
TW@N
THIS WEEK @ NASA

1
00:00:00,300 --> 00:00:03,036
Previewing our Artemis
I mission to the Moon ...

2
00:00:03,036 --> 00:00:06,272
a new image from our James
Webb Space Telescope ...

3
00:00:06,272 --> 00:00:09,976
and an anniversary
for one of our explorers on Mars ...

4
00:00:09,976 --> 00:00:13,213
a few of the stories
to tell you about – This Week at NASA.

5
00:00:14,347 --> 00:00:16,349
We previewed our uncrewed Artemis

6
00:00:16,349 --> 00:00:20,220
I mission to the Moon
during a pair of briefings. On Aug.

7
00:00:20,220 --> 00:00:24,691
3, agency officials at our NASA
Headquarters and at other NASA centers

8
00:00:24,958 --> 00:00:27,460
provided a big picture
overview of the mission.

9
00:00:27,694 --> 00:00:31,031
"Artemis I shows that
we can do big things.

10
00:00:31,031 --> 00:00:35,468
Tthings that unite people, things
that benefit humanity.

11

00:00:35,468 --> 00:00:40,340
Things like Apollo
that inspire the world."

12
00:00:40,907 --> 00:00:44,144
That was followed
two days later with a deeper dive

13
00:00:44,144 --> 00:00:48,348
into the mission's timeline and operations
from our Johnson Space Center.

14
00:00:48,515 --> 00:00:52,052
The agency is currently targeting
no earlier than Monday, Aug.

15
00:00:52,052 --> 00:00:55,355
29, for the launch of the Space
Launch System rocket

16
00:00:55,555 --> 00:00:59,159
to send the Orion spacecraft
around the Moon and back to Earth.

17
00:00:59,692 --> 00:01:03,063
Artemis I will take place over the course
of about six weeks

18
00:01:03,363 --> 00:01:07,967
to check out systems before astronauts
fly aboard the spacecraft on Artemis II.

19
00:01:07,967 --> 00:01:12,405
Our James Webb Space
Telescope produced this new detailed

20
00:01:12,405 --> 00:01:16,076
image of the Cartwheel Galaxy
and two smaller galaxies.

21

00:01:16,509 --> 00:01:20,780
The Cartwheel Galaxy, which is located
about 500 million light years from us,

22
00:01:20,947 --> 00:01:25,018
is a rare type of galaxy
that astronomers call a "ring galaxy."

23
00:01:25,351 --> 00:01:29,522
It is believed that the Cartwheel Galaxy
used to be a normal spiral galaxy

24
00:01:29,522 --> 00:01:33,326
like our Milky Way,
before a collision with another galaxy

25
00:01:33,493 --> 00:01:36,496
affected the Cartwheel Galaxy's
shape and structure.

26
00:01:37,130 --> 00:01:40,800
Our Curiosity rover
is celebrating 10 years on Mars.

27
00:01:41,101 --> 00:01:44,170
The rover landed
on the Red Planet at 10:32 p.m.

28
00:01:44,170 --> 00:01:47,273
Pacific Daylight Time on Aug. 5, 2012.

29
00:01:47,707 --> 00:01:51,811
Since then, it has driven
about 18 miles and climbed more than 2,000

30
00:01:51,811 --> 00:01:56,282
feet while exploring Gale Crater
and the foothills of Mount Sharp.

31
00:01:56,683 --> 00:01:59,252

Most importantly, Curiosity determined

32
00:01:59,252 --> 00:02:02,789
that liquid water and the chemical
building blocks needed for life

33
00:02:02,989 --> 00:02:07,927
were indeed present in this region of Mars
for at least tens of millions of years.

34
00:02:08,461 --> 00:02:11,231
The Curiosity team
now plans to have the rover

35
00:02:11,231 --> 00:02:15,902
spend the next few years exploring
a new region, one thought to have formed

36
00:02:15,902 --> 00:02:20,874
as water was drying out, leaving behind
salty minerals called sulfates.

37
00:02:21,641 --> 00:02:25,478
The launch of our SpaceX Crew-5 mission
to the International Space

38
00:02:25,478 --> 00:02:29,015
Station is currently targeted
for no earlier than Sept.

39
00:02:29,015 --> 00:02:31,784
29 from our Kennedy Space Center.

40
00:02:31,784 --> 00:02:37,290
NASA astronauts Nicole Mann and Josh
Cassada, Japan Aerospace Exploration

41
00:02:37,290 --> 00:02:41,294
Agency astronaut Koichi
Wakata, and Roscosmos cosmonaut

42
00:02:41,294 --> 00:02:44,797
Anna Kikina discuss their upcoming
mission during an Aug.

43
00:02:44,797 --> 00:02:47,200
4 briefing in our Johnson Space Center.

44
00:02:47,500 --> 00:02:50,270
"We are coming together as a human race.

45
00:02:50,270 --> 00:02:53,373
And our mission on board
the International Space Station

46
00:02:53,540 --> 00:02:56,910
of developing this technology
and research to benefit

47
00:02:56,910 --> 00:02:59,913
all of humankind is really
what brings us together."

48
00:03:00,113 --> 00:03:04,150
This is NASA's fifth crew rotation
flight to the space station with a U.S.

49
00:03:04,150 --> 00:03:05,351
commercial spacecraft.

50
00:03:11,157 --> 00:03:12,458
NASA is remembering

51
00:03:12,458 --> 00:03:15,795
actor Nichelle Nichols,
who passed away on July 30.

52
00:03:16,362 --> 00:03:20,366
She broke new ground on "Star Trek"

in her role as Lieutenant Uhura,

53
00:03:20,667 --> 00:03:25,104
one of the first leading recurring black
female characters on U.S. television.

54
00:03:25,705 --> 00:03:29,409
Years later, NASA
officials enlisted her help to recruit

55
00:03:29,409 --> 00:03:33,313
the first women and minority astronauts
for the Space Shuttle Program.

56
00:03:33,880 --> 00:03:37,183
In a statement, NASA Administrator
Bill Nelson noted

57
00:03:37,450 --> 00:03:41,354
that as we prepare to send the first woman
and first person of color

58
00:03:41,354 --> 00:03:46,359
to the Moon under Artemis, NASA is guided
by the legacy of Nichelle Nichols.

59
00:03:48,328 --> 00:03:50,463
That's what's up this week @NASA ...