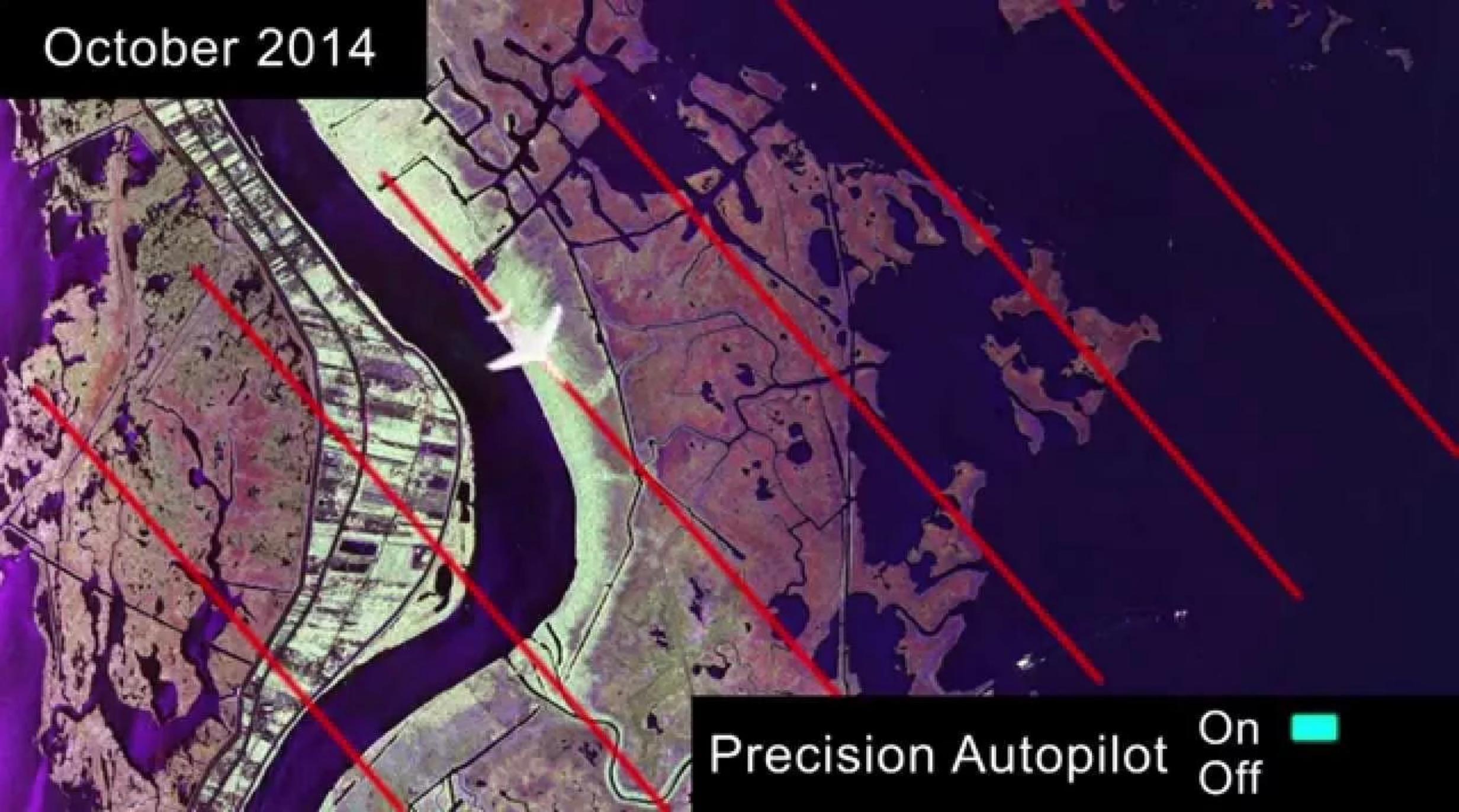October 2014

Precision Autopilot On Off

1
00:00:01,140 --> 00:00:06,420
[Water lapping] [Bugs]

2
00:00:06,420 --> 00:00:10,140
[Music]

3
00:00:11,820 --> 00:00:14,900
[Trees sinking]

4
00:00:19,180 --> 00:00:22,980
[Water lapping]

5
00:00:26,660 --> 00:00:30,380
[Car traffic]

6
00:00:32,780 --> 00:00:34,520
[Music]

7
00:00:34,520 --> 00:00:37,860
[Tarmac sounds]

8
00:00:41,180 --> 00:00:43,180
[Music]

9
00:00:43,180 --> 00:00:46,940
[Airplane taking off]

10
00:00:48,120 --> 00:00:52,040
[Music] [Jet engines]

11
00:01:07,600 --> 00:01:09,400
>>28502 is loaded.

12
00:01:09,400 --> 00:01:10,560
>>Bars are up.

13
00:01:10,560 --> 00:01:11,840

>>PPA engaged.

14
00:01:11,840 --> 00:01:13,840
>>Released.

15
00:01:14,280 --> 00:01:18,990
>>This is our flight plan. We're gonna fly
thirteen UAVSAR science lines to measure the

16
00:01:18,990 --> 00:01:21,070
levees and the earth around New Orleans.

17
00:01:21,080 --> 00:01:25,080
>>We like to look at this once or twice a year and see what's developed here since

18
00:01:25,080 --> 00:01:27,080
the last time we did this trip.

19
00:01:27,659 --> 00:01:33,079
>>Basically we take the measurement of the
surface, and we can detect when the surface

20
00:01:33,079 --> 00:01:37,479
has movement. First of all we want to make
sure there's no movement of those levees.

21
00:01:37,479 --> 00:01:40,880
As far as the sinkhole goes, we study it to
see if we can see the trend.

22
00:01:40,880 --> 00:01:46,689
>>My role is to operate the Payload Precision
Autopilot. It's the system that helps the

23
00:01:46,689 --> 00:01:51,740
aircraft repeat lines over and over. For example,
the lines we're doing right now we repeat

24
00:01:51,740 --> 00:01:55,759

on a regular basis, so the scientists can
see differences over a period of time.

25
00:01:55,759 --> 00:02:00,469
>>It's beneficial for the residents to know
where the sinkhole is, how much the land is

26
00:02:00,469 --> 00:02:03,749
sinking, and also the integrity of
the levees.

27
00:02:03,749 --> 00:02:06,589
[Jet sounds] [Music]

28
00:02:09,640 --> 00:02:11,320
>>Line completed.

29
00:02:11,320 --> 00:02:13,320
>>Line complete.

30
00:02:13,320 --> 00:02:14,480
>>Ok, I've got the jet.

31
00:02:14,480 --> 00:02:16,140
>>Disengaged.

32
00:02:18,360 --> 00:02:20,360
[Radio chatter]