Astronaut Alan B. Shepard, Jr., Apollo 14 commander, can be seen preparing to swing at a golf ball during a television transmission near the close of the second extravehicular activity (EVA-2) at the Apollo 14 Fra Mauro landing site. Shepard is using a real golf ball and an actual six iron attached to the end of the handle for the contingency sample return. Astronaut Edgar D. Mitchell, lunar module pilot, looks on. Also visible in the picture are the erectable S-Band antenna (left foreground), and the Lunar Module (left background). Astronaut Stuart A. Roosa, command module pilot, remained with the Command and Service Modules in lunar orbit while Shepard and Mitchell descended in the LM to explore the Moon.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

APOLLO 14
S. ROOSA
APOLLO 14
A. SHEPARD



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FOR RELEASE: February 9, 1971
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71-H-318

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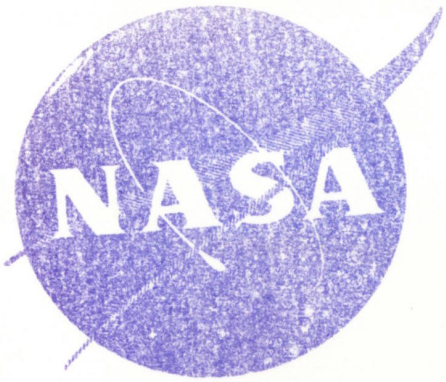
ABOARD THE USS NEW ORLEANS--Apollo 14 astronauts, left to right, Stuart A. Roosa, Alan B. Shepard, Jr., and Edgar D. Mitchell, speak to personnel aboard the prime recovery vessel through the window of the Mobile Quarantine Facility following their recovery from the Pacific Ocean today. The astronauts splashed down precisely on target at 4:05 p.m. EST Feb. 9, 1971, approximately 780 nautical miles southeast of American Samoa. Lunar samples gathered during their highly successful mission are expected to aid scientists learn more about the early history of the Earth, Moon and solar system.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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FOR RELEASE: Filed: March 4, 1971
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71-HC-398

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WASHINGTON, D. C.--President Nixon prepares to give autographed golf balls to the three Apollo 14 Astronauts Alan Shepard, Edgar D. Mitchell, and Stuart Roosa, and a special golf ball to Vice President Agnew for putting only.

UNITED PRESS ASSOCIATION
APR-1 1971
3098

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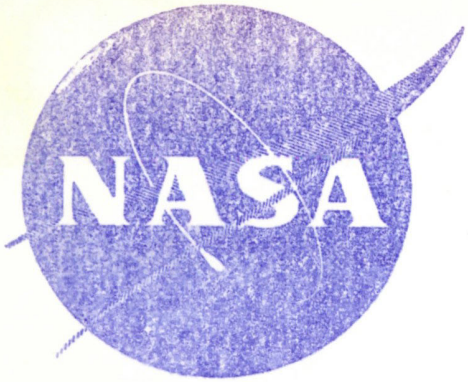
EDGAR D. MITCHELL

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

APOLLO 14 LUNAR MODULE PILOT — Astronaut Edgar D. Mitchell, lunar module pilot of the Apollo 14 prime crew. The other members of the crew are Astronauts Alan B. Shepard, Jr., commander; and Stuart A. Roosa, command module pilot. Apollo 14 is scheduled to be the National Aeronautics and Space Administration's third manned lunar landing.

Aeronautics
Space Flight

MSCL-63



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71-H-296

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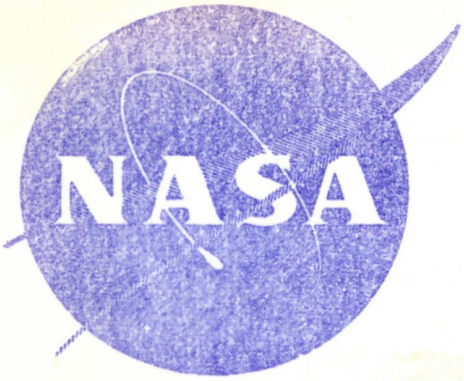
APOLLO 14 PACIFIC RECOVERY AREA -- A U. S. Navy pararescueman helps Apollo 14 Mission Commander Alan B. Shepard, Jr., from spacecraft into life raft with Command Module Pilot Stuart A. Roosa, right, and Lunar Module Pilot Edgar D. Mitchell, not shown. The astronauts completed their nine-day lunar voyage at 4:05 p.m. EST today, when their spacecraft splashed down less than a mile from the aiming point, 780 nautical miles southeast of Samoa.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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71-H-295

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APOLLO 14 PACIFIC RECOVERY AREA -- Apollo 14 Mission Commander Alan B. Shepard, Jr., left and Edgar D, Mitchell await helicopter pickup following their successful splashdown with Stuart A. Roosa. The astronauts splashed down at 4:05 p.m. EST today, approximately 780 nautical miles southeast of American Samoa, nine days after they were launched on a lunar voyage.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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FOR RELEASE: February 9, 1971

PHOTO NO. 108-KSC-71P-153
71-H-305

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APOLLO 14 PACIFIC RECOVERY AREA -- A U. S. Navy pararesueman jumps from helicopter at the start of Apollo 14 recovery activities today. The spacecraft containing Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell bobs in the Pacific Ocean following its safe splashdown at 4:05 p.m. EST Feb. 9, 1971, approximately 780 nautical miles southeast of American Samoa. The nine-day lunar landing voyage was directed by the National Aeronautics and Space Administration.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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WASHINGTON, D.C. 20546

FOR RELEASE: Filed: February 9, 1971

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71-H-306

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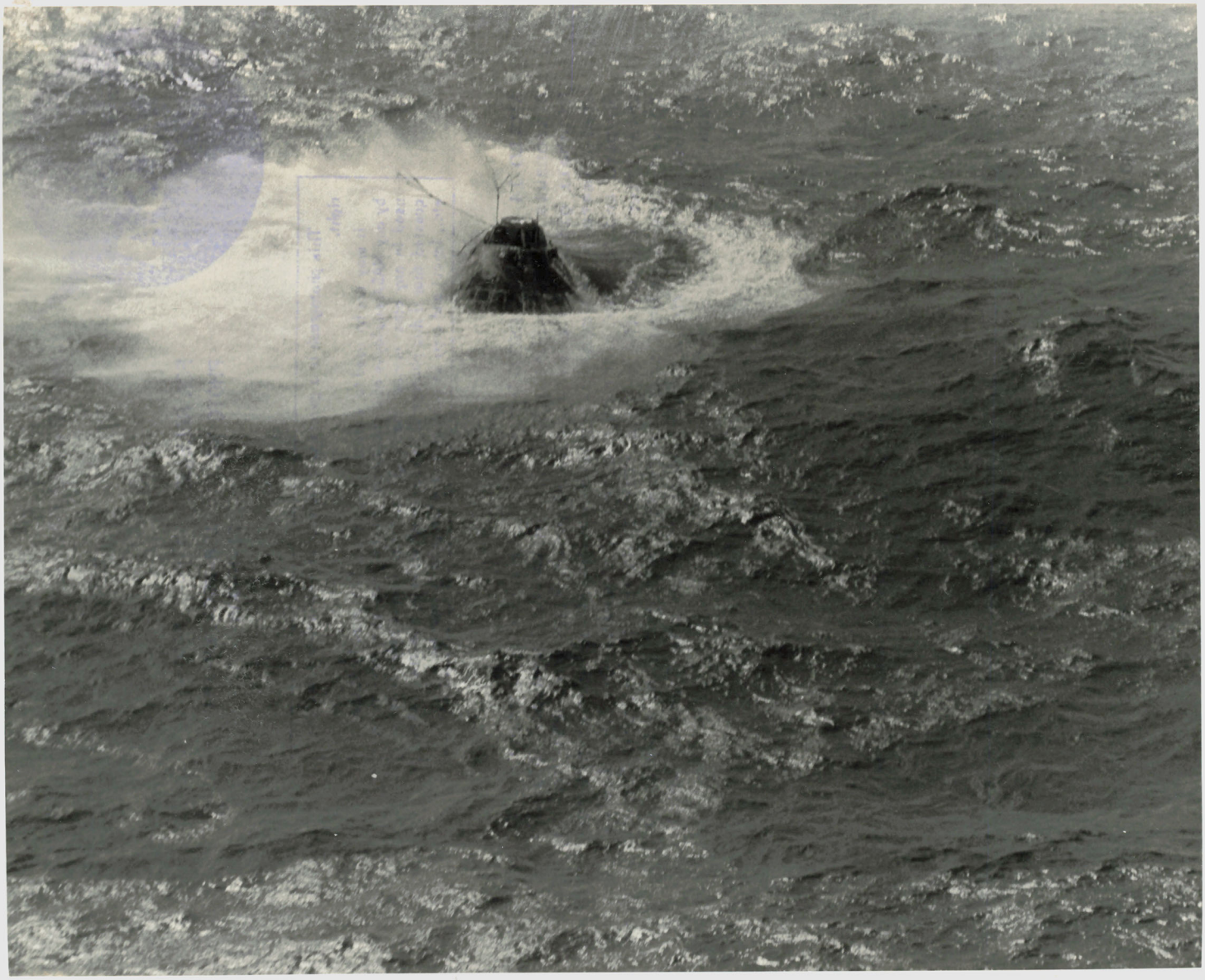
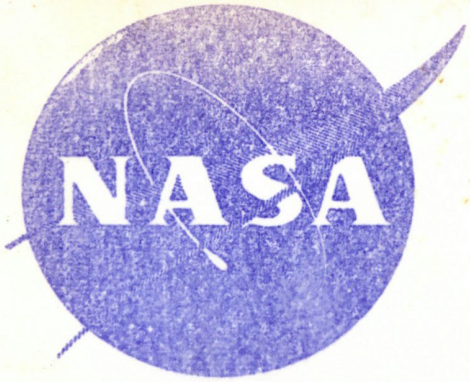
APOLLO 14 PACIFIC RECOVERY AREA--The Apollo 14 spacecraft containing Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell glides to a safe splashdown at 4:05 p.m. EST Feb. 9, 1971, approximately 780 nautical miles southeast of American Samoa. Shepard and Mitchell conducted two successful extravehicular activities during their more than 33-hour-stay on the lunar surface. They deployed scientific experiments and gathered nearly 100 pounds of lunar rocks while Roosa piloted the Command Module in lunar orbit.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration





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71-H-307

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APOLLO 14 PACIFIC RECOVERY AREA--Helicopter prop wash churns up the Pacific Ocean around the Apollo 14 spacecraft at the start of recovery operations today. Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell splashed down at 4:05 p.m. EST February 9, 1971, at the completion of their highly successful lunar landing mission. They impacted less than a mile from their planned landing point, approximately 780 nautical miles southeast of American Samoa.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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APOLLO 14 PACIFIC RECOVERY AREA -- The Apollo 14 spacecraft, back from a successful lunar voyage, bobs in the Pacific Ocean on a flotation collar during recovery operations. Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell splashed down at 4:05 p.m. EST Feb, 9, 1971, approximately 780 nautical miles southeast of American Samoa, nine days after they were launched to the Moon. The National Aeronautics and Space Administration directs the Apollo program.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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

FOR RELEASE: February 9, 1971
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71-H-302

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APOLLO 14 PACIFIC RECOVERY AREA -- Apollo 14 Lunar Module Pilot Edgar D. Mitchell is hoisted aboard recovery helicopter today following his splashdown at 4:05 p.m. EST today with Astronauts Alan B. Shepard, Jr., and Stuart A. Roosa. Their spacecraft parachuted to a precise splashdown in the Pacific Ocean, approximately 780 nautical miles southeast of American Samoa, nine days after the astronauts were launched to the Moon from the Kennedy Space Center.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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FOR RELEASE: February 9, 1971

PHOTO NO. 108-KSC-71P-159
71-H-311

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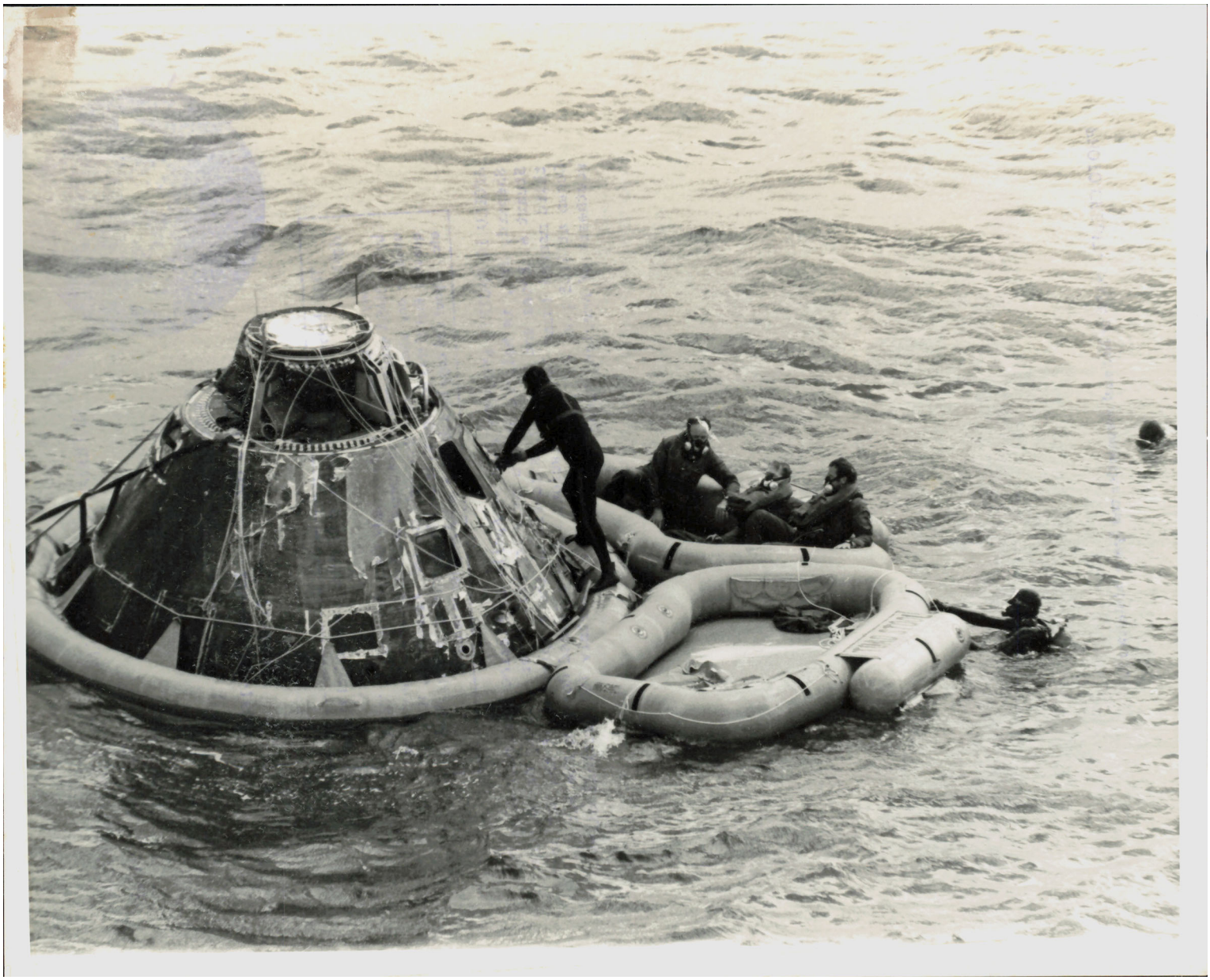
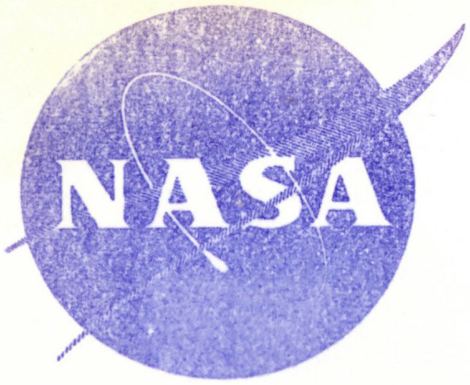
APOLLO 14 PACIFIC RECOVERY AREA -- The Apollo 14 spacecraft parachutes to a precise and safe splashdown into the Pacific Ocean, approximately 780 nautical miles southeast of American Samoa. The spacecraft touched down at 4:05 p.m. EST Feb. 9, 1971, nine days after Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell were launched on the Nation's third manned lunar landing mission. The National Aeronautics and Space Administration directs the Apollo program.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration





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FOR RELEASE: February 9, 1971
PHOTO NO. 108-KSC-71P-161
71-H-313

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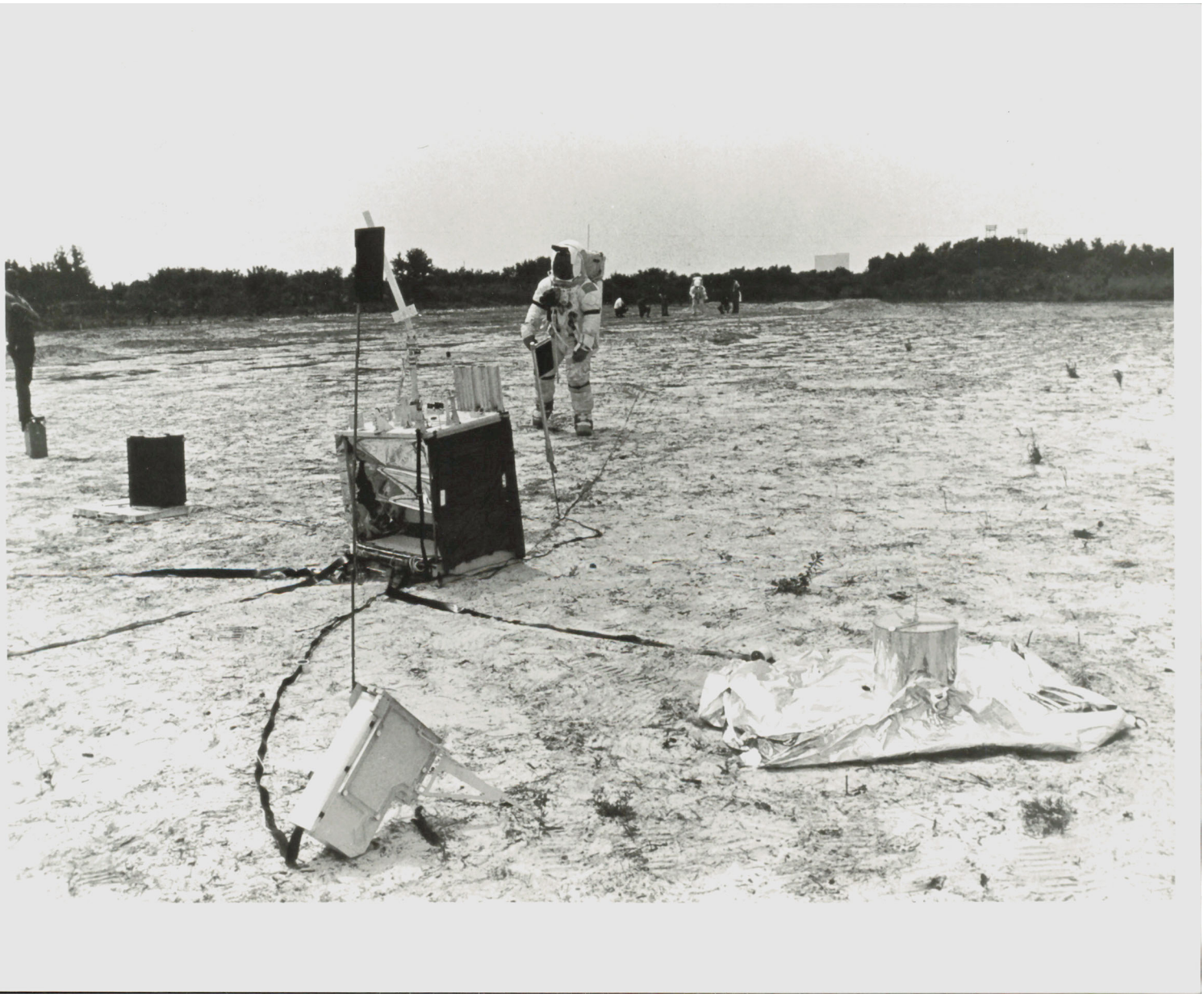
APOLLO 14 PACIFIC RECOVERY AREA -- The Apollo 14 astronauts watch a pararescueman close their spacecraft hatch during recovery operations, 780 nautical miles southeast of American Samoa. The astronauts, seated left to right are: Lunar Module Pilot Edgar D. Mitchell, Stuart A. Roosa and Alan B. Shepard, Jr. They splashed down in the planned Pacific Ocean landing zone at 4:05 p.m. EST Feb. 9, 1971, at the completion of the highly successful lunar landing mission directed by the National Aeronautics and Space Administration.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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DEPLOYING THE ALSEP -- Apollo 14 astronauts Alan B. Shepard, Jr., commander (foreground) and Edgar D. Mitchell, lunar module pilot, practice deploying the Apollo lunar surface experiment package (ALSEP) in preparation for the January 31, 1971, mission. The simulated extravehicular activity was photographed at Kennedy Space Center, Florida.

FEB 9 1971

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FOR RELEASE: February 9, 1971

PHOTO NO. 108-KSC-71PC-147
71-HC-262
71-H-324

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APOLLO 14 PACIFIC RECOVERY AREA -- The Apollo 14 Astronauts, left to right, Edgar D. Mitchell, Stuart A. Roosa and Alan B. Shepard, Jr., watch recovery operations from life raft.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

NAVY
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2121
USS NEW ORLEANS
CVSG 53

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FOR RELEASE: February 9, 1971
PHOTO NO. 108-KSC-71P-151
71-H-303

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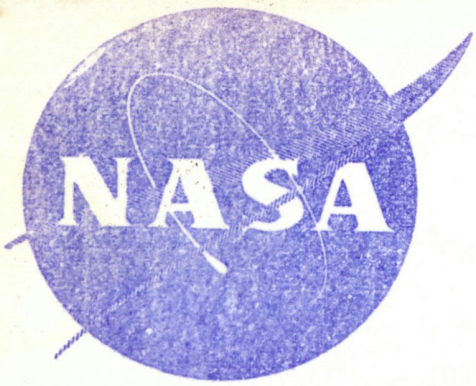
APOLLO 14 PACIFIC RECOVERY AREA - One of the three Apollo 14 astronauts is hoisted aboard a helicopter during recovery operations today in the South central Pacific. Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell splashed down aboard their Apollo spacecraft at 4:05 p.m. EST Feb. 9, 1971, 780 nautical miles southeast of American Samoa, less than a mile from their planned impact point. Shepard and Mitchell spent nearly 10 hours exploring the lunar surface, gathering rock samples which scientists hope will provide new information about the early history of the Moon, Earth and solar system.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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FOR RELEASE: February 9, 1971
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71-HC-264
71-H-326

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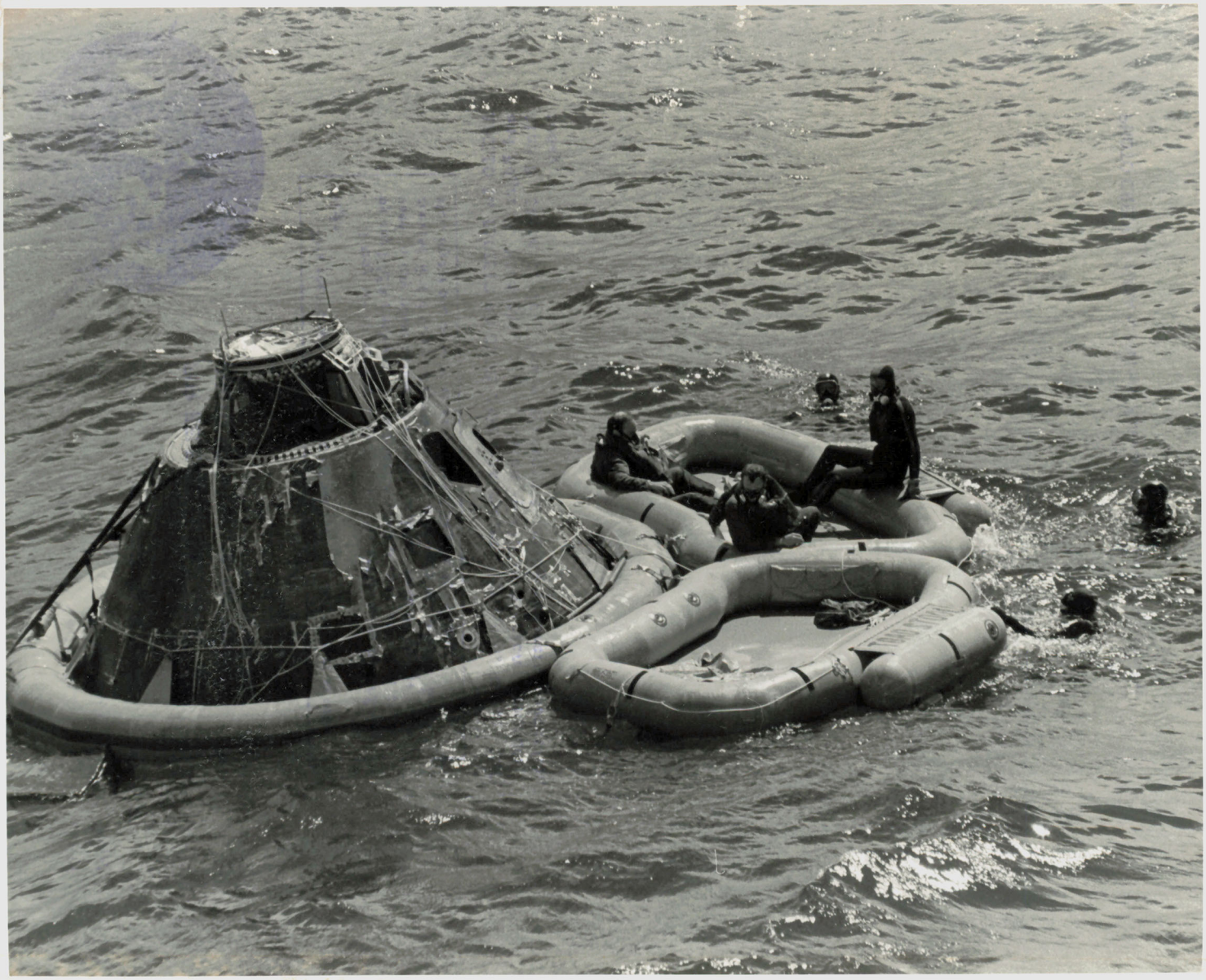
APOLLO 14 PACIFIC RECOVERY AREA--Astronauts Stuart A. Roosa, left, and Edgar D. Mitchell, right, watch Apollo 14 Mission Commander Alan B. Shepard, Jr., leave spacecraft during recovery operations today.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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71-H-314

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APOLLO 14 PACIFIC RECOVERY AREA -- Apollo 14 Mission Commander Alan B. Shepard, Jr., foreground, and Lunar Module Pilot Edgar D. Mitchell, left, await pickup by recovery helicopter after Command Module Pilot Stuart A. Roosa was hoisted aboard. The astronauts are wearing filter masks as part of their scheduled 21-day quarantine. Splashdown following the successful lunar landing mission took place at 4:05 p.m. EST Feb. 9, 1971, approximately 780 nautical miles southeast of American Samoa.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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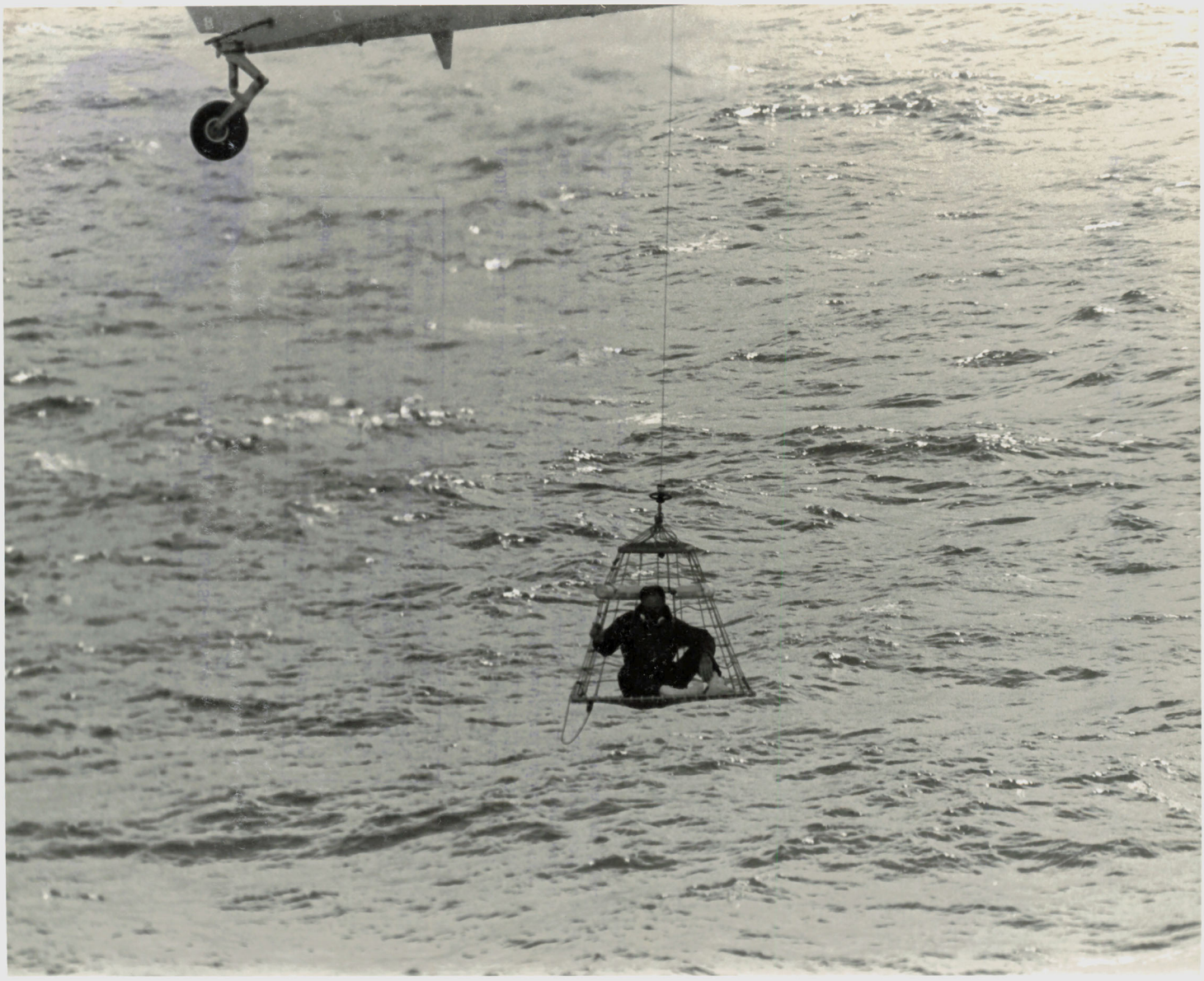

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71-H-302

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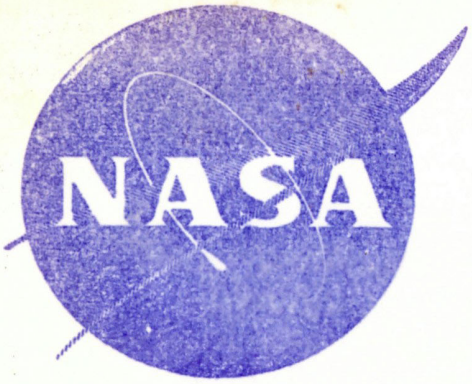
APOLLO 14 PACIFIC RECOVERY AREA -- Apollo 14 Lunar Module Pilot Edgar D. Mitchell is hoisted aboard recovery helicopter today following his splashdown at 4:05 p.m. EST today with Astronauts Alan B. Shepard, Jr., and Stuart A. Roosa. Their spacecraft parachuted to a precise splashdown in the Pacific Ocean, approximately 780 nautical miles southeast of American Samoa, nine days after the astronauts were launched to the Moon from the Kennedy Space Center.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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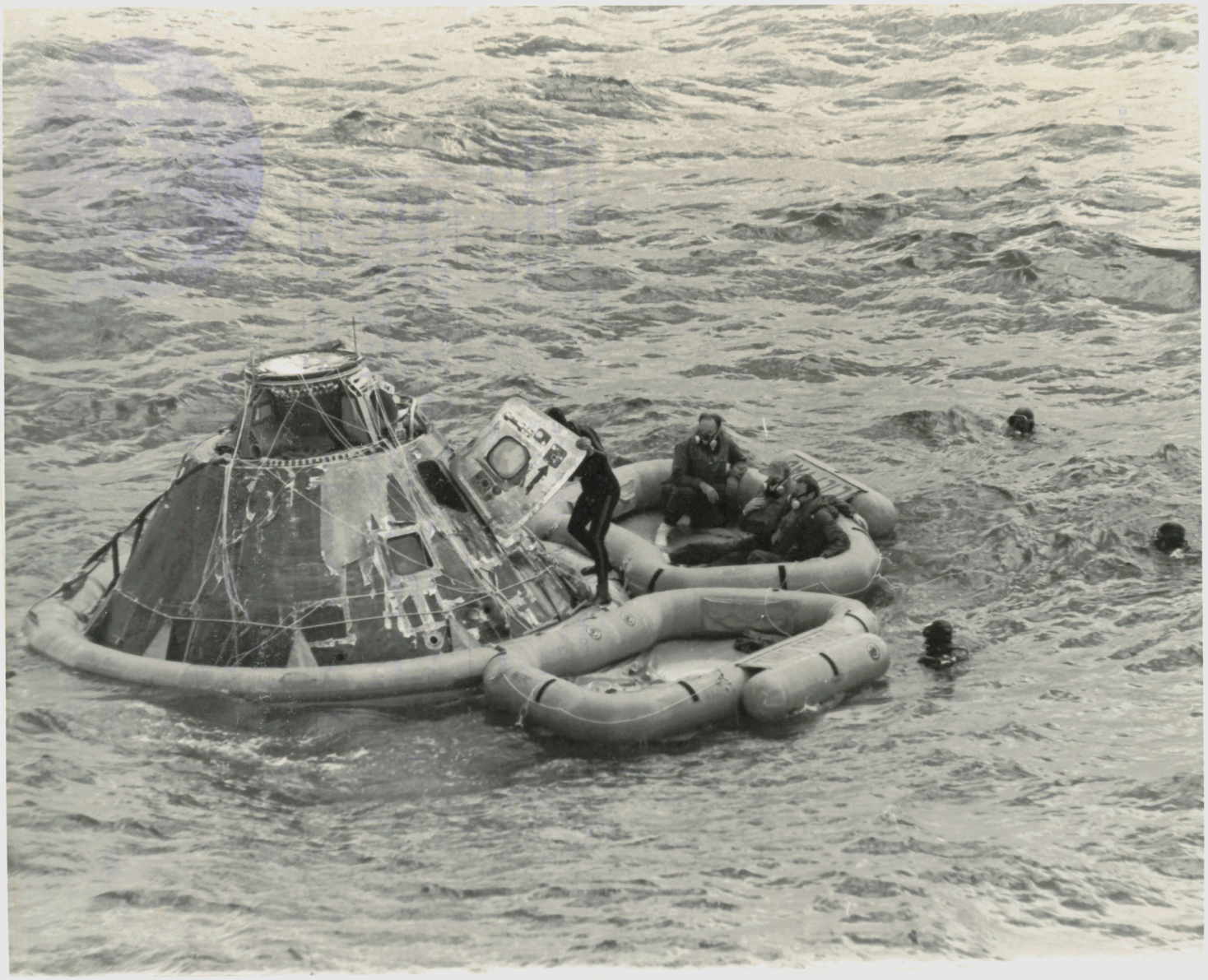
APOLLO 14 PACIFIC RECOVERY AREA -- Alan B. Shepard, Jr., left, Apollo 14 mission commander, speaks with Astronauts Stuart A. Roosa, center, and Edgar D. Mitchell in life raft during recovery operations today after the three space pilots returned from a lunar voyage. Their spacecraft splashed down at 4:05 p.m. EST today, less than a mile from the aiming point, or approximately 780 nautical miles southeast of American Samoa.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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FOR RELEASE: February 9, 1971

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71-H-300

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APOLLO 14 PACIFIC RECOVERY AREA -- The Apollo 14 astronauts watch a U. S. Navy pararescueman close the hatch of their spacecraft during recovery operations today, 780 nautical miles southeast of American Samoa. Seated from left to right in the life raft are : Lunar Module Pilot Edgar D. Mitchell, Command Module Pilot Stuart A. Roosa and Mission Commander Alan. B. Shepard, Jr. Their spacecraft splashed down less than a mile from the planned landing point at 4:05 p.m. EST, Feb. 9, 1971, at the completion of their highly successful lunar mission.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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71-H-297

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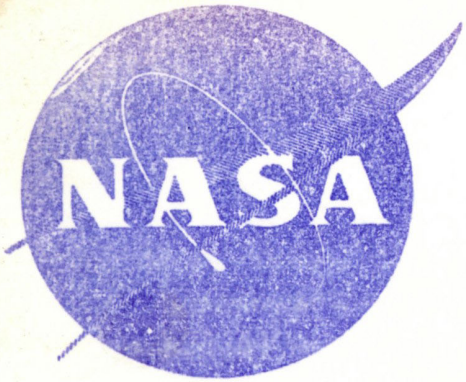
APOLLO 14 PACIFIC RECOVERY AREA--A U. S. Navy pararescueman helps Apollo 14 Lunar Module Pilot Edgar D. Mitchell from spacecraft into life raft at the start of recovery operations, approximately 780 nautical miles southeast of American Samoa. Mitchell and Astronauts Alan B. Shepard, Jr., and Stuart A. Roosa successfully completed a nine-day lunar voyage, splashing down in the South central Pacific at 4:05 p.m. EST today.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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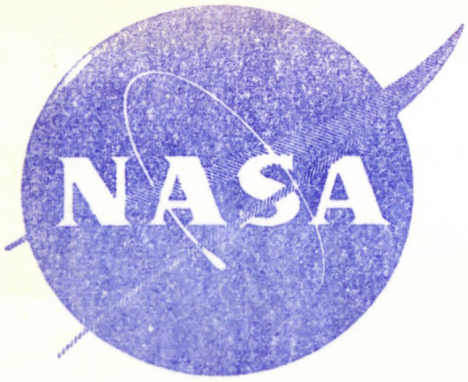
APOLLO 14 PACIFIC RECOVERY AREA -- A U. S. Navy pararescueman signals helicopter personnel to hoist Apollo 14 Command Module Pilot Stuart A. Roosa aboard during recovery operations today 780 nautical miles southeast of American Samoa. Roosa piloted the command module in lunar orbit while Astronauts Alan B. Shepard, Jr., and Edgar D. Mitchell explored the lunar surface during two extravehicular activities. Splashdown took place at 4:05 p.m. EST February 9, 1971.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

USS NEW ORLEANS
APOLLO 14
S. ROOSA
NASA
USS NEW ORLEANS
APOLLO 14
A. SHEPARD
NASA
USS NEW ORLEANS
APOLLO 14



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71-H-319

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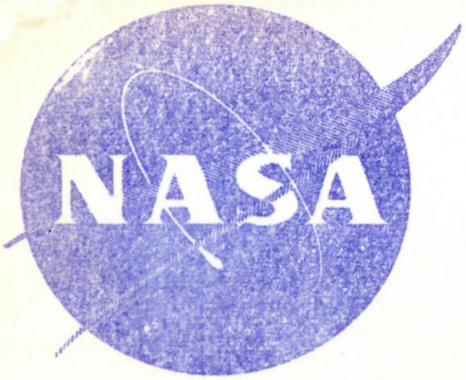
ABOARD THE USS NEW ORLEANS--The Apollo 14 astronauts listen to official greetings aboard the USS New Orleans today following their safe return from the Nation's third manned lunar landing mission. Stuart A. Roosa, left, Alan B. Shepard, Jr., center, and Edgar D. Mitchell are housed in the Mobile Quarantine Facility, which they entered shortly after arriving aboard the prime recovery vessel.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

USS NEW ORLEANS
APOLLO 14
S. ROOSA
SHEPARD



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71-H-320

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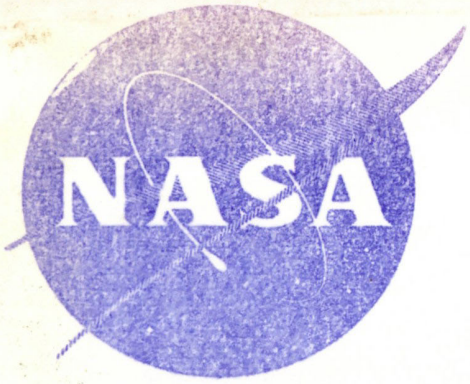
ABOARD THE USS NEW ORLEANS--The Apollo 14 astronauts participate in official welcoming ceremonies from inside their Mobile Quarantine Facility aboard the USS New Orleans. Stuart A. Roosa, left, Alan B. Shepard, Jr., center, and Edgar D. Mitchell, successfully completed the space agency's third manned lunar landing mission at 4:05 p.m. EST Feb. 9, 1971, when their Apollo spacecraft splashed down in the Pacific Ocean, 780 nautical miles southeast of American Samoa.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

USS NEW ORLEANS
APOLLO 14
S. ROOSA
NASA
USS NEW ORLEANS
APOLLO 14
USS NEW ORLEANS
APOLLO 14



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ABOARD THE USS NEW ORLEANS--Apollo 14 Mission Commander Alan B. Shepard, Jr., center, jokes with personnel during welcoming ceremonies aboard the USS New Orleans today. With him in the Mobile Quarantine Facility are Stuart A. Roosa, left, and Edgar D. Mitchell, right. The space pilots entered the quarantine facility at the completion of their highly successful lunar landing mission, which ended when they splashed down at 4:05 p.m. EST Feb. 9, 1971, 780 nautical miles southeast of American Samoa.

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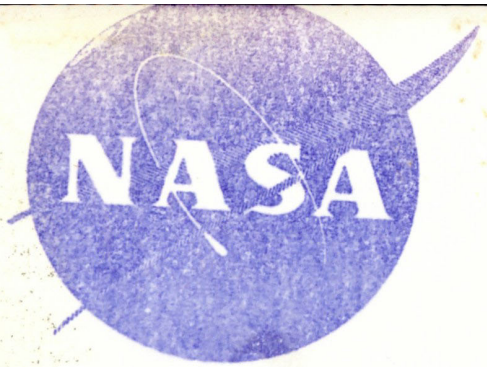

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APOLLO 14 PACIFIC RECOVERY AREA--Pararescueman helps Apollo 14 Lunar Module Pilot Edgar D. Mitchell from spacecraft during recovery operations today in the South Central Pacific.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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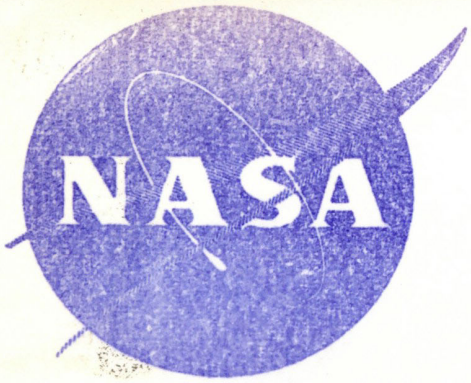
NAVY 501
HS-6
2123



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FOR RELEASE: February 9, 1971
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71-H-304

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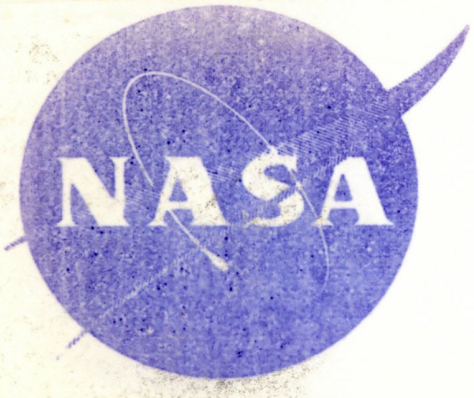
APOLLO 14 PACIFIC RECOVERY AREA -- A U. S. Navy pararescueman jumps into the Pacific Ocean from helicopter at the start of Apollo 14 recovery operations today. Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell splashed down at 4:05 p.m. EST Feb. 9, 1971, approximately 780 nautical miles southeast of American Samoa at the completion of the Nation's third successful lunar landing mission.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

APOLLO 14
Shepard
Roosa
NASA
SHEPARD



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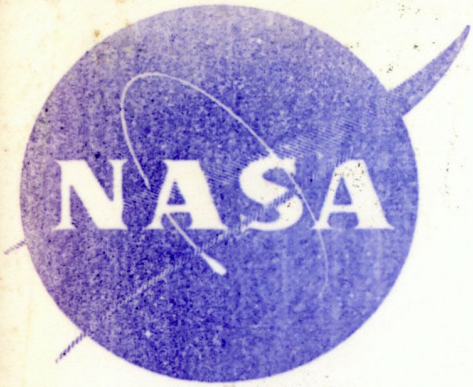
KENNEDY SPACE CENTER, FLA. -- Apollo 14 Commander Alan Shepard shown with the Apollo 14 emblem.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

APOLLO 14
Mitchell
NITCHELL
NASA



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KENNEDY SPACE CENTER, FLA. -- Apollo 14 Lunar Module Pilot Edgar Mitchell shown with the Apollo 14 emblem.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

APOLLO 14
Roosa
Mitchell
NASA
ROOSA

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WASHINGTON, D.C. 20546

FOR RELEASE: November 14, 1970
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KENNEDY SPACE CENTER, FLA. -- Apollo 14 Command Module Pilot Stuart Roosa, with the Apollo 14 emblem.

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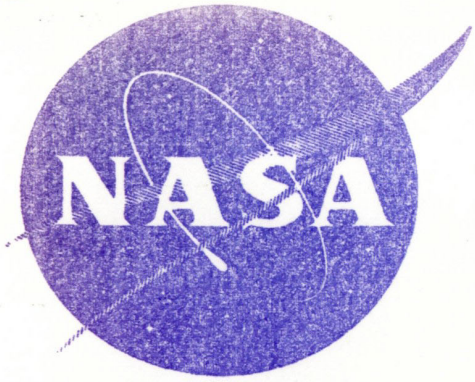

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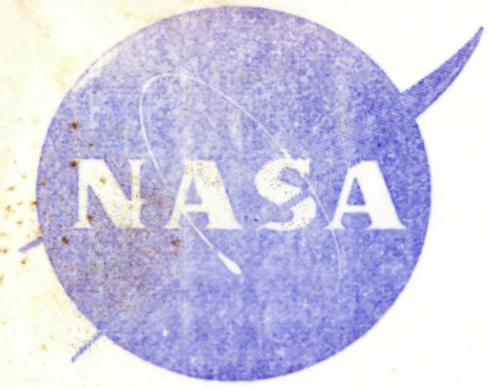
FLAGSTAFF, ARIZONA

APOLLO 14 GEOLOGY TRAINING--Astronauts Alan B. Shepard, Jr.(left), Apollo 14 prime crew commander, and Edgar D. Mitchell, prime crew lunar module pilot, take part in geological training at Flagstaff, Arizona. They are simulating lunar surface extravehicular activity. They are standing beside a Modular Equipment Transporter (MET), nicknamed the "Rickshaw," which serves as a portable workbench with a place for the lunar handtools and their carrier, three cameras, two sample container bags, a special environmental sample container, spare film magazines, and a Lunar Surface Penetrometer.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

NASA



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71-H-237

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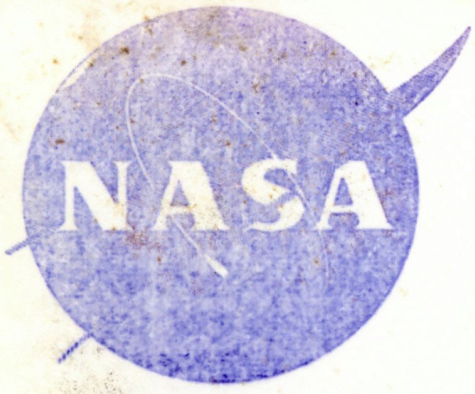
KENNEDY SPACE CENTER, Fla.--Donald K. Slayton, Director of Flight Crew Operations, talks with Apollo 14 Mission Commander Alan B. Shepard, Jr., today during suiting up activities prior to the Nation's next launch to the Moon. The two other Apollo 14 crewmen undergoing spacesuit checks are Stuart A. Roosa, center, and Edgar D. Mitchell.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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

FOR RELEASE: January 31, 1971
PHOTO NO. 108-KSC-71P-73
71-H-224

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KENNEDY SPACE CENTER, Fla.--The Apollo 14 prime and backup crews eat brunch today with two mission officials a few hours prior to the Nation's next scheduled launch to the Moon. Seated clockwise: Edgar D. Mitchell, prime crew lunar module pilot; Thomas P. Stafford, Chief of the Astronaut Office; Stuart A. Roosa, prime crew command module pilot; Alan B. Shepard, Jr., prime crew commander; Donald K. Slayton, Director of Flight Crew Operations; Joe H. Engle, backup lunar module pilot; and Ronald E. Evans, backup command module pilot.

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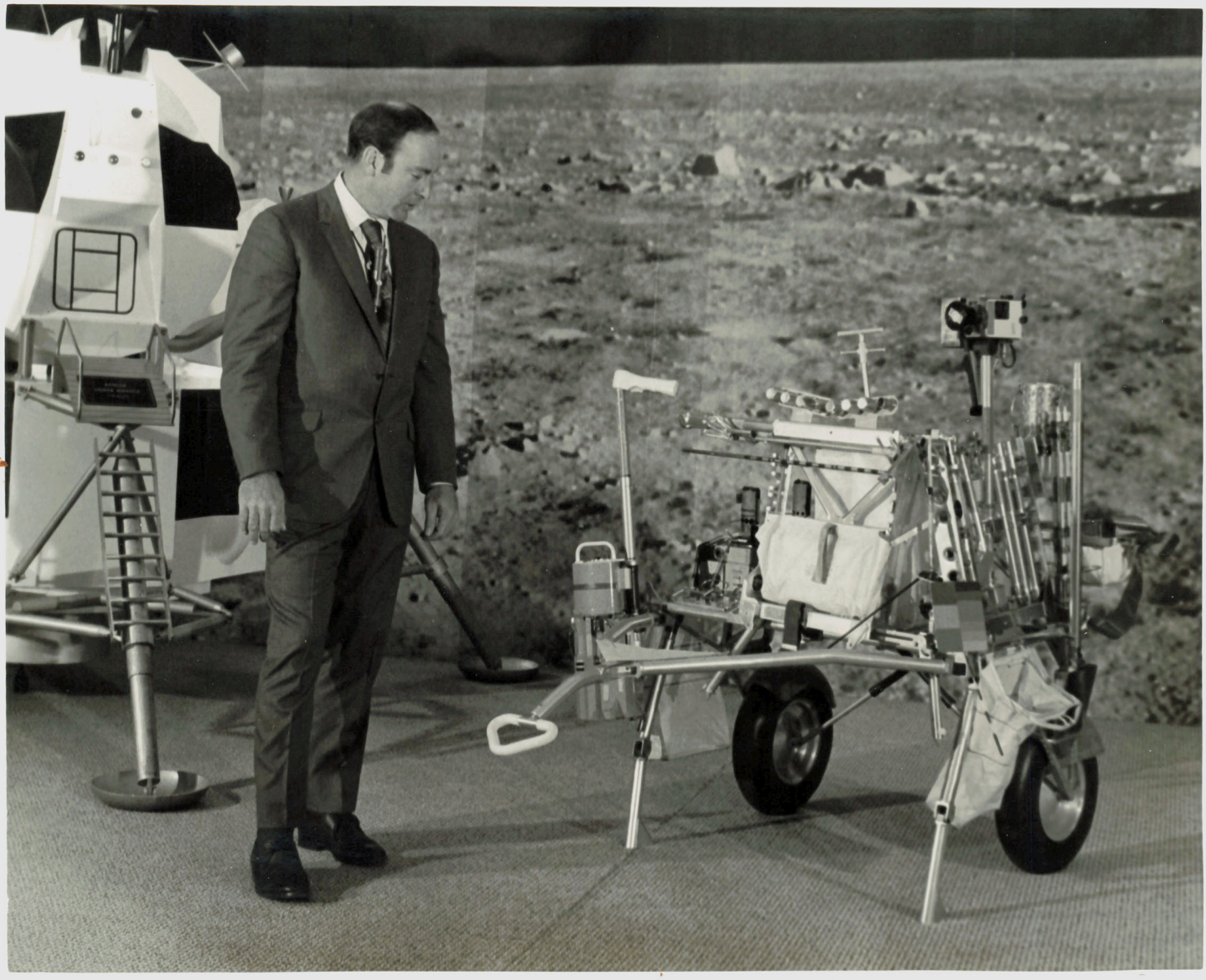

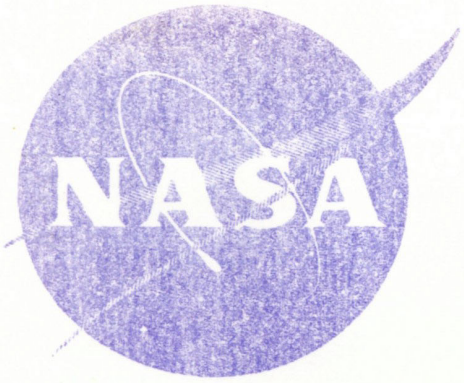

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WASHINGTON, D.C. 20546

FOR RELEASE: Filed: October 16, 1970
PHOTO NO. 70-H-1351

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WASHINGTON -- Apollo 14 astronaut Edgar D. Mitchell demonstrates the twenty pound cart for lunar exploration. The cart will carry seventy pounds of equipment, including six core tubes, a trenching tool, two geology scoops, four rock bags, a portable magnetometer to measure the moon's magnetic field and five cameras. Astronauts Mitchell and Shepard will take turns pulling the cart during their second moon walk from the lunar module to Cone Crater. Launching is programed from Kennedy Space Center, Fla., January 31, 1971.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

PRIME CREW OF EIGHTH MANNED APOLLO MISSION

STUART A. ROOSA ALAN B. SHEPARD, JR. EDGAR D. MITCHELL

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

EIGHTH MANNED APOLLO CREW—The members of the Apollo 14 prime crew are Alan B. Shepard, Jr. (center), commander; Stuart A. Roosa (left), command module pilot; and Edgar D. Mitchell (right), lunar module pilot. Apollo 14 is scheduled to be the National Aeronautics and Space Administration's third manned lunar landing.

MSCL-60

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

FOR RELEASE: January 31, 1971
PHOTO NO. 108-KSC-71P-108
71-H-262

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KENNEDY SPACE CENTER, Fla.--His Royal Highness Prince Jauan Carlos of Spain congratulates the Apollo 14 launch team today in Firing Room 2 of the Launch Control Center today following the successful liftoff of Astronauts Alan B. Shepard, Jr., Stuart A. Roosa and Edgar D. Mitchell at 4:03 p.m. EST. With the Prince are his wife, Princess Sophia, and Vice President Spiro T. Agnew.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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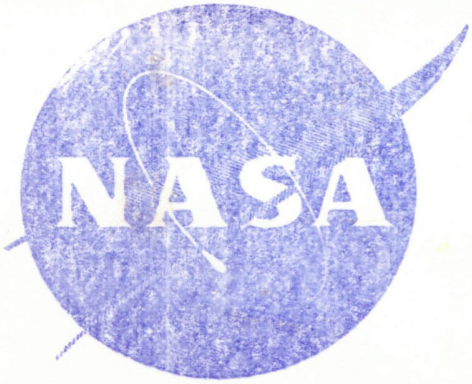

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FOR RELEASE: January 31, 1971
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71-H-229

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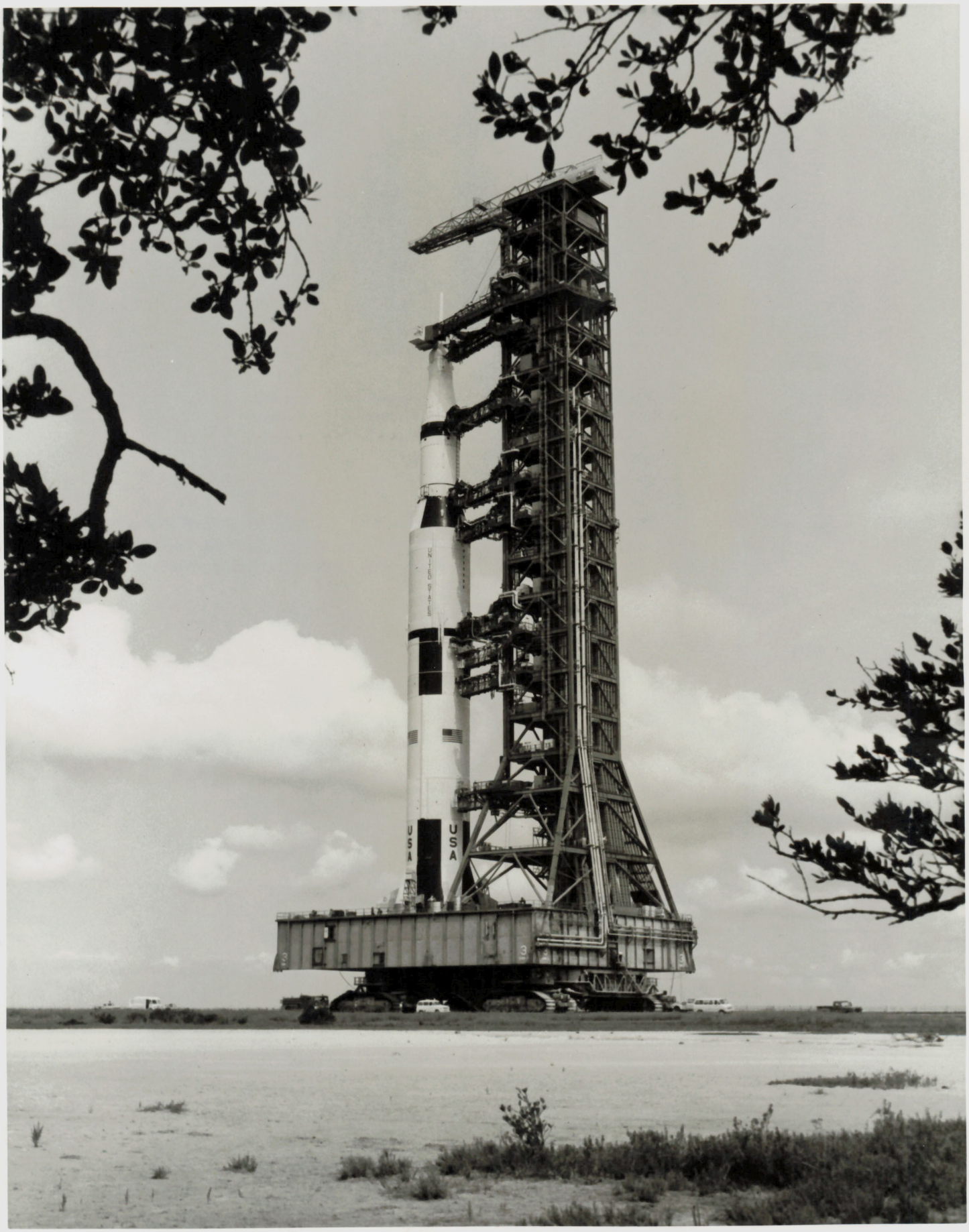
KENNEDY SPACE CENTER, Fla. -- The wives of the Apollo 14 crew held a news conference today a few hours before their husbands were launched on the National Aeronautics and Space Administration's sixth manned voyage to the Moon. They are, from left to right, Mrs. Joan Roosa, wife of Command Module Pilot Stuart A. Roosa; Mrs. Louise Shepard, wife of Mission Commander Alan B. Shepard, Jr.; and Mrs. Louise Mitchell, wife of Lunar Module Pilot Edgar D. Mitchell.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration


UNITED STATES
USA
USA

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

FOR RELEASE: IMMEDIATE

PHOTO NO. 71-H-855

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APOLLO 15 SPACECRAFT - The Saturn V space vehicle the Apollo 15 astronauts will ride to the Moon is seen towering over the Florida landscape during rollout from the Vehicle Assembly Building to Launch Pad A at the Kennedy Space Center. The 3-1/2 mile trip took approximately six hours.

Blast

JUL 28 1971

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

NASA
S-71-35169

Dr. Werner Von Braun

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

FOR RELEASE:

PHOTO NO. S-71-35169

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B & W

JUNE 1971 S-71-35169

NATIONAL AERONAUTICS & SPACE ADMINISTRATION, WASHINGTON, D.C.

APOLLO 15 TV CAMERA-----The color television camera for the National Aeronautics and Space Administration's Apollo 15 lunar landing mission is examined by Dr. Wernher von Braun, NASA Deputy Associate Administrator. The camera will be mounted on the Lunar Roving Vehicle and will be operated by the flight crew astronauts, David R. Scott and James B. Irwin, or by ground command from the Mission Control Center in Houston during the three lunar traverses. It will also be used to show the astronauts whenever they leave the LRV, and for the first time it will make possible the viewing of the Lunar Module ascent stage as it lifts off the Moon.

Moon Buggy

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

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PUNCTURE-PROOF TIRE - One of the wheels of the Apollo 15 lunar roving vehicle. The wheels are woven of zinc-coated piano wire with a spun aluminum hub and titanium bump stop. Chevron-shaped threads of titanium are rivated to the wire mesh around each wheel's outer circumference. Each wheel weighs 12 pounds on Earth (two lunar pounds).

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

WORDEN

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D.C 20546

Alfred M. Worden

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FOR RELEASE: July 2, 1971

PHOTO NO. 71-H-1060
71-HC-852

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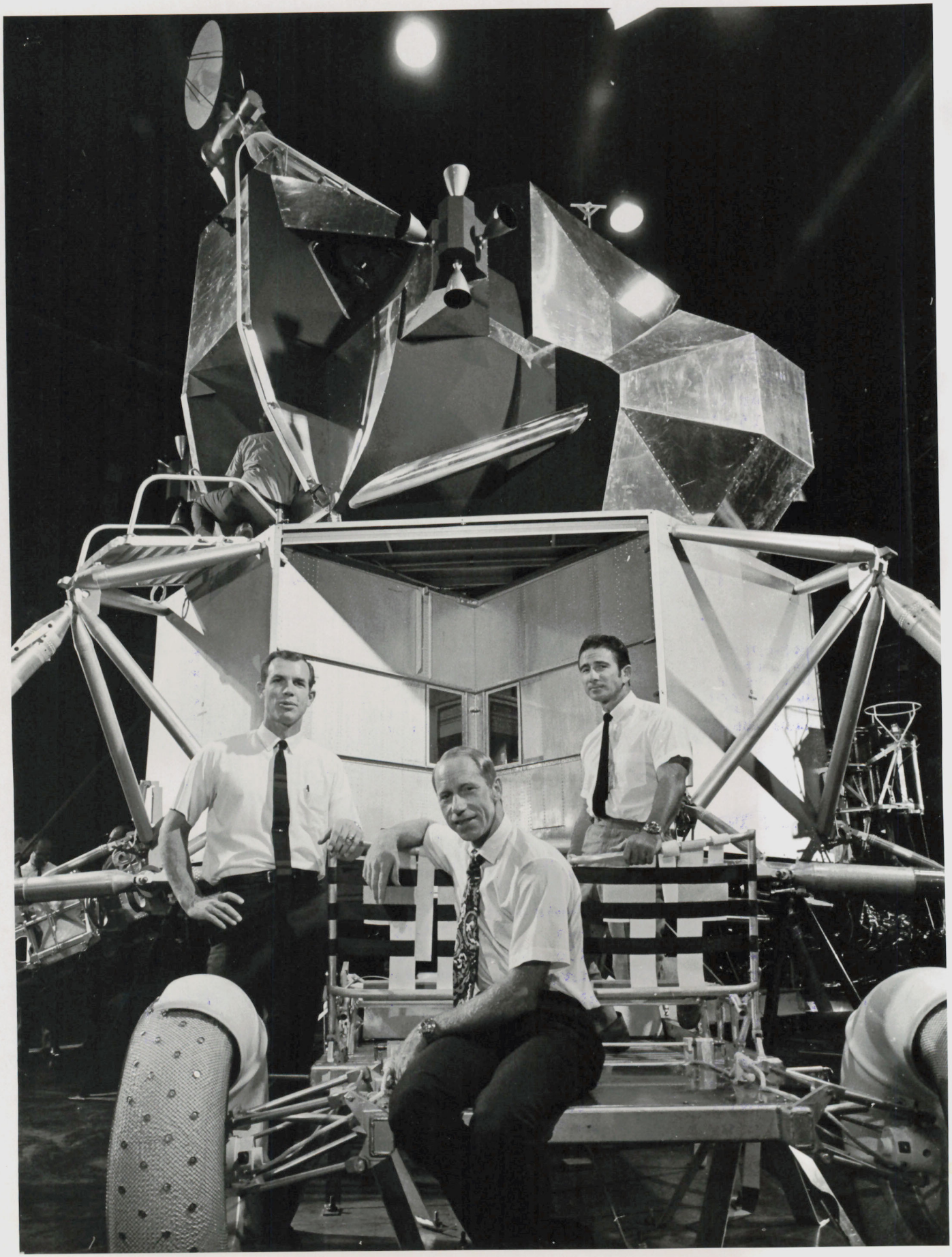
KENNEDY SPACE CENTER, FLA. -- Apollo 15 Command Module Pilot Alfred M. Worden will be launched to the Moon no earlier than July 26, 1971, with astronauts David R. Scott and James B. Irwin.

PHOTO CREDIT -- NASA or National Aeronautics and Space Administration



Alfred B. Worden
M.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

FRI SEP 18 1970
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PHOTO NO. S-70-47575

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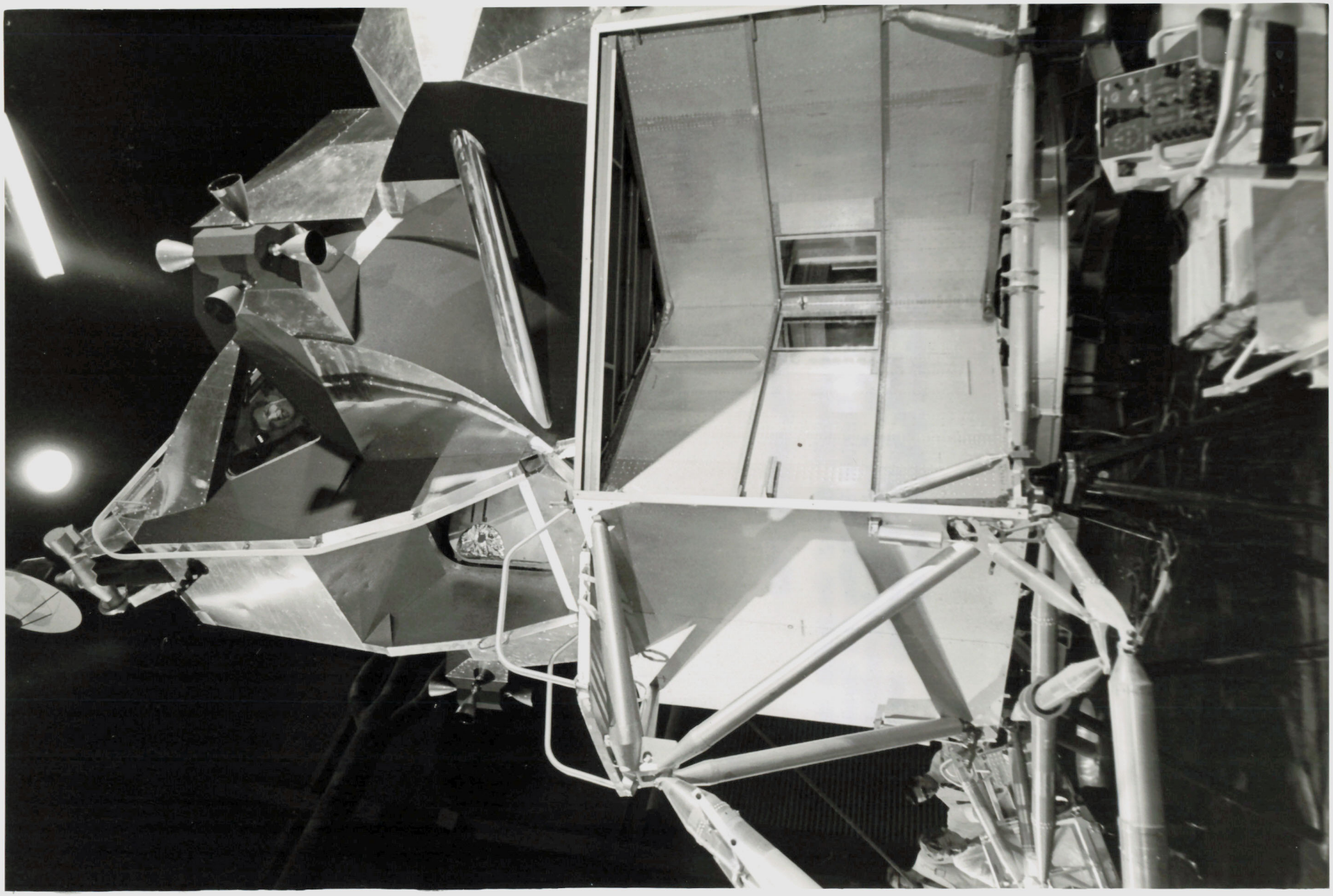
B & W

15 SEPT 1970 S-70-47575

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 CREW/EQUIPMENT--Astronauts David R. Scott, Alfred M. Worden and James B. Irwin (left to right), the crewmen for the Apollo 15 lunar landing mission, are photographed with lunar rover and lunar module trainer in Building 5 at the Manned Spacecraft Center. The rover (LRV) will be used for the first time on the Apollo 15 mission. Scott, mission commander, and Irwin, the lunar module pilot, will descend in the Apollo 15 lunar module to explore the Moon and initiate use of the lunar roving vehicle while Worden remains with the command and service modules in lunar orbit.

NASA
S-70-17572



Lunar Excursion Module

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8-9-71
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

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COLOR

15 SEPT 1970 S-70-17572

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 TRAINING----Overall view of the Apollo Lunar Module mock-up in Building 5, Mission Simulation and Training Facility, Manned Spacecraft Center, during Apollo 15 pre-flight training. Astronaut David R. Scott, Apollo 15 commander, can be seen through the left window of the LM mock-up.

NASA
S-71-29952

Project Apollo 15

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B & W

26 MARCH 1971 S-71-29952

CAPE KENNEDY, FLORIDA

APOLLO 15 TRAINING-----An interior view of the Apollo 15 Command Module showing the Apollo 15 crewmen participating in simulation training at the Kennedy Space Center. Astronaut Alfred M. Worden, command module pilot, is in the center foreground. In the left background can be seen Astronaut David R. Scott, commander. Astronaut James B. Irwin, lunar module pilot, is on the right.

NASA
S-71-43203

Moon Rocks

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HOUSTON, TEXAS 77058

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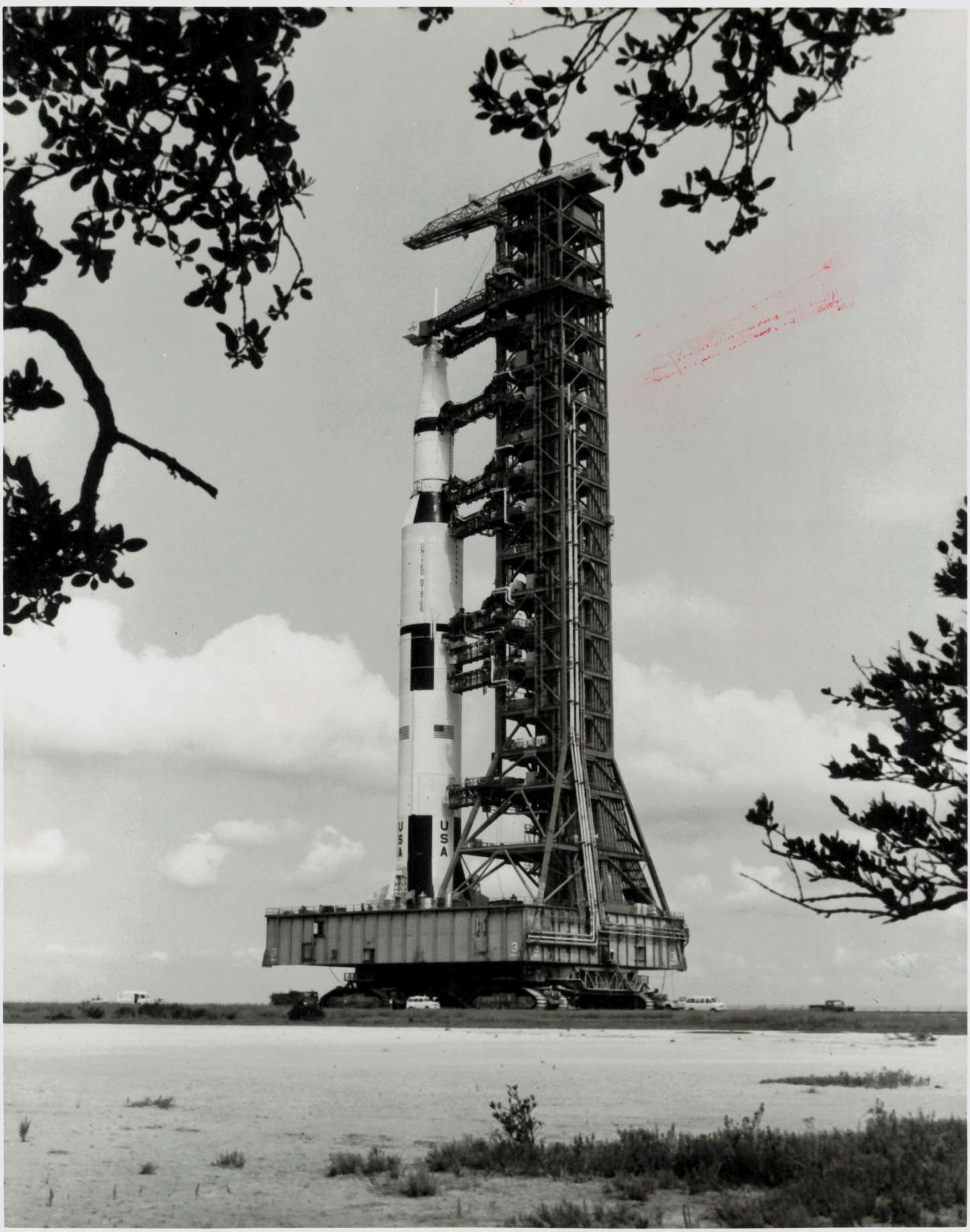
B & W

9 AUG 1971 S-71-43203

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 ROCKS REVEALED---Astronauts David R. Scott, left, and James B. Irwin, right, join MSC geologists in getting first looks at some of the first Apollo 15 samples to opened in the Non-Sterile Nitrogen Processing Line (NNPL) in the Manned Spacecraft Center's Lunar Receiving Laboratory (LRL). Holding the microphone and making recorded tapes of the two Apollo 15 crewmen's comments is Dr. Gary Lofgren. Partially obscured, near center of photo is Dr. William Phinney, and to his left is Dr. James L. Head.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Project Apollo 15

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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APOLLO 15 SPACECRAFT - The Saturn V space vehicle the Apollo 15 astronauts will ride to the Moon is seen towering over the Florida landscape during rollout from the Vehicle Assembly Building to Launch Pad A at the Kennedy Space Center. The 3-1/2 mile trip took approximately six hours.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

NASA
S-70-53301

Moon Buggy

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B & W

2-3 NOV 1970 S-70-53301

CINDER LAKE CRATER FIELD, ARIZONA

APOLLO 15 TRAINING----Two Apollo 15 crewmen, riding a lunar roving vehicle simulator, participate in geology training at the Cinder Lake crater field in Arizona. Astronaut David R. Scott, Apollo 15 commander, is seated in the background; and to Scott's right is Astronaut James B. Irwin, lunar module pilot. They have stopped at the rim of a 30-foot crater to look over the terrain. The simulator, called "Grover," was built by the U.S. Geological Survey.

NASA
S-71-34866

Alfred M. Worden

8-1-71

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HOUSTON, TEXAS 77058

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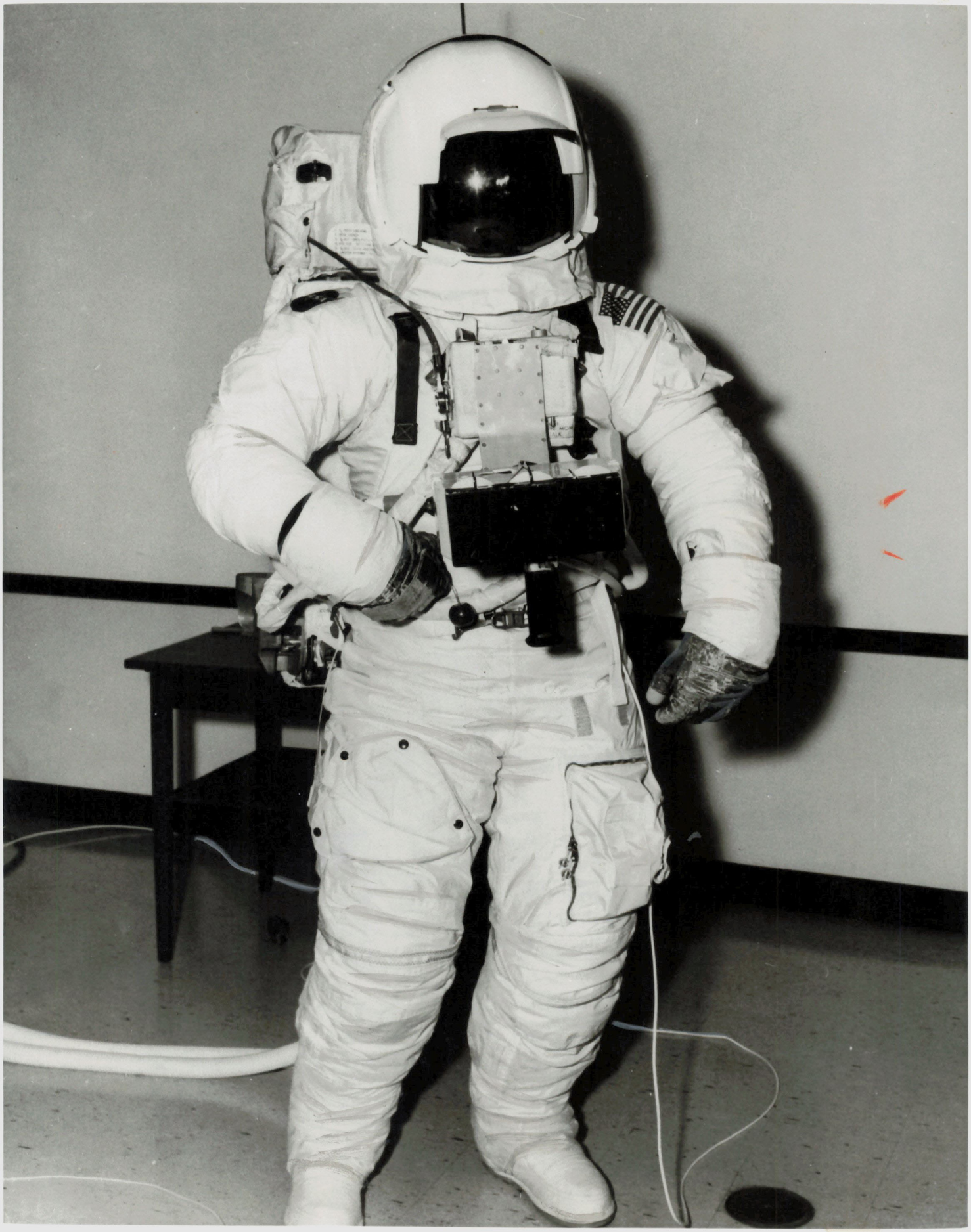
B & W

24 MAY 1971 S-71-34866

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

APOLLO 15 PANORAMIC CAMERA--Astronaut Alfred M. Worden, command module pilot for the Apollo 15 lunar landing mission, at a press conference at NASA Hq., Washington, D.C., demonstrates a model of the Apollo panoramic camera. The Apollo 15 version of the camera will provide stereographic ground imagery on standard, thin base, 5-inch-wide film. Lateral coverage is 108 degrees (54 degrees each side of the ground track). Stereo coverage is provided with a convergent angle of 25 degrees. The frame of imagery produced by the camera is 45.24 ± 1.25 inches across track and 4.50 inches along track. The mission objectives of the panoramic camera are to obtain high resolution photography of potential lunar landing sites and exploration areas and to provide selected detailed information to support the geodetic-cartographic goals of the lunar mapping program.



18-80

A76502 - apollo 15

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WASHINGTON, D.C. 20546

FOR RELEASE: Filed: April 8, 1971

PHOTO NO. 71-HC-565
71-H-674

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HOUSTON, TEXAS

LATE APOLLO EMU--A close-up view of a complete Extravehicular Mobility Unit (EMU) of the type to be used for the Apollo 15 and subsequent lunar landing missions. This improved design will allow increased lunar surface extravehicular activity periods, extended range of operation, and greater mobility over equipment used on previous missions. Features shown include the pressure garment assembly (PGA) with thermal coverlayer; the portable life support system (PLSS); the oxygen purge system (OPS) for emergency use; remote control unit (RCU), which fits on chest of PGA; lunar extravehicular visor assembly (LEVA), and the Goertz lunar surface camera, which attaches to a bracket on the RCU. The lunar surface boots are not shown. The PGA is manufactured by International Latex Corporation Industries of Dover, Delaware; the PLSS, RCU and OPS by Hamilton Standard Division of United Aircraft Corp., Windsor Locks, Ct., and the visor assembly by Ling-Temco-Vought, Inc. of Dallas, under subcontract to ILCI.

REFERENCE
APR 29 '71
N. E. A.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

FORM 220

IRWIN
APOLLO 15
SCOTT WORDEN IRWIN

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

FOR RELEASE: July 2, 1971

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71-HC-851

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KENNEDY SPACE CENTER, FLA. -- Apollo 15 Lunar Module Pilot James B. Irwin will be making his first space flight when he is launched to the Moon with Astronauts David R. Scott and Alfred M. Worden. Irwin and Scott will conduct three traverses of the Moon's Hadley-Apennine region while Worden maintains the command module in lunar orbit and conducts experiments. They will be launched to the Moon no earlier than July 26, 1971.

James B. Irwin

13/4

AUG 9 1971

STATES COMET

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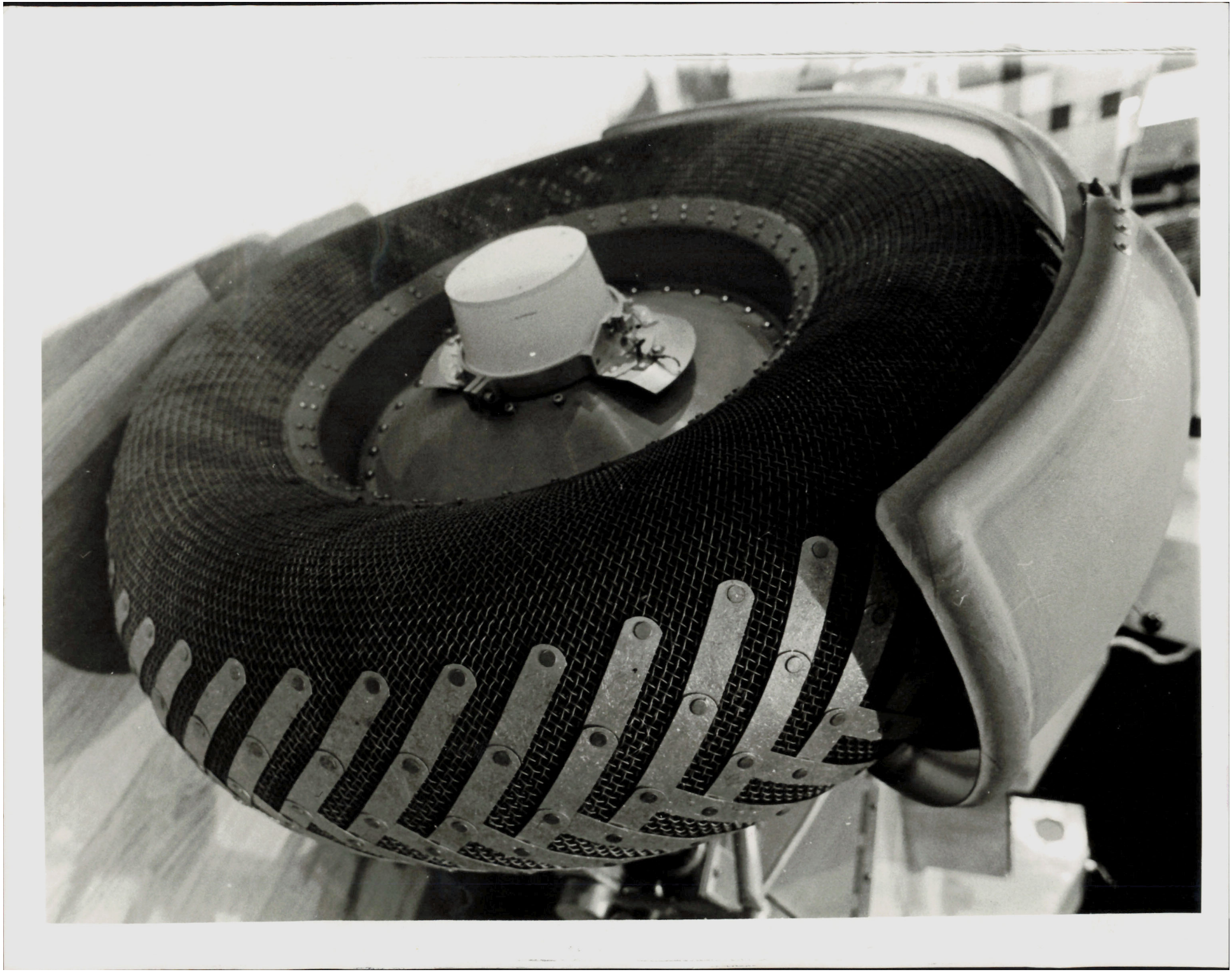

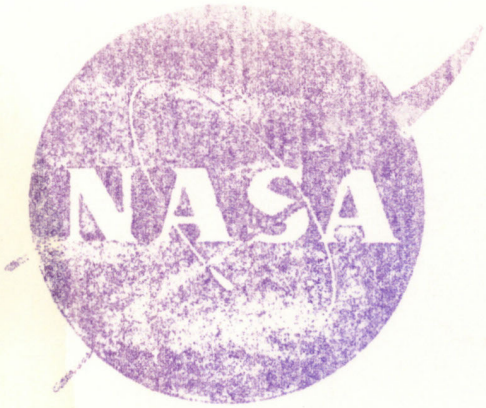

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PUNCTURE-PROOF TIRE - One of the wheels of the Apollo 15 lunar roving vehicle. The wheels are woven of zinc-coated piano wire with a spun aluminum hub and titanium bump stop. Chevron-shaped threads of titanium are riveted to the wire mesh around each wheel's outer circumference. Each wheel weights 12 pounds on Earth (two lunar pounds).

Space buggy

JUL 28 1971

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

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WASHINGTON, D.C. 20546

FOR RELEASE: Filed: May 14, 1971

PHOTO NO. 71-H-833

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KENNEDY SPACE CENTER, FLA. -- Astronaut David R. Scott adjusts the high-gain antenna on the Lunar Roving Vehicle (LRV). The National Aeronautics and Space Administration's fourth manned lunar landing mission Apollo 15 with the selected Hadley-Apennine site some 465 miles north of the Lunar Equator as the target point will use the Lunar Roving Vehicle (LRV) to traverse the surface during the three planned expeditions during the 67 hour stay. The flight crew members are astronauts David R. Scott, commander; James B. Irwin, lunar module pilot; and Alfred M. Worden, Jr., command module pilot.

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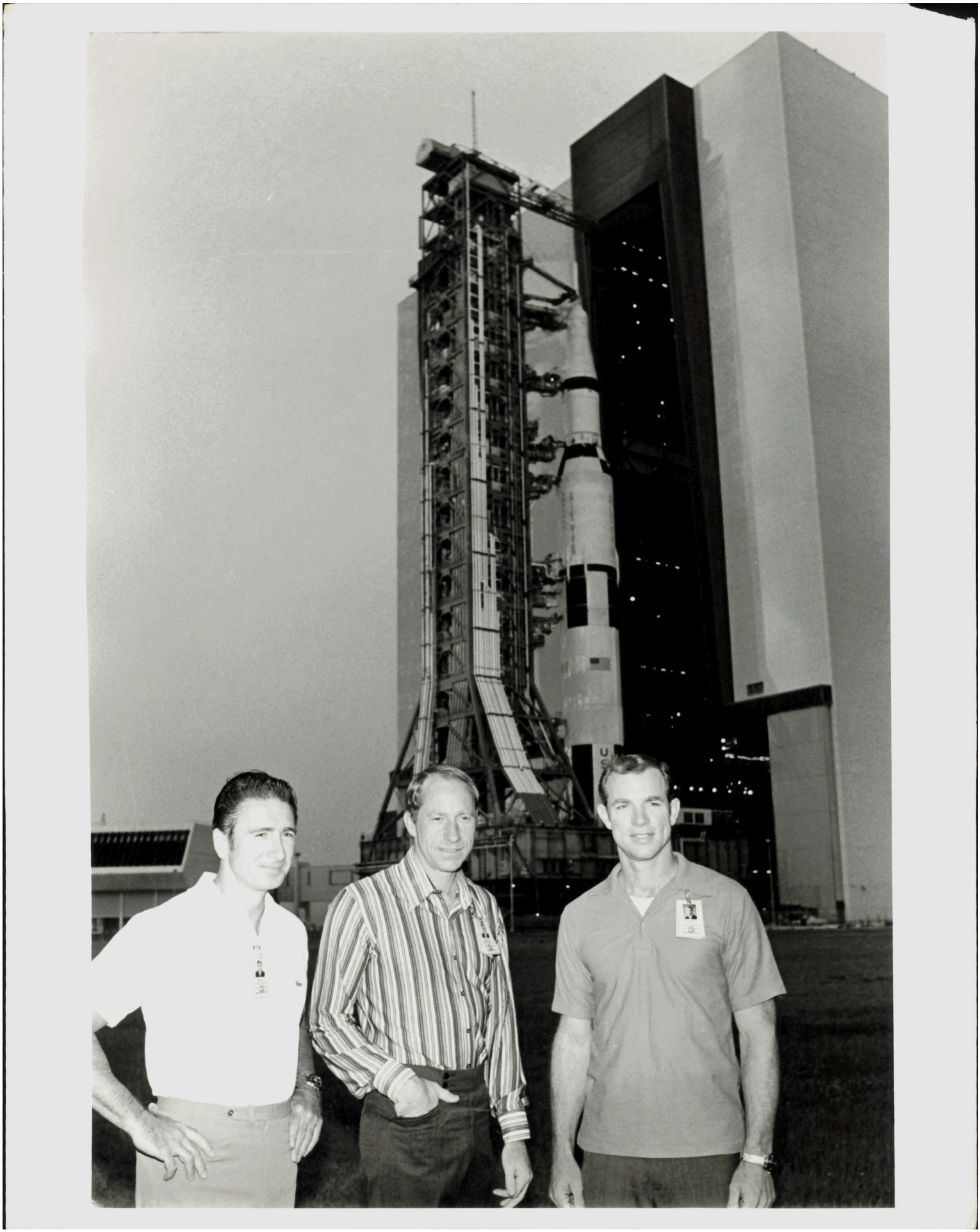

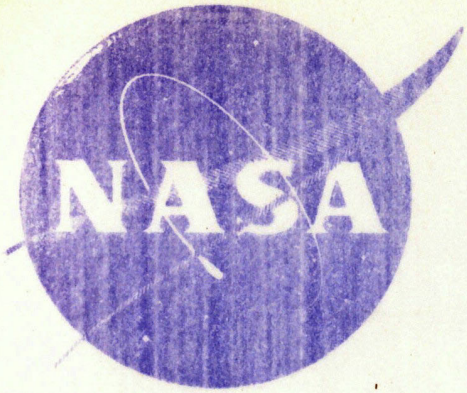

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FOR RELEASE: Filed: May 14, 1971

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71-HC-700

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KENNEDY SPACE CENTER, FLA. -- The ninth manned Apollo crew (L-R) Alfred M. Worden, Jr., command module pilot, James B. Irwin, lunar module pilot, and David R. Scott, commander were on hand for the Apollo 15 roll out. Apollo 15 is the fourth lunar landing mission, and the first to use the Lunar Roving Vehicle to traverse the lunar surface.

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

NASA
S-71-33781

NASA- Apollo 15

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

FOR RELEASE:

PHOTO NO. S-71-33781

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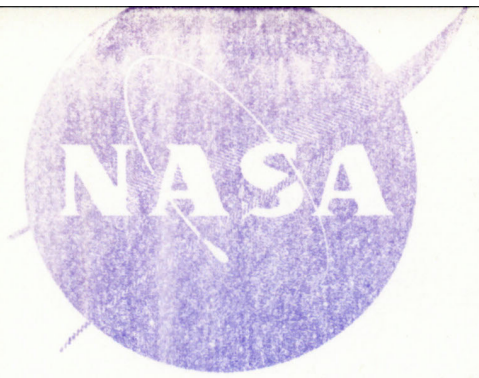
COLOR

11 MAY 1971 S-71-33781

CAPE KENNEDY, FLORIDA

APOLLO 15 ROLL OUT -- High-angle view showing the Apollo 15 (Spacecraft 112/Lunar Module 10/Saturn 510) space vehicle on the way from the Vehicle Assembly Building (VAB) to Pad A, Launch Complex 39 at Kennedy Space Center. The Saturn V stack and its mobile launch tower are atop a huge crawler-transporter.. Apollo 15 is scheduled as the fourth manned lunar landing mission for the National Aeronautics and Space Administration. The crewmen will be Astronauts David R. Scott, Alfred M. Worden and James B. Irwin.

UNITED
STATES



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

FOR RELEASE: May 24, 1971
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WASHINGTON, D.C. -- Astronaut Alfred M. Worden, command pilot for the Apollo 15 lunar landing mission, at a press conference at National Aeronautics and Space Administration headquarters, demonstrates a model of the Apollo panoramic camera. The panoramic camera for the Apollo 15 mission provides stereographic ground imagery on standard, thin base, 5-inch-wide film. Lateral coverage is 108 degrees (54 degrees each side of ground track). Stereo coverage is provided with a convergent angle of 25 degrees. The frame of imagery produced by the camera is 45.24 ± 1.25 inches across track and 4.50 inches along track. The mission objectives of the panoramic camera are to obtain high resolution photography of potential lunar landing sites and exploration areas and to provide selected detailed information to support the geodetic-cartographic goals of the lunar mapping program.

70

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WASHINGTON, D.C. 20546

FOR RELEASE: July 2, 1971

PHOTO NO. 71-H-1060
71-HC-852

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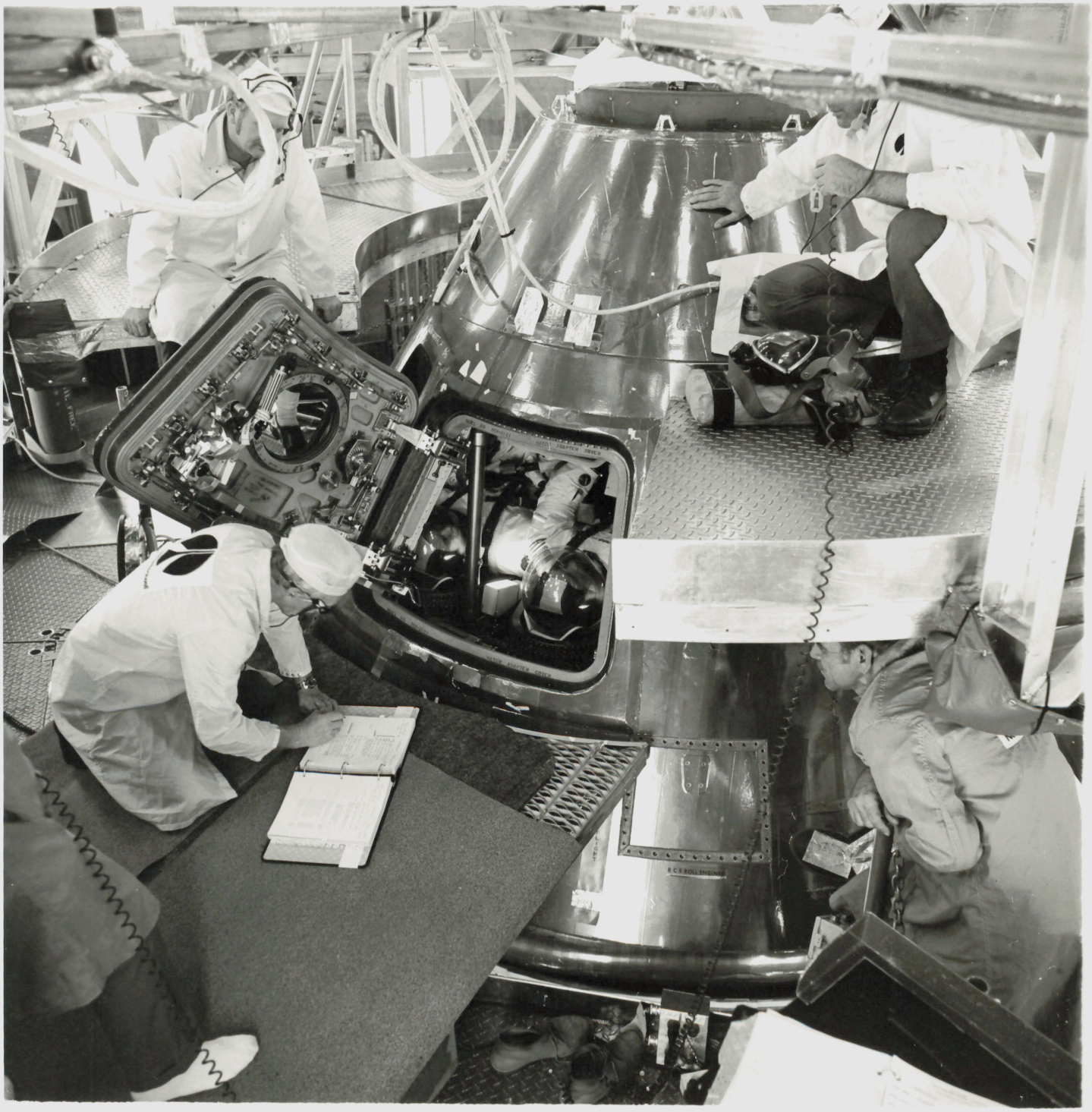
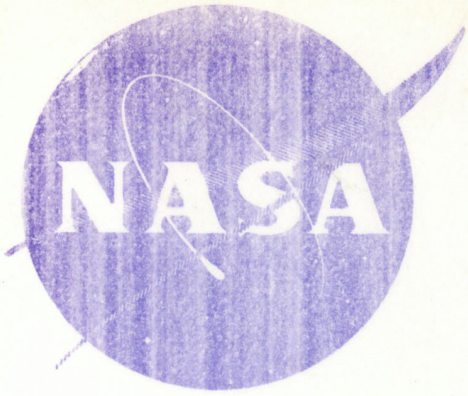
KENNEDY SPACE CENTER, FLA. -- Apollo 15 Command Module Pilot Alfred M. Worden will be launched to the Moon no earlier than July 26, 1971, with astronauts David R. Scott and James B. Irwin.

PHOTO CREDIT: NASA or National Aeronautics and Space Administration


R.C.S ROLL ENGINES



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FOR RELEASE: May 12, 1971
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KENNEDY SPACE CENTER, FLA. -- One of the Apollo 15 prime crew checks out the Command Service Module during a sea level altitude chamber test. The members of the Apollo 15 prime crew are James B. Irwin, lunar module pilot; David R. Scott, commander; and Alfred M. Worden, Jr., command module pilot. Apollo 15 is the fourth lunar landing mission and the first to use the Lunar Roving Vehicle to traverse the lunar surface.

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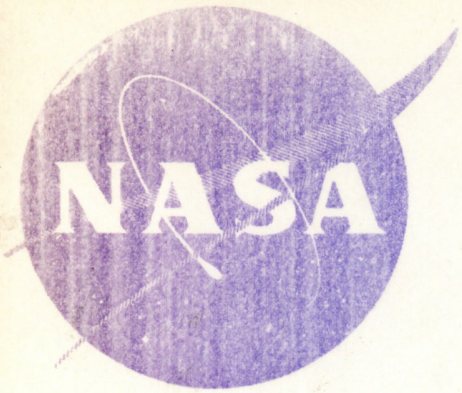

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FOR RELEASE: Filed: May 14, 1971

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71-HC-717

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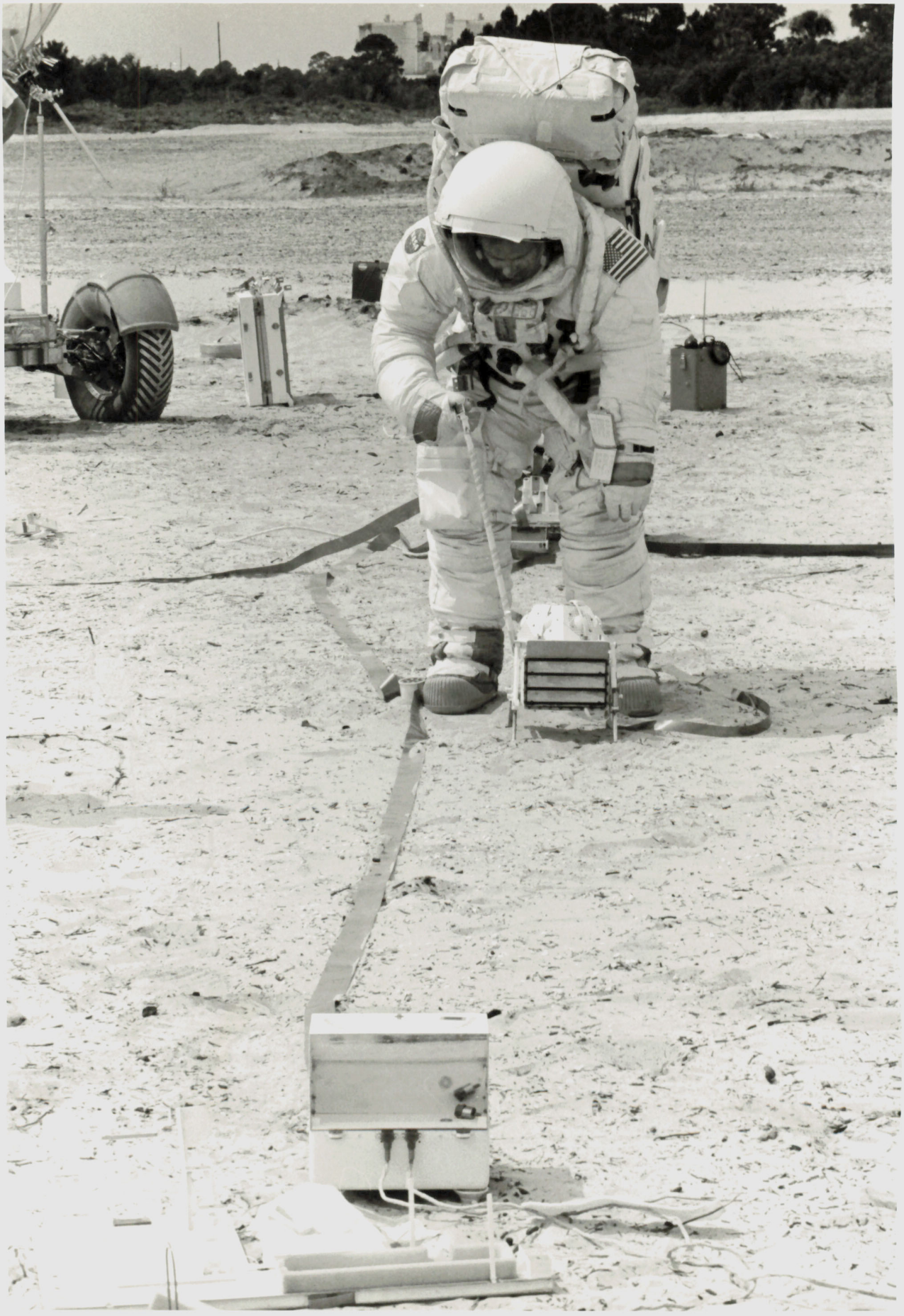
31 JUL 1973

KENNEDY SPACE CENTER, FLA. -- The lunar drill is demonstrated by astronaut David R. Scott during a extra-vehicular activity (EVA) time line simulation. The National Aeronautics and Space Administration's fourth manned lunar landing mission Apollo 15 with the selected Hadley-Apennine site some 465 miles north of the lunar equator as the target point will use the Lunar Roving Vehicle to traverse the surface during the three planned expeditions during the 67 hour stay. The flight crew members are astronauts David R. Scott, commander; James B. Irwin, lunar module pilot; and Alfred M. Worden, Jr., command module pilot.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



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WASHINGTON, D.C. 20546

FOR RELEASE: Filed: May 14, 1971

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71-HC-710

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KENNEDY SPACE CENTER, FLA. -- Astronaut James B. Irwin sets up the Apollo Lunar Surface Experiments Package (ALSEP) during an extra-vehicular activity time line study. The National Aeronautics and Space Administration's fourth manned lunar landing mission Apollo 15 with the selected Hadley-Apennine site some 465 miles north of the lunar equator as the target point will use the Lunar Roving Vehicle (LRV) to traverse the surface during the three planned expeditions during the 67 hour stay. The flight crew members are astronauts David R. Scott, commander; James B. Irwin, lunar module pilot; and Alfred M. Worden, Jr., command module pilot.

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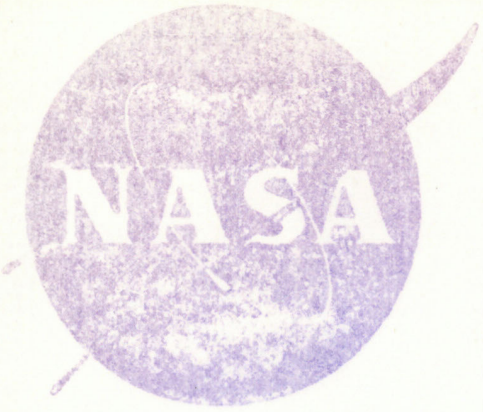

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WASHINGTON, D. C. 20546

FOR RELEASE: Filed: July 12, 1971

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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 INCOs---Edward L. Fendell, left, and Granvil A. Pennington prepare for their positions as Apollo 15 Instruments and Communications Systems Officers (INCOs) in the Mission Operations Control Room (MOCR) in Mission Control Center (MCC) at the Manned Spacecraft Center (MSC).

87

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NASA
S-71-40827

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Rodman L. Aboden, Jr.

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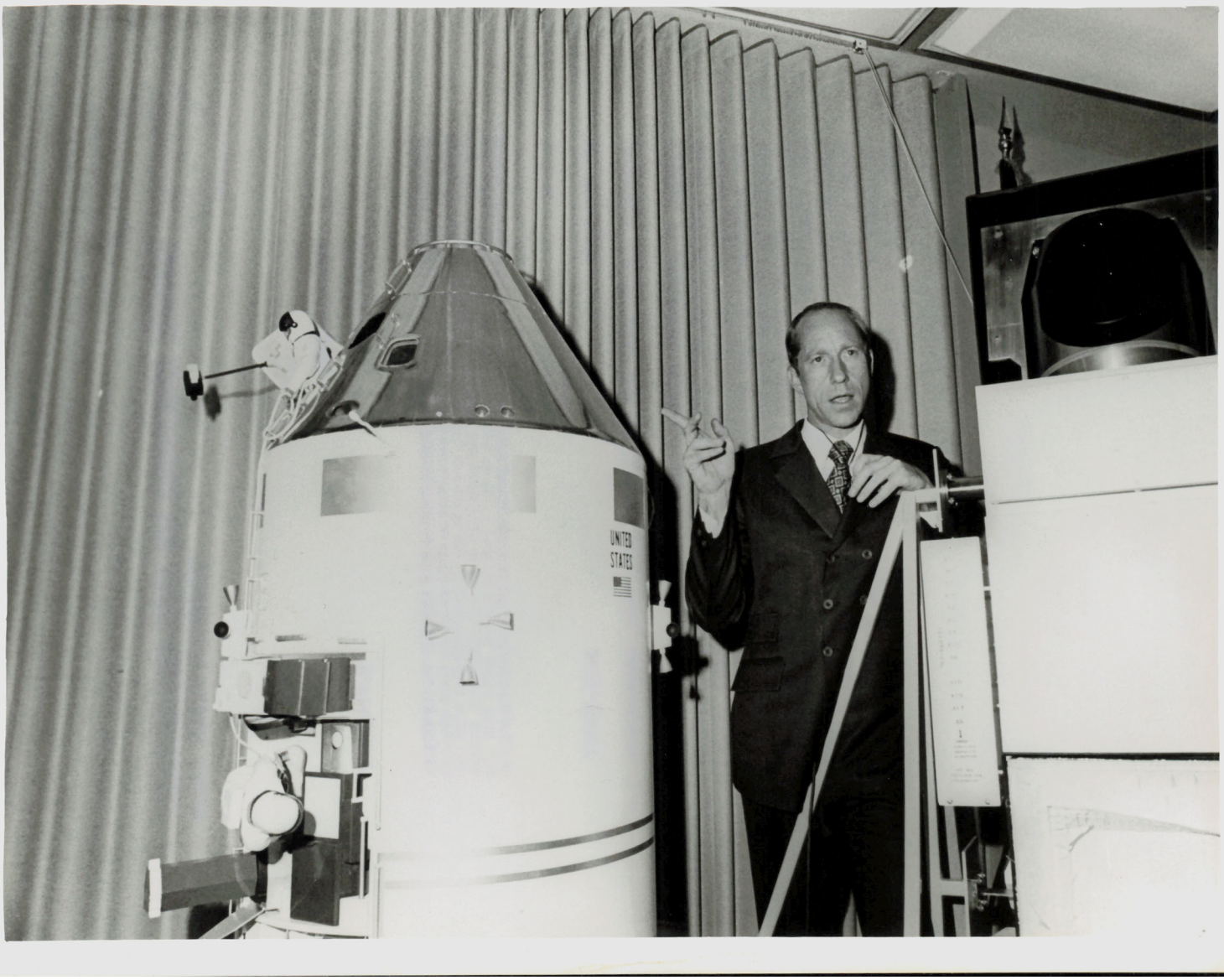
B & W

26 JULY 1971 S-71-40827

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 MCC----Shift 1 "Gold Team" Flight Director Gerald D. Griffin (left) talks with Astronaut Richard F. Gordon Jr., one of the spacecraft communicators, over a console in the Mission Operations Control Room in the Mission Control Center during the early minutes of the Apollo 15 lunar landing mission. Other flight controllers are in the background.

NASA
S-71-34867



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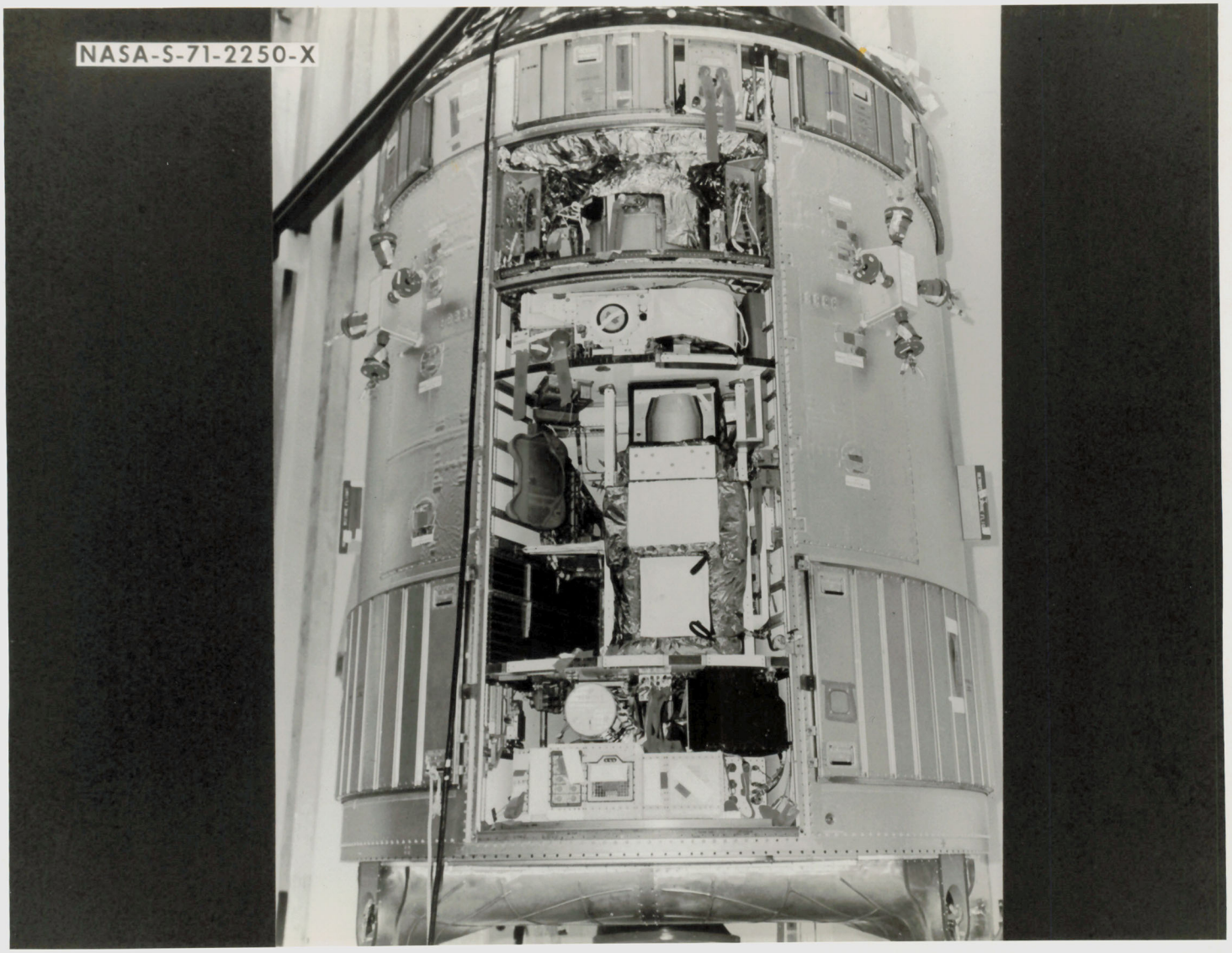
B & W

24 MAY 1971 S-71-34867

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

APOLLO 15 PANORAMIC CAMERA---Astronaut Alfred M. Worden, command module pilot for the Apollo 15 lunar landing mission, demonstrates a model of the Apollo panoramic camera (right) and relates it to the Scientific Instrument Module (SIM) mounted in the Service Module (model at left). The small manikin in the lower left represents Worden at work in the SIM, where the panoramic camera and other experimental equipment are located. The manikin at top, leaning out the open Command Module (CM) hatch, represents Astronaut James B. Irwin, the lunar module pilot. The Irwin model is holding the 16mm data acquisition camera.

Alfred M. Worden


NASA-S-71-2250-X

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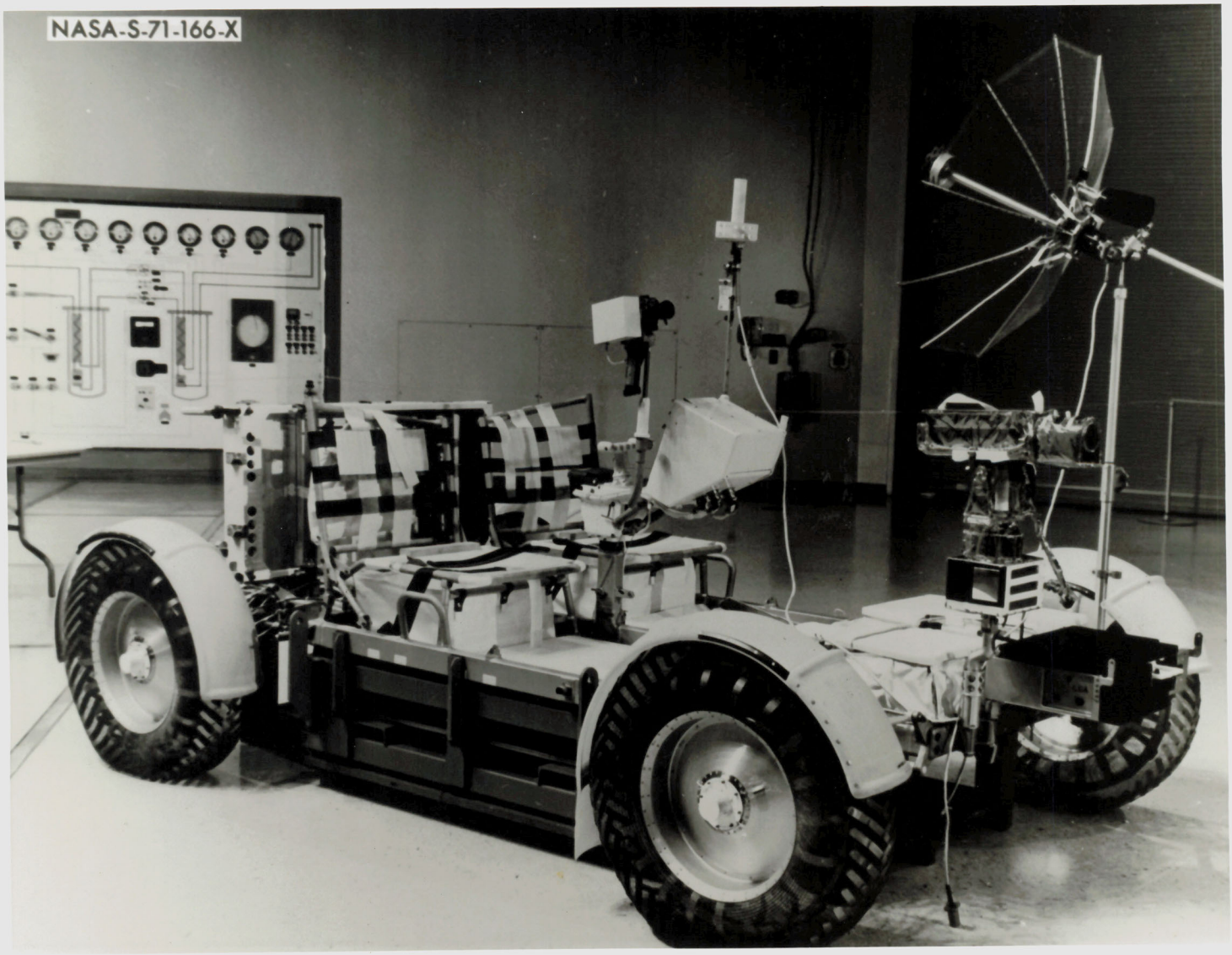
B & W

JUNE 1971 S-71-2250-X

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 CSM/SIM---Close-up view of the Scientific Instrument Module (SIM) to be flown for the first time on the Apollo 15 mission. Mounted in a previously vacant sector of the Apollo Service Module, the SIM carries specialized cameras and instrumentation for gathering lunar orbit scientific data. SIM equipment includes a laser altimeter for accurate measurement of height above the lunar surface; a large-format panoramic camera for mapping, correlated with a metric camera and the laser altimeter for surface mapping; a gamma ray spectrometer on a 25-foot extendable boom; a mass spectrometer on a 21-foot extendable boom; X-ray and alpha particle spectrometers; and a subsatellite which will be injected into lunar orbit carrying a particle detector and magnetometer, and the S-band transponder.

Project Apollo 15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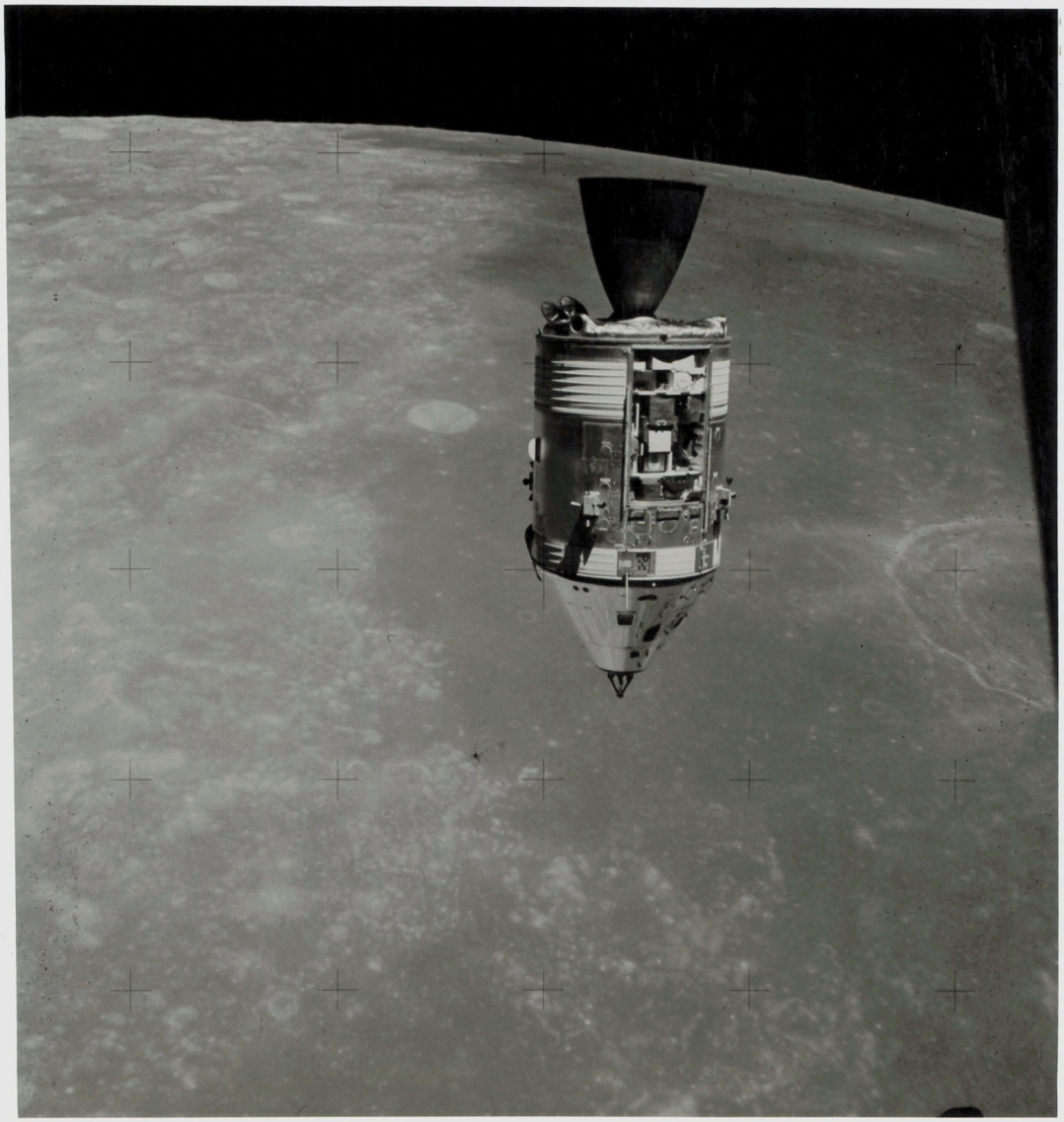
COLOR

JUNE 1971 S-71-166-X

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 LUNAR ROVING VEHICLE---A close-up view of the Lunar Roving Vehicle (LRV). Apollo 15 will be the first mission to employ the services of a rover. Astronauts David R. Scott and James B. Irwin will move about the lunar surface in the Hadley-Apennine region in their four-wheeled vehicle while Astronaut Alfred M. Worden remains with the Command and Service Modules in lunar orbit. A television camera, which can be controlled remotely from the ground (front), and a motion picture camera (rear) are among the gear on the LRV.

NASA
AS15-88-11972



Project Apollo 15

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NASA
S-70-53300

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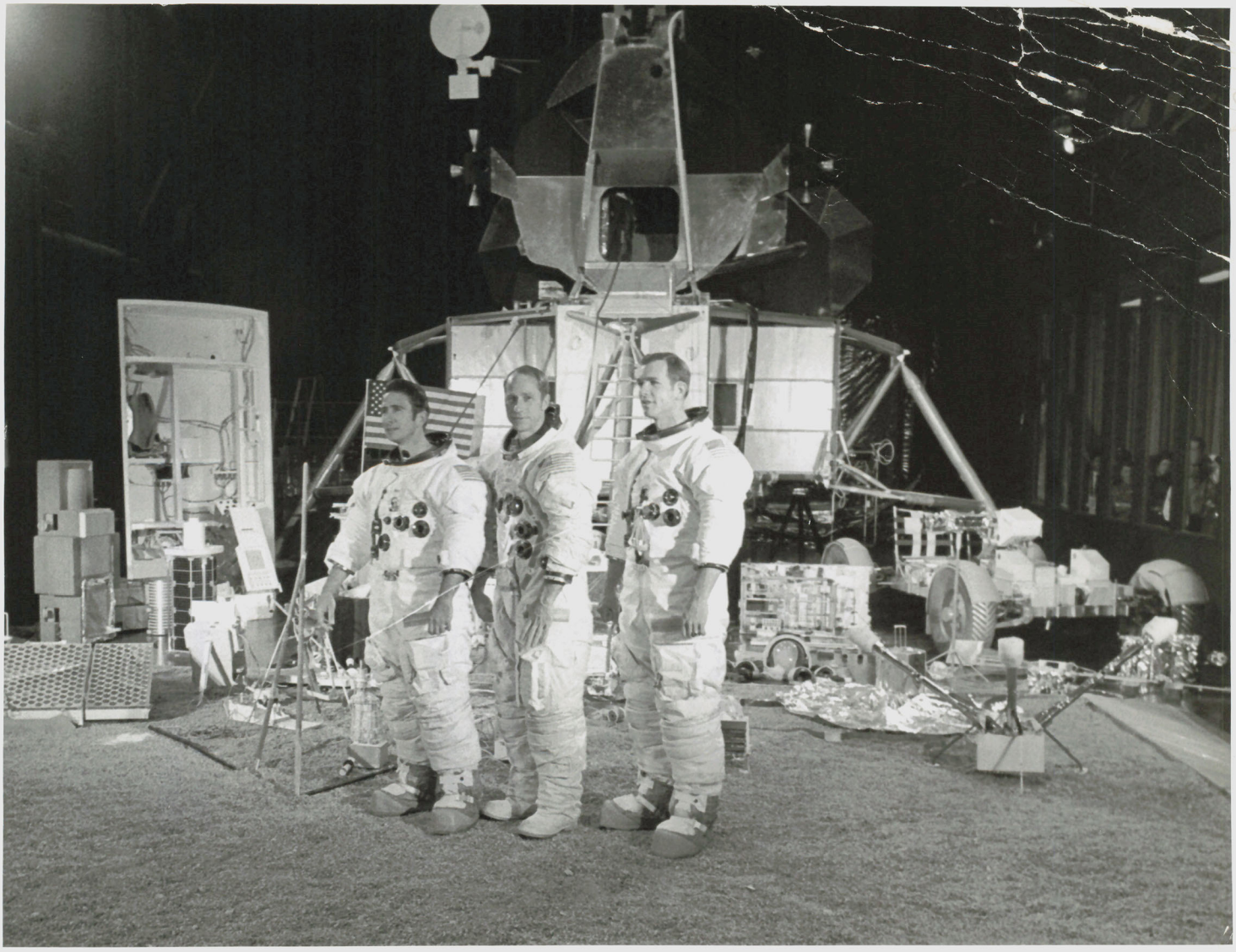
B & W

2-3 NOV 1970

CINDER LAKE CRATER FIELD, ARIZONA

APOLLO 15 TRAINING----Two Apollo 15 crewmen, riding a lunar roving vehicle simulator, participate in geology training at the Cinder Lake crater field in Arizona. Astronaut David R. Scott, Apollo 15 commander, is seated in the background; and to Scott's right is Astronaut James B. Irwin, lunar module pilot. They have stopped at the rim of a 30-foot crater to look over the terrain. The simulator, called "Grover," was built by the U.S. Geological Survey.

NASA
S-71-19408



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Project Apollo 15

B & W

10 FEB 1971 S-71-19408

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 CREW/EQUIPMENT---Apollo 15 crewmen show off equipment and experiments which will be flown on their lunar landing mission during a meeting with newsmen and photographers in the Mission Simulation and Training Facility, Building 5, at the Manned Spacecraft Center. From right to left are Astronauts David R. Scott, commander; Alfred M. Worden, command module pilot; and James B. Irwin, lunar module pilot, all wearing their pressure garment assemblies (PGA). A full-size Apollo 15 Lunar Module mockup is in the background, with a one-G Lunar Roving Vehicle (LRV) trainer parked nearby at right. Among the array are components of the Apollo Lunar Surface Experiments Package (ALSEP), as well as several other experiments. Scott and Irwin are scheduled to descend to the lunar surface in their LM while Worden remains with the Command and Service Modules in lunar orbit.

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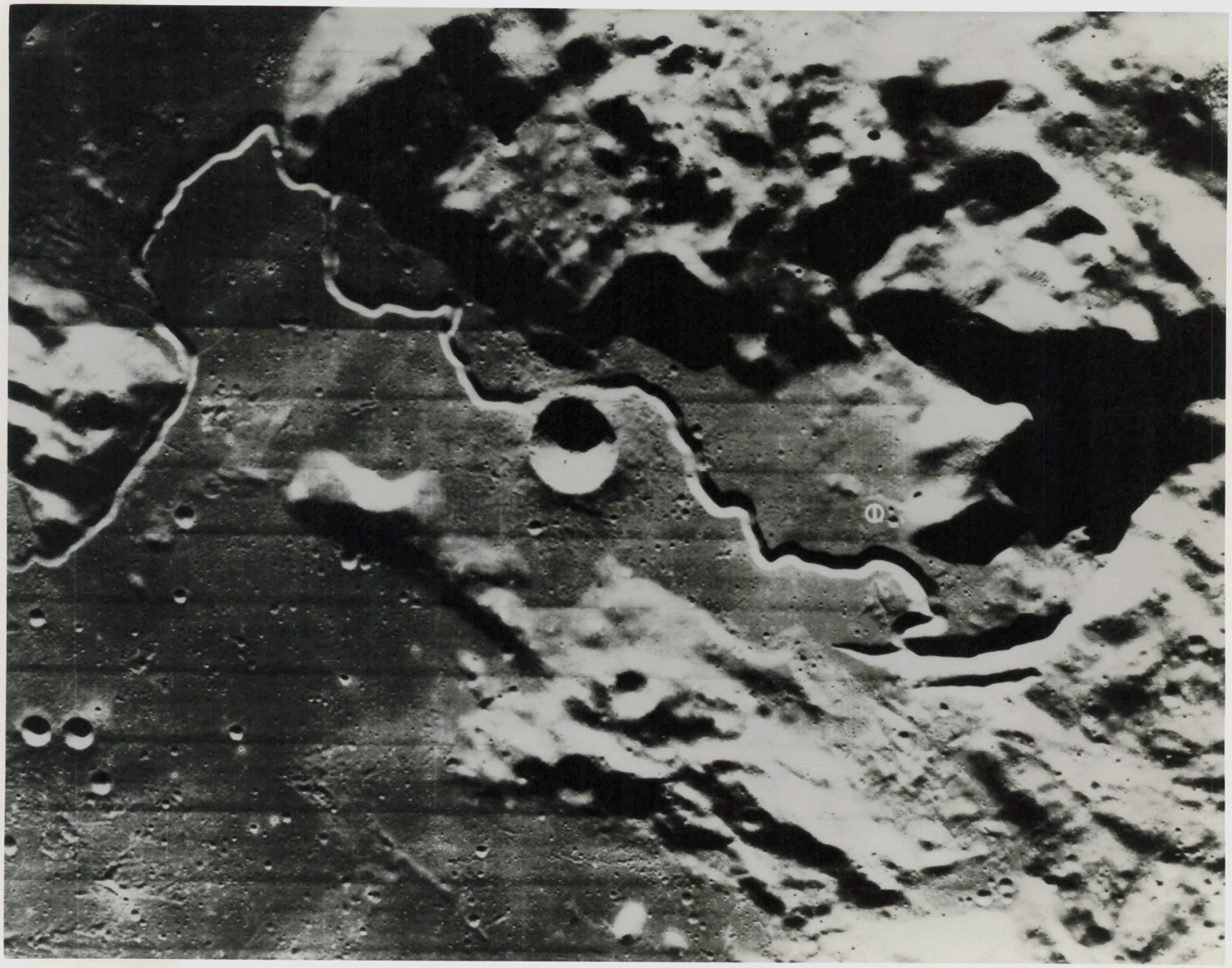
NASA
S-70-19763



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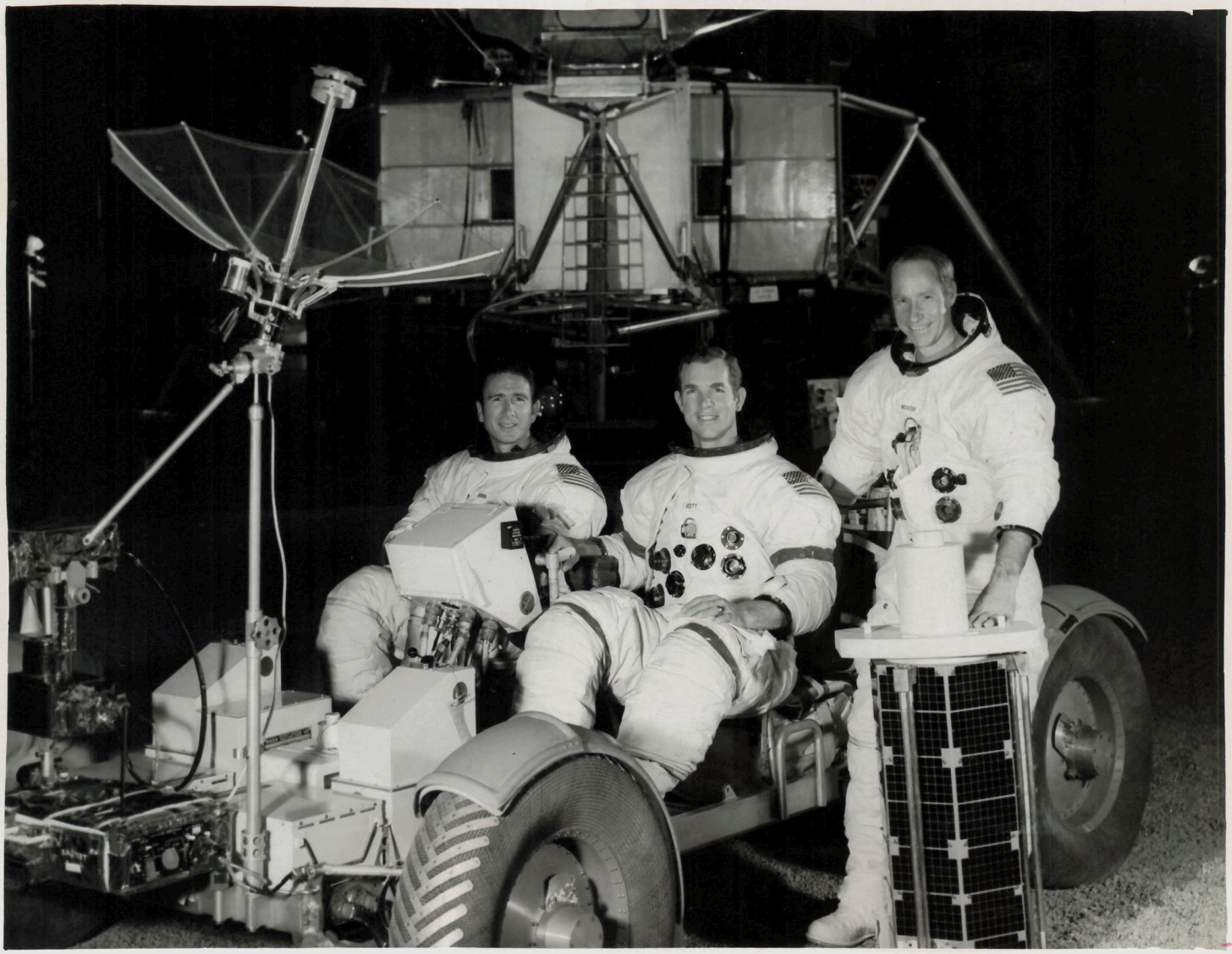
B & W

1 OCT 1970 S-70-19763

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 SITE----The Hadley-Apennine area, the landing site for the Apollo 15 lunar landing mission. The small, white circle at left center indicates the location of one of the touchdown points which had been proposed. However, now the actual selected landing site is located in the lower right corner of the picture next to the sharp bend in Hadley Rille. The 60-mile-long, meandering Hadley Rille is a mile wide and 1200 feet deep at the Apollo 15 site. The Apennine Mountains are at the lower left. The landing area is about three degrees east of the center of the Moon as viewed from the Earth and 25 degrees--about 465 miles--north of the lunar equator, on the edge of the Sea of Rains. The relatively large, circular crater in the center of the photograph is Hadley C.

NASA
S-71-22407



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Project Apollo 15

NOW JUL 26 1971

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COLOR (PORTRAIT)

MARCH 1971 S-71-

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 CREW---These three astronauts have been named by the National Aeronautics and Space Administration as the prime crewmen of the Apollo 15 lunar landing mission. They are, left to right, James B. Irwin, lunar module pilot; David R. Scott, commander; and Alfred M. Worden, command module pilot.

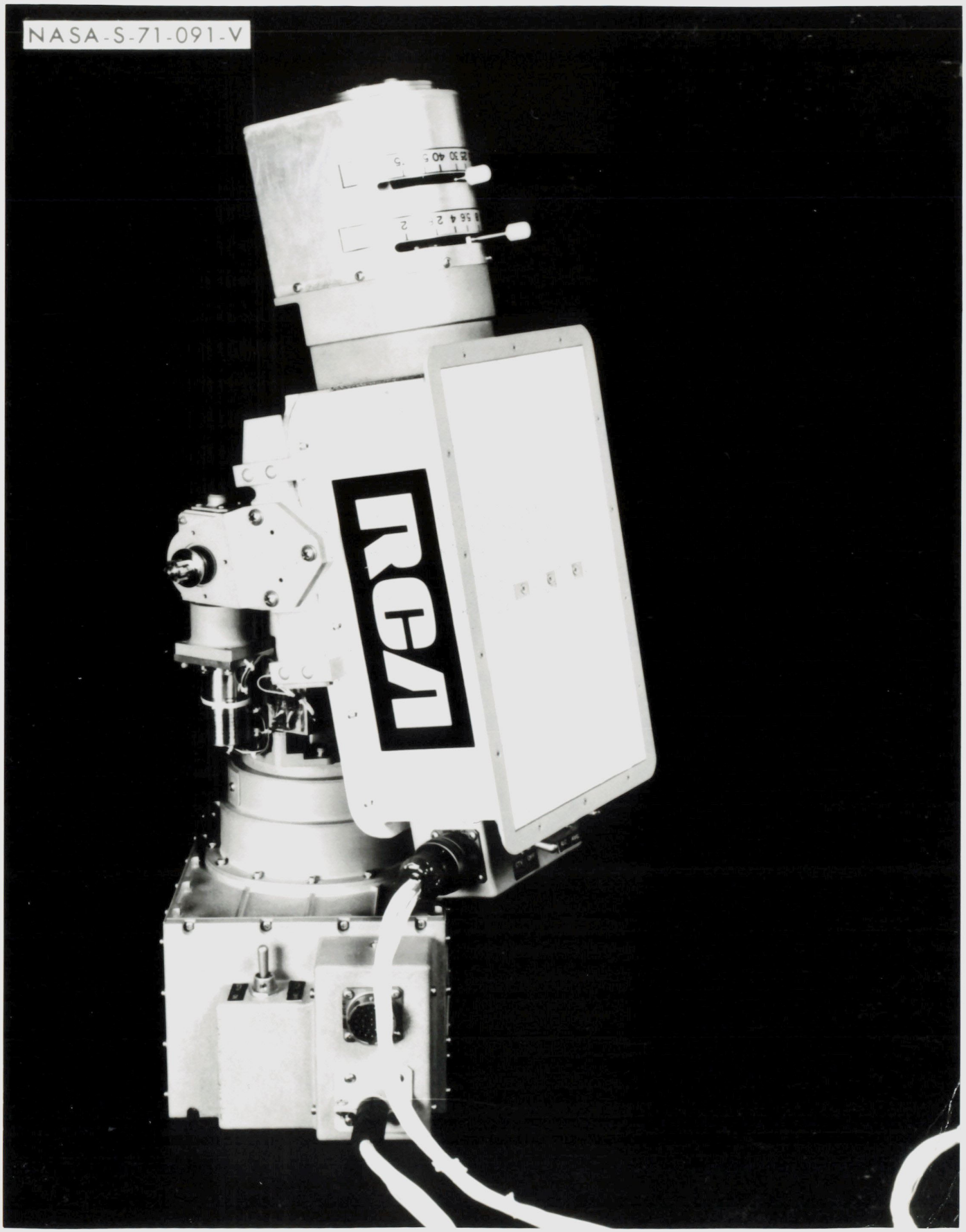
Slug: Ready for Moon Mission
4 col x 5 3/4
Sun w/story
Apollo 15 astronauts

RETURN TO ORIGINATOR'S FILE TUE JUL 27 1971

NASA Photo SUN JUL 25 1971

READY FOR MOON MISSION

Apollo 15 Astronauts are pictured as they trained for their lunar landing mission. From left are James B. Irwin, lunar module pilot, David R. Scott, commander, and Alfred M. Worden, command module pilot. Scott and Irwin are seated in the Lunar Roving Vehicle (LRV).


NASA-S-71-091-V
RCA

Project Apollo 15

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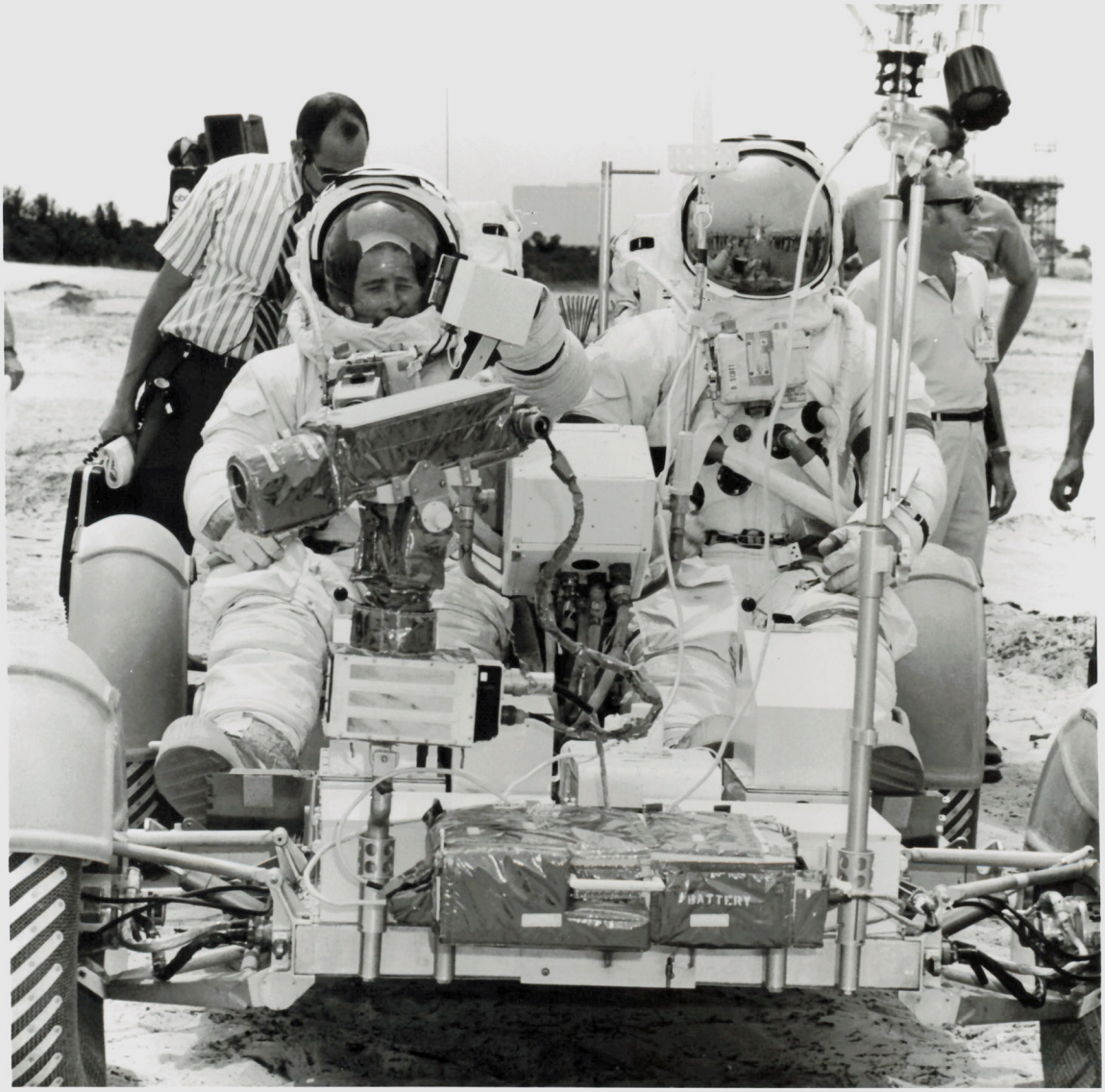
COLOR

JUNE 1971 S-71-091-V

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 CTV/TCU---A close-up view of a trainer model of the color television camera (CTV) and television control unit (TCU)--components of the Ground Control Television System for Apollo 15. The camera is to be configured on the front of the Lunar Roving Vehicle (LRV).

NASA
S-71-37219



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COLOR

11 MAY 1971 S-71-37219

CAPE KENNEDY, FLORIDA

APOLLO 15 LRV/EVA TRAINING---The two moon-exploring prime crew members of the Apollo 15 lunar landing mission train with the Lunar Roving Vehicle (LRV) at Kennedy Space Center, Florida, wearing their complete Extravehicular Mobility Units (EMU). That is Astronaut David R. Scott, mission commander, at right, with Astronaut James B. Irwin, lunar module pilot, at left. Brightly colored protective thermal foil material is used on the Ground Commanded Color Television Assembly (GCTA), above, and the Lunar Communications Relay Unit (LCRU), below.

Project Apollo 15

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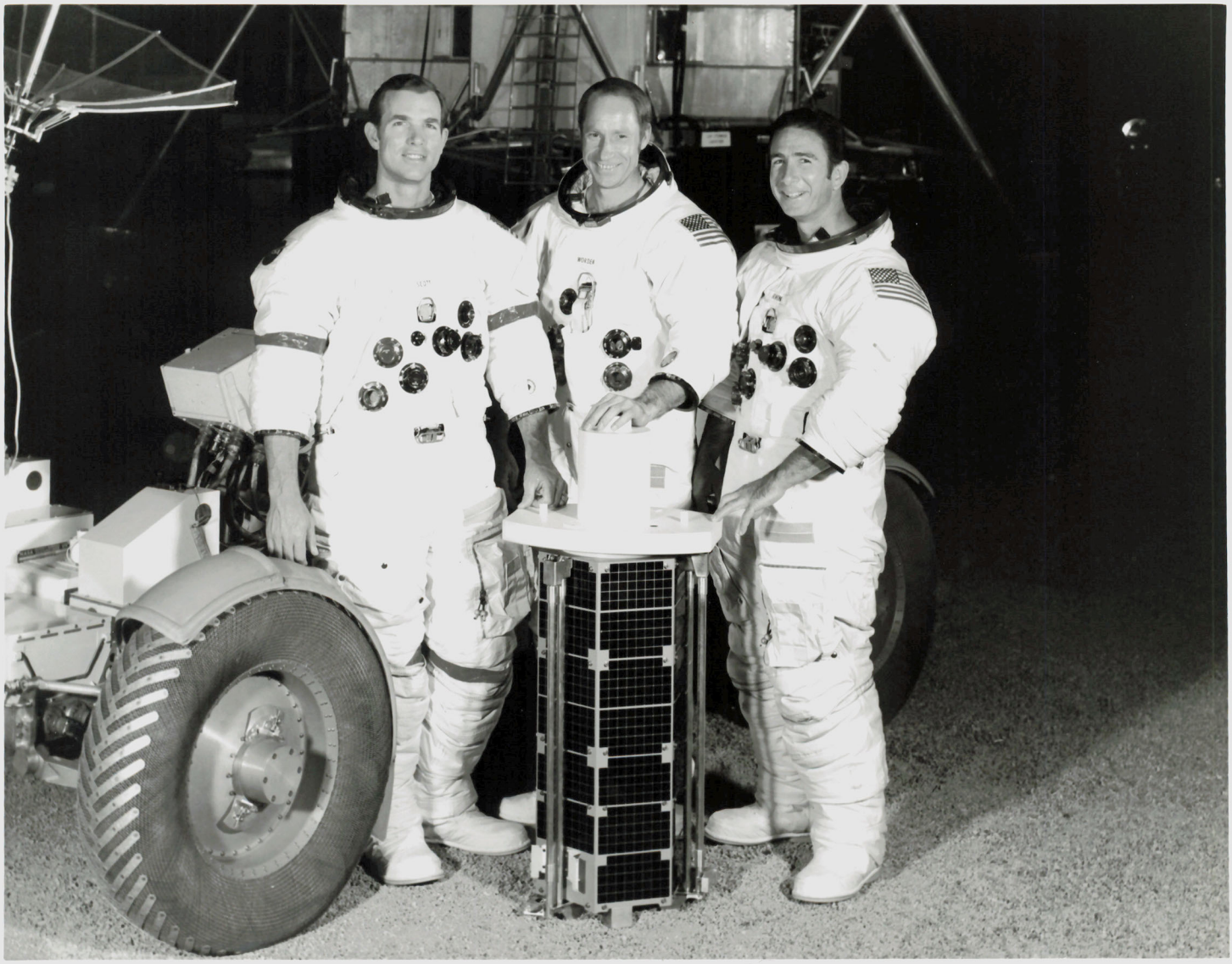
NASA
S-71-22401



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COLOR

MARCH 1971 S-71-22401

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 CREW----These three astronauts have been named by the National Aeronautics and Space Administration as the prime crewmen of the Apollo 15 lunar landing mission. They are, left to right, David R. Scott, commander; Alfred M. Worden, command module pilot; and James B. Irwin, lunar module pilot.

Project Apollo 15

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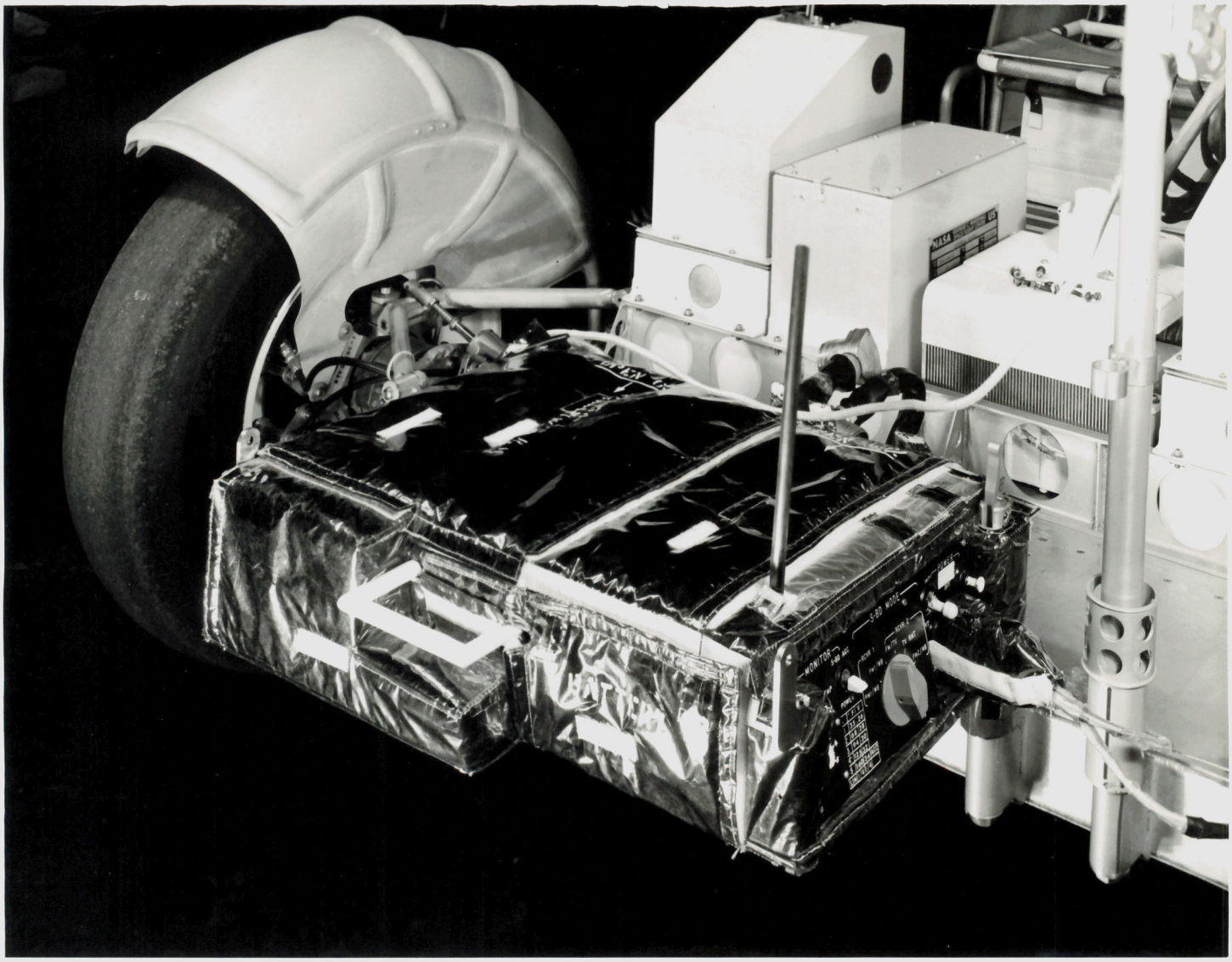
NASA
S-71-20061



FROM RETURN TO
CHRONICLE 35P 1975

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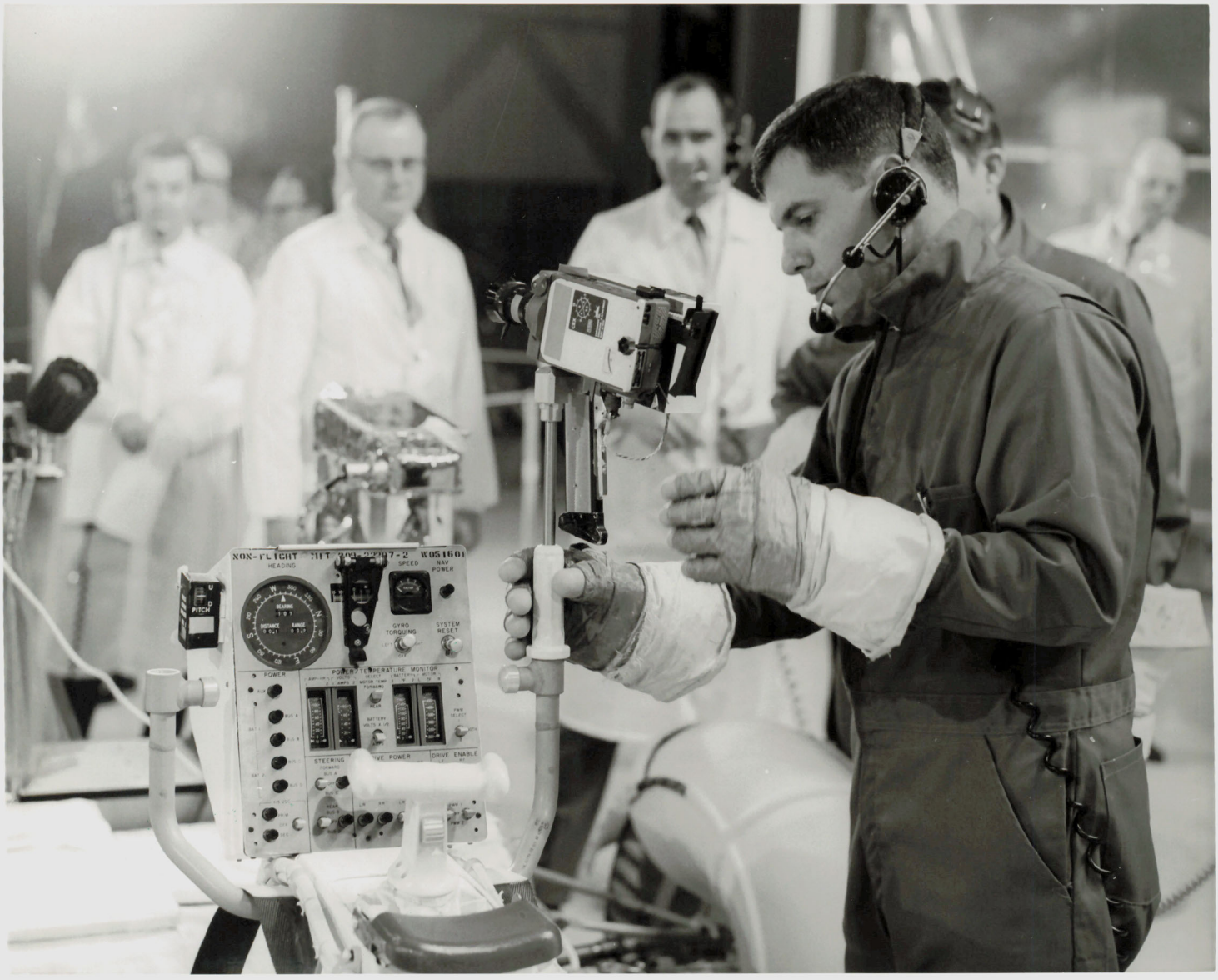
COLOR

APRIL 1971 S-71-20061

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 LCRU-----The range from which the Apollo 15 crewmen can operate from the Lunar Module during EVAs will be extended over the lunar horizon by this suitcase-size device called the Lunar Communications Relay Unit (LCRU). The LCRU may be carried on a rack at the front of the Lunar Roving Vehicle (as illustrated here), or hand-carried by a crewman. The LCRU acts as a portable relay station for voice, TV and telemetry directly between the crew and Mission Control Center instead of through the Lunar Module communications system. The LCRU measures 22 x 16 x 6 inches not including antennas, and weighs 55 Earth pounds (9.2 Moon pounds). It is completely self-contained with its own power supply and folding S-Band antenna. In addition to providing communications relay, the LCRU relays ground-command signals to the Ground Commanded Television Assembly for remote aiming and focusing the lunar surface color television camera.

Project Apollo 15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POWER
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DRIVE ENABLE

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Moon Buggy

ROVER INSTRUMENT PANEL -- This control setup will be used by Apollo 15 astronauts to guide the lunar roving vehicle (LRV) they will ride over the Moon's surface. Situated aloft is a camera to be operated by an astronaut while the vehicle is in motion.

RETURN TO CHRONICLE FILES
FRI SEP 3 '71

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NASA
S-71-43052

Moon Rocks

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12-19-74

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COLOR

AUG 1971 S-71-43052

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 LUNAR SAMPLE---A close-up view of a container full of green-colored lunar soil in the Non-Sterile Nitrogen Processing Line (NNPL) in the Lunar Receiving Laboratory (LRL) at the Manned Spacecraft Center (MSC). This sample, broken down into six separate samples after this photo was made, was made up of comprehensive fines from near Spur Crater on the Apennine Front. The numbers assigned to the sample include numbers 15300 through 15305. Astronauts David R. Scott and James B. Irwin took the sample during their second extravehicular activity (EVA) at a Ground Elapsed Time (GET) of 146:05 to 146:06.

NASA
S-71-43050

Moon Rocks

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12-14-71
CHRONICLE FILES

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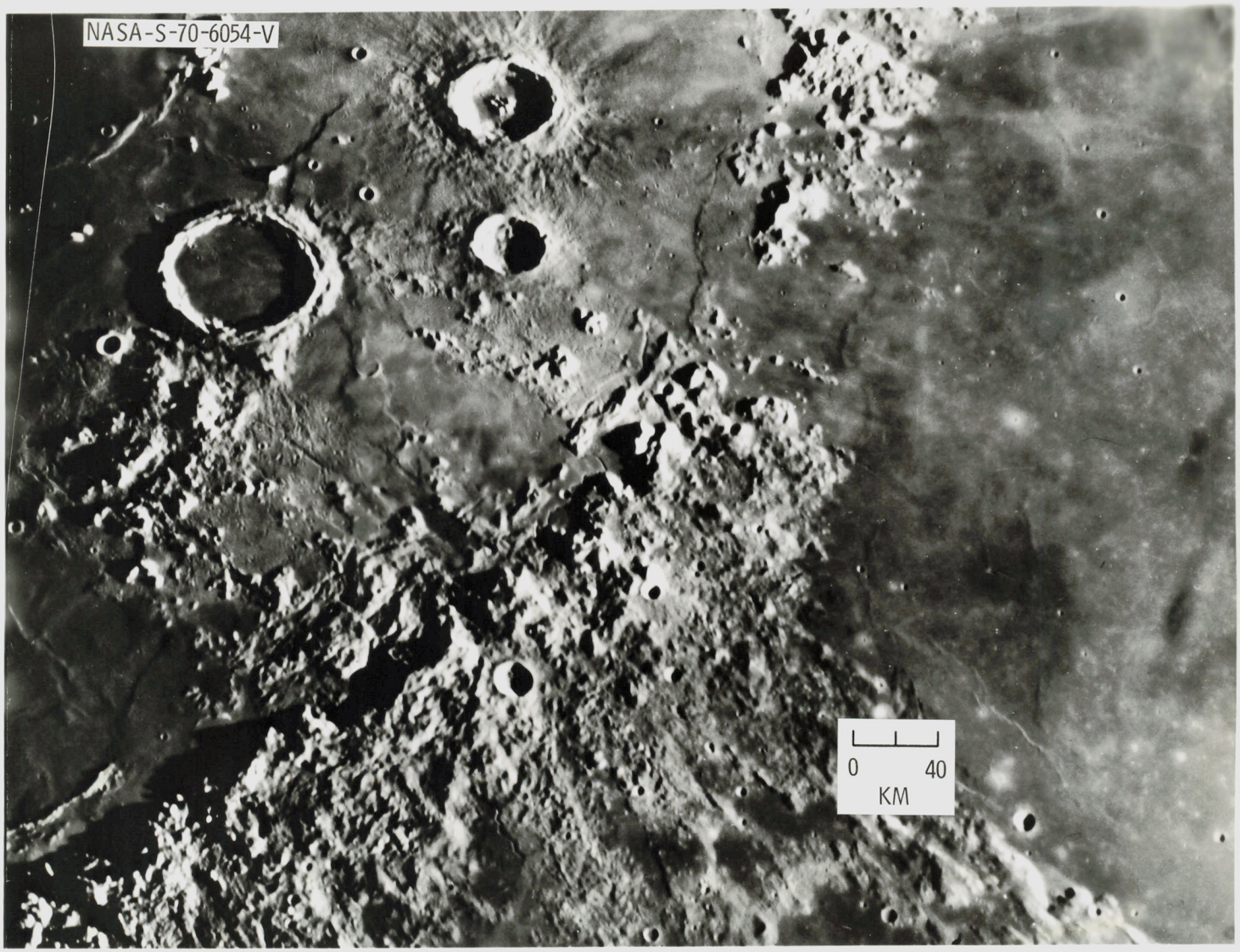
COLOR

AUG 1971 S-71-43050

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 LUNAR SAMPLE---A close-up view of lunar sample No. 15305 in the Non-Sterile Nitrogen Processing Line (NNPL) in the Lunar Receiving Laboratory (LRL) at the Manned Spacecraft Center (MSC). This sample, pictured on a small spatula in a lab technician's glove, is green and is one of six recently taken from container No. 173, made up of comprehensive fines from the Apennine Front, Site No. 7. Astronauts David R. Scott and James B. Irwin took the sample during their second extravehicular activity (EVA), at a Ground Elapsed Time (GET) of 146:05 to 146:06.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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

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B & W

1970

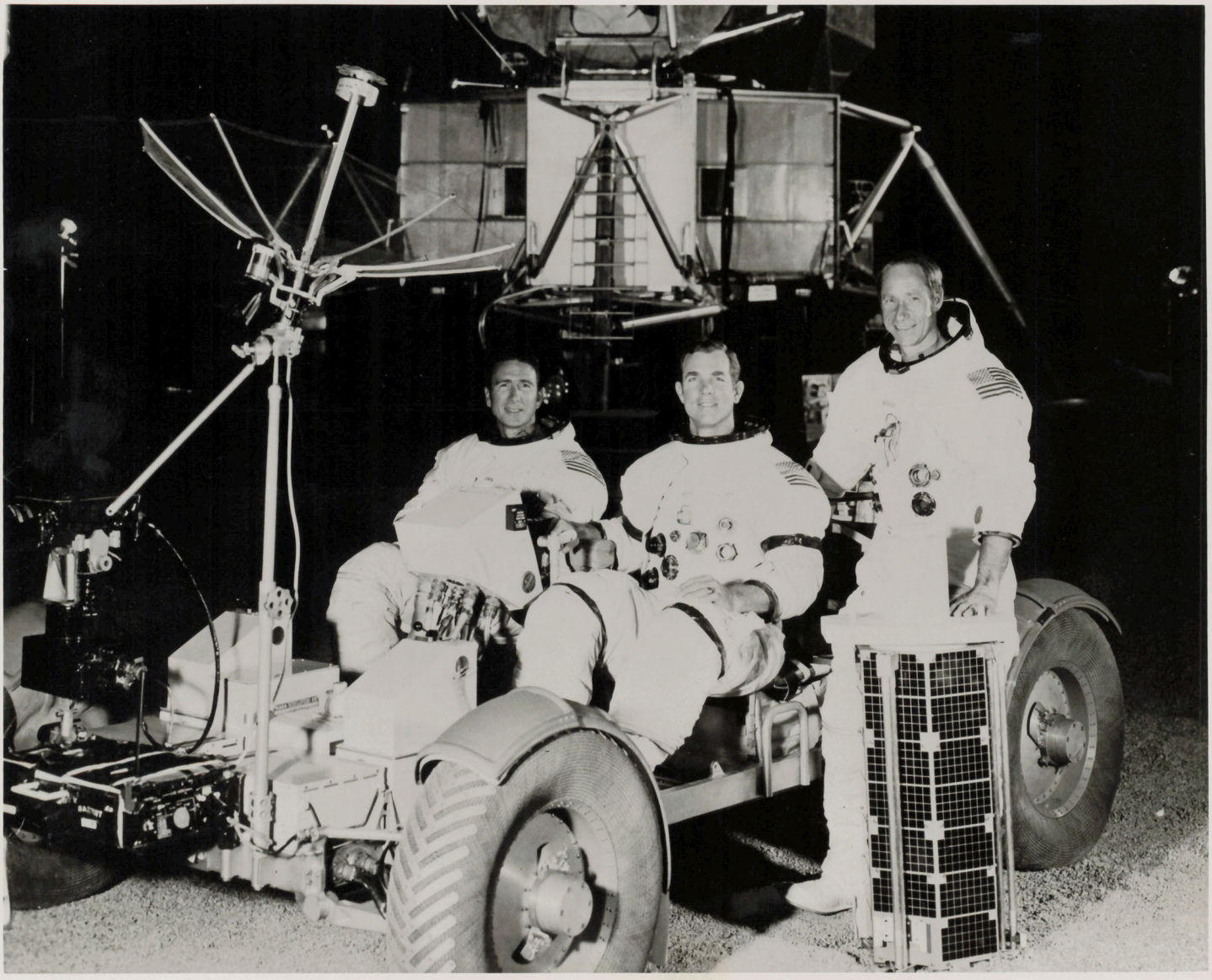
S-70-6054-V

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 HADLEY-APENNINE LANDING AREA---A telescope made photograph showing the Hadley-Apennine landing area. Specifically, the region in which the Apollo 15 Lunar Module is to land is near the exact center of the picture, near the most readily visible portion (that part which appears about the size of an eyelash) of Hadley Rille. The rille is approximately 70 miles long, and it is about 1200 feet deep at the Apollo 15 site. The landing site is located at 3 degrees 39 minutes 30 seconds east longitude and 26 degrees 4 minutes 54 seconds north latitude--about 465 miles north of the lunar equator, on the edge of the Sea of Rains (or more specifically on the Marsh of Decay). The Sea of Serenity's western edge can be seen in the right portion of this photo. The three largest craters on the left side of the picture are Aristillus, Archimedes and Autolycus. Northward across the mare area above the Apennine Mountains is the southern region of the Caucasus Mountains.

RETURN TO
CHRONICLE FILES

Project Apollo 15



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WASHINGTON, D.C. 20546

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PRIME CREW - Commander Dave Scott, center, lunar module pilot Jim Irwin, left, and command module pilot Al Worden, right, are shown with their Apollo 15 Equipment. Scott and Neil Armstrong during the Gemini 8 mission performed the first successful docking of two vehicles in space. Scott was the command module pilot on Apollo 9 in 1969, the third manned flight in the Apollo series and backup commander for Apollo 12. Jim Irwin served as backup crew member for the Apollo 12 flight. Al Worden served as the backup command module pilot for Apollo 12. The crew has undergone intensive training during the past few months and have had tutorial sessions with many of the nation's leading lunar scientists.

99

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NASA
AS15-82-11057

NASA- APOLLO 15

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AUG 11 1971
HOUSTON POST

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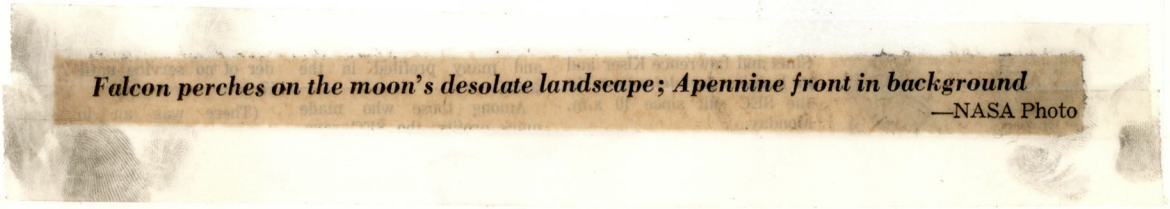

Falcon perches on the moon's desolate landscape; Apennine front in background
—NASA Photo

NASA
S-70-53283

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
HOUSTON, TEXAS 77058

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S-70-53283

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NASA - Lunar roving vehicle

COLOR

2-3 NOV 1970

S-70-53283

CINDER LAKE CRATER FIELD, ARIZONA

APOLLO 15 TRAINING---Two Apollo 15 crewmen, riding a lunar roving vehicle simulator, participate in geology training at the Cinder Lake crater field in Arizona. Astronaut David R. Scott, Apollo 15 commander, is in the left-hand seat; and to Scott's right is Astronaut James B. Irwin, lunar module pilot. They have stopped at the rim of a 30-foot crater to look over the terrain. The simulator, called "Grover," was built by the U. S. Geological Survey.

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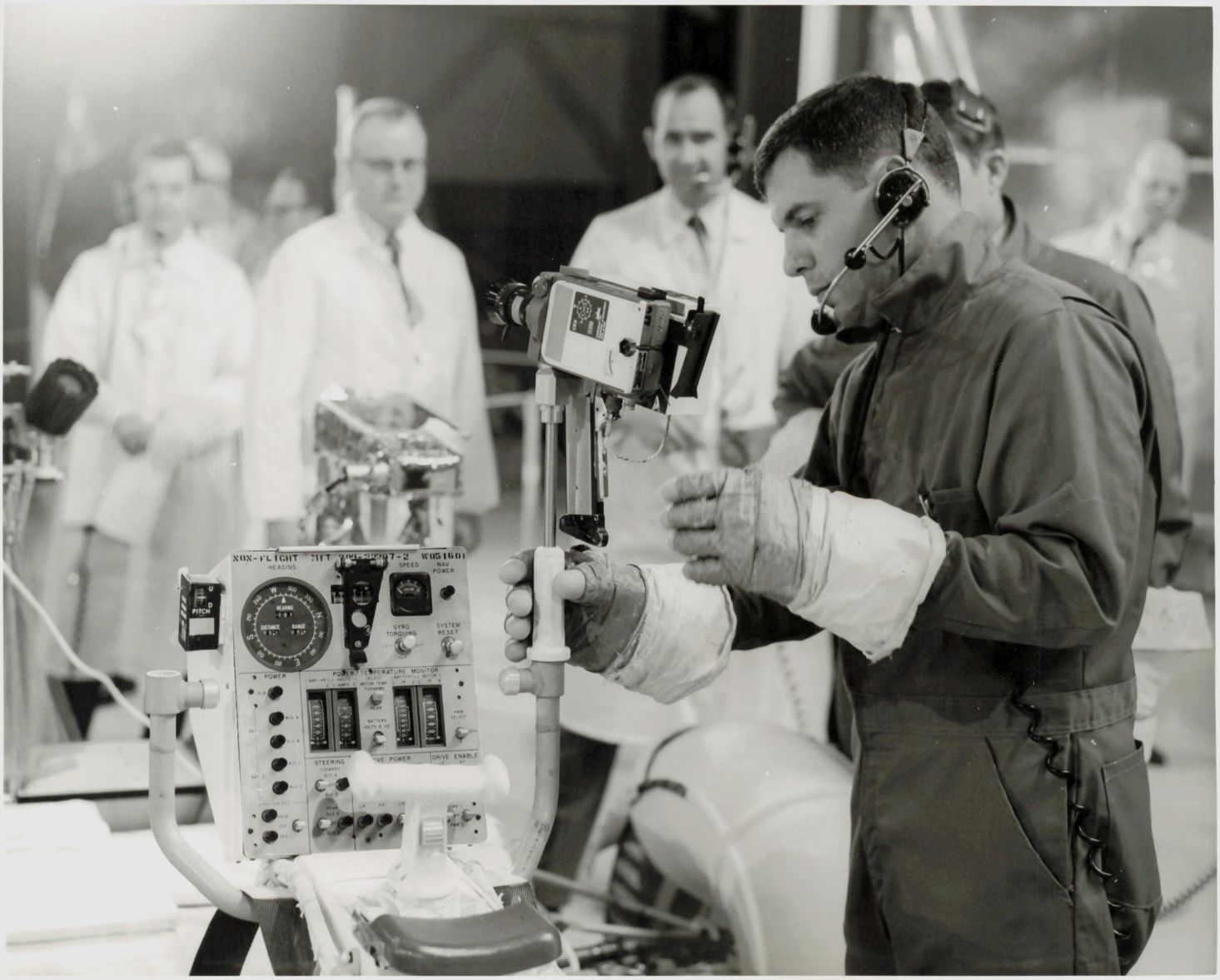
OCT 30 1971
HOUSTON POST


NON-FLIGHT
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NASA – Apollo 15

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ROVER INSTRUMENT PANEL -- This control setup will be used by Apollo 15 astronauts to guide the lunar roving vehicle (LRV) they will ride over the Moon's surface. Situated aloft is a camera to be operated by an astronaut while the vehicle is in motion.

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FOR RELEASE: Filed: November 20, 1970
PHOTO NO. 70-H-1500
70-HC-1077

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CINDER LAKE CRATER FIELD, ARIZONA--APOLLO 15 TRAINING--Two Apollo 15 crewmen, riding a lunar roving vehicle simulator, participate in geology training at the Cinder Lake crater field in Arizona. Astronaut David R. Scott, Apollo 15 commander, is in the left-hand seat; and to Scott's right is Astronaut James B. Irwin, lunar module pilot. They have stopped at the rim of a 30-foot crater to look over the terrain. The simulator, called "Grover," was built by the U. S. Geological Survey.

A76502 - Apollo 15

REFERENCE
DEC 7 '70
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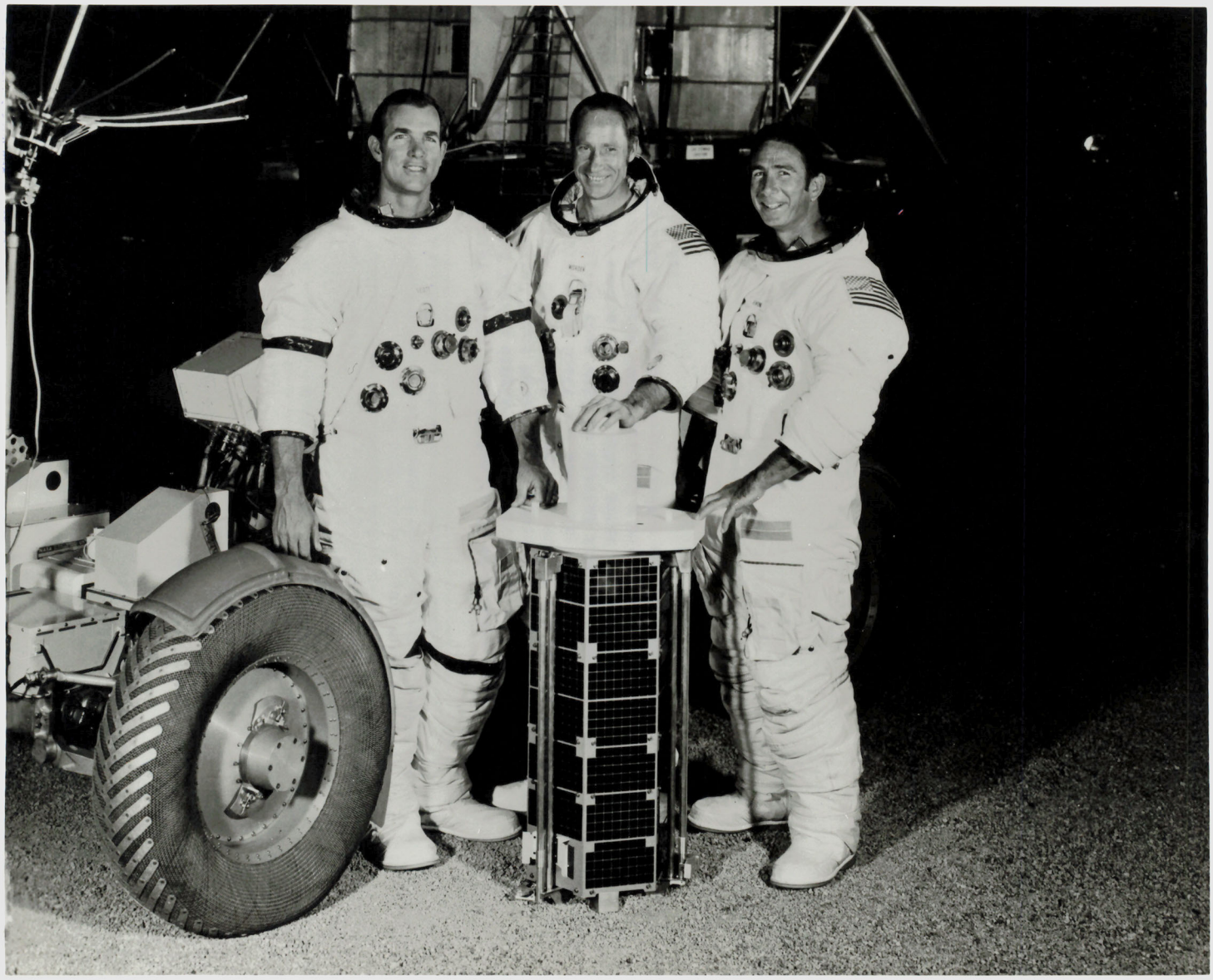

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FOR RELEASE: March 18, 1971

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71-HC-85

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MANNED SPACECRAFT CENTER, TEXAS--Apollo 15 Astronauts James Irwin, David Scott and Alfred Worden displays the Lunar Rover and the sub-satellite. The battery-powered Lunar Rover is equipped with a television camera which will be used when the vehicle is parked, and it can be controlled from the ground while Astronauts Scott and Irwin explore the Moon. The sub-satellite is a small satellite that will be ejected from the Service Module early in the mission and remain in lunar orbit after the astronauts return to Earth. It will contain particle detectors and a magnetometer, thus providing data to correlate with the surface magnetometer and particle detectors and a S-band transponder.

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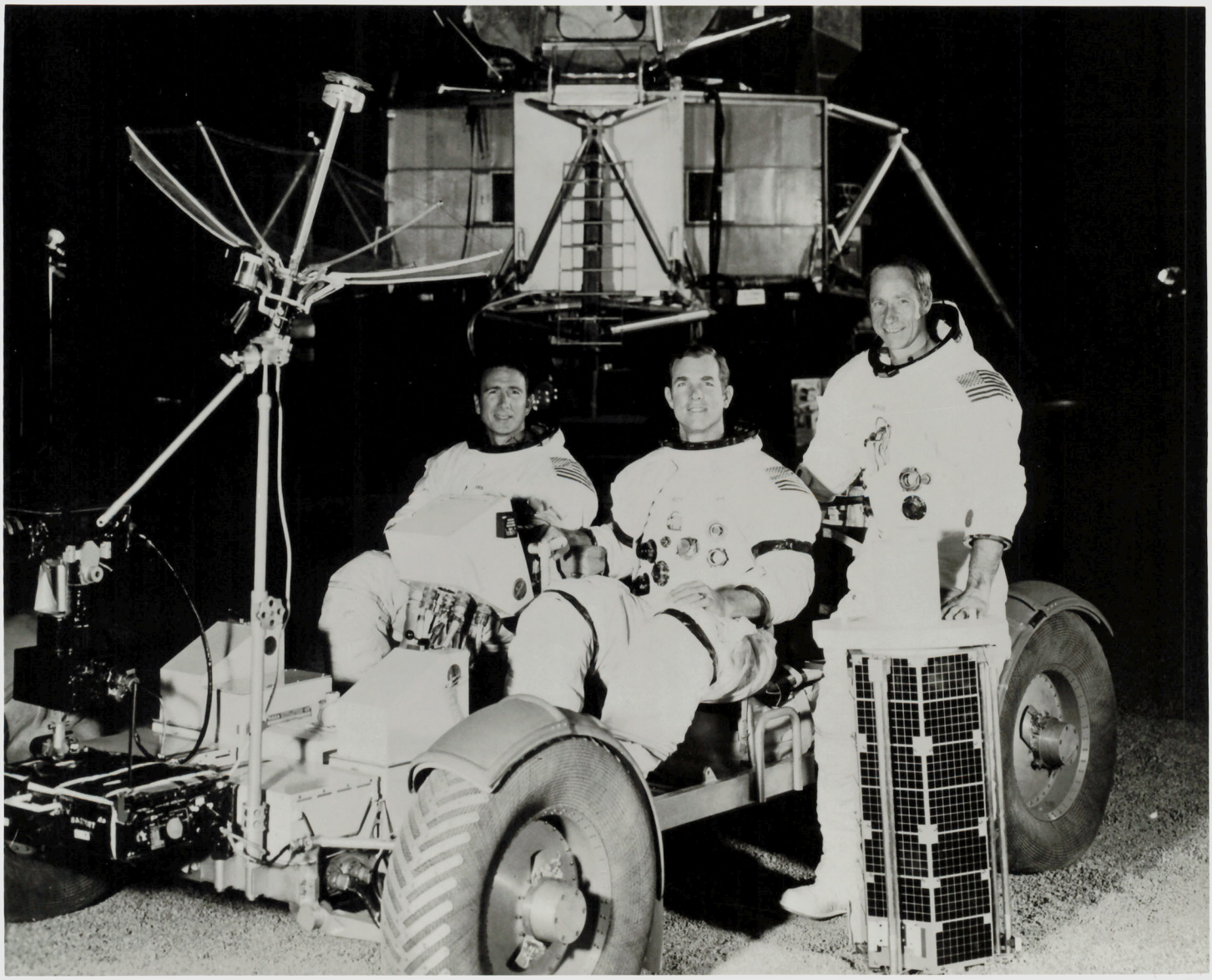

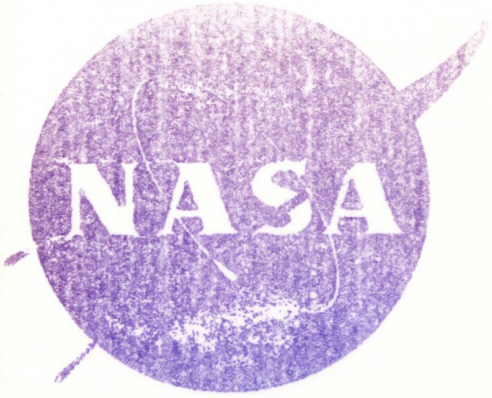

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PRIME CREW - Commander Dave Scott, center, lunar module pilot Jim Irwin, left, and command module pilot Al Worden, right, are shown with their Apollo 15 Equipment. Scott and Neil Armstrong during the Gemini 8 mission performed the first successful docking of two vehicles in space. Scott was the command module pilot on Apollo 9 in 1969, the third manned flight in the Apollo series and backup commander for Apollo 12. Jim Irwin served as backup crew member for the Apollo 12 flight. Al Worden served as the backup command module pilot for Apollo 12. The crew has undergone intensive training during the past few months and have had tutorial sessions with many of the nation's leading lunar scientists.

3 astros

JUL 28 1971

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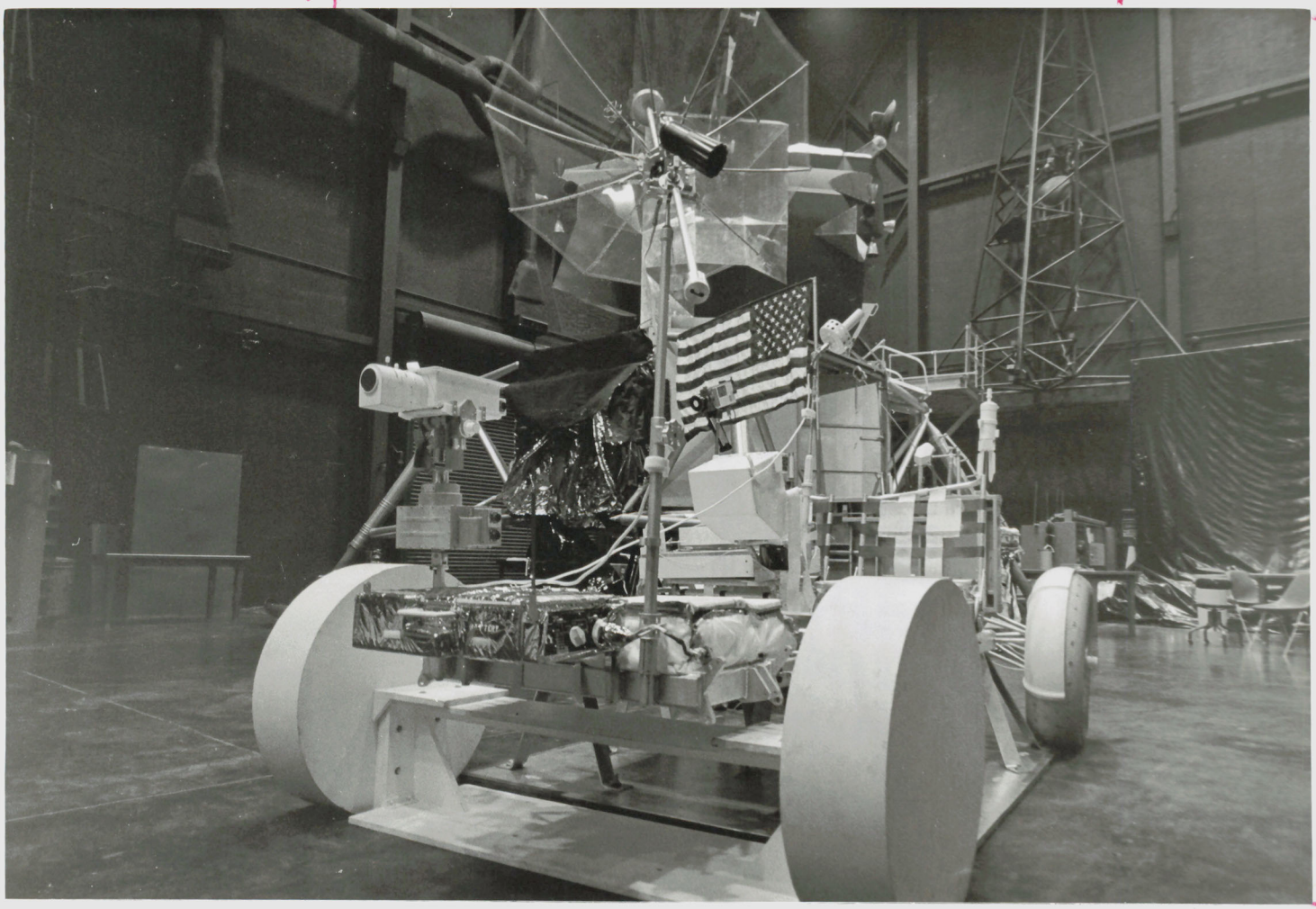
NASA
S-70-54107



NASA — Apollo 15

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B & W

18 NOV 1970

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

LUNAR ROVING VEHICLE--A rear view of the lunar roving vehicle (LRV) in the Mission Simulation and Training Facility at the Manned Spacecraft Center. The lunar rover will be used for the first time on the Apollo 15 lunar landing mission. It will be equipped to provide transportation and cargo-carrying services as well as other services for two moon-exploring astronauts. The erectable S-band antenna is seen mounted in the foreground. In the background is a mockup of a lunar module. The LRV will require an extended LM for stowage.

NASA
S-70-53284

NASA - Apollo 15

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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COLOR

2-3 NOV 1970 S-70-53284

CINDER LAKE CRATER FIELD, ARIZONA

APOLLO 15 TRAINING-----Two Apollo 15 crewmen, riding a lunar roving vehicle simulator, participate in geology training at the Cinder Lake crater field in Arizona. Astronaut David R. Scott, Apollo 15 commander, is seated in the background, and to Scott's right is Astronaut James B. Irwin, lunar module pilot. They have stopped at the rim of a 30-foot crater to look over the terrain. The simulator, called "Grover," was built by the U. S. Geological Survey.

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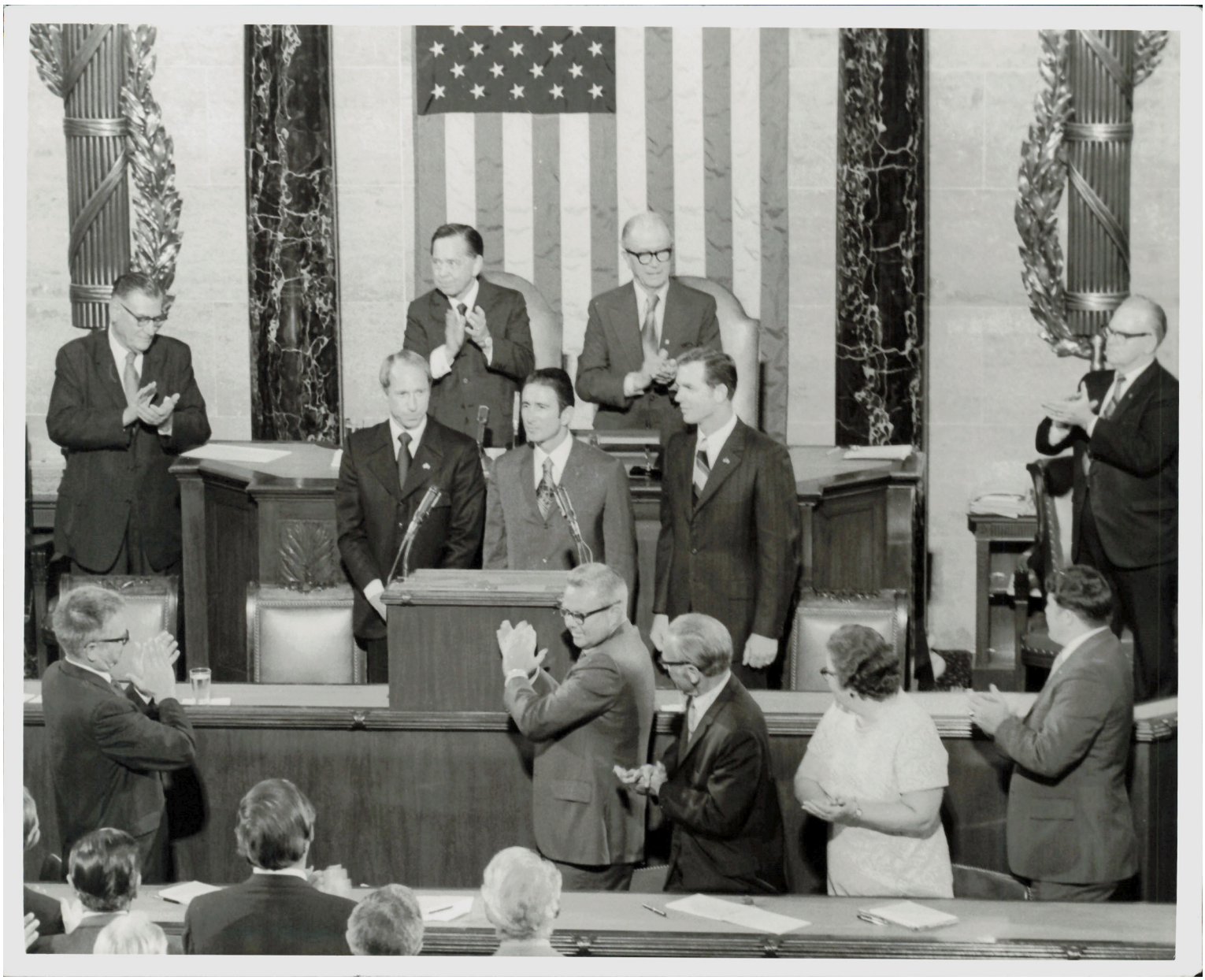

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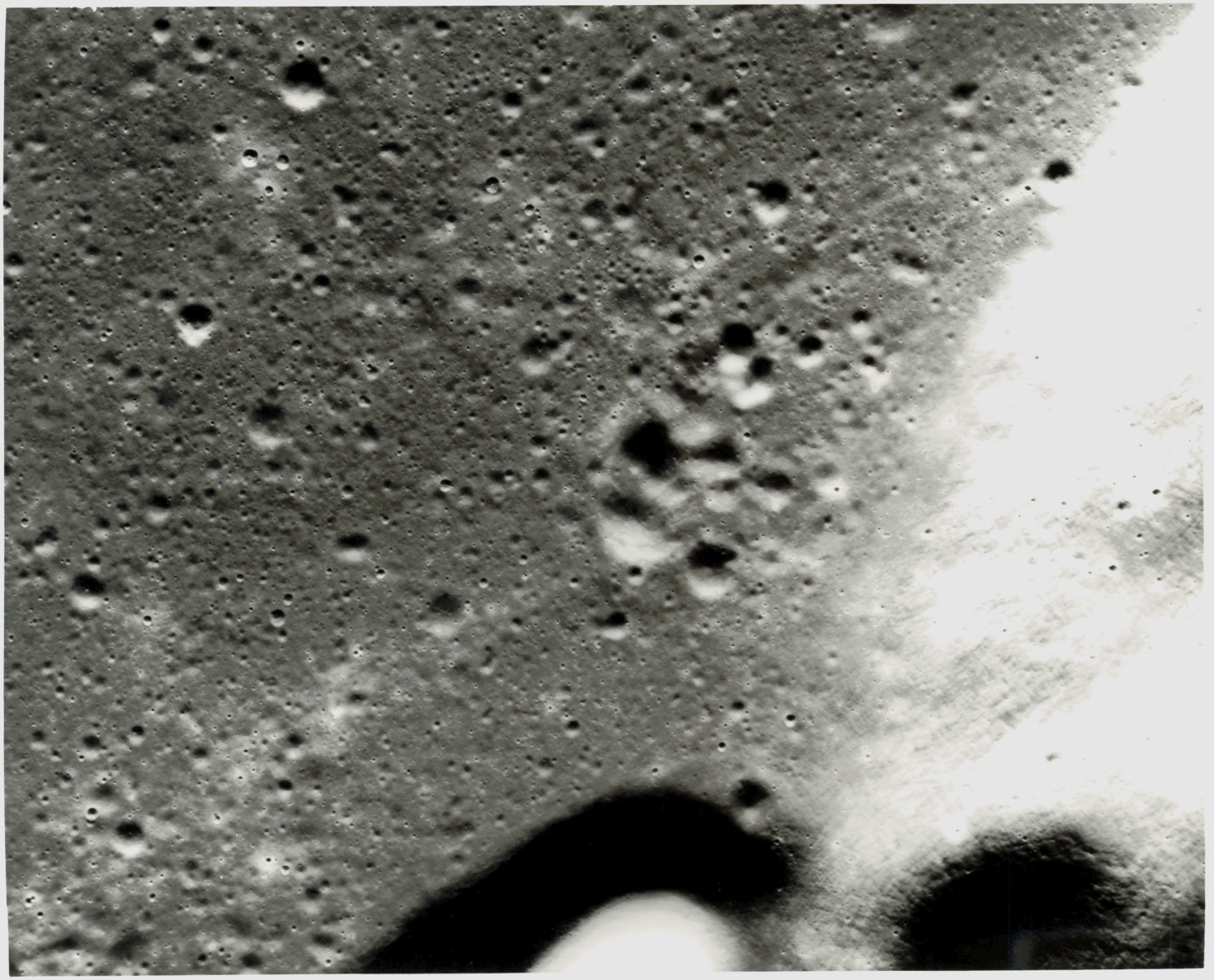
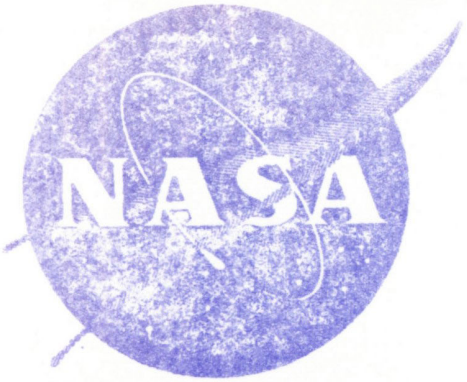
The three Apollo 15 astronauts receive ovation at joint session of Congress. The Apollo 15 astronauts, David R. Scott, Commander, Alfred M. Worden, Jr. Command Module Pilot and James B. Irwin, Lunar Module Pilot, addressed a joint session of Congress on Sept. 9, 1971.

34





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MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 PAN CAMERA VIEW -- An enlarged, vertical view of the Apollo 15 Hadley-Apennine landing site, made from a photograph taken by the Itek optical panoramic camera in the SIM bay of the Apollo 15 spacecraft Service Module in lunar orbit. HOLD PICTURE WITH HADLEY RILLE AT LEFT CENTER EDGE. The South Cluster is near center of picture. St. George Crater, Hadley Delta Mountain and the Apennine Front are at the bottom (southern) portion of the picture. The Lunar Module "Falcon" touchdown point is just to the northwest of the center of the picture. The Itek camera was one of eight lunar orbital science experiments mounted in the SIM bay. Frame 9430 was exposed during the CSM's 27th revolution of the Moon, and after the first Apollo 15 lunar surface extravehicular activity (EVA-1).

Enlarged view from Frame 9430 Itek panoramic camera.

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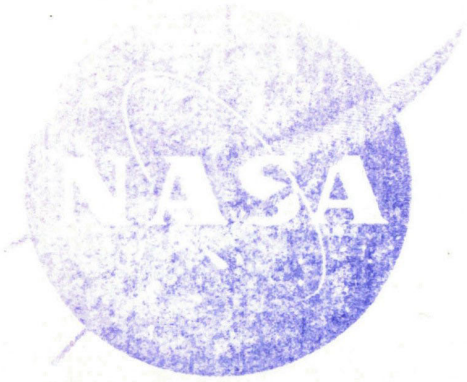
IN GOD WE TRUST



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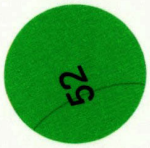
A standing ovation by members of Congress after David Scott finished addressing them. The Apollo 15 astronauts, David R. Scott, Commander, Alfred M. Worden, Jr. Command Module Pilot and James B. Irwin, Lunar Module Pilot, addressed a joint session of Congress on Sept. 9, 1971.



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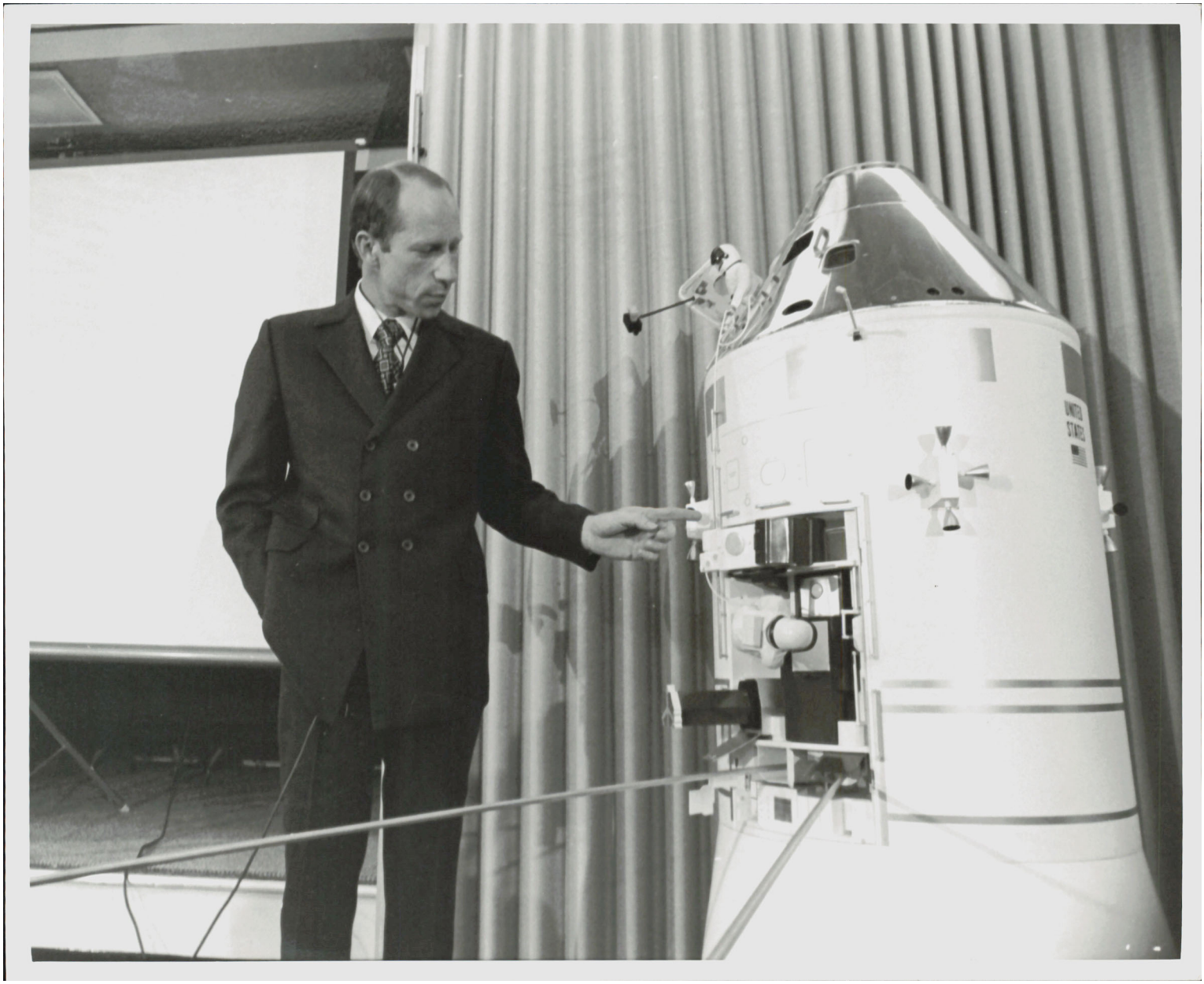

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WASHINGTON, D.C. -- Astronaut Alfred M. Worden, command module pilot for the Apollo 15 lunar landing mission, at a press conference at National Aeronautics and Space Administration headquarters demonstrates a scale model of the Scientific Instrument Module (SIM) to be flown for the first time on the Apollo 15 mission. Mounted in a hitherto vacant sector of the Apollo service module, the SIM carries specialized cameras and instrumentation for gathering lunar orbit scientific data. SIM equipment includes a laser altimeter for accurate measurement of height above the lunar surface; a large-format panoramic camera for mapping, correlated with a metric camera and the laser altimeter for surface mapping; a gamma ray spectrometer on a 25-foot extendable boom; a mass spectrometer on a 21-foot extendable boom; X-ray and alpha particle spectrometers; and a subsatellite which will be injected into lunar orbit carrying a particle detector and magnetometer, and a S-Band transponder. The satellite's instruments will be powered by solar cells and will allow orbital tracking from Earth for up to a year, and the subsatellite's magnetometer readouts will be correlated with the magnetometer left on the surface by the Apollo 15 crew. Film return cassettes from the two cameras will be retrieved from the SIM by a crewman going extravehicular through the command module hatch back to the access panels for removing the film cassettes.

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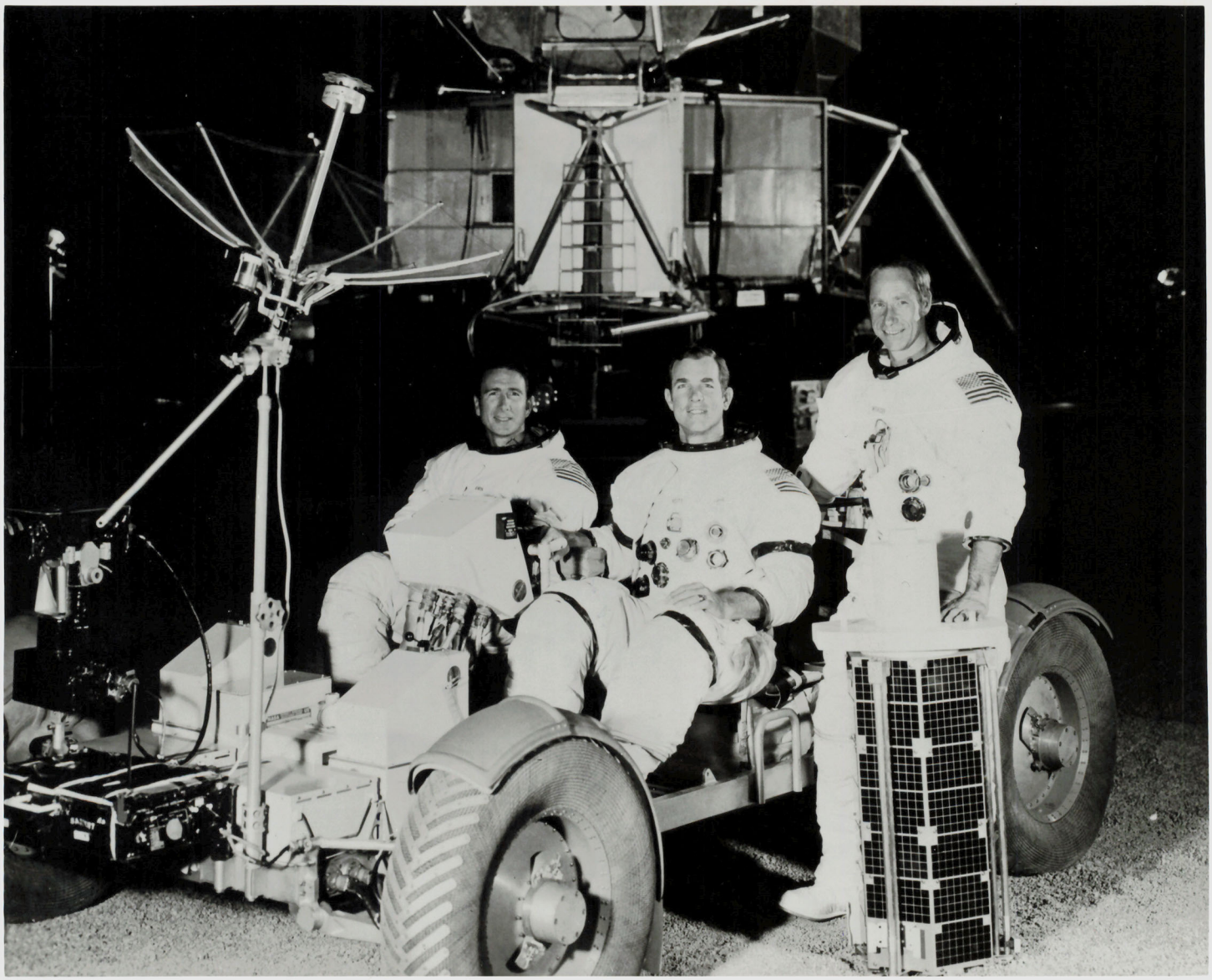

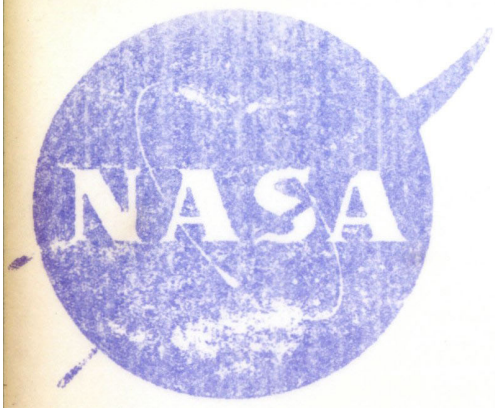

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PRIME CREW - Commander Dave Scott, center, lunar module pilot Jim Irwin, left, and command module pilot Al Worden, right, are shown with their Apollo 15 Equipment. Scott and Neil Armstrong during the Gemini 8 mission performed the first successful docking of two vehicles in space. Scott was the command module pilot on Apollo 9 in 1969, the third manned flight in the Apollo series and backup commander for Apollo 12. Jim Irwin served as backup crew member for the Apollo 12 flight. Al Worden served as the backup command module pilot for Apollo 12. The crew has undergone intensive training during the past few months and have had tutorial sessions with many of the nation's leading lunar scientists.

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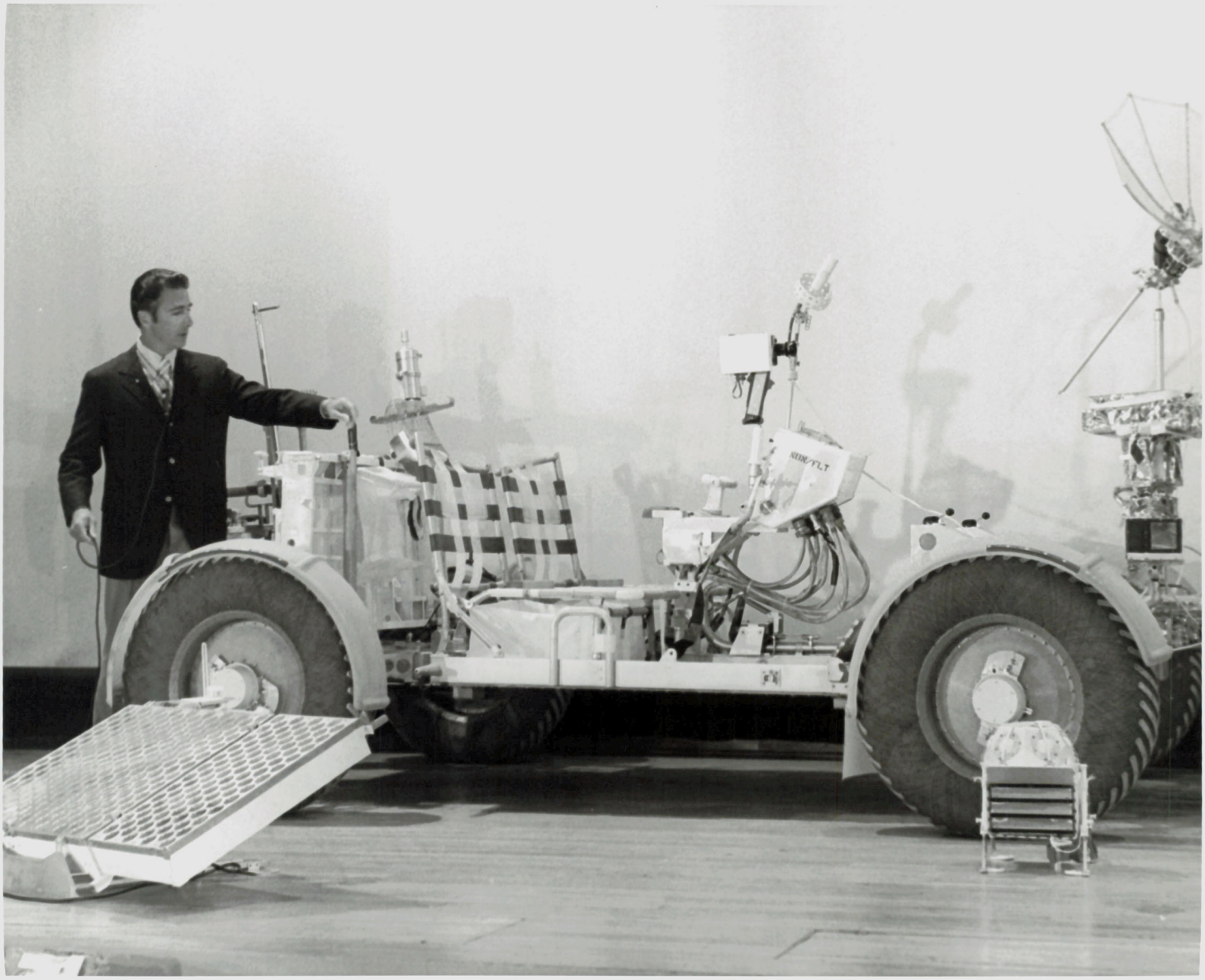

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KENNEDY SPACE CENTER, FLA.---James B. Irwin, lunar module pilot for the Apollo 15 mission explains the Lunar Rover Vehicle and the Apollo Lunar Samples Experiment Package during a press conference. Apollo 15 is the fourth lunar landing mission and the first to use the LRV to traverse the lunar surface.

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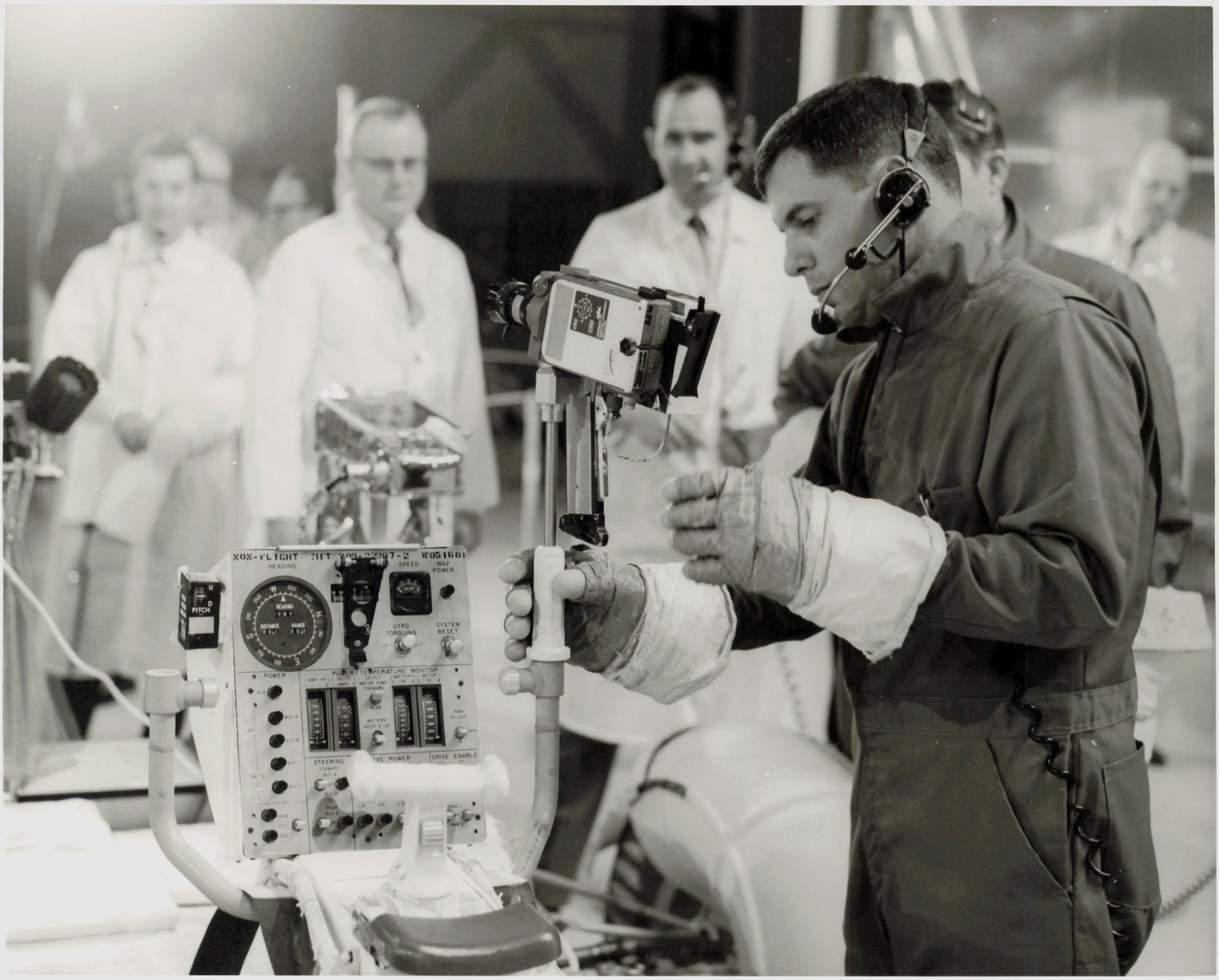
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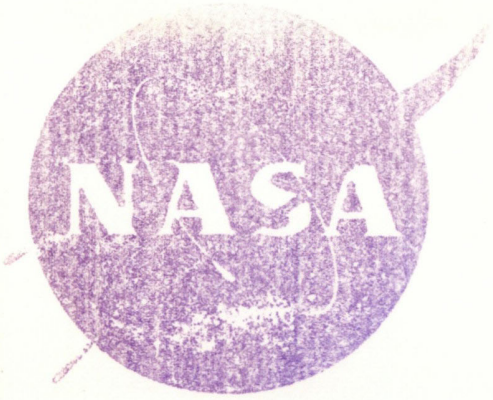

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ROVER INSTRUMENT PANEL -- This control setup will be used by Apollo 15 astronauts to guide the lunar roving vehicle (LRV) they will ride over the Moon's surface. Situated aloft is a camera to be operated by an astronaut while the vehicle is in motion.

equipment

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David Scott speaks to joint session of Congress. The Apollo 15 astronauts, David R. Scott, Commander, Alfred M. Worden, Jr. Command Module Pilot and James B. Irwin, Lunar Module Pilot, addressed a joint session of Congress on Sept. 9, 1971.

48

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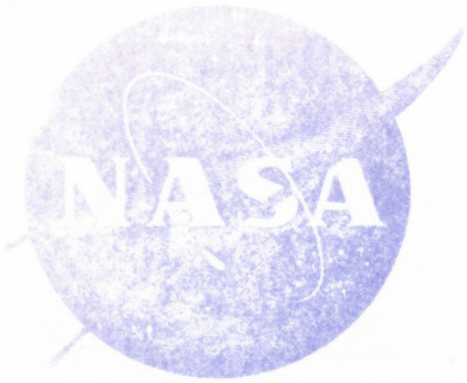

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James Irwin addresses members of Congress at a joint session at the U.S. Capital. The Apollo 15 astronauts, David R. Scott, Commander, Alfred M. Worden, Jr. Command Module Pilot and James B. Irwin, Lunar Module Pilot, addressed a joint session of Congress on Sept. 9, 1971.

43

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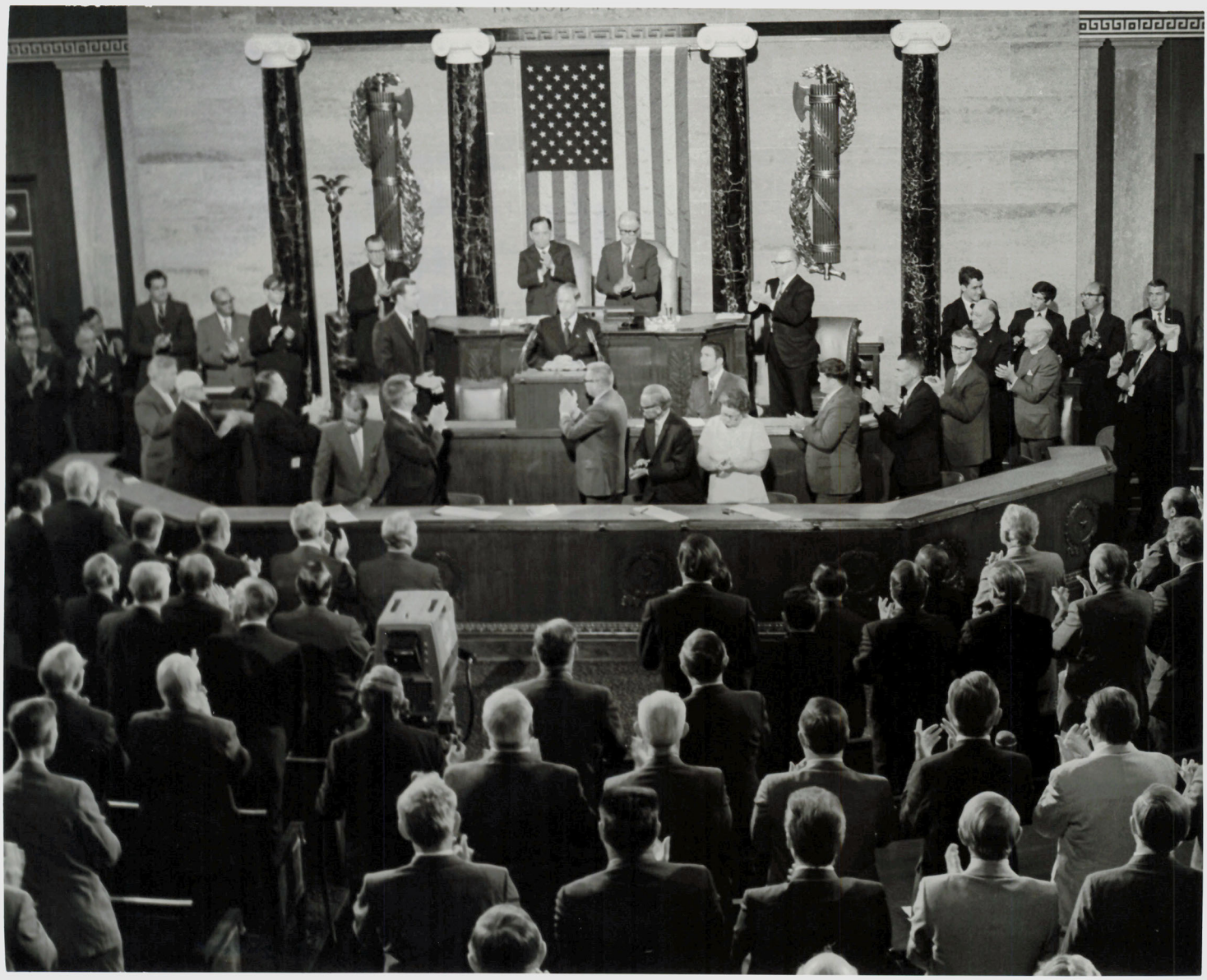

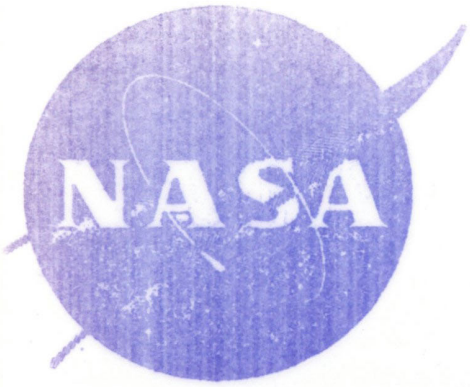

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Alfred Worden receives standing ovation after addressing joint session of Congress. The Apollo 15 astronauts, David R. Scott, Commander, Alfred M. Worden, Jr. Command Module Pilot and James B. Irwin, Lunar Module Pilot, addressed a joint session of Congress on Sept. 9, 1971.

41

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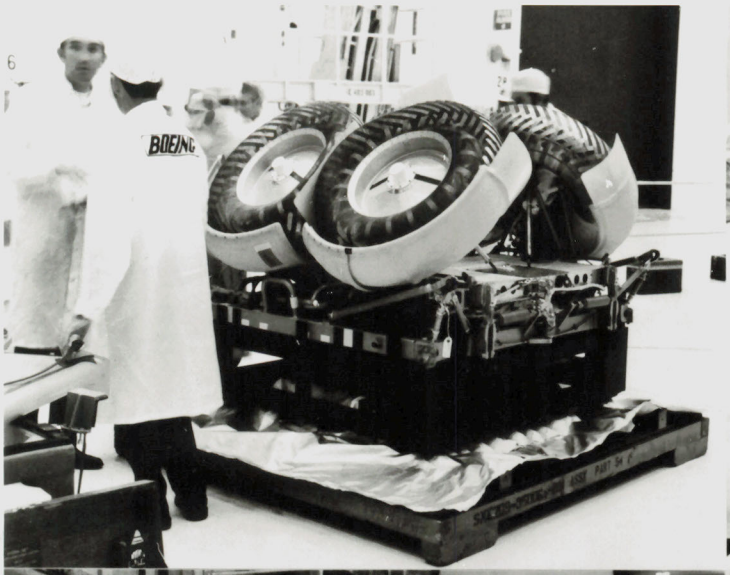
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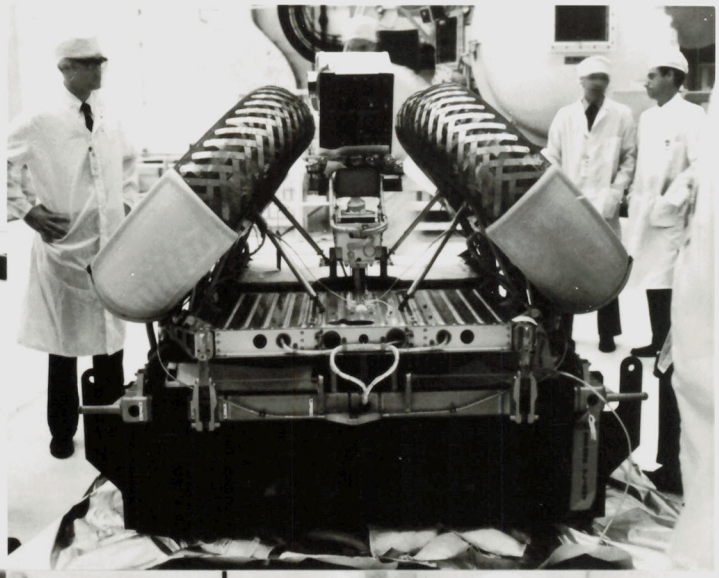

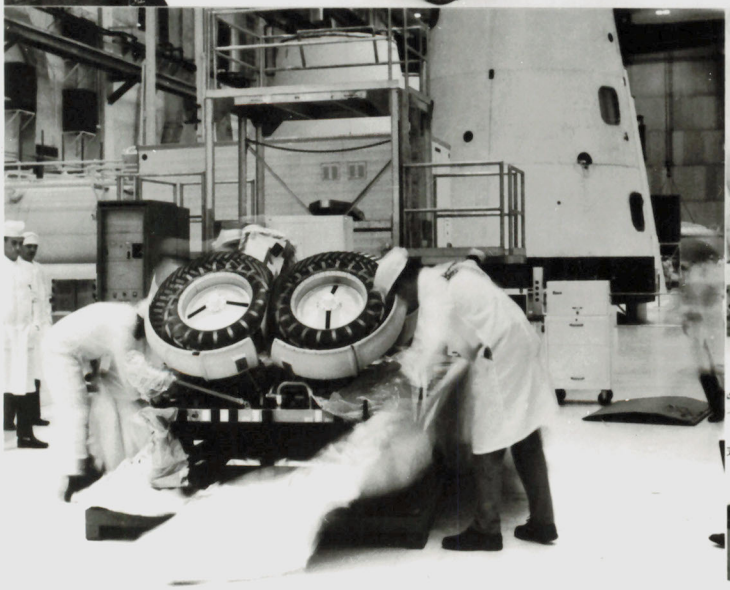

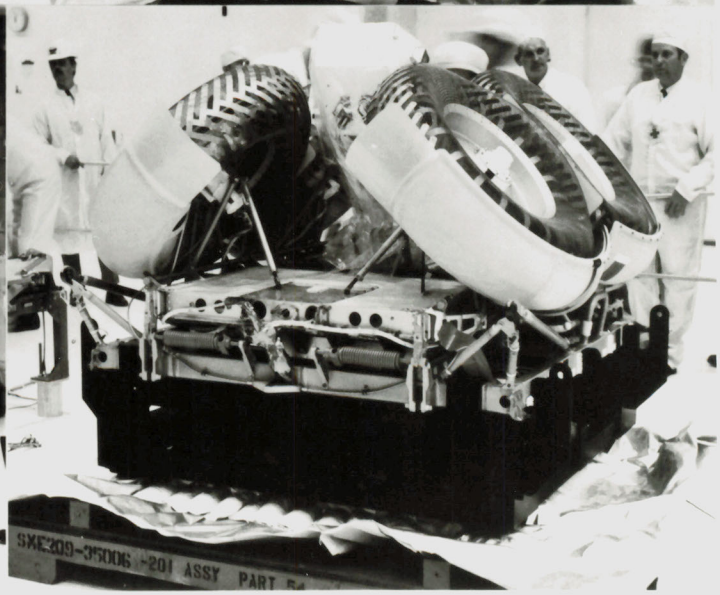
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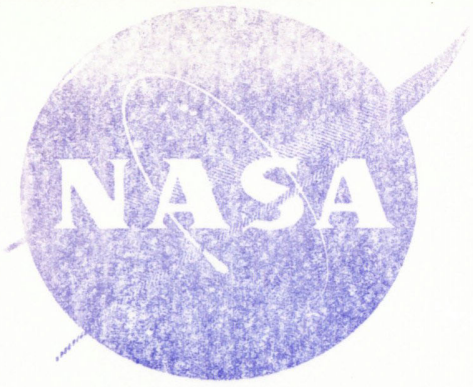

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KENNEDY SPACE CENTER, Fla.--The Lunar Roving Vehicle (LRV) designated for the Apollo 15 lunar landing mission is uncrated and inspected in a high bay of the Manned Spacecraft Operations Building at KSC. The wheels, folded as they will be when the LRV is installed on the lunar module, will be deployed to an operational position for systems tests. The LRV will transport Astronauts David Scott and James Irwin on three lunar traverses following launch on July 26.

38

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PRIME CREW OF NINTH MANNED APOLLO MISSION

DAVID R. SCOTT ALFRED M. WORDEN, JR. JAMES B. IRWIN

File: Apollo 15

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NINTH MANNED APOLLO CREW — The members of the Apollo 15 prime crew are, left to right, David R. Scott, Commander; Alfred M. Worden, Command Module Pilot; and James B. Irwin, Lunar Module Pilot. Apollo 15 is scheduled to be the National Aeronautics and Space Administration's fourth manned lunar landing.

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NASA
S-71-37963

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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COLOR (PORTRAIT)

JULY 1971 S-71-37963

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 15 CREW----These three astronauts are the prime crew of the Apollo 15 lunar landing mission. They are, left to right, David R. Scott, commander; Alfred M. Worden, command module pilot; and James B. Irwin, lunar module pilot. The Apollo 15 emblem is in the background.

30750

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PHOTO NO: 71-H-1196

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KENNEDY SPACE CENTER, Fla.--Apollo 15 Astronauts David R. Scott, Alfred M. Worden and James B. Irwin lifted off aboard an Apollo/Saturn V space vehicle from Complex 39A at 9:34 a.m. EDT, July 26, 1971. The 363-foot-high space vehicle generated 7 1/2 million pounds of thrust as it sent the astronauts on the first leg of their quarter-of-a-million-mile journey to the Moon. The 12-day mission, the nation's seventh manned lunar voyage, will continue the scientific exploration begun by previous crews to learn more about the early history of the Moon, the Earth and solar system. Worden will pilot the command module in lunar orbit, conduct scientific experiments and photograph lunar landmarks while Scott and Irwin remain on the surface 67 hours. Scott and Irwin will leave the lunar module three times and will drive a lunar roving vehicle in the Moon's Hadley-Apennine region. They will also deploy scientific experiments. They are scheduled to splash down in the Pacific Ocean at 4:46 p.m. EDT, August 7, approximately 330 miles north of Hawaii. The National Aeronautics and Space Administration directs the Apollo program.

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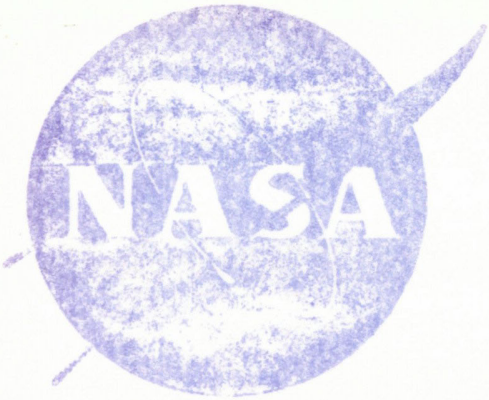

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FOR RELEASE: August 7, 1971

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ABOARD THE USS OKINAWA--Apollo 15 Mission Commander David R. Scott, left, salutes and requests permission for his astronaut crew to board the USS Okinawa after the helicopter, in rear, flew them from their spacecraft's splashdown point in the Pacific Ocean, 333 miles north of Hawaii. Scott, and Alfred M. Worden, center, and James B. Irwin, landed at 4:46 p.m. EDT, August 7, 1971, 12 days after being launched on the Nation's seventh manned voyage to the Moon. The National Aeronautics and Space Administration directs the Apollo program.

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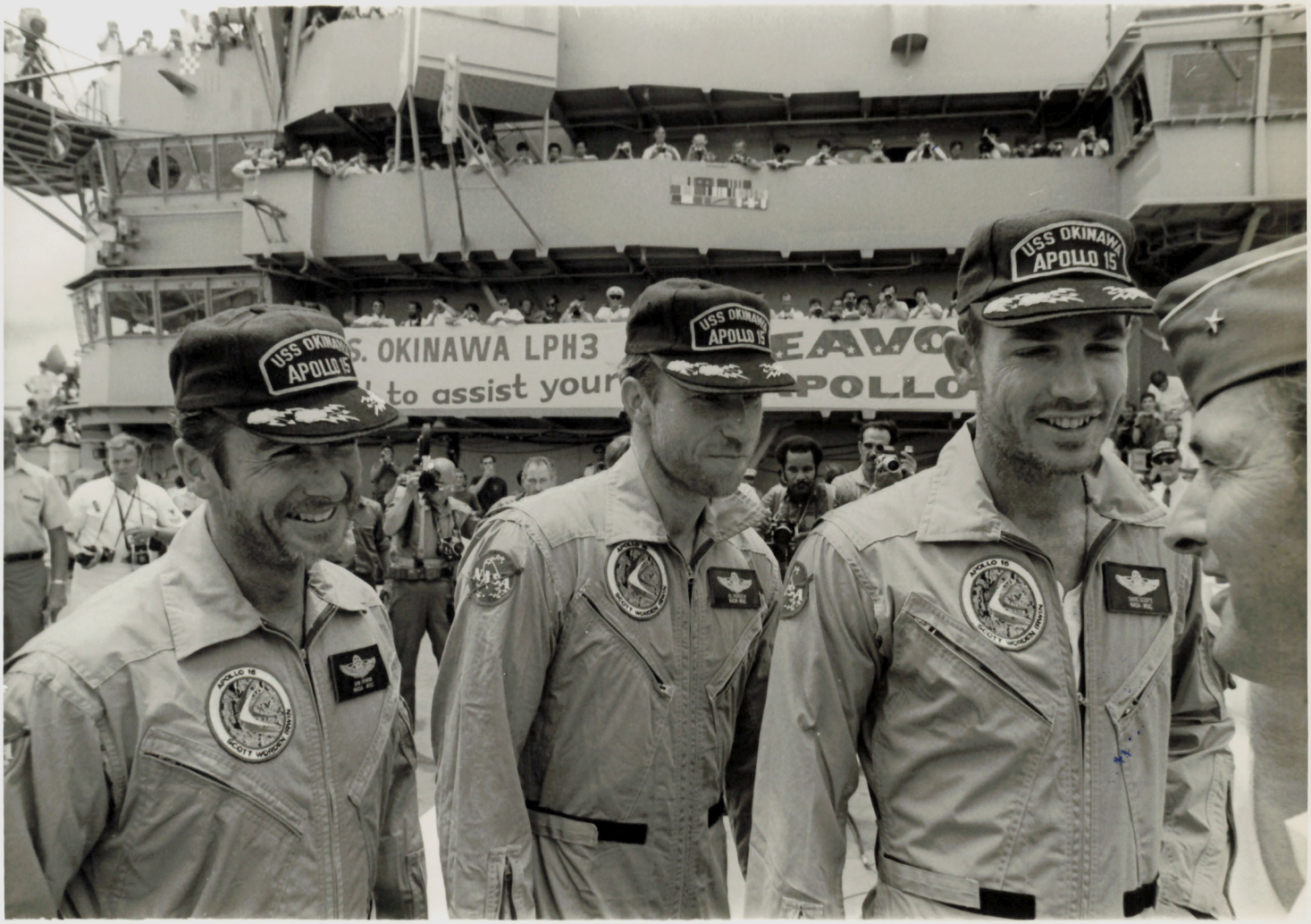
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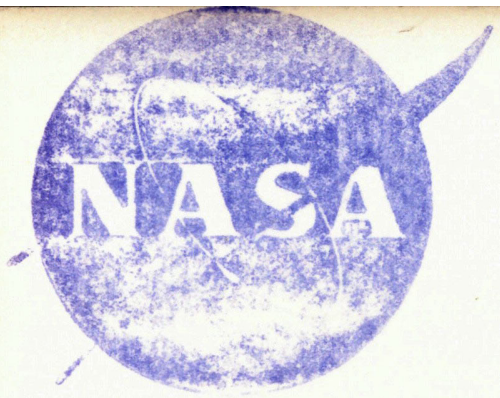

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ABOARD THE USS OKINAWA--The Apollo 15 astronauts are welcomed aboard the USS Okinawa, prime recovery ship, following their splashdown in the Pacific Ocean at 4:46 p.m. EDT, August 7, 1971, 333 miles north of Hawaii at the completion of their 12-day lunar mission. The astronauts are, l-r, Lunar Module Pilot James B. Irwin, Command Module Pilot Alfred M. Worden and Mission Commander David R. Scott. With the space pilots is Brigadier General Frank K. Everest, Jr., Commander of the Aerospace Rescue and Recovery Service. The National Aeronautics and Space Administration directs the Apollo program.

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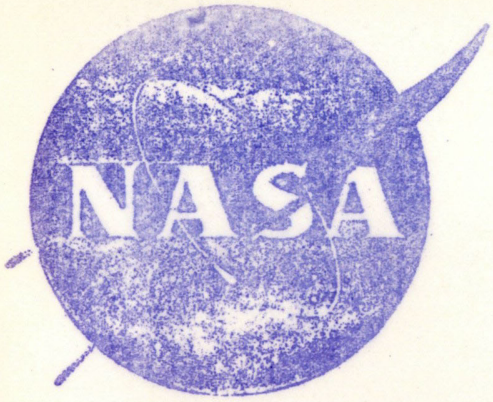

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ABOARD THE USS OKINAWA--The Apollo 15 astronauts l-r, David R. Scott, Alfred M. Worden and James B. Irwin, listen to welcoming ceremonies aboard the USS Okinawa following their splashdown in the Pacific Ocean today at the completion of their highly successful 12-day lunar mission. Their spacecraft splashed down 333 miles north of Hawaii, and 6 1/2 from the prime recovery vessel. At right is Rear Admiral Thomas B. Hayward, Commander, Task Force 130, and Commander, Manned Spacecraft Recovery Force, Pacific. The National Aeronautics and Space Administration directs the Apollo program.

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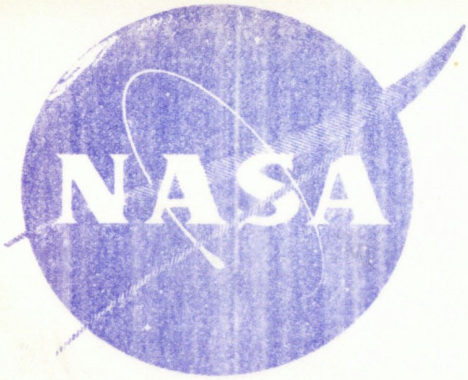

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KENNEDY SPACE CENTER, FLA.---Apollo 15 astronauts (L-R) James B. Irwin, lunar module pilot, and David R. Scott, commander sit in the Lunar Rover Vehicle during a press conference. Apollo 15 is the fourth lunar landing mission and the first to use the Lunar Roving Vehicle (shown with crew) to traverse the lunar surface.

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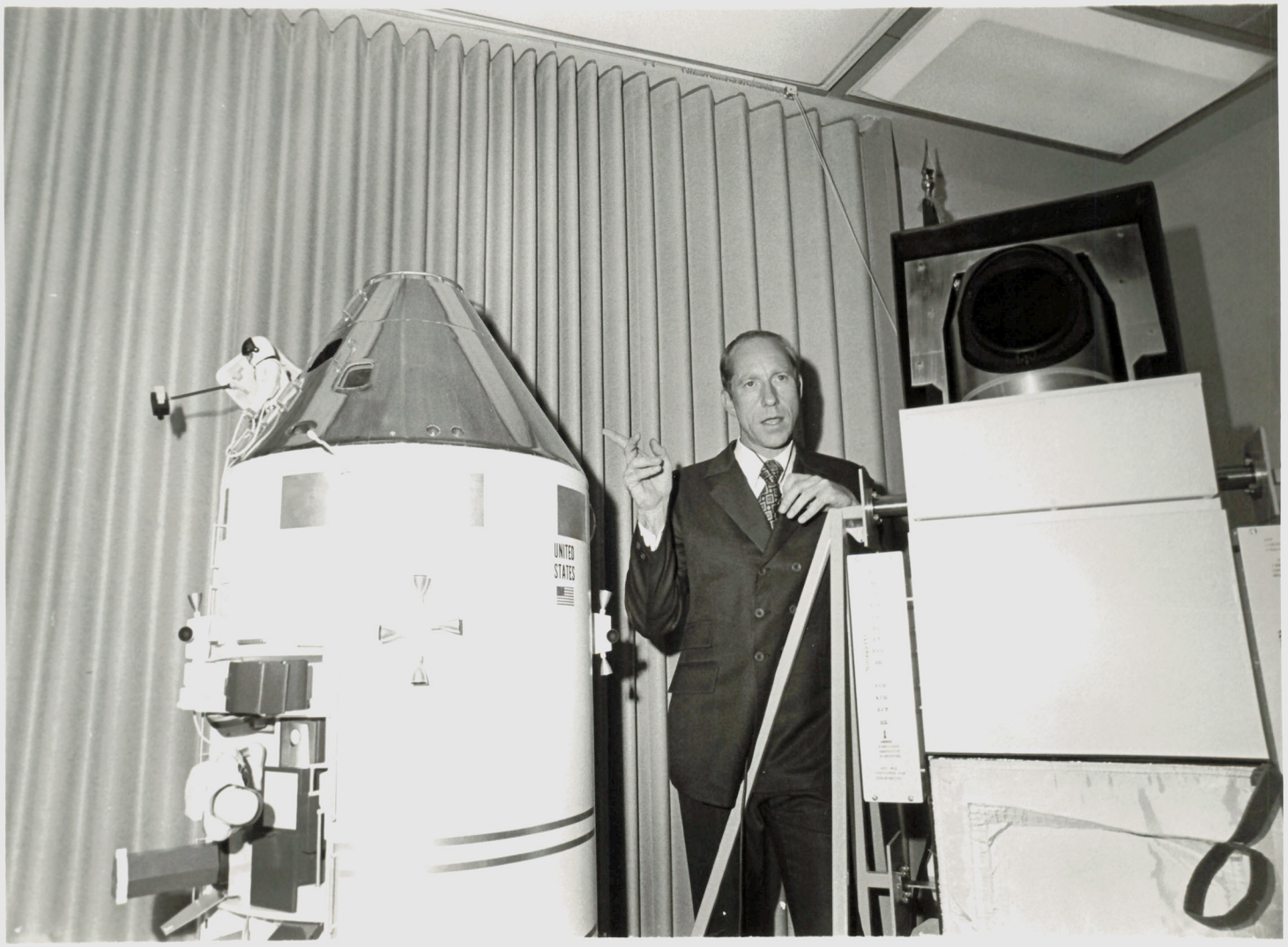
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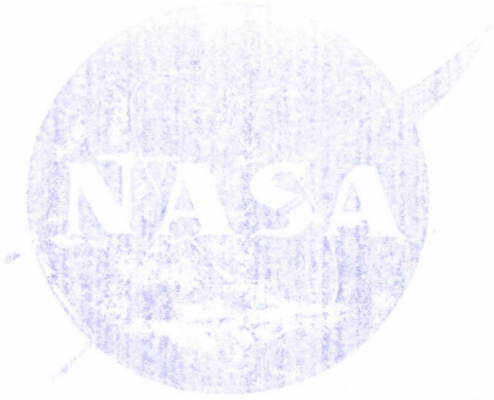
WASHINGTON, D.C. -- Astronaut Alfred M. Worden, command pilot for the Apollo 15 lunar landing mission, at a press conference at National Aeronautics and Space Administration headquarters, demonstrates scale models of the Scientific Instrument Module (SIM) and the panoramic camera to be used on the Apollo 15 mission.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration

APOLLO XVII
CERNAN EVANS SCHMITT



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72-HC-721

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Apollo XVII Mission Emblem designed by Robert T. McCall in collaboration with the Apollo crewmembers Eugene A. Cernan, Ronald E. Evans and Harrison H. Schmitt.

The image of Apollo the Greek God of the Sun was chosen as the dominant design element of the emblem - the particular image selected was the famous Apollo of Belvedere sculpture now in The Vatican Gallery in Rome. Suspended in space behind the head of Apollo is an American eagle of contemporary design, the red bars of the eagle's wing represent the bars in the American flag; the three white stars symbolize the three Astronauts, who comprise the crew of this Apollo mission. The background is deep blue space and within it are the moon, the planet Saturn and a spiral galaxy or nebula. The moon is partially overlaid by the eagle's wing suggesting that this is a celestial body that man has visited and in that sense conquered. The thrust of the eagle and the gaze of Apollo to the right and toward Saturn and the galaxy is meant to imply that man's goals in space will someday include the planets and perhaps even the stars. The colors of the emblem are red, white and blue, the colors of our flag; with the addition of gold, to symbolize the golden age of space flight that will begin with this Apollo XVII lunar landing.

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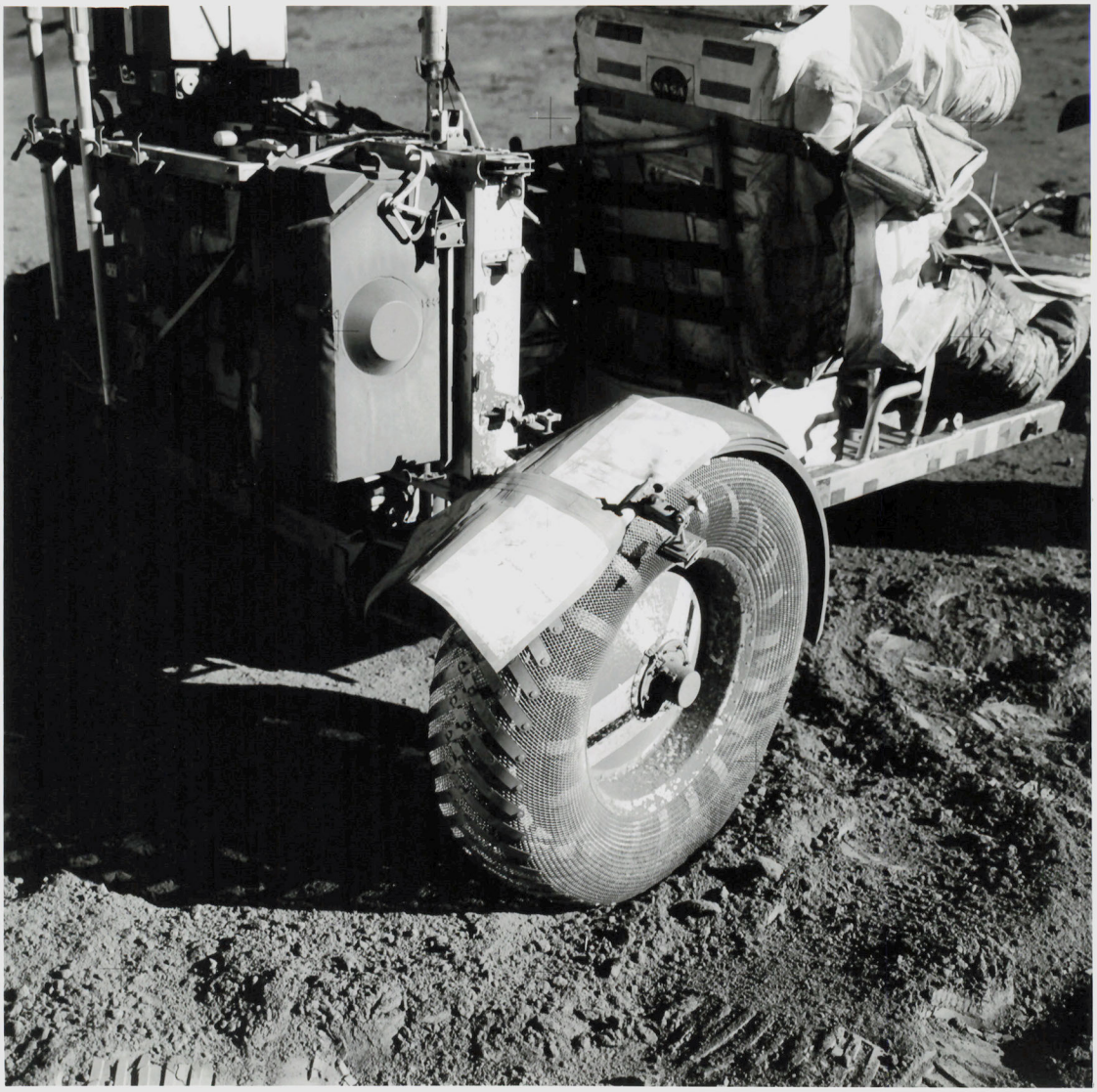

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12 DECEMBER 1972 AS17-137-20979

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 17 EVA PHOTO----A close-up view of the Lunar Roving Vehicle at the Taurus-Littrow landing site photographed during Apollo 17 lunar surface extravehicular activity. Note the makeshift repair arrangement on the right rear fender of the LRV. During EVA-1 a hammer got underneath the fender and a part of it was knocked off. Astronauts Eugene A. Cernan and Harrison H. Schmitt were reporting a problem with lunar dust because of the damaged fender. Following a suggestion from Astronaut John W. Young in the Mission Control Center at Houston the crewmen repaired the fender early in EVA-2 using lunar maps and clamps from the optical alignment telescope lamp. Schmitt is seated in the Rover. Cernan took this picture.

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

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Project Apollo 17

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B & W

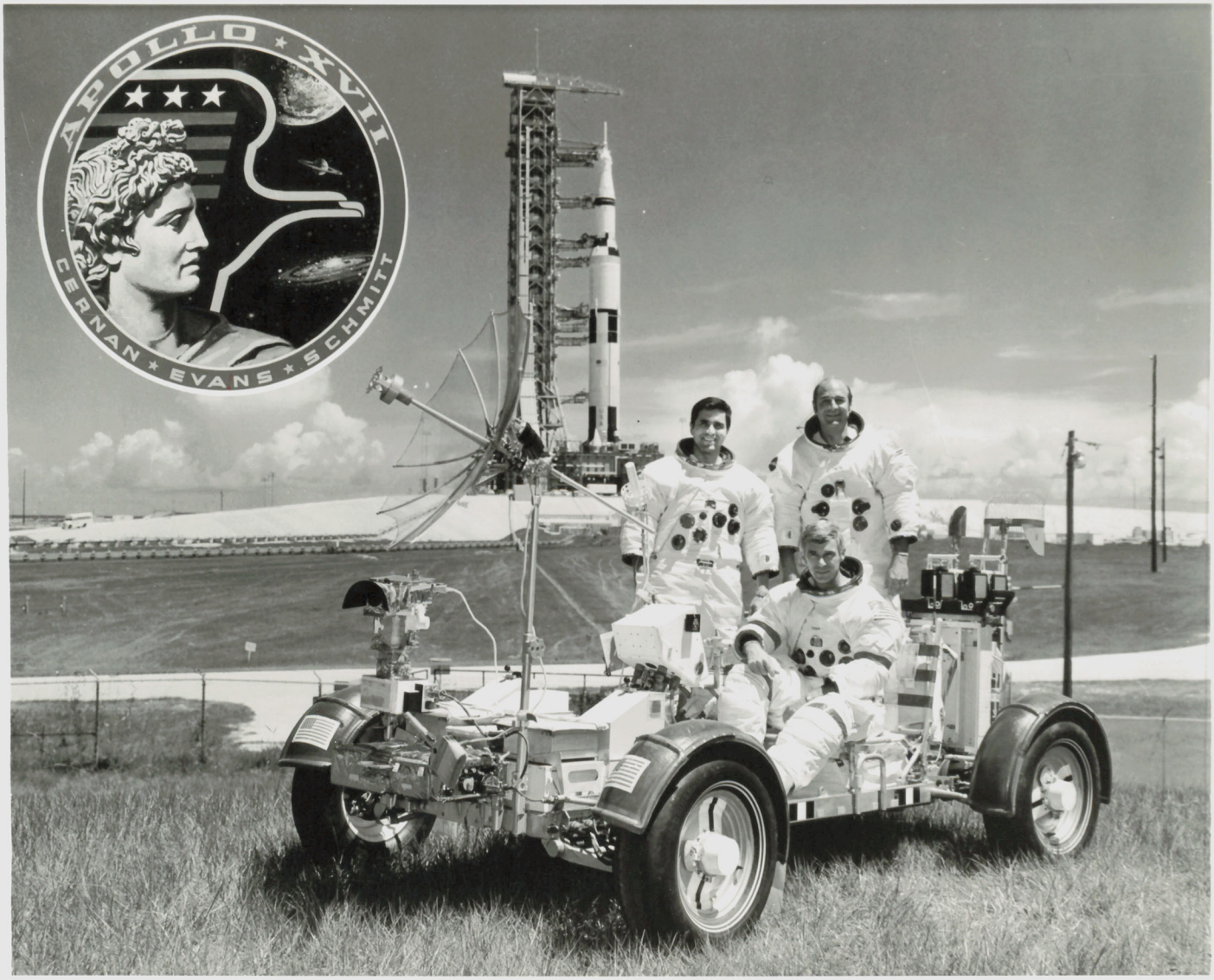
6 SEPT 1972 S-72-48859

TONOPAH, NEVADA

APOLLO 17 EVA TRAINING----Two members of the prime crew of the Apollo 17 lunar landing mission examine a rock specimen during lunar surface extravehicular activity simulation training on a geological field trip to the Pancake Range area of south-central Nevada. They are Astronauts Eugene A. Cernan (right), commander; and Harrison H. Schmitt, lunar module pilot.

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

NASA
S-72-50438



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COLOR (PORTRAIT)

SEPT 1972 S-72-50438

CAPE KENNEDY, FLORIDA

APOLLO 17 CREW--------These three astronauts are the prime crewmen of the Apollo 17 lunar landing mission. They are Eugene A. Cernan (seated), commander; Ronald E. Evans (standing on right), command module pilot; and Harrison H. Schmitt, lunar module pilot. They are photographed with a Lunar Roving Vehicle trainer. Cernan and Schmitt will use an LRV during their exploration of the Taurus-Littrow landing site. The Apollo 17 Saturn V space vehicle is in the background. This picture was taken at Pad A, Launch Complex 39, Kennedy Space Center, Florida. The Apollo 17 emblem is in the photo insert at upper left. The insignia, designed by artist Robert T. McCall in collaboration with the three crewmen, is dominated by the image of Apollo, the Greek sun god.

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

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S-72-48864

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B & W

6 SEPT 1972 S-72-48864

TONOPAH, NEVADA

APOLLO 17 EVA TRAINING----Two members of the prime crew of the Apollo 17 lunar landing mission ride in a Lunar Roving Vehicle trainer during lunar surface extravehicular activity simulation training in the Pancake Range area of south-central Nevada. They are Astronaut Eugene A. Cernan (foreground), commander; and Scientist-Astronaut Harrison H. Schmitt (on Cernan's right), lunar module pilot.

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

Project Apollo 17

National Aeronautics and Space Administration

S79-28117

Lyndon B. Johnson Space Center
Houston, Texas 77058

National Aeronautics and Space Administration

HOUSTON, TEXAS 77058

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COLOR

S70-28117

JOHNSON SPACE CENTER, HOUSTON, TEXAS

OLIN TEAGUE VISITOR CENTER --- Visitors view the Apollo 17 Command Module that took three astronauts to the moon and back in 1972. Plans for a new Visitor Center call for moving the Apollo artifacts and other exhibits in the Teague Center to the envisioned 120,000-square-foot domed structure considered to be the central feature of an anticipated $40 million visitor complex and educational facility at JSC. The Lunar Roving Vehicle and the spacesuit display in this photo would be among artifacts and displays moved to the proposed facility.

pg.1

SATURDAY NOV 1 1975

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Lyndon B. Johnson Space Center

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SEPTEMBER 1972 S72-50438

CAPE KENNEDY, FLORIDA

APOLLO 17 CREW --- These three astronauts are the prime crewmen of the Apollo 17 lunar landing mission. They are Eugene A. Cernan (seated), commander; Ronald E. Evans (standing on right), command module pilot; and Harrison H. Schmitt, lunar module pilot. They are [illegible] Lunar Roving Vehicle trainer. [illegible] will use an LRV during their exploration of the Taurus-Littrow landing site. The Apollo 17 Saturn V space vehicle is in the background. This picture was taken at Pad A, Launch Complex 39, Kennedy Space Center (KSC), Florida. The Apollo 17 emblem is in the photo insert at upper left. The insignia, designed by artist Robert T. McCall in collaboration with the crewmen, is dominated by the image of Apollo, the Greek sun god.

(more)

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

NASA - APOLLO 17

42 x 27

42 x 27

63.4

54 x 46

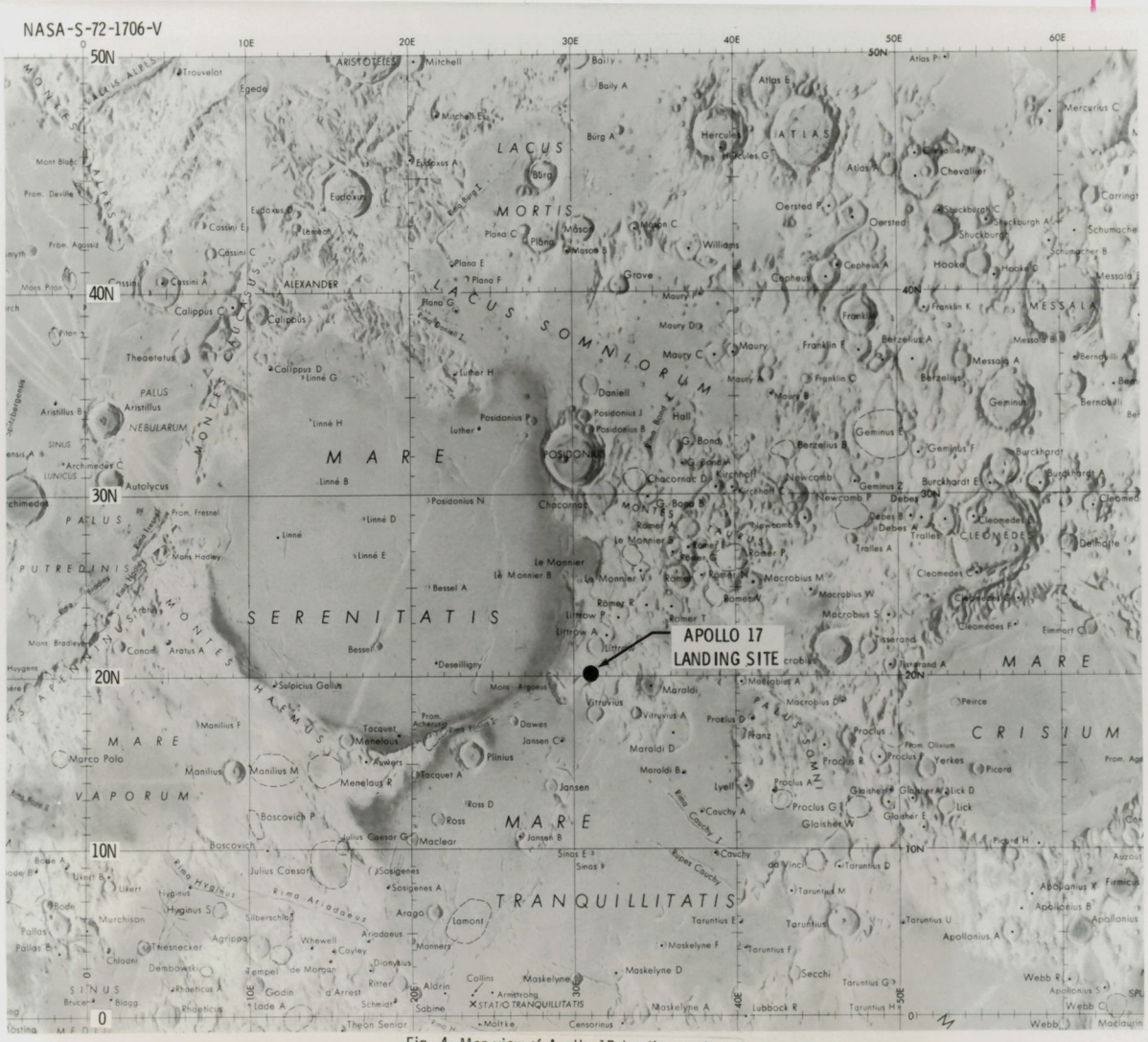

Fig. 4- Map view of Apollo 17 landing region.

NASA - Apollo 17 - Moonlanding

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B & W

JULY 1972 S-72-1706-V

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 17 SITE LOCATION--A photographic illustration showing a close-up view of a portion of the lunar nearside. The black dot in the Taurus-Littrow area pinpoints the location of the landing site of the Apollo 17 lunar landing mission. The coordinates of the landing point are 30 degrees 44 minutes 58 seconds east longitude and 20 degrees 9 minutes 50 seconds north latitude.

Arrow marks canyon-like Taurus-Littrow site

N

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

FOR RELEASE: February 16, 1972
PHOTO NO. 72-H-181

(Apollo 15 Metric Frame 0972 cropped)

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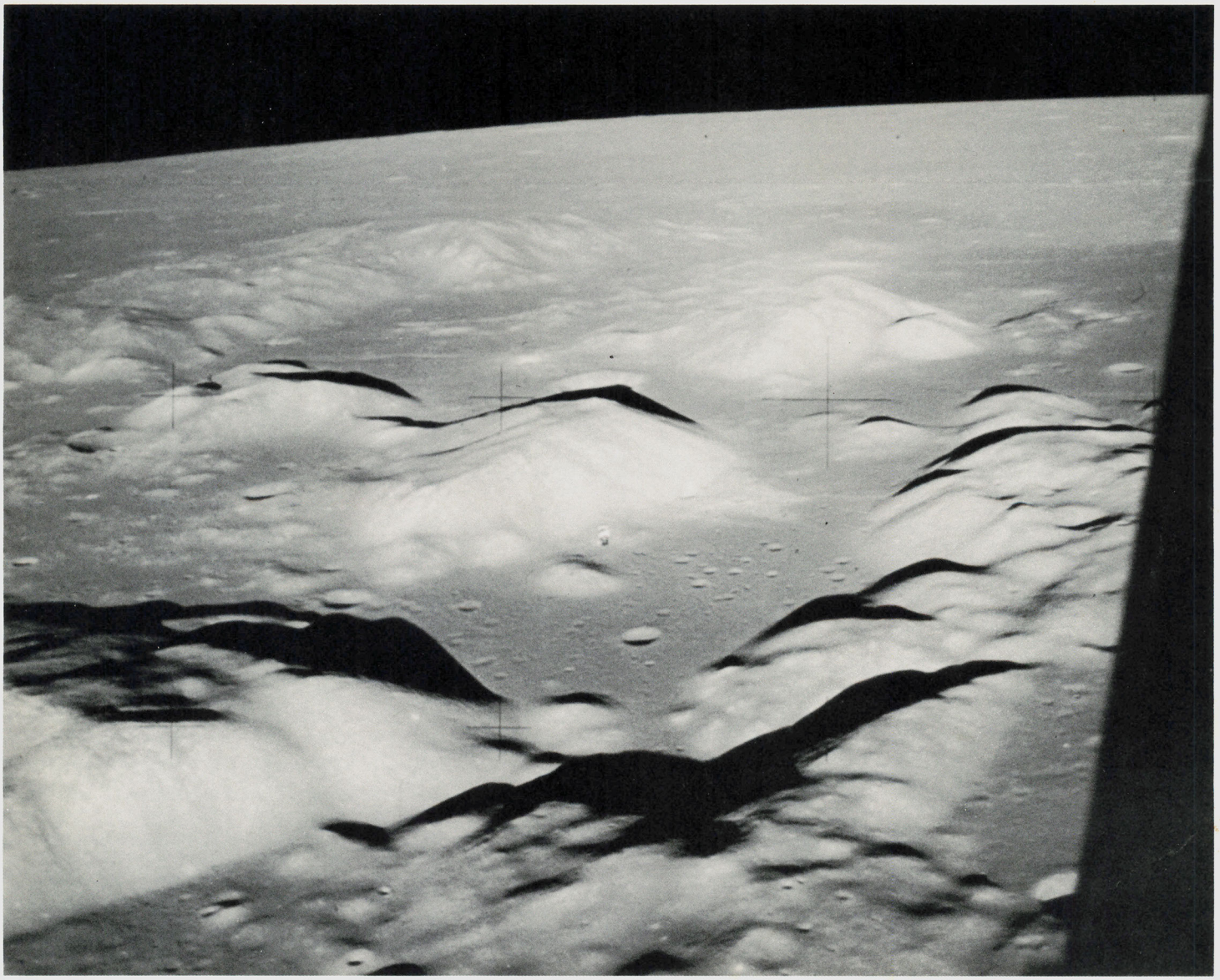
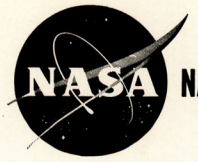
WASHINGTON--The Apollo Program's final manned landing on the Moon will explore a site designated Taurus-Littrow on the southeastern rim of Mare Serenitatis (Sea of Serenity). This photo from the Apollo 15 Metric Camera gives an overview of the upcoming Apollo 17 landing site at 20° North Latitude, 30° East Longitude. The site (white cross) is on a dark cratered plain at the base of light-colored highland mountains. The major scientific objective is to study the highlands for new knowleige about what is believed to be representative of the most ancient part of the Moon. The darker material forms a bay amid steep-sided mountains that rise almost 2 kilometers (1 1/4 miles) above the adjacent plain, or basin. Mountain slopes in excess of 25° are common. The individual mountain masses and ridges are believed to represent very old highland crustal blocks structurally separated by various basin-forming events. The basin and parts of the highlands are mantled (covered) with dark deposits that may be fragmented rocks of volcanic origin. The dark mantle, a very low albedo (low light-reflective) loose material which covers pre-existing terrain, is extensively developed in this region. Sampling of the dark deposits is given a high priority since its age and composition would shed light on the thermal history of the Moon. Panoramic photography and Command Module Pilot observations on Apollo 15 documented the presence here of a number of cinder cones which may be related to the dark mantle. It might be dust blown out by a volcanic eruption. Radar maps indicate this dark mantle is different because of its scarcity of blocky material. Photo covers 120 km (75 miles) from east to west and 97 km (54 miles) north to south. Dotted rectangle is area of closeup in NASA Photo 72-H-182.

PHOTO CREDIT--NASA or National Aeronautics and Space Administration



APOLLO 17 LANDING SITE AS SEEN FROM LUNAR ORBIT



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

APOLLO 17 VIEW OF MOON—An excellent oblique view of the Taurus-Littrow landing site, photographed from the Apollo 17 Lunar Module "Challenger" one revolution prior to lunar landing. The Command/Service Module can be seen in the center of the picture. The base of South Massif is directly behind the CSM. The much smaller lunar peak next to the CSM is Bear Mountain. This view is looking generally west-southwest. The small crater east-northeast of Bear Mountain is MOCR. The Lunar Module touchdown point is west-northwest of MOCR.

MSCL—104

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...Only a
Beginning!
Apollo
17
NASA

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

FOR RELEASE: December 6, 1972

PHOTO NO. 72-H-1519

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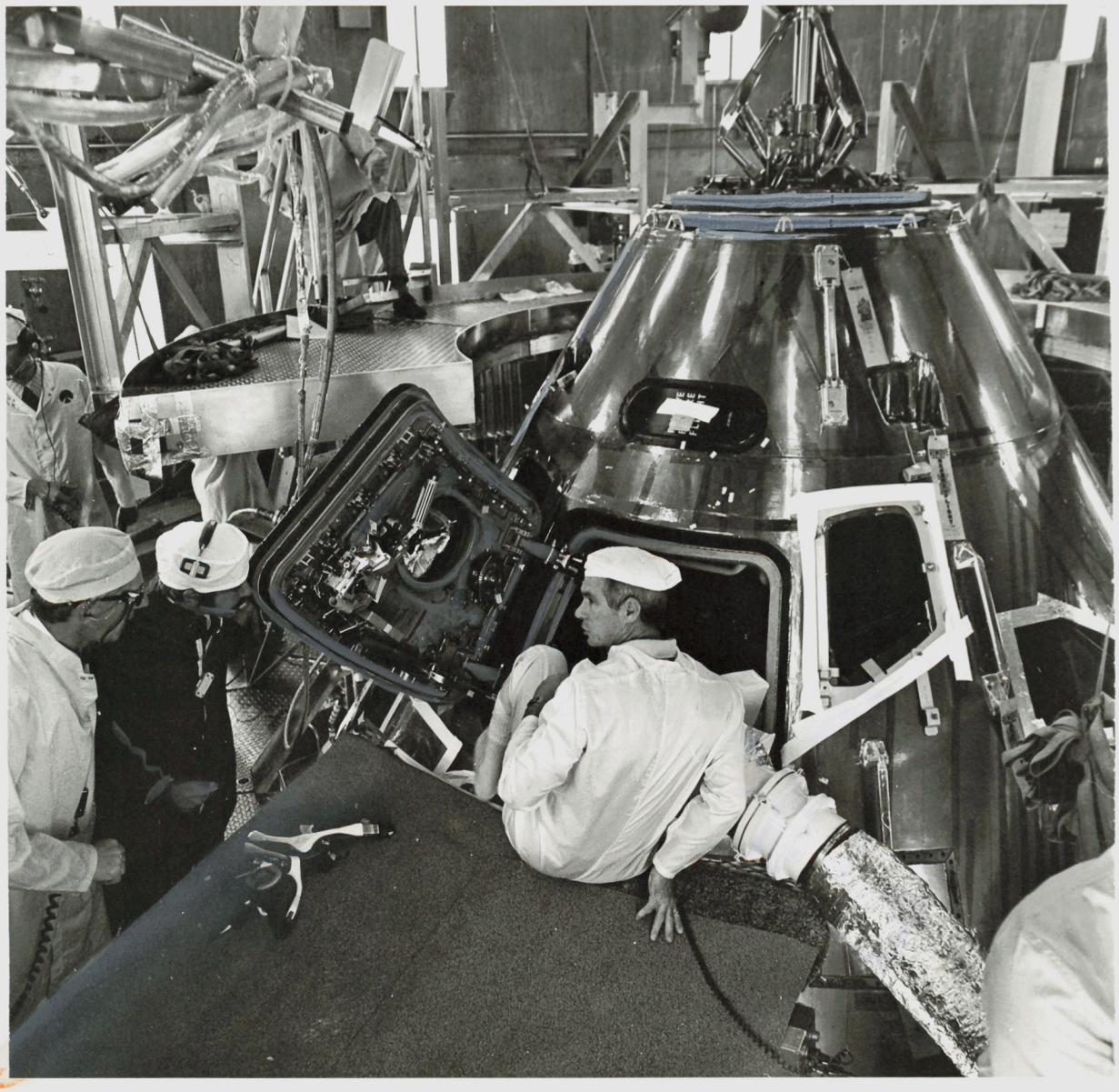
KENNEDY SPACE CENTER, Fla., -- Eugene A. Cernan, Apollo 17 mission commander, watches technician conduct spacesuit pressure checks during prelaunch preparations tonight. In the background are Command Module Pilot Ronald E. Evans, center, and Harrison H. Schmitt. Cernan and Schmitt will explore the Moon's Taurus-Littrow region while Evans pilots the command module in lunar orbit. Apollo 17 is NASA's sixth and final manned lunar landing mission in the Apollo program.

ASTRONAUTS
SPACE FLIGHT
MOON

PHOTO CREDIT: NASA or National Aeronautics and Space Administration



A76502 - Apollo 17

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8-70

KENNEDY SPACE CENTER, FLORIDA -- Apollo 17 Comma
participates in Spacecraft docking test. The Apo
lunar modules have passed their docking tests and
module is now undergoing combined systems tests i
altitude runs in June. The Apollo 17 prime crew
Eugene A. Cernan, commander; Ronald E. Evans, com
and Harrison H. Schmitt, lunar module pilot.

REF
JUN 29 '72
N.E.A.

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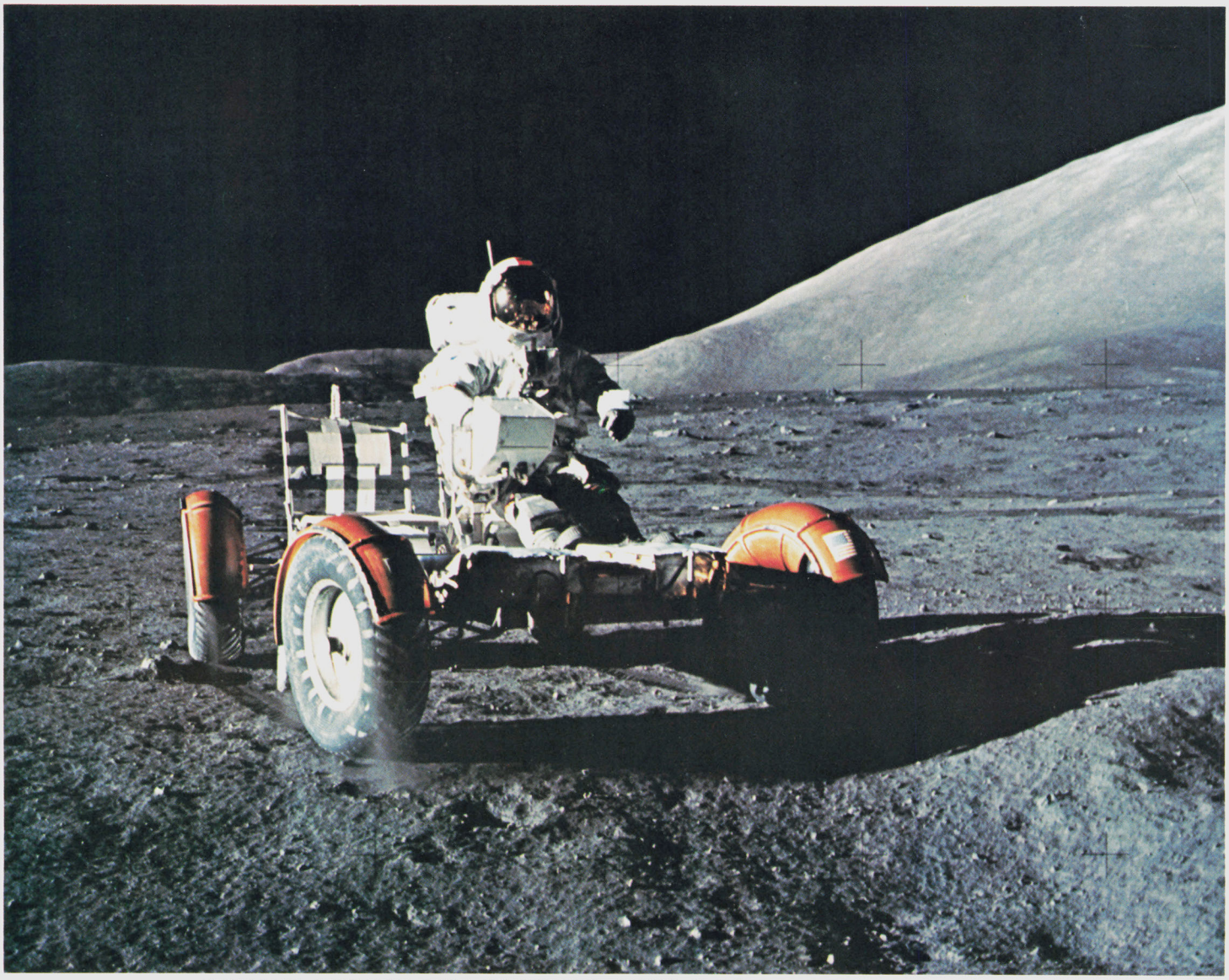

CERNAN CHECKS OUT "STRIPPED DOWN" ROVER PRIOR TO LOADUP

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

APOLLO 17 EVA PHOTO—Astronaut Eugene A. Cernan makes a short check out of the Lunar Roving Vehicle during the early part of the first Apollo 17 extravehicular activity (EVA-1) at the Taurus-Littrow landing site. This view of the "stripped down" Rover is prior to loadup. Equipment later loaded onto the LRV included the ground controlled television assembly, the lunar communications relay unit, the hi-gain antenna, the low-gain antenna, the aft tool pallet, and lunar tools and scientific gear. This picture was taken by Scientist-Astronaut Harrison H. "Jack" Schmitt, lunar module pilot. Cernan is the Apollo 17 commander. The mountain in the right background is the east end of South Massif.

MSCL—96

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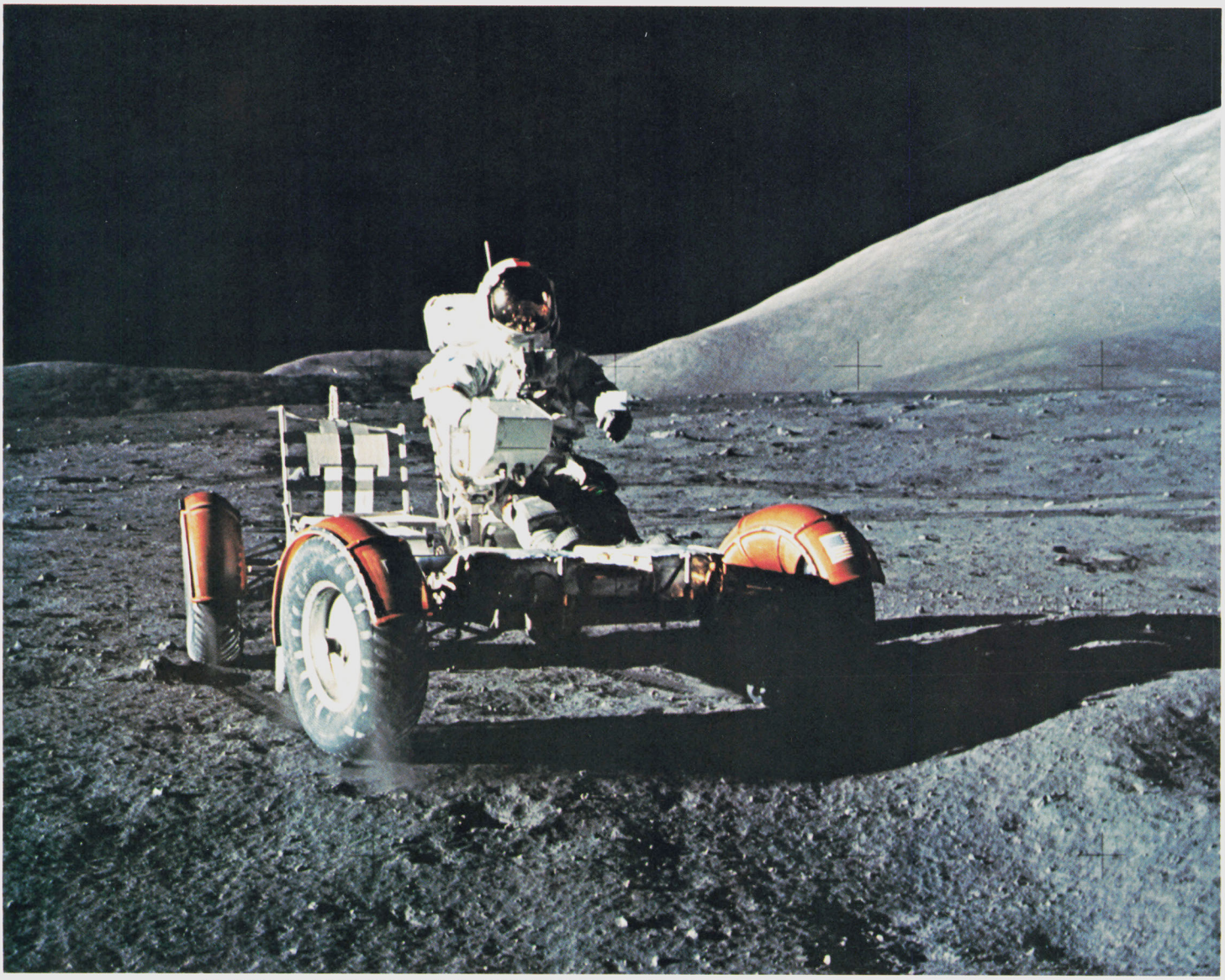
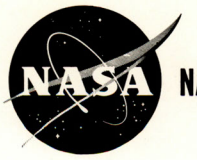


CERNAN CHECKS OUT "STRIPPED DOWN" ROVER PRIOR TO LOADUP



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

APOLLO 17 EVA PHOTO—Astronaut Eugene A. Cernan makes a short check out of the Lunar Roving Vehicle during the early part of the first Apollo 17 extravehicular activity (EVA-1) at the Taurus-Littrow landing site. This view of the "stripped down" Rover is prior to loadup. Equipment later loaded onto the LRV included the ground controlled television assembly, the lunar communications relay unit, the hi-gain antenna, the low-gain antenna, the aft tool pallet, and lunar tools and scientific gear. This picture was taken by Scientist-Astronaut Harrison H. "Jack" Schmitt, lunar module pilot. Cernan is the Apollo 17 commander. The mountain in the right background is the east end of South Massif.

MSCL—96

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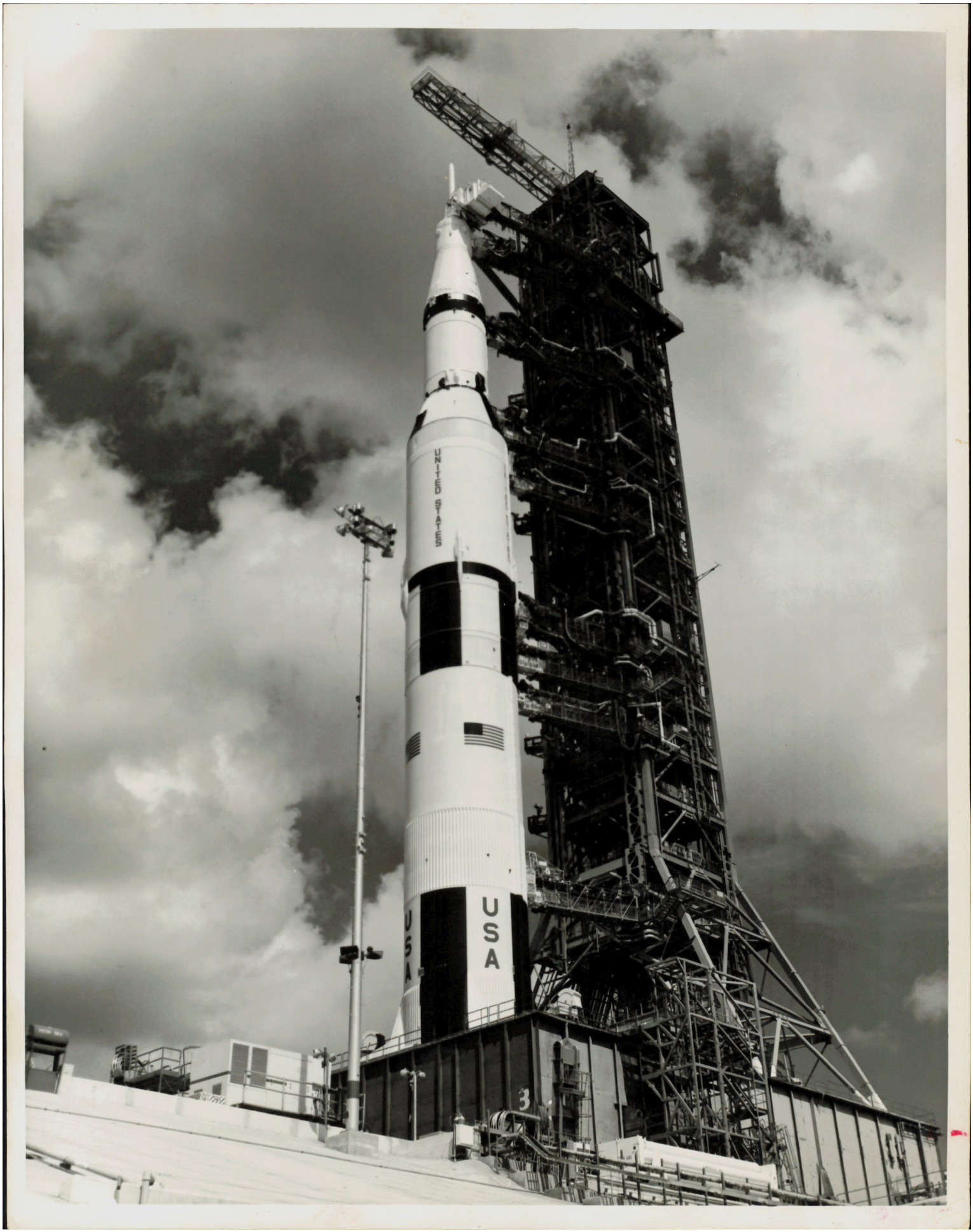
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USA
USA
3

Project Apollo 17

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FOR RELEASE: August 28, 1972

PHOTO NO: 72-H-1206
72-HC-669

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KENNEDY SPACE CENTER, Fla., -- Apollo 17 Launch Vehicle was transported from the Vehicle Assembly Building Aug. 28, 1972. The final mission in the Apollo Program will be manned by Commander Gene Cernan; Lunar Module Pilot Harrison Schmitt and Command Module Pilot Ron Evans. Lift-off is scheduled for Dec. 6, 1972 from Complex 39A.

MON DEC 1 1972

Sun. Sw L
2 col w/bty
Apollo 17

NASA Photo

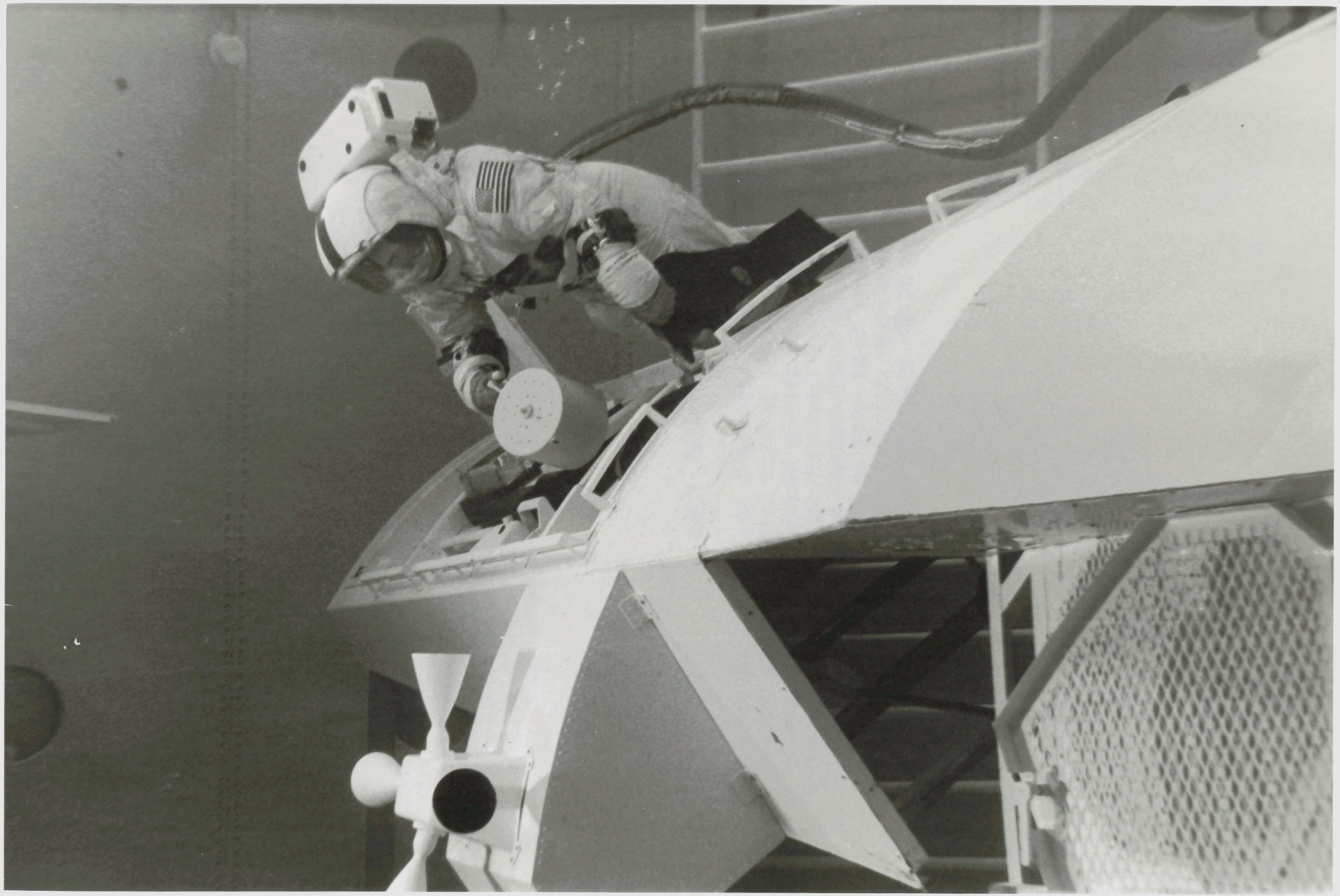
SUN DEC 3 1972

APOLLO 17 ON LAUNCH PAD AT CAPE KENNEDY
Lift-Off Is at 8:53 P.M. Wednesday

National Aeronautics and Space Administration

190-15

NASA
S-72-49971



Ronald Evans

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B & W

29 SEPT 1972 S-72-49971

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

APOLLO 17 EVA TRAINING----Astronaut Ronald E. Evans, command module pilot of the Apollo 17 lunar landing mission, participates in extravehicular activity training in a water tank in Building 5 at the Manned Spacecraft Center. Evans is scheduled to perform transearth extravehicular activity after the Apollo 17 spacecraft leaves lunar orbit on its way back home. The structure in the picture simulates the Scientific Instrument Module (SIM) bay of the Apollo 17 Service Module.

NASA
S-72-51687

Mrs. Eugene A. Cernan

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HOUSTON, TEXAS 77058

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COLOR (FAMILY PORTRAIT)

OCTOBER 1972 S-72-51687

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

CERNAN AND FAMILY------Astronaut Eugene A. Cernan poses for a family portrait with his wife, Barbara, and their daughter, Teresa Dawn, 9, at their home in Nassau Bay, near the Manned Spacecraft Center, Houston, Texas. Cernan is the commander of the Apollo 17 lunar landing mission.

PHOTO CREDIT: NASA or National Aeronautics and Space Administration

SPACE TRAVEL--APOLLO 17 (CREW MOVESTO ROCKET)

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

FOR RELEASE: November 21, 1972

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KENNEDY SPACE CENTER, FLA., -- The Apollo 17 prime crew leaves the Manned Spacecraft Operations Building to enter the transfer van which will carry them to Complex 39's Pad A, to participate in the Countdown Demonstration Test (CDDT). From right are Eugene A. Cernan, Commander; Ronald E. Evans, Command Module Pilot; and Harrison H. Schmitt, Lunar Module Pilot. Successful completion of the "dry" portion of the CDDT cleared the way for the launch of Project Apollo's final Lunar landing mission at 9:53 p.m. EST on December 6. The launch will mark the first night mission for the Saturn V.

DEC 10 1972

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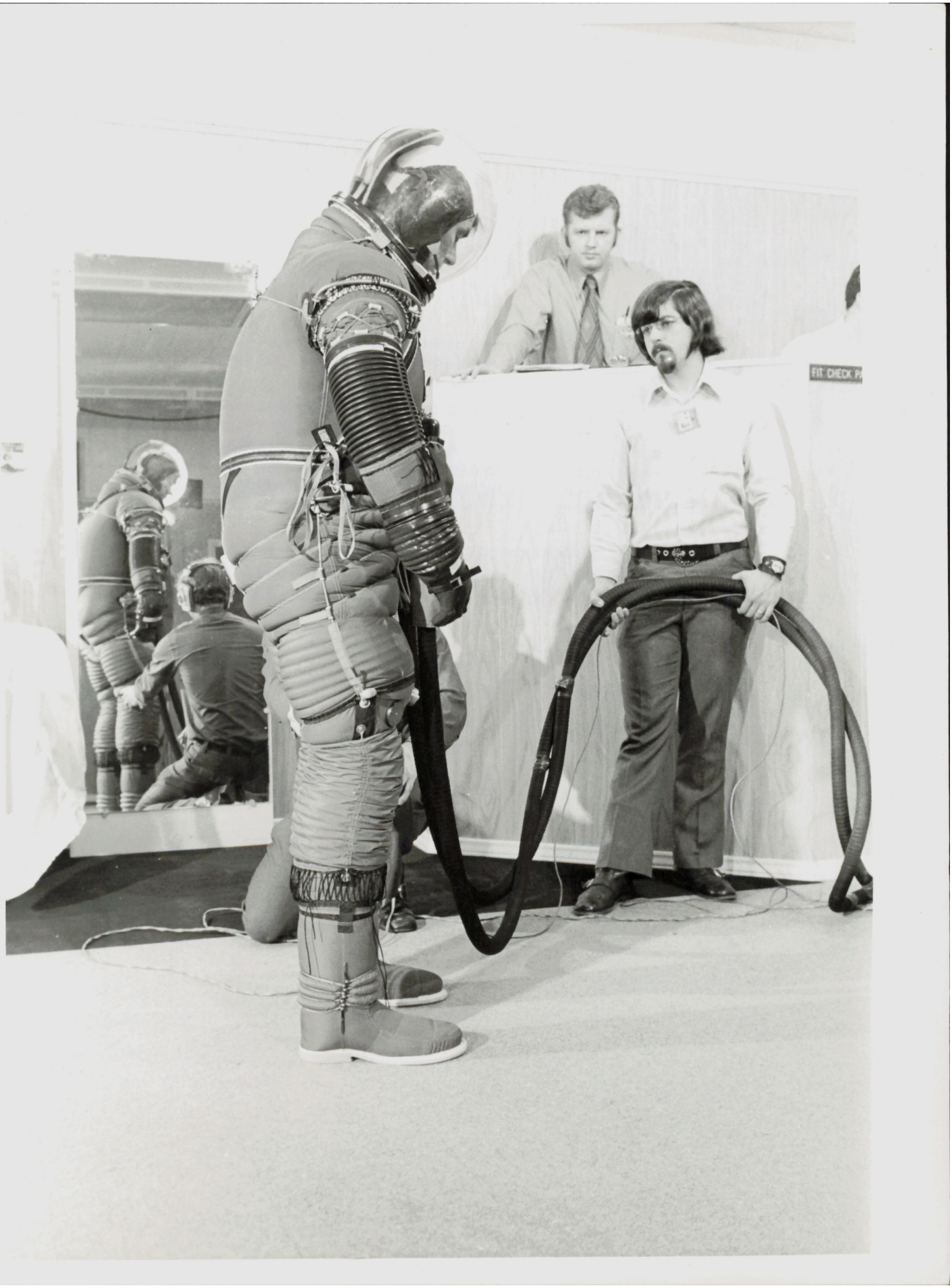
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WASHINGTON, D.C. 20546

FOR RELEASE: Filed: March 6, 1972

PHOTO NO. 72-H-252

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DOVER, DEL. -- The Commander for the National Aeronautics and Space Administration's Apollo 17 Mission, Astronaut Eugene A. Cernan is shown during a final flight suit fit check at the ILC Industries Inc. plant at Dover.

(ASTRONAUTS UNIFORMS)

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FIELD ENTERPRISES, INC.

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PHOTO CREDIT -- NASA or National Aeronautics and Space Administration

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

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DOVER, DEL. -- The Commander for the National Aeronautics and Space Administration's Apollo 17 Mission, Astronaut Eugene A. Cernan is shown during a final flight suit fit check at the ILC Industries Inc. plant at Dover.

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UNITED STATES
USA
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR RELEASE: Filed. September 6, 1972
PHOTO NO. 72-H-1221

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KENNEDY SPACE CENTER, FLA.

The Apollo 17 space vehicle is shown on launch Complex 39-A.

Apollo 17, the final Lunar landing mission of the Apollo program is scheduled for launch from the Kennedy Space Center no earlier than December 6. The planned landing site is a combination of mountainous highlands and a lowland valley region of the Moon designated Taurus-Littrow. Cordinates are 20°09' N. Latitude and 30°44' E. Longitude. The flight crew for the Apollo 17 mission are; Eugene A. Cernan, Commander, Harrison H. Schmitt, Lunar Module Pilot, and Ronald E. Evans, Command Module Pilot.

PHOTO CREDIT: NASA or National Aeronautics and Space Administration