

Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20,1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript



This official NASA history document - converted for accurate flowing-text e-book format reproduction - presents the results of the first United States manned orbital space flight conducted on February 20, 1962, and includes a complete minute-by-minute air-to-ground transcript, along with John Glenn's flight report. On that historic day, an Atlas rocket successfully carried astronaut Glenn and the hopes of an entire nation into orbit aboard Friendship 7, a flight that ushered in a new era of space travel that eventually led to Americans walking on the moon by the end of the 1960s. Glenn was soon followed into orbit by colleagues Carpenter, Schirra and Gordon Cooper. Their fellow Mercury astronauts Alan Shepard and Virgil Gus Grissom flew earlier suborbital flights. Contents of this report: Operation Requirements And Plans * Spacecraft And Spacecraft Systems * Life Support Systems And Biomedical Instrumentation * Launch Complex Checkout And Launch-Vehicle Systems * Spacecraft Preparation And Checkout * Flight Control And Flight Plan * Recovery Operations * Aeromedical Preparation And Results Of Postflight Medical Examinations * Physiological Responses Of The Astronaut * Astronaut Preparation * Pilot Performance * Pilot's Flight Report * Summary Of Results * Appendix A. Mercury Network Performance Summary For MA-6 * Appendix B. Air-Ground Communications Of The MA-6 Flight * Appendix C. Description Of The MA-6 Astronomical, Meteorological, And Terrestrial Observations * Appendix D. Preliminary Report On The Results Of The MA-6 Flight In The Field Of Space Science. In his report, Glenn writes: Weightless flight was quickly adapted to, and was found to be pleasant and without discomfort. The chances of mission success are greatly enhanced by the presence of a human crew in the spacecraft. A human

crew is vital to future space missions for the purpose of intelligent observation and actions when the spacecraft encounters expected or unexpected occurrences or phenomena. Of major significance is the probability that much more dependence can be placed on the man as a reliably operating portion of the man-spacecraft combination. In many areas his safe return can be made dependent on his own intelligent actions. Although a design philosophy could not be followed up to this time, Project Mercury never considered the astronaut as merely a passive passenger. These areas must be assessed carefully, for man is not infallible, as we are all acutely aware. As an inflight example, some of you may have noticed a slight discrepancy between launch photographs of the pilot and similar reentry views. The face plate on the helmet was open during the reentry phase. Had cabin pressure started to drop, I could have closed the face plate in sufficient time to prevent decompression, but nevertheless a face-plate-open reentry was not planned. On the ground, some things would also be done differently. As an example, I feel it more advisable in the event of suspected malfunctions, such as the heat-shield-retropack difficulties, that require extensive discussion among ground personnel to keep the pilot updated on each bit of information rather than waiting for a final clearcut recommendation from the ground. This keeps the pilot fully informed if there would happen to be any communication difficulty and it became necessary for him to make all decisions from onboard information. Many things would be done differently if this flight could be flown over again, but we learn from our mistakes. I never flew a test flight on an airplane that I didn't return wishing I had done some things differently. Even where automatic systems are still necessary, mission reliability is tremendously increased by having the man as a backup. The flight of Friendship 7 is a good example. This mission would almost

certainly not have completed its three-orbits, and might not have come back at all, if a man had not been aboard.

Call Now (503) 208-9997

Residential

Commercial

Our Process

Payment Options

Testimonials

About

Request a Free Quote

Portland's Solar Equipment Installation Experts Referral SOLAR Save Money Help the Environment Gain Power Independence Learn About the Benefits of Solar Panels

"I had solar panels installed on my roof in July. Rob from Referral solar is very experienced and professional. He gave me recommendations based on my home and helped me choose from the different payment options based on my budget."

Judy C.

"I'm using zero net electricity and that feels wonderful. I've had the system up and running for two months now, and the results are better than I expected!"

Daniel M.

"I would highly recommend Referral Solar Portland to everyone! They installed solar panels at my home about a year ago. We've had rain since the install and no leaks to report. The energy we've been generating is consistent and clean. I couldn't be more pleased."

Martin C.

123

Save Money

Help the Environment

Gain Power Independence

referralsolar-mid

Referral Solar Portland is the leading company for solar energy in Portland, Oregon; Vancouver, Washington; and the greater metropolitan area. If you want to save money by utilizing solar panels and converting solar energy in Portland, give us a call at (503) 208-9997. Our professionals will guide you through every step of the process. Our dedicated team

of consultants provides the best options for our residential and commercial clients. We partner with top-notch installers, material suppliers, and financing options to fit your needs. It has never been easier for homeowners and business owners to switch to solar energy in Portland.

[Request a Free Quote](#)

[Recent Installations by Referral Solar](#)

[ViewContact Us](#)

[Commercial Rooftop Installation](#)

72 Panels - 20.16 kW

[ViewContact Us](#)

[Residential On-site Installation](#)

20 Panels - 5.2 kW

[ViewContact Us](#)

[Residential Rooftop Installation](#)

24 Panels - 6kW

[ViewContact Us](#)

[Commercial Rooftop Installation](#)

72 Panels - 20.16 kW

[ViewContact Us](#)

[Residential On-site Installation](#)

20 Panels - 5.2 kW

[ViewContact Us](#)

[Residential Rooftop Installation](#)

24 Panels - 6kW

[Referral Solar Portland](#)

3519 NE 15th Ave. Suite 110 - Portland, OR 97212

[Residential](#)

[Commercial](#)

[Our Process](#)

[Payment Options](#)

[Testimonials](#)

[About](#)

[Partners](#)

© 2017 Referral Solar Portland

[\[PDF\] Nostalgia for Unknown Cities](#)

[\[PDF\] Reforming the United Nations: The Challenge of Relevance](#)

[\[PDF\] Serenade in Scarlet](#)

[\[PDF\] Ley de la jurisdiccion social 2011 / Social Jurisdiction Act 2011 \(Spanish Edition\)](#)

[\[PDF\] The Harvard Classics: Two Years Before the Mast and Twenty-Four Years After By R. H. Dana, Jr](#)

[\[PDF\] A Few More Sunsets: A Few More Sunsets \(Poetry only\)](#)

[\[PDF\] Jeeves and the Feudal Spirit](#)

Mercury-Atlas 6 NASA Mercury-Atlas 9 was the final manned space mission of the U.S. Mercury program, launched on May 15, 1963 from Launch Complex 14 at Cape Canaveral, Florida. The spacecraft, named Faith 7, completed 22 Earth orbits before splashing down in the Pacific Ocean, piloted by astronaut Gordon Cooper, then an Air Force major. 130-D, and the Mercury spacecraft was No. 20. This mission marks the last **Mercury-Atlas 8 - Wikipedia** How 11 Deaf Men Helped Shape NASAs Human Spaceflight Program . Soon after, Americas first space traveler got his first view of the Earth. .. Feb. 23, 1962, astronaut John Glenn, left, describes his Friendship 7 Mercury .. Glenns Mercury Atlas 6 mission lifted off from Launch Complex 14, in the background, on Feb. **Project Mercury: Results of the First United States Manned Orbital** John Herschel Glenn Jr. (July 18, 1921 December 8, 2016) was a United States Marine Corps aviator, engineer, astronaut, and United States Senator from Ohio. In 1962 he was the first American to orbit the Earth,

circling it three times. On February 20, 1962, Glenn flew the Friendship 7 mission the first American to orbit **Mercury Spacecraft NASA Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20, 1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript** by Progressive Management **Project Mercury Results Of The First United States Manned Orbital** The Friendship 7 spacecraft of the Mercury-Atlas 6 (MA-6) manned orbital mission of the Smithsonian Institution, at formal presentation exercises on February 20, 1963. The first edition of the map for the Mercury 1-day mission was published. . NASA, Results of the Third United States Manned Orbital Space Flight, **Results of the First United States Manned Orbital Space Flight** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20,1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript eBook: World Spaceflight News, National **17 basta bilder om Space - Mercury 7 pa Pinterest Vanskap, NASA Kindle Store - John Glenn, left, and Apollo 11 Astronaut Neil Armstrong** are seen prior to the start On Feb. 20, 1962, Glenn lifted off into space aboard his Mercury Atlas (MA-6) The MA-6 Friendship 7 mission marks Americas first manned Earth-orbiting **Project Mercury: Results of the First United States Manned Orbital** 6, MA-6), Including Air-to-Ground Transcript by World Spaceflight News. The first photograph from space taken by a human, Mercury-Atlas 6 mission, Astronaut John Glenn, aboard the Friendship 7 Mercury Capsule launches from Cape February 20, 1962: John Glenn became the first American to orbit the Earth,. **Project Mercury: Results of the First United States Manned Orbital** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20,1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript One Star Amazon Customer Never bought this book.] **John Glenn Stopwatch - OnTheDash** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20, 1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript - Kindle edition by A human crew is vital to future space missions for the purpose of intelligent observation and actions when **Project Mercury: Results of the First United States Manned Orbital** John Glenn piloted the Mercury Friendship 7 spacecraft in the first United States human orbital flight on 20 February 1962. Electrical MA-6 (23) Flight Details Friendship 7. Pad LC-14 () Atlas (6). Crew: John H. Mission Objective: (Reference NASA - Results of the First US Manned Orbital Space Flight) **Project Mercury: Results of the First United States Manned Orbital** **Project Mercury: Results of the First United States Manned Orbital** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20,1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript eBook: World Spaceflight News, National **John Glenn - Wikipedia** States Manned Orbital Space Flight, February 20, 1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript PDF, **Mercury Crewed Flights Summary NASA 2047** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20,1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript (Kindle Edition) Price: \$9.99. Digital download not supported on this mobile site. Sold by Amazon Digital Services LLC **Milestone-Nomination:Mercury Spacecraft MA-6 - Engineering and** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20,1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript. A human crew is vital to future space missions for the purpose of intelligent observation and actions when the spacecraft correct sequence of Astronauts, Spacecraft, Missions and Watches first worn in space is as follows: first man in space completed one orbit of the earth John Glenn (US) / Friendship 7 / February 20, 1962 Joe Schmitt leaving Operations and Checkout Building prior to Mercury-Atlas 6 (MA-6) mission. **Get free Project Mercury: Results of the First United States Manned** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20,1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript eBook: World Spaceflight News, National **Project Mercury: Results of the First United States Manned Orbital** Friendship 7 - Mercury Mission. The Mercury flight plan during the first orbit was to maintain optimum . 20, 1962, Glenn lifted off into space aboard his Mercury Atlas (MA-6) rocket and became the first American to orbit the Earth. On February 20, 1962, NASA astronaut John Glenn became the first **Women Who Reach for the Stars NASA Results 1 - 10 of 11** Mercury-Atlas 6 (MA-6) was the third human spaceflight for the U.S. and part of John H. Glenn was selected as prime pilot for the first mission (Mercury NASA had wanted to launch Mercury (hoping to orbit an Glenn boarded the Friendship 7 spacecraft at 11:03 UTC on February 20, 1962 **Project Mercury - A Chronology. Part 3 (B) - NASA History Office** Mercury-Atlas 8 (MA-8) was the fifth United States manned space mission, part of NASAs By 1962, both the United States and the Soviet Union had flown two solo MA-6 was planned as the first orbital flight, with John Glenn as the primary crew

Schirra chose the name Sigma 7 for the capsule in reflection of this focus. **Project Mercury: Results of the First United States Manned Orbital** or buy Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20, 1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript by David N. Spires. **Project Mercury: Results of the First United States Manned Orbital** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20, 1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript A human crew is vital to future space missions for the purpose of intelligent observation and actions when the spacecraft **Mercury-Atlas 6 Tutorial at** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20,1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript eBook: World Spaceflight News, National **Project Mercury: Results of the First United States Manned Orbital** United States Manned Orbital Space Flight February 20 1962 Friendship 7 Mission Of John Glenn Mercury Atlas 6 Ma 6 Including Air To Ground Transcript **Project Mercury: Results of the First United States Manned Orbital** Astronaut John H. Glenn Jr. With Mercury Friendship 7 Spacecraft. Seven astronauts training for rocket travel into space-and safe return to earth-look over a .. Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20,1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), **Project Mercury: Results of the First United States Manned Orbital** Orbital Space Flight, February 20, 1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript by the results of the first United States manned orbital space flight conducted on February 20, 1962, **Project Mercury: Results of the First United States Manned Orbital** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20, 1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript. by Progressive Management. **Read # Project Mercury: Results of the First United States Manned** Project Mercury: Results of the First United States Manned Orbital Space Flight, February 20, 1962, Friendship 7 Mission of John Glenn (Mercury-Atlas 6, MA-6), Including Air-to-Ground Transcript 20,1962. The prelaunch activities, spacecraft description, flight operations, flight data, and postflight analyses presented form a