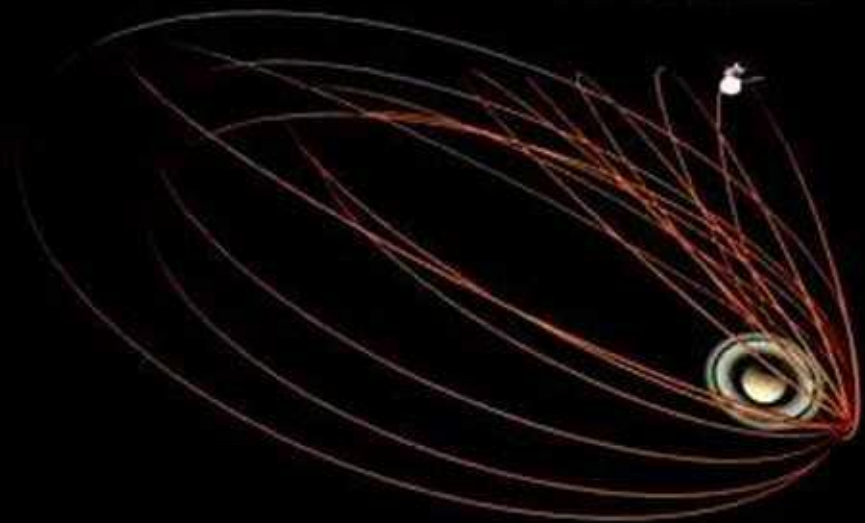


Pi-transfer



1
00:00:06,340 --> 00:00:05,170
hello and welcome to NASA's Jet

2
00:00:08,920 --> 00:00:06,350
Propulsion Laboratory in Pasadena

3
00:00:10,360 --> 00:00:08,930
California I'm Todd barber lead

4
00:00:12,280 --> 00:00:10,370
propulsion engineer on the Cassini

5
00:00:16,330 --> 00:00:12,290
mission to Saturn with your latest news

6
00:00:18,160 --> 00:00:16,340
from the range planet on jun 27 2007 the

7
00:00:20,769 --> 00:00:18,170
Cassini spacecraft made its second of

8
00:00:23,200 --> 00:00:20,779
two close flybys of Saturn's icy moon t

9
00:00:24,939 --> 00:00:23,210
'this p 'this is coated with particles

10
00:00:28,179 --> 00:00:24,949
from Saturn's earring that may

11
00:00:30,640 --> 00:00:28,189
contribute to its brightness this flyby

12
00:00:32,710 --> 00:00:30,650
focused on Ithaca Chasma a system of

13
00:00:35,080 --> 00:00:32,720

canyons that is four times as long as

14

00:00:37,270 --> 00:00:35,090

Earth's Grand Canyon scientists want to

15

00:00:39,970 --> 00:00:37,280

know how these canyons formed was teeth

16

00:00:42,190 --> 00:00:39,980

us active in the past or did the canyons

17

00:00:43,630 --> 00:00:42,200

formed due to large impact events like

18

00:00:46,240 --> 00:00:43,640

the one that produced the large crater

19

00:00:49,300 --> 00:00:46,250

Odysseus

20

00:00:51,460 --> 00:00:49,310

Cassini flew by titan on jun 29 2007 and

21

00:00:54,070 --> 00:00:51,470

completed a portion of the tour we call

22

00:00:56,740 --> 00:00:54,080

the pi transfer we used low altitude

23

00:00:58,570 --> 00:00:56,750

flybys of Titan and Titans gravity to

24

00:01:01,180 --> 00:00:58,580

slingshot the spacecraft into higher

25

00:01:02,290 --> 00:01:01,190

inclination orbits around Saturn this

26

00:01:04,270 --> 00:01:02,300

enabled us to get these

27

00:01:06,400 --> 00:01:04,280

never-before-seen views of the Rings

28

00:01:08,260 --> 00:01:06,410

including this breathtaking image from

29

00:01:12,340 --> 00:01:08,270

high above the ranked planets cloud tops

30

00:01:15,400 --> 00:01:12,350

our next Titan encounter will take place

31

00:01:16,840 --> 00:01:15,410

on July 19th 2007 this flyby will

32

00:01:18,760 --> 00:01:16,850

feature by static scattering

33

00:01:21,400 --> 00:01:18,770

observations just to the west of the

34

00:01:23,050 --> 00:01:21,410

Huygens landing site by static

35

00:01:25,210 --> 00:01:23,060

scattering is a type of radio science

36

00:01:27,760 --> 00:01:25,220

observation used to determine the nature

37

00:01:29,350 --> 00:01:27,770

and composition of the surface and it

38

00:01:31,180 --> 00:01:29,360

will provide important context

39

00:01:34,120 --> 00:01:31,190

information for the successful Huygens

40

00:01:36,100 --> 00:01:34,130

mission that's the latest news from the

41

00:01:37,779 --> 00:01:36,110

range planet this is Todd Barbara at