



VIIRS

CRIS

ATMS

OMPS

CERES



1
00:00:11,450 --> 00:00:08,480
this is our home in the universe and

2
00:00:14,390 --> 00:00:11,460
these our satellites that keep an eye on

3
00:00:16,730 --> 00:00:14,400
our planet right now so I launched

4
00:00:18,380 --> 00:00:16,740
another earth-observing satellite well

5
00:00:20,779 --> 00:00:18,390
spacecraft instruments just like

6
00:00:22,849 --> 00:00:20,789
anything else grow old they decay and

7
00:00:24,590 --> 00:00:22,859
they break not only do we need to

8
00:00:26,330 --> 00:00:24,600
replace the old instruments but we also

9
00:00:28,130 --> 00:00:26,340
need to improve what's out there in

10
00:00:30,290 --> 00:00:28,140
order to get more accurate observations

11
00:00:32,690 --> 00:00:30,300
that's why NASA and NOAA are working

12
00:00:35,810 --> 00:00:32,700
together to build launched and operate a

13
00:00:37,940 --> 00:00:35,820

new polar orbiting satellite called NPP

14

00:00:39,590 --> 00:00:37,950

this new satellite will collect critical

15

00:00:41,600 --> 00:00:39,600

measurements about our planet's

16

00:00:43,459 --> 00:00:41,610

atmosphere oceans and land surface and

17

00:00:46,040 --> 00:00:43,469

to understand how our climate is

18

00:00:48,170 --> 00:00:46,050

changing over long periods of time we

19

00:00:51,830 --> 00:00:48,180

need continuous observations of features

20

00:00:54,080 --> 00:00:51,840

like CI clouds and force what's really

21

00:00:56,510 --> 00:00:54,090

important is that NPP continue adding to

22

00:00:58,369 --> 00:00:56,520

its two dozen plus key data records

23

00:01:00,590 --> 00:00:58,379

started by previous or observing

24

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

satellites these records are critical

25

00:01:04,369 --> 00:01:01,920

for understanding the health of our

26
00:01:07,670 --> 00:01:04,379
planet now as well as how things might

27
00:01:09,620 --> 00:01:07,680
change in the future and MPP will test

28
00:01:11,240 --> 00:01:09,630
five instruments in preparation for the

29
00:01:14,390 --> 00:01:11,250
new generation of weather satellites

30
00:01:16,640 --> 00:01:14,400
known as GPSS the largest and most

31
00:01:18,679 --> 00:01:16,650
complex instrument is an imager that

32
00:01:20,840 --> 00:01:18,689
will monitor broad swath of land oceans

33
00:01:22,730 --> 00:01:20,850
and air two other instruments will work

34
00:01:24,590 --> 00:01:22,740
together aidan weather forecasting by

35
00:01:27,020 --> 00:01:24,600
focusing on atmospheric temperatures and

36
00:01:28,670 --> 00:01:27,030
moisture profiles another instrument

37
00:01:30,530 --> 00:01:28,680
will monitor changes in the ozone layer

38
00:01:33,649 --> 00:01:30,540

which protects Earth from harmful

39

00:01:35,390 --> 00:01:33,659

ultraviolet radiation NPP will also have

40

00:01:37,190 --> 00:01:35,400

an instrument that will focus on energy

41

00:01:39,679 --> 00:01:37,200

reflecting back from the clouds and

42

00:01:40,910 --> 00:01:39,689

assistance the data from this instrument

43

00:01:44,450 --> 00:01:40,920

will help understand the changes in

44

00:01:47,389 --> 00:01:44,460

climate over time that is a broad suite

45

00:01:49,429 --> 00:01:47,399

of observations and because oceans land

46

00:01:52,219 --> 00:01:49,439

atmosphere living organisms are all

47

00:01:54,160 --> 00:01:52,229

connected if one changes it would affect

48

00:01:56,630 --> 00:01:54,170

the other elements in their system

49

00:01:58,580 --> 00:01:56,640

exactly and by making these individual

50

00:02:00,830 --> 00:01:58,590

measurements were one step closer to

51
00:02:03,590 --> 00:02:00,840
understanding the big picture let's be

52
00:02:05,480 --> 00:02:03,600
clear that NPP can't do it all NPP is

53
00:02:08,359 --> 00:02:05,490
more focused on the here and now while

54
00:02:10,430 --> 00:02:08,369
users like NASA NOAA and others will use

55
00:02:12,230 --> 00:02:10,440
complex computer models to predict

56
00:02:15,440 --> 00:02:12,240
tomorrow's weather for the course of

57
00:02:17,630 --> 00:02:15,450
climate change so mkp has two specific

58
00:02:20,030 --> 00:02:17,640
goals one is deliver data for weather

59
00:02:22,190 --> 00:02:20,040
forecasting the other is to add new and

60
00:02:24,380 --> 00:02:22,200
better measurements to the decades of

61
00:02:25,610 --> 00:02:24,390
existing data set which makes an PP the

62
00:02:27,860 --> 00:02:25,620
nation's first attempt to combine

63
00:02:29,810 --> 00:02:27,870

weather monitoring and climate observing

64

00:02:31,820 --> 00:02:29,820

on the same platform helping scientists