



NO FUMARE PLEASE ALLACCIARE LE CINTURE
SMOKING FASTEN SEAT BELT

1

00:00:00,010 --> 00:00:04,070

[Mission Director] Ok, let's go through the experiments here. This will be a go for taxi.

2

00:00:04,090 --> 00:00:08,270

DMS: Go. Gravimeter: Go.

3

00:00:08,290 --> 00:00:12,280

MCORDS: Go. ATM: Go.

4

00:00:12,300 --> 00:00:16,300

Ku-Band, Snow: Go.

5

00:00:16,320 --> 00:00:20,300

LVIS: Go. Mission Science: Good to go.

6

00:00:20,320 --> 00:00:24,320

Ok safety techs, last check. [Carl Leuschen] Today we're doing the under flights

7

00:00:24,340 --> 00:00:28,320

of the CryoSat radar altimeter and the ICESat laser altimeter.

8

00:00:28,340 --> 00:00:32,330

ICESat is a satellite laser altimeter and CryoSat is a satellite radar altimeter.

9

00:00:32,350 --> 00:00:36,340

And these two instruments are used to measure topography of land and

10

00:00:36,360 --> 00:00:40,340

snow and the ocean surface. Some of the stuff we do is calibration and

11

00:00:40,360 --> 00:00:44,370

validation of the data products they get. Being much closer to the surface

12

00:00:44,390 --> 00:00:48,480

in an aircraft, we can get more detailed measurements in finer resolution

13

00:00:48,500 --> 00:00:52,490

so we can use these measurements to help make sure that the measurements

14

00:00:52,510 --> 00:00:56,570

that they're receiving from the satellite are calibrated and they're also measuring what

15

00:00:56,590 --> 00:01:00,630

they want to. With the radar we have, you can actually look at

16

00:01:00,650 --> 00:01:04,650

or distinguish the surface layer and internal layers and help to answer these questions.

17

00:01:04,670 --> 00:01:08,750

What we hope to see is

18

00:01:08,770 --> 00:01:12,760

good agreement between the measurements. It will take a while to

19

00:01:12,780 --> 00:01:16,780

get the measurements back from the satellite system and then also process

20

00:01:16,800 --> 00:01:20,870

the data and go through the calibration routines and then do the comparison between