TW@N

THIS WEEK @ NASA

1
00:00:00,240 --> 00:00:05,600
Our Artemis I mega Moon rocket is rolled to the\h
launch pad … The astronauts of our Crew-2 mission\h\h

2
00:00:05,600 --> 00:00:11,600
come to Washington …. And investigating the impact\h
of dust on our climate … a few of the stories to\h\h

3
00:00:11,600 --> 00:00:16,480
tell you about – This Week at NASA!
\h\h

4
00:00:16,480 --> 00:00:22,240
On June 6, teams at our Kennedy Space Center\h
rolled our Space Launch System rocket, Orion\h\h

5
00:00:22,240 --> 00:00:28,240
spacecraft, and mobile launcher from the Vehicle\h
Assembly Building to launch pad 39B to prepare\h\h

6
00:00:28,240 --> 00:00:34,000
for the next\hwet dress rehearsal test\hattempt\h
ahead of the uncrewed\hArtemis I\hflight test.\h\h

7
00:00:34,000 --> 00:00:38,800
The wet dress rehearsal test is currently\h
targeted for no earlier than June 19.\h

8
00:00:38,800 --> 00:00:42,400
\h
Our SpaceX Crew-2 astronauts – NASA’s\hShane\h\h

9
00:00:42,400 --> 00:00:48,480
Kimbrough\hand\hMegan McArthur,\hAkihiko Hoshide\hof\h
the Japan Aerospace Exploration Agency,\h\h

10
00:00:48,480 --> 00:00:54,000
and the European Space Agency’s\hThomas Pesquet\h-\h
visited the Washington, D.C. area during the\h\h

11
00:00:54,000 --> 00:00:59,760
week of June 6 to share experiences from their\h
recent flight to the International Space Station.\h\h

12
00:01:00,560 --> 00:01:05,680
During a stop at our Mary W. Jackson NASA\h
Headquarters building, they met with NASA\h\h

13
00:01:05,680 --> 00:01:11,280
leadership and discussed their mission with\h
employees. They also attended an event hosted\h\h

14
00:01:11,280 --> 00:01:17,440
by the Ambassador of France to the United States\h
during which the French space agency, CNES,\h\h

15
00:01:17,440 --> 00:01:22,960
became the 20th country to sign the Artemis\h
Accords. The Crew-2 astronauts and their Crew\h\h

16
00:01:22,960 --> 00:01:29,680
Dragon Endeavour spacecraft spent 199 days in\h
orbit – a record for the longest spaceflight by\h\h

17
00:01:29,680 --> 00:01:32,080
a U.S. crewed spacecraft.
\h\h

18
00:01:32,080 --> 00:01:36,800
The Earth Surface Mineral Dust Source\h
Investigation or EMIT is one of the\h\h

19
00:01:36,800 --> 00:01:42,080
primary payloads scheduled for delivery to\h
the International Space Station on the SpaceX\h\h

20
00:01:42,080 --> 00:01:49,440
CRS-25 cargo mission. The investigation will use\h
NASA-invented imaging technology to identify the\h\h

21
00:01:49,440 --> 00:01:55,280
composition of mineral dust from Earth’s arid\h
regions and analyze dust carried through the\h\h

22
00:01:55,280 --> 00:02:01,280
atmosphere from deserts to see what effects it\h
has on the Earth system and to human populations.\h\h

23
00:02:01,840 --> 00:02:07,840
The CRS-25 cargo mission is currently\h
targeted to launch no earlier than June 28.\h

24
00:02:07,840 --> 00:02:10,400
\h
The main body of our Europa\h\h

25
00:02:10,400 --> 00:02:16,240
Clipper spacecraft was delivered recently to our\h
Jet Propulsion Laboratory in Southern California.\h\h

26
00:02:16,960 --> 00:02:22,400
Engineers and technicians there will finish\h
assembling the spacecraft by hand, then test\h\h

27
00:02:22,400 --> 00:02:28,800
it to make sure it can withstand the journey to\h
Jupiter’s icy moon\hEuropa. Targeted for launch\h\h

28
00:02:28,800 --> 00:02:35,440
in October 2024, the mission will make nearly 50\h
flybys of the Jovian moon, which is believed to\h\h

29
00:02:35,440 --> 00:02:41,040
have an underground ocean that contains twice\h
as much water as all oceans on Earth combined.\h\h

30
00:02:41,600 --> 00:02:46,560
The ocean on Europa may also currently have\h
conditions suitable for supporting life.\h

31
00:02:46,560 --> 00:02:47,600
\h
\h\h

32
00:02:47,600 --> 00:02:53,360
Our Ames Research Center recently unveiled a\h
life-size display model of the agency’s VIPER\h\h

33
00:02:53,360 --> 00:02:59,040
Moon rover for visitors at the Chabot Space\h
and Science Center. VIPER, which is managed\h\h

34
00:02:59,040 --> 00:03:05,520
by Ames and is part of our\hArtemis\hprogram, will\h
be delivered to the Moon’s South Pole in late 2023\h\h

35
00:03:05,520 --> 00:03:11,520
to map and explore the region for water and other\h
resources ahead of future human missions to the\h\h

36
00:03:11,520 --> 00:03:13,360
lunar surface.
\h\h