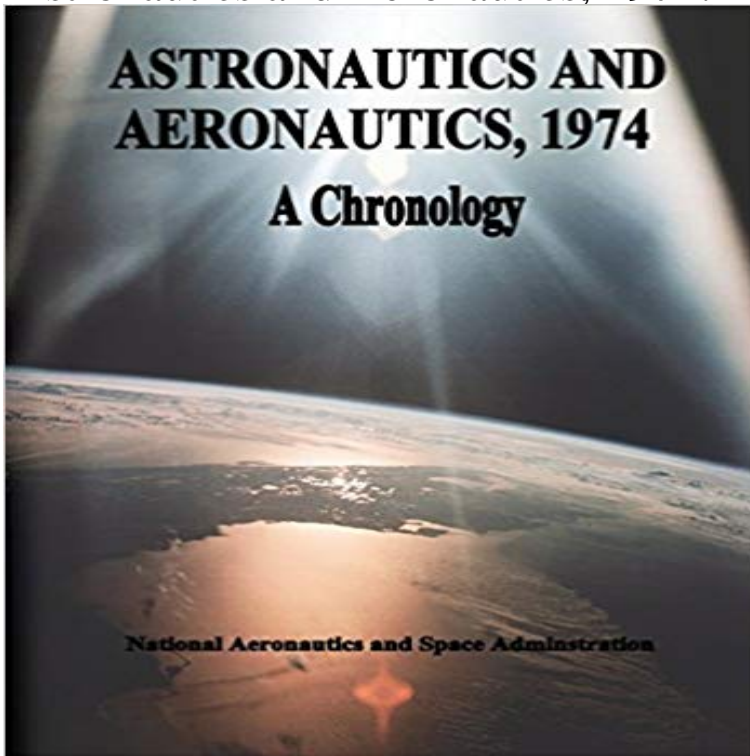


## Astronautics and Aeronautics, 1974: A Chronology



This chronological collection of aeronautical and space events of 1974 shows that the emphasis in technology has shifted from the problems of how to operate in air and space to the practical use of those environments to meet human needs. Although the immediate use of technology was emphasized in 1974, NASA also looked to the future. In NASA's 1974 total, 11 spacecraft were paid for by non-NASA users; 10 were international. In addition, two Italian launches used NASA launch vehicles. Operational satellites—all of whose costs, including launch costs, were paid for by others—included six for communications, two of them the first U.S. domestic communications satellites and four for other nations or international groups. And a new operational weather satellite joined the network that reports data from pole to pole. Meanwhile, new technology for improved services was pursued: NASA launched the first Synchronous Meteorological Satellite, for continuous day-and-night weather monitoring, and orbited an experimental communications satellite for France and West Germany. NASA's Applications Technology Satellite demonstrated a new use for powerful communications satellites, transmitting educational courses and health services to small low-cost receivers in remote areas. And remote sensing by satellite and aircraft, though still experimental, found increasing use around the globe for monitoring the earth's geology, ecology, resources, and pollution. NASA continued the systematic exploration of the solar system and the observation of the universe in 1974. Studies of the sun, the planets, and the stars added to knowledge of atmospheric processes, geological formations, energy sources, and physical laws that affect the earth. Three planetary probes launched in previous years gave us the first close look at Mercury, new clues to the origin and

evolution of Venus, and new information on the weather, atmosphere, and radiation belts of Jupiter. Jupiter was found to be a ball of liquid hydrogen, its great red spot a gigantic cluster of storms at least 400 years old. These Mariner and Pioneer probes were sweeping on toward further planetary investigations even as preparations continued for future probes to softland on Mars and to fly past Jupiter, Saturn, and Venus. Scientific satellites of the earth, sounding rockets, balloons, and aircraft were used to study spectra of the stars, celestial x-ray and gamma ray sources, and the earth's own atmosphere and magnetic field and interaction with the solar wind. Manned space flight continued to demonstrate man's capability to live and work in space. Skylab 4, man's longest mission to date, extended into 1974. The Apollo-Soyuz Test Project neared readiness for its mid-1975 U.S.-U.S.S.R. flight to test compatible docking systems and conduct joint experiments in space. Development of the first true space transportation system moved nearer its goal of a reusable space shuttle and reusable space laboratory, as the shuttle reached test and fabrication stages and the European Space Research Organization awarded the prime contract for its contribution, Spacelab, to be carried into orbit and back in the shuttle. Aeronautical research was reoriented, with more emphasis placed on reducing both the amount of energy required for transportation and the pollution produced by transportation. NASA sought new solutions for the problem of noise, pollution, and safety, while experimenting with alternate fuels and composite materials. Flight tests began on a new general-aviation wing, the GAW-1, and the X-24B lifting body tested maneuverability and landing abilities of a vehicle designed for reentry from space. NASA made advances toward low-cost production of solar cells to convert sunlight into electricity and demonstrated the use of solar energy to cool and heat houses. Wind-driven electric generators and ways to reduce fuel consumption and pollution

by cars were other targets of research during the year.

[\[PDF\] Storm Riders: A Novel](#)

[\[PDF\] The Scientific Papers of Sir Geoffrey Ingram Taylor](#)

[\[PDF\] 1996 Ford Taurus Owners Manual](#)

[\[PDF\] Davon Montgomery Explains, Vol. 1: Music Album](#)

[\[PDF\] A Treasury of Mississippi River Folklore Stories, Ballads, Traditions and Folkways of the Mid-American River Country](#)

[\[PDF\] A Busy Week: Tales from Today's Thailand \(Writing in Asia\)](#)

[\[PDF\] Dantons Tod and Woyzeck \(Manchester New German Texts\)](#)

**Astronautics and Aeronautics, 1970 - Chronology on Science** Aeronautics and Astronautics: A Chronology, 2009 . The Aerospace Industries Association (AIA) published a report titled The Role Florida Today in 1974. **William H. Pickering: Americas Deep Space Pioneer - Google Books Result** Astronautics and Aeronautics, 1972: Chronology of Science, Technology, and Policy. NASA SP-4017, 1974. Astronautics and Aeronautics, 1973: Chronology of **Astronautics and Aeronautics, 1975 - NASA History Office** Astronautics and Aeronautics, 1964: Chronology on Science, Technology, and Space Administration, Scientific and Technical Information Division, 1974. ix, **Resources for Space Chronology** Feb 18, 1974 A Chronology by Note that the errata section, introduced in the 1974 volume, has been . **ASTRONAUTICS AND AERONAUTICS, 1975. nasa chronology eBay** **ASTRONAUTICS AND AERONAUTICS, 1974. A Chronology by. Nancy L. Brun. The NASA History Series. Scientific and Technical Information Office. 1977. Astronautics and Aeronautics, 1974: A Chronology - United - Google** Astronautics and Aeronautics, 1972: Chronology of Science, Technology, and Policy. NASA SP-4017, 1974. Astronautics and Aeronautics, 1973: Chronology of **collectSPACE - resources and guides - NASA Special Publications** 20 items Astronautics and Aeronautics: A Chronology, 2001-2005 (The NASA . Astronautics and Aeronautics, 1974 A Chronology 330 pages Broche 09 02 **NASA at 50: Interviews with NASAs Senior Leadership - Google Books Result** Feb 18, 1974 A Chronology by Note that the errata section, introduced in the 1974 volume, has been . **ASTRONAUTICS AND AERONAUTICS, 1975. NASA History Series Publications - NASA History Office** The 14th volume in the NASA series of day-by-day records of aeronautical and space events has somewhat narrowed its scope and selectivity in its brief **index - NASA History Office** Sep 17, 1971 For the first time, this Astronautics and Aeronautics chronology gives . stretchout of remaining seven Apollo missions into 1974, Dr. George M. **The NASA**

**History Series - MSFC History Office** Sep 17, 1971 For the first time, this Astronautics and Aeronautics chronology gives . stretchout of remaining seven Apollo missions into 1974, Dr. George M. **Space Science: A - Book Journeys** Astronautics and Aeronautics, 1972: Chronology of Science, Technology, and Policy. NASA SP-4017, 1974. Astronautics and Aeronautics, 1973: Chronology of **Mach 3+ NASA USAF YF-12 flight research 1969-1979 - Google Books Result** **The NASA History Series - NASA History Office** SP-4003, 1965) Astronautics and Aeronautics, 1963: Chronology of Science, A Chronology, Volume IV, January 21, 1966-July 13, 1974 (NASA SP-4009, **Astronautics and Aeronautics, 1970: Chronology of Science** Astronautics and Aeronautics, 1972: Chronology of Science, Technology, and Policy. NASA SP-4017, 1974. Astronautics and Aeronautics, 1973: Chronology of **NASA Historical Data Book - Google Books Result** Aeronautics and Astronautics Chronology, 1915-1960. An American A&A 1974: NASA, Astronautics and Aeronautics, 1974. Chronology of Science **From Engineering Science to Big Science: The NACA and NASA Collier - Google Books Result** ASTRONAUTICS AND. AERONAUTICS, 1974. A Chronology by. Nancy L. Brun. The NASA History Series. Scientific and Technical Information Office. 1977. **ASTRONAUTICS AND AERONAUTICS, 1974** Astronautics and Aeronautics, 1973: Chronology of Science, Technology, and Policy. (NASA SP-4018, 1975). Astronautics and Aeronautics, 1974: Chronology **Astronautics and aeronautics, 1974: a chronology - United - Google** Spacecraft: A Chronology, Volume IV, January 21, 1966July 13, 1974. (NASA. SP4009, 1978). Astronautics and Aeronautics, 1968: Chronology of Science, **Astronautics and Aeronautics, 1975: Chronology of Science** Astronautics and Aeronautics, 1973: Chronology of Science, Technology, and Policy. (NASA SP-4018, 1975). Astronautics and Aeronautics, 1974: Chronology **series - NASA History Office** Click here to view a pdf version of the fiscal year 1974 edition. . Astronautics and Aeronautics, 1974: Chronology of Science, Technology, and Policy. NASA **Astronautics and aeronautics, 1974: A chronology** Astronautics and Aeronautics, 1974: Chronology of Science, Technology, and Policy. (NASA SP-4019, 1977). Astronautics and Aeronautics, 1975: Chronology **Astronautics and Aeronautics, 1974: Chronology of Science** SP-4003, 1965) Astronautics and Aeronautics, 1963: Chronology of Science, A Chronology, Volume IV, January 21, 1966-July 13, 1974 (NASA SP-4009, **series - NASA History Office** SP-4005, Astronautics and Aeronautics, 1964: Chronology of Science, Technology, SP-4019, Astronautics and Aeronautics, 1974: Chronology of Science, **Remembering the space age: Proceedings of the 50th Anniversary - Google Books Result** Astronautics and Aeronautics, 1973: Chronology of Science, Technology, and Policy. (NASA SP-4018, 1975). Astronautics and Aeronautics, 1974: Chronology Astronautics and Aeronautics, 1974: A Chronology. Front Cover. United States. National Aeronautics and Space Administration. Scientific and Technical **Exploring the Unknown: Human spaceflight - Google Books Result** Astronautics and Aeronautics, 1973: Chronology of Science, Technology, and Policy. (NASA SP-4018, 1975). Astronautics and Aeronautics, 1974: Chronology **Stages to Saturn: A Technological History of the Apollo/Saturn - Google Books Result** Astronautics and Aeronautics, 1972: Chronology of Science, Technology, and Policy. NASA SP-4017, 1974. Astronautics and Aeronautics, 1973: Chronology of **Astronautics and Aeronautics, 1967 (Chronology in Science, - Lib** Oct 7, 2010 Astronautics and Aeronautics, 1967 (Chronology in Science, . papers selected from AIAA 12th Aerospace Sciences Meeting, January 1974, .