



1
00:00:00,270 --> 00:00:02,420
Preparing to 'Launch America' ...

2
00:00:02,420 --> 00:00:05,910
A cargo spacecraft arrives at the space station
...

3
00:00:05,910 --> 00:00:10,920
And the detective capabilities of our next
Mars rover ... a few of the stories to tell

4
00:00:10,920 --> 00:00:13,040
you about – This Week at NASA!

5
00:00:13,040 --> 00:00:17,620
“And we’re back live in the room now with
Bob Behnken on the left of your screen, Doug

6
00:00:17,620 --> 00:00:19,180
Hurley to the right.”

7
00:00:19,180 --> 00:00:25,330
On May 27, NASA astronauts Bob Behnken and
Doug Hurley got suited up for the much-anticipated

8
00:00:25,330 --> 00:00:31,020
SpaceX Demo-2 test flight to the International
Space Station, at our Kennedy Space Center,

9
00:00:31,020 --> 00:00:32,020
in Florida.

10
00:00:32,020 --> 00:00:37,150
“They’ve each made this journey twice
before for the space shuttle missions, but

11
00:00:37,150 --> 00:00:40,100
they’ve never done this in a SpaceX spacesuit.

12
00:00:40,100 --> 00:00:44,640
They've never done this together, and they've never done this on their way to head to a

13
00:00:44,640 --> 00:00:48,470
commercially-built rocket and spacecraft to head to space."

14
00:00:48,470 --> 00:00:53,650
In addition to launching America into a new era of space exploration, the mission is the

15
00:00:53,650 --> 00:00:58,649
first to launch American astronauts on an American spacecraft from the U.S. since the

16
00:00:58,649 --> 00:01:00,930
end of the Space Shuttle Program.

17
00:01:00,930 --> 00:01:06,850
Demo-2 is also the final test flight to validate SpaceX's crew transportation system and

18
00:01:06,850 --> 00:01:11,740
operational capabilities as part of our Commercial Crew Program.

19
00:01:11,740 --> 00:01:17,240
All systems, on this day, were "go" except the one none of us can do anything about ... the

20
00:01:17,240 --> 00:01:18,240
weather.

21
00:01:18,240 --> 00:01:19,490
"And Dragon, SpaceX.

22
00:01:19,490 --> 00:01:23,119
Unfortunately, we are not going to launch

today.

23
00:01:23,119 --> 00:01:26,709
You are go for five-dot-one-zero-zero launch scrub.”

24
00:01:26,709 --> 00:01:31,439
“Five-dot-one-zero-zero, it was a good effort by the teams and we understand and we’ll

25
00:01:31,439 --> 00:01:32,439
meet you there.”

26
00:01:32,439 --> 00:01:37,869
So, with the crew’s safety of paramount importance, the decision was made to reset

27
00:01:37,869 --> 00:01:40,979
and look to the next launch opportunity that weather permits.

28
00:01:40,979 --> 00:01:43,320
“Today was a good day for NASA.

29
00:01:43,320 --> 00:01:49,039
It was a good day for SpaceX, and we’ve got a lot to look forward to.”

30
00:01:49,039 --> 00:01:55,319
The Japan Aerospace Exploration Agency’s uncrewed HTV-9 supply spacecraft arrived

31
00:01:55,319 --> 00:01:58,729
at the International Space Station on May 25.

32
00:01:58,729 --> 00:02:03,549
The spacecraft delivered more than four tons of science experiments, technology and other

33
00:02:03,549 --> 00:02:07,460
cargo for the crew aboard the orbital outpost.

34
00:02:07,460 --> 00:02:12,440
With no shortage of mysteries on Mars, our
Perseverance rover will be able to get its

35
00:02:12,440 --> 00:02:18,620
sleuth on by using an onboard instrument called
SHERLOC, in tandem with a camera called – what

36
00:02:18,620 --> 00:02:19,620
else?

37
00:02:19,620 --> 00:02:24,920
WATSON ... to study rock surfaces for the
presence of certain minerals and organic molecules,

38
00:02:24,920 --> 00:02:28,230
which are the carbon-based building blocks
of life on Earth.

39
00:02:28,230 --> 00:02:31,860
The launch window for the mission is from
July 17-Aug. 11.

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00:02:31,860 --> 00:02:37,530
Perseverance is scheduled to land on Mars
Feb. 18, 2021.

41
00:02:37,530 --> 00:02:42,410
Data from our Mars-orbiting MAVEN mission
have led to the creation of the first map

42
00:02:42,410 --> 00:02:46,410
of the electric current systems in the Martian
atmosphere.

43
00:02:46,410 --> 00:02:51,200

Researchers hope to better understand these electric currents and their role in the atmospheric

44
00:02:51,200 --> 00:02:56,870
loss that transformed Mars from a world that could have supported life in the past, into

45
00:02:56,870 --> 00:02:59,920
one that is now more like an inhospitable desert.

46
00:02:59,920 --> 00:03:02,920
That's what's up this week @NASA ...