



1
00:01:01,270 --> 00:00:58,470
the great thing about npp

2
00:01:03,990 --> 00:01:01,280
is that it's continuing

3
00:01:05,270 --> 00:01:04,000
a long series of observations

4
00:01:11,030 --> 00:01:05,280
um

5
00:01:13,429 --> 00:01:11,040
measurement of ozone which has a long

6
00:01:16,230 --> 00:01:13,439
history from the 1970s

7
00:01:18,310 --> 00:01:16,240
um the the series instrument measuring

8
00:01:20,870 --> 00:01:18,320
the earth's radiation budget the same

9
00:01:23,510 --> 00:01:20,880
thing it's measuring and and how that's

10
00:01:25,830 --> 00:01:23,520
is very it's critical for climate change

11
00:01:27,830 --> 00:01:25,840
veers and its measurements of the

12
00:01:29,429 --> 00:01:27,840
surface and clouds

13
00:01:32,550 --> 00:01:29,439

these things are changing as our

14

00:01:34,069 --> 00:01:32,560

atmosphere changes and as our uses of

15

00:01:35,910 --> 00:01:34,079

the land

16

00:01:38,390 --> 00:01:35,920

all these processes are changing as

17

00:01:39,590 --> 00:01:38,400

climate changes

18

00:01:43,910 --> 00:01:39,600

chris

19

00:01:45,590 --> 00:01:43,920

course as things warm up you get more ir

20

00:01:47,190 --> 00:01:45,600

radiation space

21

00:01:49,830 --> 00:01:47,200

as you put different gases into the

22

00:01:52,870 --> 00:01:49,840

atmosphere or gases increase the ir

23

00:01:55,109 --> 00:01:52,880

changes and in the microwave also

24

00:01:58,870 --> 00:01:55,119

there are a lot of changes happening in

25

00:02:01,350 --> 00:01:58,880

our atmosphere the npp satellite will

26

00:02:03,429 --> 00:02:01,360

continue this series it gives us

27

00:02:04,230 --> 00:02:03,439

real-time information but allows us to

28

00:02:06,709 --> 00:02:04,240

see

29

00:02:09,350 --> 00:02:06,719

how our atmosphere and the planet are

30

00:02:12,229 --> 00:02:09,360

changing

31

00:02:13,990 --> 00:02:12,239

there's a lot of interconnecting systems

32

00:02:15,750 --> 00:02:14,000

that all

33

00:02:17,830 --> 00:02:15,760

require measurements to try to

34

00:02:20,390 --> 00:02:17,840

understand so if you're looking at the

35

00:02:21,990 --> 00:02:20,400

sea surface temperature

36

00:02:23,910 --> 00:02:22,000

how does that relate to the amount of

37

00:02:26,470 --> 00:02:23,920

moisture in the atmosphere which can

38

00:02:28,869 --> 00:02:26,480

then we measure with npp which then

39

00:02:30,710 --> 00:02:28,879

changes the weather which then changes

40

00:02:33,190 --> 00:02:30,720

land use which then changes the amount

41

00:02:34,710 --> 00:02:33,200

of dust or the greenness so these are

42

00:02:37,190 --> 00:02:34,720

all connected things that we're trying

43

00:02:39,190 --> 00:02:37,200

to understand so by making all of these

44

00:02:42,390 --> 00:02:39,200

individual measurements that helps us

45

00:02:44,070 --> 00:02:42,400

get a sense of what the whole picture is

46

00:02:46,309 --> 00:02:44,080

if we can provide

47

00:02:47,990 --> 00:02:46,319

very quick response to changes that are

48

00:02:50,309 --> 00:02:48,000

taking place on the surface and these

49

00:02:52,070 --> 00:02:50,319

data become extremely useful for the

50

00:02:53,990 --> 00:02:52,080

operational community that are dealing

51
00:02:55,910 --> 00:02:54,000
with disasters or

52
00:02:57,750 --> 00:02:55,920
major events so for example by

53
00:02:59,190 --> 00:02:57,760
monitoring the drought in different

54
00:03:02,390 --> 00:02:59,200
parts of the world

55
00:03:04,710 --> 00:03:02,400
food aid can be allocated to relieve

56
00:03:07,350 --> 00:03:04,720
famine and help people from

57
00:03:08,630 --> 00:03:07,360
from suffering because of shortages of

58
00:03:11,589 --> 00:03:08,640
food

59
00:03:13,990 --> 00:03:11,599
if there are major flooding events

60
00:03:15,509 --> 00:03:14,000
we can give an indication of the extent

61
00:03:17,509 --> 00:03:15,519
of the flooding from the satellite if

62
00:03:18,949 --> 00:03:17,519
these data are provided in near real

63
00:03:21,190 --> 00:03:18,959

time