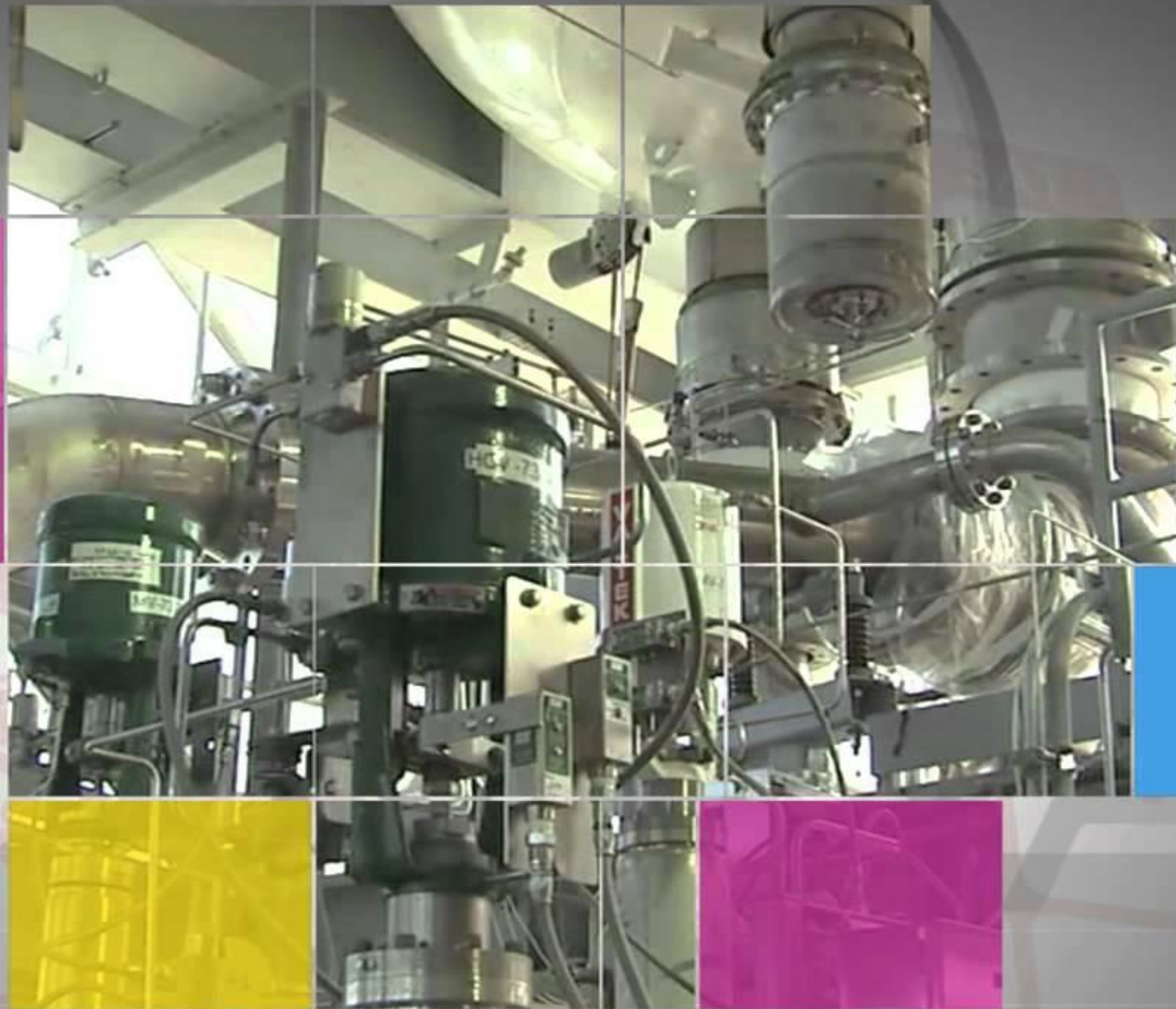


Cold shock
test



1
00:00:00,770 --> 00:00:05,080

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

2
00:00:05,080 --> 00:00:10,190

On Tuesday, The third U.S. National Climate
Assessment was released, combining observations

3
00:00:10,190 --> 00:00:15,610

from NASA's fleet of satellites with data
from interagency and international partners,

4
00:00:15,610 --> 00:00:20,180

to help us understand climate change and its
impacts in the United States.

5
00:00:20,180 --> 00:00:25,320

While at Ames Research Center, NASA Administrator
Charlie Bolden punctuated the important role

6
00:00:25,320 --> 00:00:29,450

the agency's climate research plays in preserving
the health of our home planet.

7
00:00:29,450 --> 00:00:32,960

"Climate change is a problem we must deal
with right now.

8
00:00:32,960 --> 00:00:37,410

NASA's role in studying and protecting our
home planet has never been stronger.

9
00:00:37,410 --> 00:00:41,170

And hopefully, that's the message that I bring
you when I say that this is the 'Year of Earth'

10
00:00:41,170 --> 00:00:42,960

for us."

11

00:00:42,960 --> 00:00:48,460

NASA's Orbiting Carbon Observatory-2 spacecraft arrived at California's Vandenberg Air Force

12

00:00:48,460 --> 00:00:54,100

Base on Wednesday to begin final preparations for a scheduled July 1 launch.

13

00:00:54,100 --> 00:00:59,980

OCO-2 is designed to make precise measurements in Earth's atmosphere of carbon dioxide -- the

14

00:00:59,980 --> 00:01:04,549

leading human-produced greenhouse gas impacting our climate.

15

00:01:04,549 --> 00:01:10,359

The Earth science mission is one of five NASA is launching in 2014 to address critical environment

16

00:01:10,359 --> 00:01:14,710

and climate related challenges facing our planet.

17

00:01:14,710 --> 00:01:19,630

The remaining flight hardware for the Delta IV rocket that will launch NASA's Orion spacecraft

18

00:01:19,630 --> 00:01:25,220

on Exploration Flight Test-1 in December arrived at Port Canaveral, Florida by barge Sunday.

19

00:01:25,220 --> 00:01:31,340

The rocket's second stage, port booster and spacecraft adapter will be processed and integrated

20

00:01:31,340 --> 00:01:36,039

along with the two boosters that arrived in early March, before being moved to Space Launch

21

00:01:36,039 --> 00:01:39,659

Complex -37 on Cape Canaveral Air Force Station.

22

00:01:39,659 --> 00:01:43,390

EFT-1 is the un-crewed first flight test of Orion...

23

00:01:43,390 --> 00:01:46,929

NASA's new deep space capsule.

24

00:01:46,929 --> 00:01:51,929

At the Stennis Space Center, a cold-shock test of the new structural piping system needed

25

00:01:51,929 --> 00:01:55,020

for the RS-25 engine was completed.

26

00:01:55,020 --> 00:02:00,139

The RS-25 will help power NASA's new Space Launch System rocket, which will launch humans

27

00:02:00,139 --> 00:02:02,659

farther into space than ever before.

28

00:02:02,659 --> 00:02:07,299

The test, which involved pushing super-cold propellant through the piping system, is a

29

00:02:07,299 --> 00:02:12,750

major milestone that sets the stage for installation of the engine in the coming weeks and hot-fire

30

00:02:12,750 --> 00:02:15,560

testing this summer.

31

00:02:15,560 --> 00:02:20,250

On Wednesday, NASA announced astronomers have made an important advance in the understanding

32

00:02:20,250 --> 00:02:23,340

of how clusters of stars come into being.

33

00:02:23,340 --> 00:02:29,010

Using data from NASA's Chandra X-ray Observatory and infrared telescopes, astronomers studied

34

00:02:29,010 --> 00:02:33,970

two star clusters and found the stars on the outskirts of these clusters are older than

35

00:02:33,970 --> 00:02:40,980

those in the center, which is different from what the simplest idea of star formation predicts.

36

00:02:40,980 --> 00:02:46,540

And a team of scientists at NASA Ames has successfully reproduced, right here on Earth,

37

00:02:46,540 --> 00:02:51,770

the processes that occur in the atmosphere of a red giant star responsible for creating

38

00:02:51,770 --> 00:02:54,850

planet-forming interstellar dust.

39

00:02:54,850 --> 00:02:58,840

Scientists plan to use the simulated space dust to gather clues to better understand

40

00:02:58,840 --> 00:03:03,380

the composition and the evolution of the universe.

41

00:03:03,380 --> 00:03:07,480

The next space station crew is training in Star City, Russia for its trip to the International

42

00:03:07,480 --> 00:03:09,850

Space Station later this month.

43
00:03:09,850 --> 00:03:15,020
Expedition 40/41 Soyuz Commander Max Suraev
of the Russian Federal Space Agency, NASA

44
00:03:15,020 --> 00:03:20,050
Flight Engineer Reid Wiseman and Flight Engineer
Alexander Gerst of the European Space Agency

45
00:03:20,050 --> 00:03:24,120
conducted final qualification training and
other activities at the Gagarin Cosmonaut

46
00:03:24,120 --> 00:03:25,120
Training Center.

47
00:03:25,120 --> 00:03:30,870
They are scheduled to launch to the station
May 28, Eastern Daylight Time.

48
00:03:30,870 --> 00:03:35,930
During a May 3 ceremony at the Kennedy Space
Center Visitor Complex in Florida, astronauts

49
00:03:35,930 --> 00:03:41,460
Shannon Lucid and Jerry Ross officially were
inducted into the U.S. Astronaut Hall of Fame.

50
00:03:41,460 --> 00:03:46,440
Lucid was the only American woman to serve
aboard the Russian Space Station Mir and Ross

51
00:03:46,440 --> 00:03:51,660
became the first human to complete seven spaceflight
missions.

52
00:03:51,660 --> 00:03:56,410
In celebration of Small Business Week, NASA
recognizes the small business community for

53

00:03:56,410 --> 00:03:59,910

helping the agency work toward achieving its goals.

54

00:03:59,910 --> 00:04:06,480

In fiscal year 2013, NASA awarded over \$2.7 billion directly to small businesses.

55

00:04:06,480 --> 00:04:11,330

In the approaching new era of space exploration that includes sending humans to an asteroid

56

00:04:11,330 --> 00:04:17,859

by 2025 and to Mars in the 2030s, NASA expects that small business will continue to help

57

00:04:17,859 --> 00:04:19,289

make big things happen.

58

00:04:19,289 --> 00:04:22,150

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