



## Crew's ISS spacewalk marks new milestones

▲ **ISS Update:** On their spacewalk last week, ISS Commander Sergei Krikalev and NASA Science Officer John Phillips changed out a Russian biological experiment (Matroshka), retrieved radiation sensors, removed a Japanese materials science experiment, photographed a Russian materials experiment, and installed a television camera.

Matroshka is a biomedical experiment collecting data on radiation absorption by crewmembers on long-duration missions, especially when spacewalking.

The 4-hour, 58-minute spacewalk by Krikalev and Phillips was the 62nd EVA in support of ISS assembly and maintenance, the 34th conducted from the Station itself, the 16th from the Pirs docking compartment.

### ▲ NASA/NOAA Announce Major Advancement In Weather

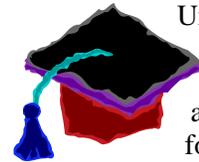


**Forecasting:** NASA and the National Oceanic and Atmospheric Administration (NOAA) today outlined research that has helped to improve the accuracy of medium-range weather forecasts in the Northern Hemisphere. NASA and NOAA scientists at the Joint Center for Satellite Data Assimilation (JCSDA) in Camp Springs, Md., came up with procedures to improve forecasting accuracy.

The scientists worked with

experimental data from the Atmospheric Infrared Sounder (AIRS) instrument on NASA's Aqua satellite. They found incorporating AIRS data into numerical weather prediction models improves the accuracy range of experimental six-day Northern Hemisphere weather forecasts by up to six hours, a four percent increase. AIRS is a high-spectral resolution infrared instrument that takes 3-D pictures of atmospheric temperatures, water vapor and trace gases. The instrument data have officially been incorporated into the NOAA National Weather Service's operational weather forecasts.

### ■ Education Opportunity — The University of Miami (Cape Canaveral Programs) is accepting applications for the Master of Science in Industrial



Engineering (MSIE) degree starting September 2005 and the Master of Science in Management of Technology (MSMOT) degree starting January 2006. Both programs will be taught in Cape Canaveral. Courses are held Friday evenings and Saturdays to accommodate working professionals. For more information and to receive an application/brochure, please call Augusto Roca, program administrator, at 305-284-4100 or send e-mail to [augusto@miami.edu](mailto:augusto@miami.edu).

## NASA research aiding weather forecasting

■ **Volunteers Needed at Florida Space 2005 Conference** — The Space Congress and Space Symposium have merged to become Florida Space 2005. This inaugural event will take place Nov. 15-17 at the KSC Visitor Complex. This year's theme is "Launching New Opportunities." Conference information is available at <http://www.floridaspace.org>.

The conference is being managed by The Space Foundation in association with NASA KSC, the U.S. Air Force 45th Space Wing, Florida Space Authority, and the Canaveral Council of Technical Societies. The local chapter of the National Space Society has agreed to serve as the source for volunteers. Volunteer tasks range from working at the registration desk to coordinating speakers and sponsors. If you are interested in volunteering, please contact Jack Fox at [jack.j.fox@nasa.gov](mailto:jack.j.fox@nasa.gov) or 867-4413.

■ **NASA Science** — How do you get plants to grow on Mars? Step one: relieve their anxiety. Read the full story at the Web site [http://science.nasa.gov/headlines/y2005/05aug\\_nostress.htm?list29875](http://science.nasa.gov/headlines/y2005/05aug_nostress.htm?list29875).

■ **Did You Know?** You can learn about security awareness on NASA channel 60. Every Wednesday, between 11:30 a.m. and 12:30 p.m., channel 60 airs various security education and/or anti-terrorism films. Please take some time on Wednesdays to view these.