



1

00:00:02,409 --> 00:00:04,890

George Diller, NASA Launch Commentator: From Vandenberg Air Force Base in

2

00:00:04,890 --> 00:00:10,290

California, this is Delta Launch Control at T-minus one hour, 40 minutes, 52 seconds

3

00:00:10,290 --> 00:00:11,420

and counting.

4

00:00:11,420 --> 00:00:15,430

That puts us slightly more than two hours away from the launch of the

5

00:00:15,430 --> 00:00:20,900

Orbiting Carbon Observatory-2 spacecraft, also called OCO-2.

6

00:00:20,900 --> 00:00:25,949

This is NASA's first mission dedicated to studying atmospheric carbon dioxide, the

7

00:00:25,949 --> 00:00:30,590

leading human-produced greenhouse gas driving changes in Earth's climate.

8

00:00:30,590 --> 00:00:35,760

OCO-2 will provide a new tool for understanding the human and natural sources of

9

00:00:35,760 --> 00:00:41,670

carbon dioxide emissions and the so called natural sinks that absorb carbon dioxide and

10

00:00:41,670 --> 00:00:44,809

help control its build up in the atmosphere.

11

00:00:44,809 --> 00:00:49,270

The observatory will measure the global geographic distribution of these sources and

12

00:00:49,270 --> 00:00:52,539

study their changes over time.

13

00:00:52,539 --> 00:00:57,600

The OCO-2 spacecraft's final circular polar orbit will be

14

00:00:57,600 --> 00:01:02,559

438 nautical miles above the Earth at an inclination of 98.2 degrees.

15

00:01:02,559 --> 00:01:04,610

It will be circling

16

00:01:04,610 --> 00:01:07,490

the Earth every 99 minutes.

17

00:01:07,490 --> 00:01:11,680

OCO-2 will separate from the Delta 2 rocket 56 minutes, 15

18

00:01:11,680 --> 00:01:13,860

seconds after liftoff.

19

00:01:13,860 --> 00:01:20,110

At this time, preparations are underway for loading the Delta 2 rocket with liquid oxygen.

20

00:01:20,110 --> 00:01:25,880

Countdown activities began on schedule and have been proceeding normally.

21

00:01:25,880 --> 00:01:26,880

This will

22

00:01:26,880 --> 00:01:34,450

be the 152nd Delta 2 launch for United Launch Alliance and NASA's 51st on a Delta 2.

23

00:01:34,450 --> 00:01:41,239

NASA's first Delta launch from Vandenberg Air Force Base was on October 2, 1966 for

24

00:01:41,239 --> 00:01:43,370

the TAUS-A mission.

25

00:01:43,370 --> 00:01:46,220

We'll be getting a weather briefing shortly.

26

00:01:46,220 --> 00:01:49,750

At this time weather is

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00:01:49,750 --> 00:01:54,280

still very favorable for a launch overnight.

28

00:01:54,280 --> 00:01:56,860

And we're not working any issues or concerns

29

00:01:56,860 --> 00:01:59,210

at this point in the launch countdown.