



1
00:00:08,540 --> 00:00:05,180
hi and welcome to NASA's Jet Propulsion

2
00:00:10,280 --> 00:00:08,550
Laboratory in Pasadena California my

3
00:00:11,660 --> 00:00:10,290
name is Todd barber lead propulsion

4
00:00:13,490 --> 00:00:11,670
engineer on the Cassini mission to

5
00:00:15,709 --> 00:00:13,500
Saturn here with the latest news from

6
00:00:17,180 --> 00:00:15,719
the range planet as we complete our

7
00:00:19,310 --> 00:00:17,190
fourth year of what can only be

8
00:00:21,859 --> 00:00:19,320
described as a whirlwind tour of Saturn

9
00:00:23,840 --> 00:00:21,869
Cassini has been monitoring a wild five

10
00:00:26,390 --> 00:00:23,850
months long storm and sending home

11
00:00:28,700 --> 00:00:26,400
amazing pictures of it this tempest

12
00:00:30,529 --> 00:00:28,710
rages with lightning bolts ten thousand

13
00:00:31,009 --> 00:00:30,539

times more powerful than those found on

14

00:00:33,830 --> 00:00:31,019

earth

15

00:00:36,350 --> 00:00:33,840

the storm is in a region dubbed storm

16

00:00:38,720 --> 00:00:36,360

alley by scientists because of activity

17

00:00:40,459 --> 00:00:38,730

that's constantly brewing there it's not

18

00:00:43,369 --> 00:00:40,469

unlike Tornado Alley in the Midwestern

19

00:00:45,200 --> 00:00:43,379

United States on May 12th Cassini

20

00:00:47,420 --> 00:00:45,210

successfully completed the first of two

21

00:00:49,610 --> 00:00:47,430

final titan flybys left in its original

22

00:00:51,200 --> 00:00:49,620

four year tour it's hard to believe

23

00:00:51,760 --> 00:00:51,210

that's all that's left in this part of

24

00:00:54,410 --> 00:00:51,770

the mission

25

00:00:56,569 --> 00:00:54,420

these last prime mission flybys are

26
00:00:58,639 --> 00:00:56,579
northern hemisphere passes and feature

27
00:01:00,830 --> 00:00:58,649
the radar instrument which can pierce

28
00:01:03,560 --> 00:01:00,840
through Titans thick haze down to the

29
00:01:05,359 --> 00:01:03,570
surface during the May 12th flyby

30
00:01:07,520 --> 00:01:05,369
Cassini's radar mapped the bright

31
00:01:09,530 --> 00:01:07,530
continent like feature names an Adu

32
00:01:12,350 --> 00:01:09,540
which was only partially imaged

33
00:01:15,440 --> 00:01:12,360
previously overlaps and coverage may

34
00:01:18,440 --> 00:01:15,450
actually yield stereo or 3d images of

35
00:01:20,929 --> 00:01:18,450
this region and this first view a set of

36
00:01:23,200 --> 00:01:20,939
three parallel ridges is seen along with

37
00:01:25,990 --> 00:01:23,210
what may be an impact crater

38
00:01:28,600 --> 00:01:26,000

the radar team also targeted a possible

39

00:01:30,760 --> 00:01:28,610

cryo volcanic feature which was visible

40

00:01:33,820 --> 00:01:30,770

in previous infrared images as shown in

41

00:01:36,370 --> 00:01:33,830

these snapshots during our final flyby

42

00:01:39,190 --> 00:01:36,380

of the original tour on May 28th the

43

00:01:41,590 --> 00:01:39,200

radar team will image Titan again this

44

00:01:44,320 --> 00:01:41,600

pass will include imagery over Xanadu

45

00:01:46,990 --> 00:01:44,330

and inbound altima tree over the area

46

00:01:49,450 --> 00:01:47,000

image during our previous flyby on a

47

00:01:50,800 --> 00:01:49,460

very happy closing note I'm thrilled

48

00:01:52,780 --> 00:01:50,810

along with the rest of the team that

49

00:01:55,090 --> 00:01:52,790

Cassini's journey will continue for at

50

00:01:57,160 --> 00:01:55,100

least two more years our extended

51
00:01:59,530 --> 00:01:57,170
mission named the Saturn Equinox mission

52
00:02:03,040 --> 00:01:59,540
will commence this summer a two-year

53
00:02:05,350 --> 00:02:03,050
extravaganza with 26 Titan flybys seven

54
00:02:07,660 --> 00:02:05,360
and cela dicent counters and one fly by

55
00:02:10,030 --> 00:02:07,670
each of the icy moons die Oni Raya and

56
00:02:12,220 --> 00:02:10,040
Helene with your latest news from