



Earth's aurora from space

1
00:00:22,109 --> 00:00:18,750
you can see the aurora in certain

2
00:00:26,670 --> 00:00:22,119
wavelengths even from earth Hubble sees

3
00:00:29,070 --> 00:00:26,680
the ultraviolet aurora what what's new

4
00:00:31,920 --> 00:00:29,080
is that we're up close with Cassini and

5
00:00:34,740 --> 00:00:31,930
that enables us to see details that

6
00:00:36,720 --> 00:00:34,750
we've never seen before Cassini cameras

7
00:00:40,080 --> 00:00:36,730
are using visible lights so this is the

8
00:00:45,690 --> 00:00:40,090
first time we've got really nice images

9
00:00:48,690 --> 00:00:45,700
in visible light I saw those those

10
00:00:53,520 --> 00:00:48,700
Aurora's shimmering and changing with

11
00:00:56,400 --> 00:00:53,530
time sort of flickering and I just I

12
00:00:59,729 --> 00:00:56,410
just liked the action so I thought it

13
00:01:02,130 --> 00:00:59,739

was beautiful we were always looking for

14

00:01:05,670 --> 00:01:02,140

similarities between planets especially

15

00:01:08,130 --> 00:01:05,680

things that we can compare with earth in

16

00:01:11,840 --> 00:01:08,140

fact the Aurora's on Saturn have a lot

17

00:01:14,760 --> 00:01:11,850

of similarities to the Aurora's on earth

18

00:01:17,960 --> 00:01:14,770

both on earth and on Saturn you have

19

00:01:20,550 --> 00:01:17,970

charged particles from outer space

20

00:01:25,649 --> 00:01:20,560

crashing into the upper atmosphere and

21

00:01:28,590 --> 00:01:25,659

causing it to glow the magnetic field

22

00:01:31,859 --> 00:01:28,600

guides the particles into the high

23

00:01:33,630 --> 00:01:31,869

latitudes so there's Northern Lights and

24

00:01:36,149 --> 00:01:33,640

Southern Lights and they're both near

25

00:01:38,820 --> 00:01:36,159

the poles on earth and that's also true

26

00:01:41,609 --> 00:01:38,830

on Saturn it's near the poles that the

27

00:01:45,899 --> 00:01:41,619

magnetic field guides the particles into

28

00:01:50,630 --> 00:01:45,909

the atmosphere I'm a weatherman I like I

29

00:01:53,219 --> 00:01:50,640

like weather at all altitudes from

30

00:01:56,950 --> 00:01:53,229

hurricanes near the ground to the

31

00:02:00,490 --> 00:01:56,960

weather of the top of the atmosphere

32

00:02:02,950 --> 00:02:00,500

the vacuum of space has weather changing