

GOES-R SATELLITE PLAN NOW WITH NEW SCIENCE!



1
00:00:03,350 --> 00:00:01,829
say you've been observing earth's

2
00:00:05,430 --> 00:00:03,360
weather using goes satellites for the

3
00:00:06,710 --> 00:00:05,440
past 40 years and suddenly you realize

4
00:00:07,990 --> 00:00:06,720
you need to launch another satellite to

5
00:00:09,990 --> 00:00:08,000
keep doing it because it's really

6
00:00:12,070 --> 00:00:10,000
important naturally you might think to

7
00:00:13,589 --> 00:00:12,080
yourself great let's just box up parts

8
00:00:15,190 --> 00:00:13,599
from the previous satellites

9
00:00:16,950 --> 00:00:15,200
launch them into space

10
00:00:18,630 --> 00:00:16,960
and let them do their thing

11
00:00:19,510 --> 00:00:18,640
unfortunately that's just not how it

12
00:00:20,870 --> 00:00:19,520
works

13
00:00:22,230 --> 00:00:20,880

scientists and engineers are always

14

00:00:24,310 --> 00:00:22,240

looking for better ways to improve the

15

00:00:25,910 --> 00:00:24,320

weather forecast and for them images

16

00:00:27,750 --> 00:00:25,920

like this from decades-old satellites

17

00:00:29,349 --> 00:00:27,760

just aren't quite up to snuff

18

00:00:31,029 --> 00:00:29,359

thankfully scientists and engineers have

19

00:00:32,870 --> 00:00:31,039

been busy working with meteorologists to

20

00:00:34,709 --> 00:00:32,880

improve things so they have an idea of

21

00:00:35,910 --> 00:00:34,719

what data is needed next

22

00:00:37,270 --> 00:00:35,920

that way when they launch a new

23

00:00:38,869 --> 00:00:37,280

satellite they're adding to what they've

24

00:00:41,030 --> 00:00:38,879

learned before which means even better

25

00:00:42,790 --> 00:00:41,040

weather forecasts for the rest of us so

26
00:00:45,270 --> 00:00:42,800
when you build a satellite noise nor go

27
00:00:47,270 --> 00:00:45,280
series called goes-r it naturally sets

28
00:00:48,549 --> 00:00:47,280
up a flurry of activity

29
00:00:49,990 --> 00:00:48,559
because they always want to improve

30
00:00:51,670 --> 00:00:50,000
things engineers might change the

31
00:00:53,350 --> 00:00:51,680
satellite platform upgrade all the

32
00:00:54,950 --> 00:00:53,360
instruments and because it's meant to

33
00:00:56,229 --> 00:00:54,960
improve the forecast add something

34
00:00:58,389 --> 00:00:56,239
totally new that's never been done

35
00:01:00,150 --> 00:00:58,399
before like a new lightning mapper

36
00:01:01,750 --> 00:01:00,160
after months of constructive debates and

37
00:01:03,750 --> 00:01:01,760
probably more than a few late nights

38
00:01:05,270 --> 00:01:03,760

they'll finally come to an agreement

39

00:01:06,710 --> 00:01:05,280

once everything's been approved the

40

00:01:09,030 --> 00:01:06,720

engineers get to design and put the

41

00:01:10,870 --> 00:01:09,040

satellite together however even though

42

00:01:12,310 --> 00:01:10,880

they've built go satellites before it's

43

00:01:14,230 --> 00:01:12,320

not just a matter of pulling out the old

44

00:01:15,830 --> 00:01:14,240

designs and bolting everything together

45

00:01:17,990 --> 00:01:15,840

because there's new science to be done

46

00:01:21,350 --> 00:01:18,000

things have to be redesigned modified

47

00:01:23,270 --> 00:01:21,360

upgraded built tested retested tested

48

00:01:24,870 --> 00:01:23,280

some more and finally delivered so that

49

00:01:26,870 --> 00:01:24,880

at the end of the day it all fits neatly

50

00:01:28,469 --> 00:01:26,880

atop a giant rocket once all that's

51

00:01:30,069 --> 00:01:28,479

finished the satellite launches into

52

00:01:31,830 --> 00:01:30,079

space the scientists and engineers

53

00:01:32,950 --> 00:01:31,840

celebrate and lots of new data starts