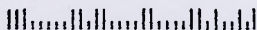


SPACE SHUTTLE  
STS-45/ATLANTIS



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## SPACE SHUTTLE (STS-45/ATLANTIS)

**STS-45 CREW INSIGNIA** — The STS-45 patch, designed by the crewmembers, depicts the Space Shuttle launching from Florida's Kennedy Space Center into a high inclination orbit. From this vantage point of 186 miles, the Atmospheric Laboratory for Applications and Science-1 (ATLAS-1) payload, mounted on two Spacelab pallets in the Shuttle payload bay, can view Earth, the Sun, and their dynamic interactions against the background of space. Earth is prominently displayed and is the focus of the mission's space plasma physics and Earth sciences observations. The colors of the setting Sun, measured by sensitive instruments, provide detailed information about ozone, carbon dioxide and other gases which determine Earth's climate and environment. Encircling the design are the names of the flight astronauts; Charles F. Bolden Jr., mission commander; Brian Duffy, pilot; Kathryn D. Sullivan, David C. Leestma and C. Michael Foale, all mission specialists; and Byron K. Lichtenberg and Dirk D. Frimout, payload specialists. The additional star in the ring is to recognize Charles Chappell and Michael Lampton, alternate payload specialists, and the entire ATLAS-1 team. The ATLAS program is a part of NASA's Mission to Planet Earth, a unified study from the deep interior to the outermost regions of Earthspace. Scientists from the United States, Belgium, France, Germany, Japan and Switzerland will conduct 12 investigations in atmospheric science, solar physics, space plasma physics and astronomy. Many of these experiments are also scheduled for later Shuttle/ATLAS missions so that the data gathered during ATLAS-1 will be among the first collected in a series of long-range studies that measure changes in the atmosphere and the Sun.