



**On Titan**



Caspian Sea  
on Earth

1  
00:00:05,740 --> 00:00:04,570  
hello and welcome to NASA's Jet

2  
00:00:08,410 --> 00:00:05,750  
Propulsion Laboratory in Pasadena

3  
00:00:10,810 --> 00:00:08,420  
California I'm Todd barber with your

4  
00:00:12,580 --> 00:00:10,820  
latest news from saturn the familiar

5  
00:00:14,799 --> 00:00:12,590  
banded appearance of Saturn's atmosphere

6  
00:00:17,080 --> 00:00:14,809  
was recently investigated by Cassini

7  
00:00:19,210 --> 00:00:17,090  
these bands are caused by zonal winds

8  
00:00:21,130 --> 00:00:19,220  
like jet streams on planet Earth and

9  
00:00:23,590 --> 00:00:21,140  
they're often flanked by giant rotating

10  
00:00:25,960 --> 00:00:23,600  
storms or Eddie's and yet another

11  
00:00:28,060 --> 00:00:25,970  
example of planetary science reminding

12  
00:00:29,859 --> 00:00:28,070  
us how much we have to learn we now

13  
00:00:32,470 --> 00:00:29,869

believe these powerful jet streams are

14

00:00:34,270 --> 00:00:32,480

actually driven by the eddies this is

15

00:00:38,200 --> 00:00:34,280

exactly the opposite of what we thought

16

00:00:40,000 --> 00:00:38,210

prior to Cassini Jupiter may be the

17

00:00:42,700 --> 00:00:40,010

giant of our solar system but in my

18

00:00:45,100 --> 00:00:42,710

humble opinion Saturn is the gym in this

19

00:00:47,290 --> 00:00:45,110

recent breathtaking natural color image

20

00:00:51,040 --> 00:00:47,300

there's as much artistry and sublime

21

00:00:53,350 --> 00:00:51,050

beauty as there is science our quick

22

00:00:55,299 --> 00:00:53,360

thinking radar team actually retargeted

23

00:00:57,819 --> 00:00:55,309

their instrument to more optimally view

24

00:01:00,220 --> 00:00:57,829

this apparent sibling of Earth's Caspian

25

00:01:03,250 --> 00:01:00,230

Sea this enabled a better look at this

26

00:01:05,260 --> 00:01:03,260

intriguing feature most importantly it

27

00:01:07,060 --> 00:01:05,270

might offer further evidence for surface

28

00:01:09,310 --> 00:01:07,070

liquid on a body other than the earth

29

00:01:11,050 --> 00:01:09,320

perhaps even with estimates of the

30

00:01:14,649 --> 00:01:11,060

amount of liquid in this otherworldly

31

00:01:17,859 --> 00:01:14,659

organic see Cassini's next Titan flyby

32

00:01:20,950 --> 00:01:17,869

will be on May 28 2007 and it will be

33

00:01:22,690 --> 00:01:20,960

primarily devoted to radio science the

34

00:01:24,880 --> 00:01:22,700

properties of titans polar atmosphere

35

00:01:26,499 --> 00:01:24,890

including the north polar vortex will

36

00:01:29,020 --> 00:01:26,509

reveal themselves during this unique

37

00:01:30,940 --> 00:01:29,030

geometric opportunity the spacecraft

38

00:01:33,429 --> 00:01:30,950

will also image a bright surface feature

39

00:01:36,609 --> 00:01:33,439

on Titan named Dillman using infrared

40

00:01:38,469 --> 00:01:36,619

and visible light cameras from Pasadena

41

00:01:40,240 --> 00:01:38,479

California this is Todd barber with