



SLS Thrust
Frame Adapter

1
00:00:00,630 --> 00:00:03,830

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

2
00:00:03,830 --> 00:00:10,170

NASA's TDRS-L satellite launched aboard a
United Launch Alliance Atlas rocket January

3
00:00:10,170 --> 00:00:13,650

23, from Cape Canaveral Air Force Station
in Florida.

4
00:00:13,650 --> 00:00:19,179

TDRS-L, the second of three next-generation
Tracking and Data Relay Satellites, provides

5
00:00:19,179 --> 00:00:24,289

tracking, telemetry; command and data return
services for NASA science and human exploration

6
00:00:24,289 --> 00:00:25,999

missions.

7
00:00:25,999 --> 00:00:30,980

Kennedy Space Center's transformation into
a multi-user spaceport for commercial and

8
00:00:30,980 --> 00:00:34,000

government customers continues.

9
00:00:34,000 --> 00:00:39,960

Administrator Charlie Bolden and Center Director
Bob Cabana were on hand as Sierra Nevada Corporation

10
00:00:39,960 --> 00:00:45,870

announced plans for a November 2016 orbital
flight of its Dream Chaser spacecraft from

11
00:00:45,870 --> 00:00:47,720

Florida's Space Coast.

12
00:00:47,720 --> 00:00:53,370
SNC will establish an operation center at
KSC, use the former Shuttle Landing Facility

13
00:00:53,370 --> 00:00:59,940
runway and utilize the services of other aerospace
companies in the area.

14
00:00:59,940 --> 00:01:05,339
President Obama signed into law a congressional
resolution to re-designate NASA's Dryden Flight

15
00:01:05,339 --> 00:01:09,500
Research Center as the Neil A. Armstrong Flight
Research Center.

16
00:01:09,500 --> 00:01:14,649
The resolution also re-names the center's
Western Aeronautical Test Range as the Hugh

17
00:01:14,649 --> 00:01:17,299
L. Dryden Aeronautical Test Range.

18
00:01:17,299 --> 00:01:22,859
Hugh Dryden and Neil Armstrong were aerospace
pioneers who made historic contributions to

19
00:01:22,859 --> 00:01:27,819
the agency and the nation.

20
00:01:27,819 --> 00:01:35,509
The next International Space Station crew
spoke to media during a news conference on

21
00:01:35,509 --> 00:01:37,079
NASA TV.

22

00:01:37,079 --> 00:01:43,939

Expedition 39/40 -- NASA astronaut Steve Swanson and Russian cosmonauts Alexander Skvortsov

23

00:01:43,939 --> 00:01:51,259

and Oleg Artemyev are scheduled to launch March 25 from the Baikonur Cosmodrome in Kazakhstan.

24

00:01:51,259 --> 00:01:56,899

The crew will be the first to share its final weeks of mission preparations and flight experiences

25

00:01:56,899 --> 00:01:59,630

on Instagram.

26

00:01:59,630 --> 00:02:04,090

The A-1 Test Stand at Stennis Space Center has been outfitted with a new thrust frame

27

00:02:04,090 --> 00:02:09,070

adapter that will enable testing of RS-25 rocket engines.

28

00:02:09,070 --> 00:02:14,830

The RS-25 will power the core stage of NASA's new Space Launch System rocket.

29

00:02:14,830 --> 00:02:21,140

Testing is scheduled to begin in mid-summer, after test stand modifications are completed.

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00:02:21,140 --> 00:02:26,200

The latest test of the Orion spacecraft's parachute system in Yuma, Arizona increased

31

00:02:26,200 --> 00:02:31,700

the complexity of the tests and was the first to provide in-air data on the system that

32

00:02:31,700 --> 00:02:37,540

jettisons Orion's forward bay cover -- a shell that protects the spacecraft during launch,

33
00:02:37,540 --> 00:02:40,930
orbital flight and re-entry into Earth's atmosphere.

34
00:02:40,930 --> 00:02:45,810
When Orion returns from space, the cover must come off before the spacecraft's parachutes

35
00:02:45,810 --> 00:02:47,340
can deploy.

36
00:02:47,340 --> 00:02:52,710
Further testing of the cover is planned before Orion's Exploration Flight Test-1 in September.

37
00:02:52,710 --> 00:02:58,250
For the first time in more than a decade, NASA will launch five Earth science missions

38
00:02:58,250 --> 00:03:03,550
in a single year -- opening new and improved eyes on our changing planet.

39
00:03:03,550 --> 00:03:08,210
The five missions in 2014 are part of the agency's planned Earth science activities

40
00:03:08,210 --> 00:03:09,510
for the year.

41
00:03:09,510 --> 00:03:13,930
Two missions will deliver instruments to the International Space Station, inaugurating

42
00:03:13,930 --> 00:03:19,550
use of the orbiting laboratory as a 24/7 Earth-observing science platform.

43
00:03:19,550 --> 00:03:25,960
New data on 2013 global temperatures and climate released by NASA and the National Oceanic

44
00:03:25,960 --> 00:03:31,580
and Atmospheric Administration show that Earth continues to experience warmer temperatures

45
00:03:31,580 --> 00:03:36,820
than those measured several decades ago -- a trend researchers believe is the result of

46
00:03:36,820 --> 00:03:42,650
continued increases in greenhouse gas levels in Earth's atmosphere.

47
00:03:42,650 --> 00:03:47,320
A news conference sponsored by NASA's Jet Propulsion Laboratory celebrated ten years

48
00:03:47,320 --> 00:03:52,910
of accomplishments on Mars by the Exploration Rover Opportunity -- which landed on Mars

49
00:03:52,910 --> 00:03:59,070
Jan. 24, 2004, Pacific Time, three weeks after its twin, Spirit.

50
00:03:59,070 --> 00:04:02,540
Both rovers made important discoveries on the Red Planet.

51
00:04:02,540 --> 00:04:07,880
Spirit stopped communicating in 2010, but Opportunity is still sending home scientific

52
00:04:07,880 --> 00:04:09,710
results from Mars.

53

00:04:09,710 --> 00:04:11,750

And that's what's up ... This Week at NASA.