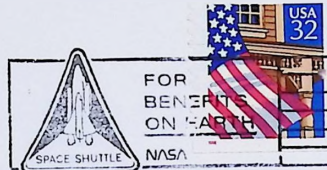


SPACE SHUTTLE
STS-82/DISCOVERY



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SPACE SHUTTLE (STS-82/DISCOVERY)

STS-82 will be the second of four planned servicing missions of the Hubble Space telescope (HST), which opened a new era in astronomy with its deployment nearly seven years ago on Mission STS-31. Four of the seven crewmembers will be divided into two teams to perform the scheduled four extravehicular activities (EVAs) or spacewalks required for the servicing mission. The primary mission objectives are to retrieve, repair and service, and then re-deploy HST. After the servicing is complete, and depending on the orbiter's available fuel, Discovery and its crew will try to boost HST to a slightly higher (1 to 5 nautical miles) altitude.

THE STS-82 CREW – Three-time space flyer Kenneth D. Bowersox, an astronaut since 1987, will lead the experienced astronaut crew as mission commander. Sitting beside Bowersox at the orbiter's controls will be Pilot Scott J. "Doc" Horowitz, a one-time shuttle veteran. The payload commander will be Mark C. Lee, a veteran of three space flights since becoming an astronaut in 1985. Joining him on the first and third spacewalks will be Mission Specialist Steven D. Smith, who joined NASA in 1989 as a payload officer and as an astronaut four years later. Mission specialists who will perform the second and fourth spacewalks are Gregory J. Harbaugh and Joseph B. "Joe" Tanner. Harbaugh, an astronaut since 1987, has flown three times in space and Tanner – a one-time shuttle veteran – became an astronaut in 1993. Veteran mission specialist astronaut Steven A. Hawley also will fly on STS-82, his fourth spaceflight.

THE STS-82 CREW INSIGNIA – The central feature of the patch for STS-82 is the Hubble Space Telescope as the crew will see it through Discovery's overhead windows as the Orbiter first approaches the orbiting telescope. The HST is pointing toward deep space, observing the cosmos. The spiral galaxy symbolizes one of HST's important scientific missions – to accurately determine the cosmic distance scale. To the right of the HST is a cross-like structure known as a gravitational lens, one of the numerous fundamental discoveries made using HST imagery. The names of the STS-82 astronauts are arranged around the perimeter of the patch with the EVA crew members placed in the upper semicircle and the Orbiter crew in the lower.