1
00:00:00,310 --> 00:00:04,060
Science and supplies rocket to the space station
…

2
00:00:04,060 --> 00:00:07,899
New clues about an interstellar visitor …

3
00:00:07,899 --> 00:00:13,219
And updating the status of a flagship mission
… a few of the stories to tell you about

4
00:00:13,219 --> 00:00:14,710
– This Week at NASA!

5
00:00:14,710 --> 00:00:17,760
“We have ignition and liftoff”…

6
00:00:17,760 --> 00:00:22,189
Almost three tons of supplies and science
experiments are headed to the International

7
00:00:22,189 --> 00:00:26,039
Space Station on a SpaceX Dragon cargo craft.

8
00:00:26,039 --> 00:00:30,869
Launched on a Falcon 9 rocket from Florida
on June 29, the cargo ship is set to arrive

9
00:00:30,869 --> 00:00:35,550
at the orbital outpost early on July 2.

10
00:00:35,550 --> 00:00:40,780
One of the experiments launched on that mission
will help scientists study how plants respond

11
00:00:40,780 --> 00:00:43,400
to changes in water availability.

12

00:00:43,400 --> 00:00:47,170
The ECOSTRESS experiment will be installed
on the space station to measure the temperature

13
00:00:47,170 --> 00:00:51,620
of plants from space as never before.

14
00:00:51,620 --> 00:00:56,880
Our Webb Telescope is now targeting March
of 2021 as a new launch date, after an Independent

15
00:00:56,880 --> 00:01:02,070
Review Board completed its assessment of delays
in integration and testing.

16
00:01:02,070 --> 00:01:06,770
NASA and the board unanimously agree that
Webb can still achieve mission success, peering

17
00:01:06,770 --> 00:01:10,549
into other galaxies to see light from the
very dawn of time.

18
00:01:10,549 --> 00:01:12,960
We’re creating something new here.

19
00:01:12,960 --> 00:01:18,180
We’re dealing with cutting edge technology
to perform an unprecedented mission, and I

20
00:01:18,180 --> 00:01:23,259
know that our teams are working hard and will
successfully overcome the challenges.

21
00:01:23,259 --> 00:01:28,799
When it’s not looking deep into the cosmos,
Webb will turn its infrared eye toward the

22
00:01:28,799 --> 00:01:33,749
mysteries of our own solar system, including

Jupiter’s Great Red Spot.

23
00:01:33,749 --> 00:01:38,960
Building on data from Hubble and other observatories,
Webb could shed new light on the enigmatic

24
00:01:38,960 --> 00:01:45,090
storm, including clues about what causes its
iconic color.

25
00:01:45,090 --> 00:01:49,600
Astronomers now think the mysterious interstellar
visitor named 'Oumuamua (oh-MOO-ah-MOO-ah)

26
00:01:49,600 --> 00:01:54,420
is behaving more like a tiny weird comet than
a rocky asteroid.

27
00:01:54,420 --> 00:01:59,109
Data from Hubble and ground-based observatories
confirm the object got a boost in speed and

28
00:01:59,109 --> 00:02:03,990
shift in trajectory as it passed through our
inner solar system last year.

29
00:02:03,990 --> 00:02:08,700
This boost was not caused by the gravity from
the Sun or planets as would be expected, but

30
00:02:08,700 --> 00:02:13,710
possibly from an unseen push from jets of
gaseous material, like those that affect the

31
00:02:13,710 --> 00:02:18,650
motion of many comets in our solar system.

32
00:02:18,650 --> 00:02:23,709
Recent flight tests successfully demonstrated
technology that could help quiet the aircraft

33
00:02:23,709 --> 00:02:26,689
noise heard around airports during landings.

34
00:02:26,689 --> 00:02:31,989
The flights, at our Armstrong Flight Research
Center in California, saw a more than 70 percent

35
00:02:31,989 --> 00:02:37,630
reduction in airframe noise – caused by
landing gear, wing flaps and other non-engine

36
00:02:37,630 --> 00:02:38,630
parts.

37
00:02:38,630 --> 00:02:44,700
If you're a podcast fan, check out 'The
Rocket Ranch,' from our Kennedy Space Center

38
00:02:44,700 --> 00:02:47,010
on Florida's Space Coast.

39
00:02:47,010 --> 00:02:51,650
Our newest podcast series will take you behind
the scenes with the scientists, technicians

40
00:02:51,650 --> 00:02:57,030
and engineers working to return humans to
the Moon and put boots on Mars.

41
00:02:57,030 --> 00:03:00,989
Learn more about all our podcasts at nasa.gov/podcasts.

42
00:03:00,989 --> 00:03:06,569
That's what's up this week @NASA …