

NASA Facts

National Aeronautics and
Space Administration

Washington, D.C.
20546

SPACE STATION ATTACHED PAYLOAD PRINCIPAL AND CO-INVESTIGATORS

Investigations selected for flight:

Principal Investigator (PI): Robert M. Walker, McDonnell Center for the Space Sciences, Washington University, St. Louis, Mo., Cosmic Dust Experiment; Co-Investigators (Co-I): E. Zinner and C. Simon, Washington University, St. Louis, Mo.; A. Tuzzolino and J. Simpson, University of Chicago.

PI: Michael Fitzmaurice, Goddard Space Flight Center, Greenbelt, Md., Laser Communications Transceiver.

PI: Paul Gorenstein, Smithsonian Astrophysical Observatory, Cambridge, Mass., Large Area Modular Array of Reflectors (High Throughput X-Ray Astronomy Instrument); Co-I: D. Fabricant, Smithsonian Astrophysical Observatory, Cambridge, Mass.; S. Kahn and C. McKee, University of California, Berkeley; M. Wiesskopf, Marshall Space Flight Center, Huntsville, Ala.; R. Rosner, University of Chicago.

PI: Thomas A. Parnell, Marshall Space Flight Center, Huntsville, Ala., Spectra, Composition, and Interactions of Nuclei above 10 TeV (Astromag experiment); Co-I: J. Wefel, Louisiana State University, Baton Rouge; R. Wilkes, University of Washington, Seattle; J. Gregory, University of Alabama, Huntsville; T. Ogata, University of Tokyo, Japan.

PI: Jonathan F. Ormes, Goddard Space Flight Center, Greenbelt, Md., Large Isotope Spectrometer for Astromag; Co-I: I. Rasmussen, Danish Space Research Institute, Denmark; J. Klarmann, Washington University, St. Louis, Mo.; M. Wiedenbeck, University of Chicago; R. Mewaldt, California Institute of Technology, Pasadena; R. Streitmatter, Goddard Space Flight Center, Greenbelt, Md.

PI: Glenn C. Carle, Ames Research Center, Moffett Field, Calif., Exobiology Intact Capture Experiment; Co-I: M. Fonda and D. Blake, SETI Institute, Mountain View, Calif.; T. Bunch, Ames Research Center, Moffett Field, Calif.; B. Clark, Martin Marietta Astronautics Group, Denver, Colo.; P. Tsou, Jet Propulsion Laboratory, Pasadena, Calif.; J. Cronin, Arizona State University, Tempe; J. Hayes, Indiana University, Bloomington; J. Kerridge, University of California, Los Angeles.

PI: Siegfried Auer, Applied Research Corporation, Landover, Md., Cosmic Dust Orbit and Capture Experiment; Co-I: O. Berg, University of Maryland, College Park; D. Brownlee, University of Washington, Seattle; G. Flynn, State University of New York, Plattsburgh; E. Grun, Max Planck Institute fur Kernphysik, West Germany; J. Iwanczyk, University of Southern California, Los Angeles; F. von Bun, Applied Research Corporation, Landover, Md.; H. Zook, Johnson Space Center, Houston.

PI: Robert L. Golden, Particle Astrophysics Laboratory, New Mexico State University, Las Cruces, Measurement of Cosmic Rays including Anti-protons, Positrons, Anti-nuclei and a Search for Primordial Antimatter, Astromag experiment; Co-I: S. Ahlen, Boston University; H. Crawford, University of California, Berkeley; J. Ormes, Goddard Space Flight Center, Greenbelt, Md.; C. Bower, Indiana State University, Terra Haute; T. Guzik, Louisiana State University, Baton Rouge; S. Stephens, New Mexico State University, Las Cruces; J. Adams, Naval Research Laboratory, Washington, D.C.; M. Simon, University of Siegen, West Germany; C. De Marzo, Italian Institutions (various).

PI: Arthur B. Walker Jr., Center for Space Science and Astrophysics, Stanford University, Calif., Ultra-High Resolution XUV Spectroheliograph; Co-I: R. Hoover, Marshall Space Flight Center, Huntsville, Ala.; T. Barbee, Lawrence Livermore National Laboratory, Lawrence, Calif.; J. Timothy, Stanford University, Calif.; S. Antiochos, Naval Research Laboratory, Washington, D.C.; S. Wu, University of Alabama, Huntsville; D. Sime, High Altitude Observatory, Boulder, Colo.

PI: Dr. Wilton T. Sanders III, Space Science and Engineering Center, University of Wisconsin at Madison, X-ray Background Survey Spectrometer; Co-I: Dan McCammon, William L. Kraushaar and Richard J. Edgar, University of Wisconsin at Madison.

PI: Dr. P. Buford Price, Space Science Laboratory, University of California, Berkeley, Heavy Nucleus Collector; Co-I: Gregory Tarle, University of Michigan, Ann Arbor; Michael H. Salaman, University of Utah, Salt Lake City; Dr. William H. Kinard, Langley Research Center, Hampton, Va.

Investigations selected for concept study:

PI: Peter M. Banks, STAR Laboratory, Department of Electrical Engineering, Stanford University, Calif., Plasma Interactions Experiment; Co-I: P. Bernhardt, Naval Research Laboratory, Washington, D.C.; D. Hardy, Air Force Geophysics Laboratory, Bedford, Mass.; S. Mende, Lockheed Palo Alto Research Laboratory, Calif., W. Raitt, Utah State University; A. Drobot, Science Applications International Corp., McLean, Va., D. Hastings, Massachusetts Institute of Technology, Cambridge; M. Kelley, Cornell University, Ithaca, N.Y.; D. Reasoner, Marshall Space Flight Center, Huntsville, Ala.; L.R.O. Storey, Stanford University, Calif.

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PI: Michael Shao, Optical Sciences and Applications Section, Jet Propulsion Laboratory, Pasadena, Calif., Orbiting Stellar Interferometer; Co-I: Charles Beichman, Jet Propulsion Laboratory, Pasadena, Calif.; B. Burke, Massachusetts Institute of Technology, Cambridge; J. Hughes, Naval Observatory, Washington, D.C.; S. Kulkarni, California Institute of Technology, Pasadena; K. Johnston, Naval Research Laboratory, Washington, D.C.; E. Kibblewhite, National Optical Astronomical Observatory, Arizona; H. McAlister, Georgia State University, Atlanta; P. Nisenson, Harvard/Smithsonian Center for Astrophysics, Cambridge, Mass.

PI: Robert D. Reasenberg, Smithsonian Astrophysical Observatory, Cambridge, Mass., Precision Optical Interferometry in Space Study; Co-I: R. Babcock, Smithsonian Astrophysical Observatory, Cambridge, Mass.; J. Phillips, Smithsonian Astrophysical Observatory, Cambridge, Mass.

PI: Jonathan E. Grindlay, Harvard College Observatory, Harvard-Smithsonian Center for Astrophysics Observations, Cambridge, Mass., Energetic X-ray Observatory for Space Station; Co-Is: S. Murray and F. Primini, Harvard Smithsonian Observatory, Cambridge, Mass.; Prince, California Institute of Technology, Pasadena; B. Ramsey and M. Weisskopf, Marshall Space Flight Center, Huntsville, Ala.; G. Skinner, University of Birmingham, England.

PI: Robert L. Brown, National Radio Astronomy Observatory, Charlottesville, Va., High-Resolution Imaging Spectroscopy at Tera Hertz Frequencies; Co-I: A. Kerr, National Radio Astronomy Observatory, Charlottesville, Va.

PI: Hugh S. Hudson, Center for Astrophysics and Space Sciences, University of California, San Diego, Pinhole/Occulter Facility; Co-I: C. Crannell and J. Davis, Marshall Space Flight Center, Huntsville, Ala.; A. G. Emslie, University of Alabama, Huntsville; J. Grindlay, Harvard University, Cambridge, Mass.; G. Hurford, California Institute of Technology, Pasadena; J. Kohl, Harvard/Smithsonian Center for Astrophysics, Cambridge, Mass.; R. Lin, University of California, Berkeley; R. Munro, Ball Aerospace Systems Division, Boulder, Colo.; G. Skinner, University of Birmingham, England; K. Wood, Naval Research Laboratory, Washington, D.C.

PI: Guy Fogleman, SETI Institute, Mountain View, Calif., Study to Develop an Active Collector of Cosmic Dust; Co-I: G. Carle, Ames Research Center, Moffett Field, Calif.; Benton Clark and J. Miller, Martin Marietta Astronautics Group, Denver; J. Huntington, SETI Institute, Mountain View, Calif.; D. Perkins and D. Thomas, KMS Fusion, Inc., Ann Arbor, Mich.

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Earth science investigations selected for flight:

PI: M. Patrick McCormick, Langley Research Center, Hampton, Va., Stratospheric Aerosol and Gas Experiment III; Co-I: W. P. Chu, Langley Research Center, Hampton, Va.; D. M. Cunnold, Georgia Institute of Technology, Atlanta; Benjamin M. Herman, University of Arizona, Tempe; Alvin J. Miller, NOAA National Meteorology Center, Suitland, Md.; Joseph M. Zawodny, Langley Research Center, Hampton, Va.; Philip B. Russell, Ames Research Center, Moffet Field, Calif.; David Rind, Goddard Institute for Space Studies, New York, N.Y.; Jacqueline Lenoble, Universite de Sciences et Techniques de Lille, France.

PI: Hugh Christian, Marshall Space Flight Center, Huntsville, Ala., Lightning Imaging Sensor; Co-I: Richard Blakeslee and Steven J. Goodman, Marshall Space Flight Center, Huntsville, Ala.; Douglas M. Mach, University of Alabama, Birmingham.

PI: Bruce Barkstrom, Langley Research Center, Hampton, Va., Clouds and the Earth's Radiant Energy System; Co-I: Maurice L. Blackmon, NOAA Environmental Research Laboratory, Princeton, N.J.; Robert D. Cess, State University of New York, Stonybrook.

Earth science investigations selected for concept studies:

PI: William L. Barnes, Goddard Space Flight Center, Greenbelt, Md., Tropical Region Imaging Spectrometer; Co-I: Wayne Esaias and Joel Susskind, Goddard Space Flight Center, Greenbelt, Md.

PI: Michael H. Freilich, Jet Propulsion Laboratory, Pasadena, Calif., Advanced Scatterometer for Studies in Meteorology and Oceanography; Co-I: Robert M. Atlas, Goddard Space Flight Center, Greenbelt, Md.; Peter Cornillon, University of Rhode Island, Kingston; Robert A. Brown, University of Washington, Seattle; David Halpern and Fuk Li, Jet Propulsion Laboratory, Pasadena, Calif.; Ross N. Hoffman, Atmospheric and Environmental Research, Inc., Cambridge, Mass.; David Legler, Florida State University, Tallahassee; Richard K. Moore, University of Kansas, Lawrence; James J. O'Brien, Florida State University, Tallahassee.

PI: Tiruvalam Krishnamurti, Florida State University, Tallahassee, an experiment similar to the Laser Atmospheric Wind Sounder, one of six facility instruments included in the Polar Platform proposal; Co-I: Daniel Fitzjarrald, Marshall Space Flight Center, Huntsville, Ala.

PI: William G. Melbourne, Jet Propulsion Laboratory, Pasadena, Calif., Global Positioning System Geoscience Instrument; Co-I: Thomas P. Yunck, Gunnar F. Lindal and Lawrence E. Young, Jet Propulsion Laboratory, Pasadena, Calif.; George H. Born, University of Colorado, Boulder; Bradford H. Hager, California Institute of Technology, Pasadena; Chao-Han Liu, University of Illinois, Urbana.

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PI: Gerald R. North, Texas A&M University, College Station, Tropical Rain Mapping Radar; Co-I: Fuk Li, Jeff Dozier, R. Eastwood Im, and W. Timoth Liu, Jet Propulsion Laboratory, Pasadena, Calif.; David Atlas, consultant, Bethesda, Md.; Robert Houze, University of Washington, Seattle; Tiruvalam Krishnamurti, Florida State University, Tallahassee; William K. Lau, Robert Meneghini, David Short, Joanne Simpson and Thomas Wilheit, Goddard Space Flight Center, Greenbelt, Md.; Ken'ichi Okamoto, Communications Research Laboratory, Tokyo, Japan; Jagadish Shukla, University of Maryland, College Park; Juan Valdes, Texas A&M University, College Station; Peter Webster, Pennsylvania State University, University Park; James. A Weinman, Applied Research Corporation, Landover, Md.

PI: Roy Spencer, Marshall Space Flight Center, Ala., Tropical Geophysical Information Retrieval with a High Resolution Microwave Spectrometer Sounder; Co-I: Frank J. Wentz, Remote Sensing Systems; Paul Swanson, Jet Propulsion Laboratory, Pasadena, Calif.

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June 29, 1989