



TW@N

THIS WEEK @ NASA

1
00:00:00,080 --> 00:00:04,319
a major milestone for the james webb
space telescope what astronomers could

2
00:00:04,319 --> 00:00:08,720
learn from a mini monster black hole and
the latest assessment of our planet's

3
00:00:08,720 --> 00:00:12,799
global surface temperature a few of the
stories to tell you about this week at

4
00:00:12,799 --> 00:00:16,800
nasa
and we have a fully deployed jwst

5
00:00:16,800 --> 00:00:22,080
observatory
[Music]

6
00:00:22,080 --> 00:00:26,560
on january 8th our james webb space
telescope team reached a major mission

7
00:00:26,560 --> 00:00:31,920
milestone when it finished deploying the
telescope's 21-foot primary mirror that

8
00:00:31,920 --> 00:00:36,160
successfully completed the final stage
of all major spacecraft deployments

9
00:00:36,160 --> 00:00:41,040
needed to prepare for science operations
the next step is to begin moving the 18

10
00:00:41,040 --> 00:00:45,760
primary mirror segments to align the
telescope optics a process that will

11
00:00:45,760 --> 00:00:52,879
take months to complete for more details
about the mission visit nasa.gov web

12
00:00:52,879 --> 00:00:57,360
our chandra x-ray observatory has
identified a supermassive or monster

13
00:00:57,360 --> 00:01:02,960
black hole in the dwarf galaxy mrk 462
that could help astronomers learn more

14
00:01:02,960 --> 00:01:05,920
about how the very largest black holes
grow

15
00:01:05,920 --> 00:01:09,600
this is one of the first times that an
obscured supermassive black hole has

16
00:01:09,600 --> 00:01:15,439
been found in a dwarf galaxy mrk 462
contains only several hundred million

17
00:01:15,439 --> 00:01:20,400
stars by contrast there are a few
hundred billion stars in our milky way

18
00:01:20,400 --> 00:01:24,560
galaxy
according to independent analyses done

19
00:01:24,560 --> 00:01:29,200
by nasa and the national oceanic and
atmospheric administration our planet's

20
00:01:29,200 --> 00:01:35,200
global average surface temperature in
2021 tied with 2018 as the sixth warmest

21
00:01:35,200 --> 00:01:40,079
on record this continues a long-term
global warming trend during which the

22
00:01:40,079 --> 00:01:44,399
past eight years have been the warmest
years on record tracking global

23
00:01:44,399 --> 00:01:48,720
temperature trends provides a crucial
indicator of the impact human activities

24
00:01:48,720 --> 00:01:53,280
are having on the climate and quality of
life on earth learn more about nasa's

25
00:01:53,280 --> 00:02:00,799
earth science missions at nasa.gov earth
on january 10th nasa administrator bill

26
00:02:00,799 --> 00:02:05,200
nelson announced that dr katherine
calvin will serve as the agency's new

27
00:02:05,200 --> 00:02:08,720
chief scientist and senior climate
advisor

28
00:02:08,720 --> 00:02:13,680
she replaces former chief scientist jim
green who recently retired and gavin

29
00:02:13,680 --> 00:02:18,080
schmidt who was serving as the acting
senior climate advisor the senior

30
00:02:18,080 --> 00:02:22,560
climate advisor position was established
to ensure effective fulfillment of the

31

00:02:22,560 --> 00:02:27,599

biden harris administration's climate science objectives for the agency

32

00:02:27,599 --> 00:02:32,160

also on january 10th our 10 newest astronaut candidates reported for duty

33

00:02:32,160 --> 00:02:36,239

at our johnson space center and were sworn in kicking off their two-year

34

00:02:36,239 --> 00:02:40,319

training schedule when their training is complete they could be assigned to

35

00:02:40,319 --> 00:02:44,560

missions aboard the international space station launches from american soil on

36

00:02:44,560 --> 00:02:48,959

spacecraft built by commercial companies or artemis missions to the moon with

37

00:02:48,959 --> 00:02:53,599

nasa's orion spacecraft and space launch system rocket

38

00:02:53,599 --> 00:02:58,239

as teams continue to prepare our space launch system or sls rocket for this

39

00:02:58,239 --> 00:03:02,640

year's uncrewed artemis one flight test around the moon we and our partners

40

00:03:02,640 --> 00:03:06,480

across the country are also making progress building the rocket for artemis

41

00:03:06,480 --> 00:03:10,720

ii the first artemis moon mission with
astronauts we are also busy

42

00:03:10,720 --> 00:03:15,519

manufacturing and testing major parts of
rocket hardware for the artemis 3 4 and

43

00:03:15,519 --> 00:03:19,680

5 missions with artemis we will land the
first woman and the first person of

44

00:03:19,680 --> 00:03:23,760

color on the moon and establish
long-term lunar exploration in

45

00:03:23,760 --> 00:03:28,720

preparation for human missions to mars
that's what's up this week at nasa for