



Human Space Exploration Update (July 28 – August 1, 2014)

Congress

- **Prospects for NASA Authorization Bill:** [Bolden skeptical about prospects for NASA authorization bill this year](#) With Congress prepared to recess until September, NASA Administrator Charles Bolden expects to enter the 2015 fiscal year on Oct. 1 under a budget continuing resolution rather than with the proposed increased budget. Soaring expectations for a new authorization measure, NASA's first since 2010, have faded as well. The House has addressed both the budget and authorization; but Senate action has stalled.

International Space Station

- **3-D Printing:** [New tool for space exploration: On board 3-D printer](#) Silicon Valley based Made in Space Inc's 3-D printer is manifested to fly to the International Space Station in September. Tests could advance new technologies for manufacturing equipment parts on deep space missions, recycling old components and perhaps building structures too difficult to launch.

Orion and Space Launch System

- **Orion Launch Orbit System:** [Orion launch abort system rotated to vertical](#) NASA and its contractors advance toward the first space test flight of the Orion Multi-Purpose Crew Vehicle in December. The Dec. 4 two orbit uncrewed test flight will expose Orion to the re-entry conditions of a human deep space flight.

Commercial Space Transportation

- **Commercial Crew Progress:** <http://www.nasa.gov/content/nasa-partners-punctuate-summer-with-spacecraft-development-advances/>

Space Budgets, Policy, Missions, Benefits, International ...

- **Asteroid Legislation:** [Panel sees asteroids act as step in right direction for space property rights](#) Private sector experts offer early support for pending legislation establishing property rights to resources extracted from asteroids.
- **Russian Crews on US Commercial Vehicles:** [Hartman: U.S. and Russian crews to fly both Soyuz and U.S. commercial vehicles](#) Future U.S. commercial spacecraft flying astronauts to the International Space Station will include Russian cosmonauts as passengers, a high ranking NASA station program official tells a space agency advisory panel. U.S. astronauts will continue to be flown to the station on Russian Soyuz crew transports as well, according to Dan Hartman, NASA's deputy space station program manager.
- **US-Russian Cooperation on ISS:** [Russia's ISS boss says Ukraine crisis slowing Moscow's renewal of ISS partnership](#) Tensions between Moscow and the West over Russia's activities in Ukraine are slowing consideration of President Obama's request to extend operations of the

International Space Station from 2020 to 2024, according to Russian space official. (See also: [No issues between space programs from Russia, U.S.: 'We're just guys working together'](#))

Florida Highlights

- **Delta IV Launch:** [Space surveillance craft launched by Delta 4 rocket](#) United Launch Alliance places U.S. Air Force payloads into orbit atop a Delta IV rocket launched from Cape Canaveral Air Force Station, FL.
- **SpaceX Lawsuit:** [Court presses SpaceX and Air Force to resolve case in mediation](#) U.S. federal judge directs the U.S. Air Force and SpaceX to mediate their dispute over a commercial rocket award to United Launch Alliance. ULA was the sole source recipient of an USAF order for 36 rocket cores.
- **Space Gamers:** [Space innovators seek Orlando gamer connection to boost struggling industry](#) NASA's Kennedy Space Center reaches out to young gamers to forge new commercial ties.
- **VAB to Support SLS:** [Modifications are underway in Vehicle Assembly Building for NASA's Space Launch System](#) At NASA's Kennedy Space Center, contractors are altering the Vehicle Assembly Building to accommodate NASA's Space Launch System heavy lift rocket.

Citizens for Space Exploration – a pro-space, grassroots advocacy group, supported by the Cocoa Beach Regional Chamber of Commerce, travels to Washington, D.C. to meet face-to-face with Members/staff of Congress to discuss the value of America's investment in space exploration. To sustain that dialogue on a regular basis, Citizens distributes a weekly "Human Space Exploration Update" to Congressional offices and makes it available to our Chamber members as a quick-and-easy way to stay informed on developments impacting NASA and Space Coast Florida.

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