INFORMATION ABOUT THE 73 ASTRONAUTS SELECTED BY THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION SINCE 1959

JANUARY 1975
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January 1975

ASTRONAUT FACT SHEET

Of 73 pilots and scientists selected as astronauts since April 1959, 33 are on flight status at the National Aeronautics and Space Administration's Lyndon B. Johnson Space Center, Houston. The number of pilot-astronauts is 25 and 8 are scientist-astronauts.

Forty astronauts are no longer on the active list -- 31 pilots and nine scientists.

Seven groups of astronauts have been selected. In Group I were the seven Mercury astronauts selected in April 1959. Nine test pilots, Group II, were selected in September 1962. In Group III were 14 pilot-astronauts selected in October 1963. Group IV, the first six scientist-astronauts, was selected in June 1965. In April 1966, 19 pilot-astronauts were selected as Group V. Group VI, 11 scientist-astronauts, was selected in August 1967. Seven Air Force Manned Orbital Laboratory pilots joined the NASA pilot-astronaut program in August 1969, as Group VII.

- more -
## ALPHABETICAL LIST OF THE 73 ASTRONAUTS SELECTED

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
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<td>Aldrin, Edwin E., Jr.</td>
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<td>Allen, Joseph P.</td>
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<td>Young, John W.</td>
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</table>
Group I, Project Mercury Astronauts selected April 1959

Active

Donald K. Slayton, Civilian, and Docking Module Pilot, U.S. Crew for Apollo Soyuz Test Project (ASTP)

Inactive


L. Gordon Cooper, Colonel, USAF (Ret.), retired July 1970; is in private business. He resides in Los Angeles, Calif.


Virgil I. (Gus) Grissom, Lieutenant Colonel, USAF, died in Apollo spacecraft fire at Cape Kennedy, January 1967.

Walter M. Schirra, Jr., Captain, USN (Ret.), retired in July 1969. His business interest is Schirra Enterprises, Denver, Colo.

Alan B. Shepard, Jr., Rear Admiral, USN (Ret.), retired from the U.S. Navy and NASA August 1, 1974. He is Chairman, Marathon Construction Co., Houston, Tex.

Group II, Test Pilot Astronauts selected September 1962

Active

Thomas P. Stafford, Brigadier General, USAF, and Commander U.S. Crew for ASTP.

John W. Young, Captain, USN, and Chief, Astronaut Office, Flight Operations Directorate, Johnson Space Center.

Inactive

Neil A. Armstrong, University Professor of Engineering, University of Cincinnati, effective October 1971. Previously was Deputy Associate Administrator, Aeronautics, NASA Headquarters Office of Advanced Research and Technology since 1970.

- more -
Frank Borman, Colonel, USAF (Ret.), Executive Vice President and General Operations Manager, Eastern Airlines, Miami, since July 1970.

Charles Conrad, Captain, USN (Ret.), effective Feb. 1, 1974. He is Vice President, Operations & Chief Operating Officer, American Television and Communications Corp., Denver, Colo.


James A. Lovell, Jr., Captain, USN (Ret.), is Senior Executive Vice President, Bay-Houston Towing Co., Houston, since March 1973. He served as Deputy Director of Science and Applications, JSC, May 1971-March 1973.

Elliot M. See, Jr., died in a T-38 jet crash February 1966, Lambert Municipal Airport, St. Louis.


**Group III, Pilot Astronauts selected October 1963**

**Active**

Alan L. Bean, Captain, USN, and Backup Commander for U.S. ASTP Crew.

Eugene A. Cernan, Captain, USN, and Special Assistant to Apollo Spacecraft Program Manager, JSC.

**Inactive**


- more -
Charles A. Bassett, II, Major, USAF, died in T-38 jet crash with Elliot See, February 1966 at St. Louis.

Roger B. Chaffee, Lieutenant Commander, USN, died in Apollo spacecraft fire, Cape Kennedy, Fla., January 1967.

Michael Collins, became Assistant Secretary of State for Public Affairs in January 1970. Since February 1971 is Director, National Air and Space Museum, Smithsonian Institution, Washington, D.C.

Walter Cunningham, resigned August 1, 1971. He is now President, Hydrotech International, Inc., Houston.


Theodore C. Freeman, Captain, USAF, died in T-38 crash Ellington AFB, Houston, October 1964.

Richard F. Gordon, Jr., Captain, USN (Ret.), retired from the Navy and NASA January 1, 1972; Executive Vice President, New Orleans Saints, professional football organization, New Orleans, La.


Group IV, Scientist Astronauts selected June 1965

Active

Owen K. Garriott, Ph.D. (Electrical Engineering) Deputy Director, Sciences & Applications Directorate, JSC.

Joseph P. Kerwin, Captain, USN, M.D. (Medicine) and Chief, Life Sciences Astronaut Office, JSC.

- more -
Inactive

Edward G. Gibson, Ph.D. (Engineering and Physics) joined Aerospace Corporation, El Segundo, Calif. on December 1, 1974 as senior scientist.


Frank Curtis Michel, Ph.D. (Physics), resigned August 1969 to return to scientific research at Rice University, Houston.

Group V Pilot Astronauts selected April 1966

Active


Gerald P. Carr, Colonel, USMC.

Charles M. Duke, Jr., Colonel, USAF, and Technical Assistant to Manager for Space Shuttle Systems Integration, JSC.

Joe H. Engle, Colonel, USAF.

Ronald E. Evans, Captain, USN, Backup Command Module Pilot U.S. ASTP Crew.

Fred W. Haise, Jr., Civilian, and Technical Assistant to Space Shuttle Orbiter Project Manager, JSC.

Don L. Lind, Civilian, Ph.D. (Physics).


Thomas K. Mattingly, II, Commander, USN

Bruce McCandless, II, Commander, USN

William R. Pogue, Colonel, USAF
Stuart A. Roosa, Colonel, USAF

Paul J. Weitz, Captain, USN

Inactive


Edgar D. Mitchell, Captain, USN, (Ret.), retired from Navy and NASA October 1, 1972. He is Chairman, Institute of Noetic Sciences, Palo Alto, Calif.

John L. Swigert, Jr., appointed Staff Executive Director, Committee on Science and Astronautics, House of Representatives, in April 1973.


Group VI Scientist Astronauts Selected August 1967 (all civilian)

Active

Joseph P. Allen, Ph.D. (Physics)

Karl G. Henize, Ph.D. (Astronomy)

William B. Lenoir, Ph.D. (Electrical Engineering)

Story Musgrave, M.D., Ph.D. (Medicine & Physiology)

Robert A. Parker, Ph.D. (Astronomy) and Chief, Science and Applications, Astronaut Office.

William E. Thornton, M.D. (Medicine)

- more -
Inactive


John A. Llewellyn, Ph.D. (Chemistry), resigned for personal reasons, August 1968; presently is a professor of Chemistry, State University of Florida, Tallahassee.

Brian T. O'Leary, Ph.D. (Astronomy), resigned for personal reasons, April 1968. He is a professor at Hampshire College, Amherst, Mass.

Donald L. Holmquest, M.D. and Ph.D. (Medicine & Physiology), took leave of absence May 1971, to hold position of assistant professor of Radiology and Physiology, Baylor College of Medicine, Houston. Currently, he is associated with the Eisenhower Memorial Hospital, Palm Springs, Calif.

Group VII Pilot Astronauts, former Air Force Manned Orbiting Laboratory Pilots who entered NASA program in August 1969

Karol J. Bobko, Lt. Colonel, USAF
Robert L. Crippen, Commander, USN
Charles G. Fullerton, Lt. Colonel, USAF
Henry W. Hartsfield, Jr., Lt. Colonel, USAF
Robert F. Overmyer, Lt. Colonel, USMC
Donald H. Peterson, Colonel, USAF
Richard H. Truly, Commander, USN

- more -
Apollo Flight Crews

Apollo 7

Flight Crew:

Commander, Walter M. Schirra
CM Pilot, Donn F. Eisele
LM Pilot, Walter Cunningham

Backup Crew:

Commander, Thomas P. Stafford
CM Pilot, John W. Young
LM Pilot, Eugene A. Cernan

Apollo 8

Flight Crew:

Commander, Frank Borman
CM Pilot, James A. Lovell, Jr.
LM Pilot, William A. Anders

Backup Crew:

Commander, Neil A. Armstrong
CM Pilot, Edwin E. Aldrin, Jr.
LM Pilot, Fred W. Haise, Jr.

Apollo 9

Flight Crew:

Commander, James A. McDivitt
CM Pilot, David R. Scott
LM Pilot, Russell L. Schweickart

Backup Crew:

Commander, Charles Conrad, Jr.
CM Pilot, Richard F. Gordon
LM Pilot, Alan L. Bean

-more-
Apollo 10

Flight Crew:

Commander, Thomas P. Stafford
CM Pilot, John W. Young
LM Pilot, Eugene A. Cernan

Backup Crew:

Commander, L. Gordon Cooper
CM Pilot, Donn F. Eisele
LM Pilot, Edgar D. Mitchell

Apollo 11

Flight Crew:

Commander, Neil A. Armstrong
CM Pilot, Michael Collins
LM Pilot, Edwin E. Aldrin, Jr.

Backup Crew:

Commander, James A. Lovell, Jr.
CM Pilot, William A. Anders
LM Pilot, Fred W. Haise, Jr.

Apollo 12

Flight Crew:

Commander, Charles Conrad, Jr.
CM Pilot, Richard F. Gordon, Jr.
LM Pilot, Alan L. Bean

Backup Crew:

Commander, David R. Scott
CM Pilot, Alfred M. Worden
LM Pilot, James B. Irwin

Apollo 13

Flight Crew:

Commander, James A. Lovell, Jr.
CM Pilot, John L. Swigert, Jr.*
LM Pilot, Fred W. Haise, Jr.

*Substituted for Thomas K. Mattingly, II, who had been exposed to, but did not contract, measles.
Backup Crew:

Commander, John W. Young
CM Pilot, John L. Swigert, Jr.
LM Pilot, Charles M. Duke, Jr.

Apollo 14

Flight Crew:

Commander, Alan B. Shepard, Jr.
CM Pilot, Stuart A. Roosa
LM Pilot, Edgar D. Mitchell

Backup Crew:

Commander, Eugene A. Cernan
CM Pilot, Ronald E. Evans
LM Pilot, Joe H. Engle

Apollo 15

Flight Crew:

Commander, David R. Scott
CM Pilot, Alfred M. Worden
LM Pilot, James B. Irwin

Backup Crew:

Commander, Richard F. Gordon, Jr.
CM Pilot, Vance D. Brand
LM Pilot, Harrison H. Schmitt

Apollo 16

Flight Crew:

Commander, John W. Young
CM Pilot, Thomas K. Mattingly, II
LM Pilot, Charles M. Duke, Jr.

Backup Crew:

Commander, Fred W. Haise, Jr.
CM Pilot, Stuart A. Roosa
LM Pilot, Edgar D. Mitchell

- more -
Apollo 17

Flight Crew:
Commander, Eugene A. Cernan
CM Pilot, Ronald E. Evans
LM Pilot, Harrison H. Schmitt

Backup Crew:
Commander, John W. Young
CM Pilot, Stuart A. Roosa
LM Pilot, Charles M. Duke, Jr.

SKYLAB CREWS

First Manned Mission

Flight Crew:
Commander, Charles Conrad, Jr.
Science Pilot, Dr. Joseph P. Kerwin
Pilot, Paul J. Weitz

Backup Crew:
Commander, Russell L. Schweickart
Science Pilot, Dr. Story Musgrave
Pilot, Bruce McCandless, II

Second Manned Mission

Flight Crew:
Commander, Alan L. Bean
Science Pilot, Dr. Owen K. Garriott
Pilot, Jack R. Lousma

Backup Crew:
Commander, Vance D. Brand
Science Pilot, Dr. Don L. Lind
Pilot, Dr. William E. Lenoir

- more -
Third Manned Mission

Flight Crew:

   Commander, Gerald P. Carr  
   Science Pilot, Dr. Edward G. Gibson  
   Pilot, William R. Pogue

Backup Crew:

   (Same backup crew as Second Manned Mission)

APOLLO SOYUZ TEST PROJECT CREW (July 1975)

Prime Crew:

   Commander, Thomas P. Stafford  
   Command Module Pilot, Vance D. Brand  
   Docking Module Pilot, Donald K. Slayton

Backup Crew:

   Commander, Alan L. Bean  
   Command Module Pilot, Ronald E. Evans  
   Docking Module Pilot, Jack R. Lousma

Support Crew:

   Richard H. Truly  
   Robert F. Overmyer  
   Robert L. Crippen  
   Karol J. Bobko

- more -
ASTRONAUTS WHO HAVE FLOWN (41)

One Flight (24)

William A. Anders Apollo 8
M. Scott Carpenter Mercury 7
Gerald P. Carr Skylab 4
Walter Cunningham Apollo 7
Charles M. Duke, Jr. Apollo 16
Donn F. Eisele Apollo 7
Ronald E. Evans Apollo 17
Owen K. Garriott Skylab 3
Edward G. Gibson Skylab 4
John H. Glenn Mercury 6
Fred W. Haise, Jr. Apollo 13
James B. Irwin Apollo 15
Joseph P. Kerwin Skylab 2
Jack R. Lousma Skylab 3
Thomas K. Mattingly, II Apollo 16
Edgar D. Mitchell Apollo 14
William R. Pogue Skylab 4
Stuart A. Roosa Apollo 14
Harrison H. Schmitt Apollo 17
Russell L. Schweickart Apollo 9
John L. Swigert, Jr. Apollo 13
Paul J. Weitz Skylab 2
Edward H. White, II Gemini IV
Alfred M. Worden Apollo 15

Two Flights (10)

Edwin E. Aldrin, Jr. Gemini XII/Apollo 11
Neil A. Armstrong Gemini VIII/Apollo 11
Alan L. Bean Apollo 12/Skylab 3
Frank Borman Gemini VII/Apollo 8
Michael Collins Gemini X/Apollo 11
L. Gordon Cooper Mercury 9/Gemini V
Richard F. Gordon, Jr. Gemini XI/Apollo 12
Virgil I. Grissom Mercury 4/Gemini III
James McDivitt Gemini IV/Apollo 9
Alan B. Shepard, Jr. Mercury 3/Apollo 14

- more -
Three Flights (4)
Eugene A. Cernan
Walter M. Schirra
David R. Scott
Thomas Stafford

Four Flights (3)
Charles Conrad
James A. Lovell, Jr.
John W. Young

- more -
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<td>Mercury-Redstone 4</td>
<td>Grissom</td>
<td>July 21, 1961</td>
<td>00:15:37</td>
<td>Also suborbital; successful flight but spacecraft sank, astronaut rescued. USS Randolph (A). Liberty Bell 7.</td>
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<td>Mercury-Atlas 9</td>
<td>Cooper</td>
<td>May 15 and 16, 1963</td>
<td>34:19:49</td>
<td>Twenty-two orbits to evaluate effects on man of 1 day in space; landed 4-1/2 miles from USS Kearsarge (P). Faith 7.</td>
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<td>Gemini-Titan III</td>
<td>Grissom, Young</td>
<td>March 23, 1965</td>
<td>04:53:00</td>
<td>Three-orbit demonstration of the spacecraft; maneuver over Texas on first pass changed orbital path of a manned spacecraft for first time; landed about 50 miles uprange. USS Intrepid (A). Molly Brown (only Gemini named).</td>
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<td>Gemini-Titan IV</td>
<td>McDivitt, White</td>
<td>June 3 to 7, 1965</td>
<td>04:56:11</td>
<td>Four-day flight with White first American to walk in space in 20-minute extravehicular activity (hatch open 36 minutes); after 62 revolutions of Earth, landed 50 miles uprange from USS Wasp (A).</td>
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<td>Gemini-Titan V</td>
<td>Cooper, Conrad</td>
<td>Aug. 21 to 29, 1965</td>
<td>190:55:14</td>
<td>First use of fuel cells for electric power; evaluated guidance and navigation system for future rendezvous missions; incorrect navigation coordinates from ground control resulted in landing 90 miles short; 120 revolutions. USS Lake Champlain (A).</td>
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<td>Gemini-Titan VII</td>
<td>Borman, Lovell</td>
<td>Dec. 4 to 18, 1965</td>
<td>330:35:31</td>
<td>Longest-duration Gemini flight; provided rendezvous target for Gemini VI-A; crew flew portions of mission in shirtsleeves for first time; 206 revolutions; landed 6.4 miles from target. USS Wasp (A).</td>
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<td>Gemini-Titan VI-A</td>
<td>Schirra, Stafford</td>
<td>Dec. 15 and 16, 1965</td>
<td>25:51:24</td>
<td>Rescheduled to rendezvous with Gemini VII after original target Agena failed to orbit; VI-A launch postponed 3 days when launch vehicle engines automatically shut down 1.2 seconds after ignition; completed first space rendezvous; after 16 revolutions, landed within 7 miles of target to initiate series of pinpoint landings by Gemini spacecraft. USS Wasp (A).</td>
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<td>Gemini-Titan VIII</td>
<td>Armstrong, Scott</td>
<td>March 16, 1966</td>
<td>10:41:26</td>
<td>First docking of one space vehicle with another; about 27 minutes after docking, Gemini-Agena combination began to yaw and roll at increasing rates; emergency procedures included undocking, deactivation of malfunctioning spacecraft control system, activation of reentry control system; mission was terminated and, midway through 7th revolution, spacecraft landed 1.1 miles from planned landing point in secondary recovery area in western Pacific; destroyer USS Mason picked up crew 3 hours later.</td>
</tr>
<tr>
<td>Gemini-Titan IX-A</td>
<td>Stafford, Cernan</td>
<td>June 3 to 6, 1966</td>
<td>72:21:00</td>
<td>Rescheduled to rendezvous and dock with augmented target docking adapter after original target Agena failed to orbit; ATDA shroud did not completely separate, making docking impossible; three different types of rendezvous were completed; Cernan carried out 2 hours 7 minutes of EVA; 44 revolutions; 0.38 miles from target. USS Wasp (A).</td>
</tr>
<tr>
<td>Mission</td>
<td>Commander(s)</td>
<td>Launch Date(s)</td>
<td>Date(s)</td>
<td>Time</td>
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<tr>
<td>Gemini-Titan X</td>
<td>Young, Collins</td>
<td>July 18 to 21, 1966</td>
<td>70:46:39</td>
<td>First use of Agena target vehicle's propulsion systems; spacecraft also rendezvoused with Gemini VIII target vehicle; Collins had 49 minutes of EVA standing in hatch. 39-minute EVA to retrieve experiment from Agena VIII; 43 revs; 3.4 miles, USS Guadalcanal (A).</td>
</tr>
<tr>
<td>Gemini-Titan XI</td>
<td>Conrad, Gordon</td>
<td>Sept. 12 to 15, 1966</td>
<td>71:17:08</td>
<td>Gemini record altitude (739.2 miles) reached using Agena propulsion after first-revolution rendezvous and docking; Gordon fastened Agena-anchored tether to Gemini docking bar, and spacecraft later made two revolutions of Earth in tethered configuration; Gordon 33-minute EVA and 2-hour 5-minute standup EVA; 44 revs; 1.5 miles, USS Guam (A).</td>
</tr>
<tr>
<td>Gemini-Titan XII</td>
<td>Lovell, Aldrin</td>
<td>Nov. 11 to 15, 1966</td>
<td>94:34:31</td>
<td>Final Gemini flight; Aldrin logged 2-hour 29-minute standup EVA, 55-minute standup EVA, and 2-hour 6-minute EVA for Gemini record total of 5 hours 30 minutes of extravehicular activity; 59 revs; 2.6 miles, USS Wasp (A).</td>
</tr>
<tr>
<td>Apollo-Saturn 7</td>
<td>Schirra, Eisele, Cunningham</td>
<td>Oct. 11 to 22, 1968</td>
<td>260:09:03</td>
<td>First manned flight of Apollo spacecraft command-service module only, 163 revolutions; USS Essex (A) – all Apollo spacecraft splashed down within 10 miles of predicted landing point.</td>
</tr>
<tr>
<td>Apollo-Saturn 8</td>
<td>Borman, Lovell, Anders</td>
<td>Dec. 21 to 27, 1968</td>
<td>147:00:42</td>
<td>First flight to the Moon (command-service module only); views of lunar surface televised to Earth; 10 revolutions of the Moon; USS Yorktown (P).</td>
</tr>
<tr>
<td>Apollo-Saturn 9</td>
<td>McDivitt, Scott, Schweickart</td>
<td>March 3 to 13, 1969</td>
<td>241:00:54</td>
<td>First manned flight of lunar module; spacecraft call signs for communications identification when undocked: CSM &quot;Gumdrop&quot; and LM &quot;Spider&quot;; Schweickart 37-minute EVA from LM; 151 revs; USS Guadalcanal (A).</td>
</tr>
<tr>
<td>Apollo-Saturn 10</td>
<td>Stafford, Young, Cernan</td>
<td>May 18 to 26, 1969</td>
<td>192:03:23</td>
<td>First lunar module orbit of Moon; call signs Charlie Brown and Snoopy; 31 revs of Moon (4 revs by undocked LM); USS Princeton (P).</td>
</tr>
<tr>
<td>Apollo-Saturn 11</td>
<td>Armstrong, Collins, Aldrin</td>
<td>July 16 to 24, 1969</td>
<td>195:18:35</td>
<td>First lunar landing; call signs Columbia and Eagle; lunar stay time 21 hours 36 minutes 21 seconds, Armstrong and Aldrin EVA (hatch open to hatch close) 2 hours 31 minutes 40 seconds, lunar surface samples 48.5 pounds; 30 revs; USS Hornet (P).</td>
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<tr>
<td>Apollo-Saturn 12</td>
<td>Conrad, Gordon, Bean</td>
<td>Nov. 14 to 24, 1969</td>
<td>244:36:25</td>
<td>Yankee Clipper and Intrepid; stay time 31 hours 31 minutes, Conrad and Bean EVAs 3 hours 56 minutes and 3 hours 49 minutes, lunar samples 74.7 pounds plus parts from Surveyor 3 unmanned spacecraft; 45 revs; USS Hornet (P).</td>
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<tr>
<td>Apollo-Saturn 13</td>
<td>Lovell, Swigert, Haise</td>
<td>Apr. 11 to 17, 1970</td>
<td>142:54:41</td>
<td>Odyssey and Aquarius; mission aborted after service module oxygen tank ruptured; using lunar module oxygen and power until just before reentry, crew returned safely to Earth; USS Iwo Jima (P).</td>
</tr>
<tr>
<td>Apollo-Saturn 15</td>
<td>Scott, Worden, Irwin</td>
<td>July 26 to Aug 7, 1971</td>
<td>295:11:53</td>
<td>Endeavour and Falcon; first use of lunar roving vehicle; stay time 66:55; Scott standup EVA 33 minutes, Scott and Irwin EVAs 6:33, 7:12 and 4:50, Worden trans-Earth EVA 38 minutes, samples 170 pounds; 74 revs; USS Okinawa (P).</td>
</tr>
<tr>
<td>Apollo-Saturn 16</td>
<td>Young, Mattingly Duke</td>
<td>April 16 to April 27, 1972</td>
<td>265:51:05</td>
<td>Casper and Orion; stay time 71:02; Young and Duke EVAs 7:11, 7:23 and 5:40, Mattingly trans-Earth EVA 1:24, samples 213 pounds; 64 revs; USS Ticonderoga (P).</td>
</tr>
<tr>
<td>Apollo-Saturn 17</td>
<td>Cernan, Evans, Schmitt</td>
<td>Dec. 7 to Dec. 19, 1972</td>
<td>301:51:59</td>
<td>America and Challenger; stay time 75:00; Cernan and Schmitt EVAs 7:12, 7:37 and 7:15, Evans trans-Earth EVA 1:06, samples 243 pounds; 75 revs; USS Ticonderoga (P).</td>
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<td>MISSION</td>
<td>CREW</td>
<td>DATE</td>
<td>DURATION</td>
<td>DESCRIPTION</td>
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<tr>
<td>Skylab 2</td>
<td>Conrad</td>
<td>May 25 to</td>
<td>672:49:49</td>
<td>First U.S. manned orbiting space station mission; crew deployed solar shield; released stuck solar panel. These repair activities permitted manned operations of the Orbital Workshop after meteoroid shield was damaged and torn off during boost. Data obtained on 46 of 55 experiments. Crew performed 3 space walks totaling 5 hours, 41 minutes.</td>
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<td></td>
<td>Kerwin</td>
<td>June 22, 1973</td>
<td>(28 days)</td>
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<td>Weitz</td>
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<tr>
<td>Skylab 3</td>
<td>Bean</td>
<td>July 28 to</td>
<td>1427:09:04</td>
<td>Crew performed systems and operational tests, deployed new solar shield, replaced rate gyros. Crew substantially exceeded pre-mission plans for scientific activities. Performed three space walks totaling 13 hours, 44 minutes.</td>
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<td></td>
<td>Garriott</td>
<td>Sept. 25, 1973</td>
<td>(59 days)</td>
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<td>Lousma</td>
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<td>Skylab 4</td>
<td>Carr</td>
<td>Nov. 16, 1973</td>
<td>2017:16:30</td>
<td>Final Skylab manned visit; longest flight of men in space. Crew replenished coolant supplies, repaired antenna, made observations of Comet Kohoutek. Crew performed four space walks totaling 22 hours, 21 minutes. Set record for space walk duration -- 7 hours, 1 minute.</td>
</tr>
<tr>
<td></td>
<td>Gibson</td>
<td>to Feb. 8, 1974</td>
<td>(84 days)</td>
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<td>Pogue</td>
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