

# TW@N

THIS WEEK @ NASA



1  
00:00:04,630 --> 00:00:02,230  
showcasing our efforts to monitor

2  
00:00:06,470 --> 00:00:04,640  
earth's climate a spacecraft for an

3  
00:00:07,829 --> 00:00:06,480  
asteroid mission is close to its final

4  
00:00:09,830 --> 00:00:07,839  
configuration

5  
00:00:12,070 --> 00:00:09,840  
and assembly of our europa clipper

6  
00:00:13,830 --> 00:00:12,080  
spacecraft is underway a few of the

7  
00:00:14,960 --> 00:00:13,840  
stories to tell you about this week at

8  
00:00:16,790 --> 00:00:14,970  
nasa

9  
00:00:19,349 --> 00:00:16,800  
[Music]

10  
00:00:22,390 --> 00:00:19,359  
on march 8 u.s special presidential

11  
00:00:23,990 --> 00:00:22,400  
envoy for climate john kerry visited our

12  
00:00:26,550 --> 00:00:24,000  
ames research center in northern

13  
00:00:29,349 --> 00:00:26,560

california while there he toured the

14

00:00:31,589 --> 00:00:29,359

national full-scale aerodynamics complex

15

00:00:33,590 --> 00:00:31,599

the unique facility operated by the u.s

16

00:00:35,190 --> 00:00:33,600

air force which houses the world's

17

00:00:37,270 --> 00:00:35,200

largest wind tunnel

18

00:00:39,590 --> 00:00:37,280

carey was briefed on how the facility

19

00:00:41,670 --> 00:00:39,600

supports development of new wind turbine

20

00:00:43,990 --> 00:00:41,680

technologies and other climate-related

21

00:00:46,310 --> 00:00:44,000

innovations he also learned how the

22

00:00:48,709 --> 00:00:46,320

agency uses supercomputers at ames

23

00:00:51,270 --> 00:00:48,719

remote sensing tools and data from earth

24

00:00:53,910 --> 00:00:51,280

observing aircraft and spacecraft to

25

00:00:56,069 --> 00:00:53,920

study and monitor our climate

26  
00:00:58,229 --> 00:00:56,079  
our psyche spacecraft is a step closer

27  
00:01:00,069 --> 00:00:58,239  
to its final configuration ahead of its

28  
00:01:02,869 --> 00:01:00,079  
targeted launch this august to a

29  
00:01:04,469 --> 00:01:02,879  
metal-rich asteroid of the same name

30  
00:01:07,670 --> 00:01:04,479  
engineers at our jet propulsion

31  
00:01:10,070 --> 00:01:07,680  
laboratory or jpl in southern california

32  
00:01:12,870 --> 00:01:10,080  
recently attached the spacecraft's solar

33  
00:01:15,429 --> 00:01:12,880  
arrays they then tested the arrays by

34  
00:01:17,270 --> 00:01:15,439  
unfolding and restoring them

35  
00:01:19,270 --> 00:01:17,280  
after a three and a half year solar

36  
00:01:22,710 --> 00:01:19,280  
powered journey the spacecraft will

37  
00:01:24,550 --> 00:01:22,720  
arrive at asteroid psyche in 2026 and

38  
00:01:26,149 --> 00:01:24,560

spend nearly two years making

39

00:01:28,310 --> 00:01:26,159

increasingly close orbits of the

40

00:01:30,069 --> 00:01:28,320

asteroid to study it

41

00:01:32,950 --> 00:01:30,079

assembly of our europa clipper

42

00:01:34,789 --> 00:01:32,960

spacecraft is also underway at jpl with

43

00:01:36,550 --> 00:01:34,799

engineering components and science

44

00:01:38,390 --> 00:01:36,560

instruments being delivered from across

45

00:01:40,310 --> 00:01:38,400

the country and europe

46

00:01:42,789 --> 00:01:40,320

most of the flight hardware is expected

47

00:01:45,590 --> 00:01:42,799

to be complete by year's end the mission

48

00:01:48,389 --> 00:01:45,600

is targeted for an october 2024 launch

49

00:01:50,630 --> 00:01:48,399

to jupiter's moon europa to investigate

50

00:01:53,590 --> 00:01:50,640

whether the icy moon with its subsurface

51  
00:01:56,230 --> 00:01:53,600  
ocean is capable of supporting life

52  
00:01:59,030 --> 00:01:56,240  
for the first time nasa's neutron star

53  
00:02:01,030 --> 00:01:59,040  
interior composition explorer or nicer

54  
00:02:03,590 --> 00:02:01,040  
instrument mounted on the outside of the

55  
00:02:05,590 --> 00:02:03,600  
international space station has observed

56  
00:02:08,469 --> 00:02:05,600  
the merging of multi-million degree

57  
00:02:11,029 --> 00:02:08,479  
x-ray spots on the surface of a magnetar

58  
00:02:12,550 --> 00:02:11,039  
a super magnetized a stellar core no

59  
00:02:14,949 --> 00:02:12,560  
larger than a city

60  
00:02:16,390 --> 00:02:14,959  
nicer's unique set of observations could

61  
00:02:18,790 --> 00:02:16,400  
help provide a more complete

62  
00:02:20,949 --> 00:02:18,800  
understanding of the interplay between

63  
00:02:22,710 --> 00:02:20,959

the crust and magnetic field of these

64

00:02:24,630 --> 00:02:22,720

extreme objects

65

00:02:27,510 --> 00:02:24,640

no humans will fly on this year's

66

00:02:31,270 --> 00:02:27,520

upcoming artemis 1 mission but your name

67

00:02:33,350 --> 00:02:31,280

could just go to [nasa.gov](http://nasa.gov) we are going

68

00:02:35,830 --> 00:02:33,360

to add your name to a list of names

69

00:02:37,750 --> 00:02:35,840

stored on a flash drive that will make

70

00:02:40,309 --> 00:02:37,760

the historic trip around the moon and

71

00:02:43,110 --> 00:02:40,319

back you will also be able to generate

72

00:02:44,790 --> 00:02:43,120

and download your very own boarding pass

73

00:02:47,270 --> 00:02:44,800

artemis one will be the first in a

74

00:02:49,509 --> 00:02:47,280

series of increasingly complex missions

75

00:02:52,229 --> 00:02:49,519

to build a long-term human presence at

76

00:02:54,309 --> 00:02:52,239

the moon for decades to come

77

00:02:55,990 --> 00:02:54,319

that's what's up this week at nasa for