



1
00:00:00,000 --> 00:00:05,990

you

2
00:00:12,150 --> 00:00:08,550

mysterious Jupiter is the most massive

3
00:00:14,400 --> 00:00:12,160

planet in our solar system now NASA is

4
00:00:16,590 --> 00:00:14,410

preparing to send the pioneering Juno

5
00:00:19,560 --> 00:00:16,600

spacecraft on a one-year mission to

6
00:00:22,670 --> 00:00:19,570

study the stormy gas giant its mission

7
00:00:26,100 --> 00:00:22,680

to study Jupiter's core atmosphere

8
00:00:28,260 --> 00:00:26,110

powerful magnetic field and Aurora's all

9
00:00:31,890 --> 00:00:28,270

in hopes of expanding our knowledge of

10
00:00:33,990 --> 00:00:31,900

how our solar system formed Juno is

11
00:00:36,360 --> 00:00:34,000

launching from space launch complex 41

12
00:00:39,560 --> 00:00:36,370

at Cape Canaveral Air Force Station in

13
00:00:42,960 --> 00:00:39,570

Florida aboard a mighty Atlas 5 rocket

14

00:00:46,350 --> 00:00:42,970

the spacecraft arrived in Florida inside

15

00:00:49,709 --> 00:00:46,360

a US Air Force c-17 cargo plane touching

16

00:00:52,310 --> 00:00:49,719

down April 8 2011 on the shuttle landing

17

00:00:55,500 --> 00:00:52,320

facility at nearby Kennedy Space Center

18

00:00:58,020 --> 00:00:55,510

from there juna was moved to the high

19

00:01:00,479 --> 00:00:58,030

bay at Astro tech space operations in

20

00:01:03,630 --> 00:01:00,489

Titusville or technicians rented at for

21

00:01:06,600 --> 00:01:03,640

launch several critical pieces had to be

22

00:01:09,779 --> 00:01:06,610

installed including a high-gain antenna

23

00:01:12,600 --> 00:01:09,789

used for communications and all three

24

00:01:14,460 --> 00:01:12,610

power producing solar arrays which also

25

00:01:17,520 --> 00:01:14,470

were deployed and put through

26

00:01:19,710 --> 00:01:17,530

illumination testing as Juno was

27

00:01:22,109 --> 00:01:19,720

prepared for liftoff elements of the

28

00:01:24,150 --> 00:01:22,119

Atlas 5 launch vehicle built by United

29

00:01:26,999 --> 00:01:24,160

Launch Alliance began arriving May

30

00:01:29,100 --> 00:01:27,009

twenty-third the booster stage arrived

31

00:01:31,499 --> 00:01:29,110

at Cape Canaveral Air Force Station skid

32

00:01:34,650 --> 00:01:31,509

strip aboard a Russian Antonov cargo

33

00:01:38,160 --> 00:01:34,660

aircraft two days later the Centaur

34

00:01:40,499 --> 00:01:38,170

upper stage followed the Atlas 5 booster

35

00:01:42,180 --> 00:01:40,509

was hoisted into liftoff position inside

36

00:01:44,930 --> 00:01:42,190

the launch complexes vertical

37

00:01:47,910 --> 00:01:44,940

integration facility on June thirteenth

38

00:01:49,890 --> 00:01:47,920

then the Rockets five solid rocket

39

00:01:52,080 --> 00:01:49,900

boosters were attached

40

00:01:55,740 --> 00:01:52,090

the rocket centaur upper stage arrived

41

00:01:58,230 --> 00:01:55,750

at the launch pad jun 24th but before

42

00:02:01,200 --> 00:01:58,240

juno could join its rocket it had to

43

00:02:04,320 --> 00:02:01,210

pass the spin test a final check of its

44

00:02:06,870 --> 00:02:04,330

weight and balance Juno was deemed ready

45

00:02:08,760 --> 00:02:06,880

to fly then placed into the two-piece

46

00:02:10,770 --> 00:02:08,770

payload fairing that will protect the

47

00:02:14,040 --> 00:02:10,780

spacecraft during the first three and a

48

00:02:16,830 --> 00:02:14,050

half minutes of the climb to space early

49

00:02:18,540 --> 00:02:16,840

in the morning of July 27th the fairing

50

00:02:21,150 --> 00:02:18,550

containing NASA's newest and her

51

00:02:23,490 --> 00:02:21,160

planetary Explorer arrived at space

52

00:02:26,730 --> 00:02:23,500

launch complex 41 where it awaits