
TW@N
THIS WEEK @ NASA

1
00:00:00,000 --> 00:00:03,570
The Artemis II Moon rocket
is coming together …

2
00:00:03,570 --> 00:00:06,573
A high honor for some
space explorers …

3
00:00:06,573 --> 00:00:10,010
And an intriguing find for
the Webb Space Telescope …

4
00:00:10,010 --> 00:00:13,747
A few of the stories to tell you about –
This Week at NASA!

5
00:00:14,647 --> 00:00:18,985
The core stage of the Space Launch System
rocket for our Artemis II mission

6
00:00:18,985 --> 00:00:22,389
is coming together at our
Michoud Assembly Facility.

7
00:00:22,389 --> 00:00:27,460
Teams recently added the engine section
and will complete the stage by installing

8
00:00:27,460 --> 00:00:32,365
four RS-25 rocket engines. Artemis II will
be the first Artemis flight

9
00:00:32,365 --> 00:00:35,168
around the Moon and back with astronauts.

10
00:00:36,002 --> 00:00:39,639
During a March 23 ceremony,
the Smithsonian’s National

11

00:00:39,639 --> 00:00:43,109
Air and Space Museum awarded its
Michael Collins Trophy

12
00:00:43,109 --> 00:00:46,346
for Lifetime Achievement and
for Current Achievement

13
00:00:46,346 --> 00:00:49,783
to former NASA astronaut Bill Anders,
and to

14
00:00:49,783 --> 00:00:53,086
the James Webb Space
Telescope Team, respectively.

15
00:00:53,086 --> 00:00:55,922
Anders took the famous
Earthrise photograph on the

16
00:00:55,922 --> 00:00:59,926
Apollo 8 Moon mission, and the recently
deployed Webb telescope

17
00:00:59,926 --> 00:01:04,664
is already giving astronomers an increased
understanding of the universe.

18
00:01:05,432 --> 00:01:08,001
The Webb Space Telescope
has spotted a planet about

19
00:01:08,001 --> 00:01:13,973
40 light-years from us with silicate cloud
features in its swirling atmosphere.

20
00:01:13,973 --> 00:01:19,979
The telescope also detected water, methane
and carbon monoxide, as well as evidence

21

00:01:19,979 --> 00:01:21,915
of carbon dioxide.

22
00:01:21,915 --> 00:01:25,919
This is the largest number of molecules
ever identified all at once

23
00:01:25,919 --> 00:01:28,455
on a planet outside our solar system.

24
00:01:29,222 --> 00:01:32,358
A new study using data
from the recently retired

25
00:01:32,358 --> 00:01:37,864
SOFIA flying observatory has resulted
in the first detailed, wide-area map

26
00:01:37,864 --> 00:01:40,467
of water distribution on the Moon.

27
00:01:40,467 --> 00:01:45,171
The study provides hints about how water
may be moving across the lunar surface

28
00:01:45,171 --> 00:01:47,373
near the Moon’s South Pole —

29
00:01:47,373 --> 00:01:51,511
an important area of exploration
for future Artemis missions.