



1  
00:00:00,650 --> 00:00:03,909  
Here's some of the storie trending This  
Week at NASA!■

2  
00:00:03,909 --> 00:00:09,349  
NASA's Orbiting Carbon Observatory-2 mission is underway. Launched from California's

3  
00:00:09,349 --> 00:00:14,919  
Vandenberg Air Force Base, OCO-2 will help track our impact on the amount of carbon dioxide

4  
00:00:14,919 --> 00:00:19,960  
in the atmosphere and help us better understand the various human-made and natural sources

5  
00:00:19,960 --> 00:00:26,609  
of CO-2. This is one of five Earth-observing  
missions scheduled in 2014 the most Earth-focused

6  
00:00:26,609 --> 00:00:30,849  
missions launched in a single year, in more  
than a decade.

7  
00:00:30,849 --> 00:00:35,550  
NASA's saucer-shaped Low Density Supersonic Decelerator took its first engineering test

8  
00:00:35,550 --> 00:00:40,090  
flight ■ reaching Mach speeds high above  
the Navy's Pacific Missile Range Facility

9  
00:00:40,090 --> 00:00:46,570  
on Kauai, Hawaii. This first test of three  
planned for LDSD evaluated the flying ability

10  
00:00:46,570 --> 00:00:52,500  
of the vehicle. The LDSD project is evaluating  
new technologies that could be used to safely

11  
00:00:52,500 --> 00:00:59,500  
land heavier payloads on future long-duration  
missions to Mars and other planets with atmospheres.

12  
00:00:59,640 --> 00:01:04,150  
Orbital Sciences Corporation has moved the launch date of the Orb-2 mission for its Cygnus

13  
00:01:04,150 --> 00:01:10,330  
cargo spacecraft to the International Space Station, to no earlier than July 11. Orb-2

14  
00:01:10,330 --> 00:01:15,360  
is the company's second of eight cargo resupply missions to the ISS under its Commercial Resupply

15  
00:01:15,360 --> 00:01:21,730  
Services contract with NASA. Cygnus is scheduled for a 40 day stay at the station, while the

16  
00:01:21,730 --> 00:01:28,130  
ISS crew unloads supplies and materials delivered and then loads Cygnus with material for disposal.

17  
00:01:28,130 --> 00:01:33,720  
A scale model of the 70-metric-ton Space Launch System is being tested at the Langley Research

18  
00:01:33,720 --> 00:01:38,050  
Center. The testing will help engineers at Marshall Space Flight Center, where the SLS

19  
00:01:38,050 --> 00:01:43,030  
program is managed, better understand the performance of the integrated system and fine

20  
00:01:43,030 --> 00:01:45,049  
tune the performance of the rocket.

21  
00:01:45,049 --> 00:01:50,500  
NASA's Cassini spacecraft is celebrating 10 years of exploring Saturn. Cassini, with

22  
00:01:50,500 --> 00:01:56,659  
the European Space Agency's Huygens probe,  
reached Saturn on June 30, 2004, for a planned

23  
00:01:56,659 --> 00:02:01,400  
four-year mission. Since then Cassini has  
beamed back hundreds of gigabytes of scientific

24  
00:02:01,400 --> 00:02:06,760  
data about the planet, its rings and moons  
-- including brand new evidence that the ocean

25  
00:02:06,760 --> 00:02:12,329  
inside Saturn's largest moon, Titan might  
be as salty as the Earth's Dead Sea and that

26  
00:02:12,329 --> 00:02:17,579  
the moon's icy shell is rigid and in the  
process of freezing over. These findings could

27  
00:02:17,579 --> 00:02:22,569  
indicate a less than habitable environment.  
The spacecraft has even turned its gaze back

28  
00:02:22,569 --> 00:02:27,709  
toward us -- providing the first heads-up  
of an interplanetary photo-op of Earth from

29  
00:02:27,709 --> 00:02:34,019  
Saturn which gave Earthlings around the  
globe time to gather and wave at Saturn.

30  
00:02:34,019 --> 00:02:35,549  
And that's what's up this week @NASA