



1

00:00:01,030 --> 00:00:09,450

"Here's some of the stories trending This Week at NASA!"

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00:00:09,450 --> 00:00:13,190

During a free-flight test of the Morpheus prototype lander at Kennedy Space Center on

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00:00:13,190 --> 00:00:18,570

Thursday, the lander used its newly installed suite of autonomous landing and hazard avoidance

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00:00:18,570 --> 00:00:24,170

technology sensors to survey the landing field for hazards and successfully self-navigate

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00:00:24,170 --> 00:00:25,710

to a safe landing.

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00:00:25,710 --> 00:00:30,180

The technology used with Morpheus could be used to deliver cargo to planetary surfaces

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00:00:30,180 --> 00:00:32,619

in the future.

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00:00:32,619 --> 00:00:37,980

NASA's Low-Density Supersonic Decelerator, a rocket-powered, saucer-shaped test vehicle,

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00:00:37,980 --> 00:00:43,469

has completed final assembly at the U.S. Navy's Pacific Missile Range Facility in Kauai, Hawaii.

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00:00:43,469 --> 00:00:49,750

An experimental flight test is planned for LDSD June 3 to investigate breakthrough technologies

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00:00:49,750 --> 00:00:54,909

that will benefit future spaceflight missions
that require landing large objects, including

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00:00:54,909 --> 00:00:58,160

human missions to Mars.

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00:00:58,160 --> 00:01:02,659

With the successful completion of a Mission
Critical Design Review, NASA and its international

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00:01:02,659 --> 00:01:08,509

partners can move ahead with construction
of the lander for the InSight mission to Mars.

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00:01:08,509 --> 00:01:13,960

Scheduled to launch in early 2016, InSight
will probe the Martian sub-surface for clues

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00:01:13,960 --> 00:01:19,990

about how Earth-like planets form their layered
inner structure of core, mantle and crust.

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00:01:19,990 --> 00:01:25,060

An ISS Science Forum took place Wednesday
at Johnson Space Center.

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00:01:25,060 --> 00:01:29,920

The NASA Destination Station event focused
on scientific endeavors on the International

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00:01:29,920 --> 00:01:35,689

Space Station that are preparing NASA to venture
farther into the solar system than ever before

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00:01:35,689 --> 00:01:39,920

and providing real benefits to life on Earth.

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00:01:39,920 --> 00:01:44,729

The SpaceX Dragon cargo craft left the space
station on Sunday, a month after delivering

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00:01:44,729 --> 00:01:48,750

more than 2-and-a-half tons of supplies and science investigations.

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00:01:48,750 --> 00:01:54,289

Hours later, Dragon completed a parachute-assisted splashdown in the Pacific Ocean near Baja,

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00:01:54,289 --> 00:02:01,689

California -- returning more than 35-hundred pounds of NASA cargo and science samples.

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00:02:01,689 --> 00:02:07,030

Training continues at the Baikonur Cosmodrome in Kazakhstan for Expedition 40/41 -- the

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00:02:07,030 --> 00:02:09,010

next crew headed to the station.

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00:02:09,010 --> 00:02:13,710

Soyuz Commander Max Suraev of the Russian Federal Space Agency, NASA Flight Engineer

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00:02:13,710 --> 00:02:18,980

Reid Wiseman and Flight Engineer Alexander Gerst of the European Space Agency are scheduled

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00:02:18,980 --> 00:02:24,819

to launch at about 4 p.m. Eastern on May 28... to the ISS.

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00:02:24,819 --> 00:02:29,100

The new NASA Student Launch, formerly the Student Launch Initiative wrapped up Sunday

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00:02:29,100 --> 00:02:31,290

in Salt Lake City, Utah.

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00:02:31,290 --> 00:02:36,049

Sixteen student-built rockets with working science or engineering payloads, soared to

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00:02:36,049 --> 00:02:41,620

altitudes of nearly 20-thousand feet during the event, which provides relevant and cost-effective

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00:02:41,620 --> 00:02:47,580

research and development support to NASA's Space Launch System program at Marshall Space

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00:02:47,580 --> 00:02:49,260

Flight Center.

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00:02:49,260 --> 00:02:51,310

Before we go -- a quick programming note.

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00:02:51,310 --> 00:02:55,690

Starting May 30, the This Week at NASA crew will take a two week hiatus.

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00:02:55,690 --> 00:03:00,750

While we're gone, though -- we'll leave you with a special 2014 mid-year report on some

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00:03:00,750 --> 00:03:04,480

of the big and exciting news we've featured so far this year.

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00:03:04,480 --> 00:03:06,670

And that's what's up this week @NASA ...