



1
00:00:00,820 --> 00:00:07,060
[Music] [Aircraft taking off]

2
00:00:08,959 --> 00:00:13,250
A recent airborne radar survey in the Napa Valley area of Northern California conducted

3
00:00:13,250 --> 00:00:18,340
by NASA scientists has revealed clear indications of fault-line displacements near the epicenter

4
00:00:18,340 --> 00:00:23,380
of the 6.0-magnitude Napa Valley earthquake that occurred Aug. 24.

5
00:00:23,380 --> 00:00:27,900
Results from a sophisticated radar system developed by NASA's Jet Propulsion Laboratory

6
00:00:27,900 --> 00:00:33,580
in Pasadena, California showed distinct lines that reflect slippage along multiple strands of the fault when

7
00:00:33,580 --> 00:00:36,620
compared with radar imagery taken over the area three months earlier.

8
00:00:37,540 --> 00:00:41,180
A precision autopilot developed by engineers at NASA's Armstrong Flight Research

9
00:00:41,190 --> 00:00:45,789
Center enabled the C-20A aircraft carrying the synthetic aperture radar system to fly

10
00:00:45,789 --> 00:00:50,789
exactly the same route as it had on this earlier flight, providing basis for the comparison.

11
00:00:52,340 --> 00:00:54,080
Jeff Wilson: Engage

12

00:00:54,080 --> 00:00:56,100

[Radio Chatter]

13

00:00:57,360 --> 00:00:58,749

Jeff Wilson: Right now, the pilots

14

00:00:58,749 --> 00:01:05,749

aren't even flying the airplane- it's completely hands-off. This right here is actually flying

15

00:01:05,749 --> 00:01:06,960

the airplane.

16

00:01:09,640 --> 00:01:13,860

Roger Chao: We followed this route before and we have to fly the same fly the same route

17

00:01:13,869 --> 00:01:18,899

and compare the data that we found from the previous flight and today's flight and then

18

00:01:18,899 --> 00:01:23,339

we can measure how much the Earth's surface moved.

19

00:01:23,340 --> 00:01:26,400

Manny Antimisiaris: Hopefully we'll get some really good science data

20

00:01:26,400 --> 00:01:27,880

that will help the community.

21

00:01:27,880 --> 00:01:31,880

>>After analysis by JPL scientists, rapid-response data maps were provided to

22

00:01:31,890 --> 00:01:36,750

the California Earthquake Clearinghouse to aid its response efforts. Radar maps defining

23
00:01:36,750 --> 00:01:40,780
movement along the San Pablo Bay shoreline
was also provided to the California Department

24
00:01:40,780 --> 00:01:44,649
of Water Resources to support their
levee and aqueduct damage assessment response