1
00:00:05,190 --> 00:00:02,629
this morning we're talking with andre

2
00:00:07,349 --> 00:00:05,200
dress uh nasa goes deputy project

3
00:00:08,790 --> 00:00:07,359
manager good morning andre good morning

4
00:00:10,629 --> 00:00:08,800
so the ghost satellites are an

5
00:00:12,789 --> 00:00:10,639
invaluable tool in tracking hurricanes

6
00:00:14,230 --> 00:00:12,799
and severe storms can you tell us more

7
00:00:15,910 --> 00:00:14,240
about this mission and the new goes

8
00:00:17,750 --> 00:00:15,920
satellite you just recently launched

9
00:00:19,830 --> 00:00:17,760
sure these are the the nation's

10
00:00:22,070 --> 00:00:19,840
satellites and uh the goes mission is

11
00:00:24,150 --> 00:00:22,080
really a joint effort between nasa no

12
00:00:27,189 --> 00:00:24,160
and its contractors to

13
00:00:28,710 --> 00:00:27,199

to build launch and put these satellites

14
00:00:29,990 --> 00:00:28,720
into operation

15
00:00:32,470 --> 00:00:30,000
uh what you're seeing here was the

16
00:00:34,470 --> 00:00:32,480
launch of the ghost 14 satellite

17
00:00:36,950 --> 00:00:34,480
noaa likes to employ two satellites to

18
00:00:39,510 --> 00:00:36,960
cover the western hemisphere

19
00:00:42,069 --> 00:00:39,520
they orbit at the earth at about 22 000

20
00:00:45,590 --> 00:00:42,079
miles above the earth's surface

21
00:00:47,510 --> 00:00:45,600
and they provide continuous products um

22
00:00:49,110 --> 00:00:47,520
one right after another and those those

23
00:00:51,029 --> 00:00:49,120
images are used to string together to

24
00:00:53,110 --> 00:00:51,039
provide a movie video

25
00:00:55,029 --> 00:00:53,120
uh we did launch the ghost 14 satellite

26
00:00:57,189 --> 00:00:55,039
as i just said and we're very excited

27
00:00:59,189 --> 00:00:57,199
about that one it's our best satellite

28
00:01:00,709 --> 00:00:59,199
yet and we're anxious to put it into

29
00:01:02,470 --> 00:01:00,719
operation

30
00:01:04,630 --> 00:01:02,480
so we've just passed the peak of this

31
00:01:06,310 --> 00:01:04,640
year's hurricane season what has goes

32
00:01:08,630 --> 00:01:06,320
been able to show us so far and are

33
00:01:10,550 --> 00:01:08,640
there any new storms to keep our eyes on

34
00:01:12,630 --> 00:01:10,560
well um nasa and noaa have been

35
00:01:14,630 --> 00:01:12,640
predicting i'll say a

36
00:01:16,070 --> 00:01:14,640
average to really below average

37
00:01:18,230 --> 00:01:16,080
hurricane season this year and that's

38
00:01:19,910 --> 00:01:18,240

really what we're seeing right now

39
00:01:22,230 --> 00:01:19,920
in the pacific region is a little more

40
00:01:24,390 --> 00:01:22,240
active in the atlantic region we did

41
00:01:26,469 --> 00:01:24,400
have one nice sizable hurricane

42
00:01:28,630 --> 00:01:26,479
which was uh hurricane bill which are

43
00:01:30,870 --> 00:01:28,640
these images are and you're really

44
00:01:32,630 --> 00:01:30,880
seeing the uh the power of the ghost

45
00:01:35,030 --> 00:01:32,640
spacecraft and actually in combination

46
00:01:36,950 --> 00:01:35,040
with other spacecrafts to uh take a good

47
00:01:38,710 --> 00:01:36,960
look into the insides of these storms

48
00:01:40,870 --> 00:01:38,720
and the makeup and to really see how

49
00:01:42,149 --> 00:01:40,880
they form and and

50
00:01:44,310 --> 00:01:42,159
these satellites really have the ability

51
00:01:46,550 --> 00:01:44,320
to track these hurricanes and and

52
00:01:48,469 --> 00:01:46,560
predict where they will hit landfall

53
00:01:50,789 --> 00:01:48,479
so these satellites uh bring us

54
00:01:52,389 --> 00:01:50,799
incredible pictures every single day why

55
00:01:54,789 --> 00:01:52,399
is it so important to have these daily

56
00:01:57,429 --> 00:01:54,799
images well if you think about it the

57
00:01:58,950 --> 00:01:57,439
the go satellite is is orbiting about 22

58
00:02:01,670 --> 00:01:58,960
000 miles above the surface and that's

59
00:02:04,069 --> 00:02:01,680
what we call a geosynchronous orbit

60
00:02:06,469 --> 00:02:04,079
um from that perspective we really have

61
00:02:07,510 --> 00:02:06,479
the ability to take the same images over

62
00:02:09,270 --> 00:02:07,520
the earth

63
00:02:11,029 --> 00:02:09,280

it's like staring standing there and

64
00:02:13,350 --> 00:02:11,039
staring straight at the earth and seeing

65
00:02:15,589 --> 00:02:13,360
the same spot on the earth all the time

66
00:02:17,110 --> 00:02:15,599
so we can really take those images

67
00:02:19,190 --> 00:02:17,120
string them together

68
00:02:20,470 --> 00:02:19,200
and really have the ability to track

69
00:02:22,550 --> 00:02:20,480
storms

70
00:02:25,110 --> 00:02:22,560
the images you just saw there were you

71
00:02:27,270 --> 00:02:25,120
know movie loops of from taking image

72
00:02:29,270 --> 00:02:27,280
after image frame after frame

73
00:02:32,309 --> 00:02:29,280
continuous and these images are provided

74
00:02:34,470 --> 00:02:32,319
to the american public in real time

75
00:02:36,229 --> 00:02:34,480
most of the american public really

76
00:02:37,830 --> 00:02:36,239
doesn't know but they see these images

77
00:02:39,190 --> 00:02:37,840
every day when they actually go home

78
00:02:41,430 --> 00:02:39,200
turn on the tv

79
00:02:43,270 --> 00:02:41,440
and watch the weather forecast they're

80
00:02:44,949 --> 00:02:43,280
coming from the ghost satellite

81
00:02:47,670 --> 00:02:44,959
so the ghost satellites have been in use

82
00:02:48,949 --> 00:02:47,680
since 1975. what do you still hope to

83
00:02:51,830 --> 00:02:48,959
learn with the new satellite you just

84
00:02:53,830 --> 00:02:51,840
launched uh well you know in the past 30

85
00:02:55,670 --> 00:02:53,840
plus years we really have made great

86
00:02:57,830 --> 00:02:55,680
strides leaps and bounds if you take a

87
00:02:59,350 --> 00:02:57,840
look at this image right here

88
00:03:01,910 --> 00:02:59,360

you'll see the image bouncing around a

89
00:03:04,229 --> 00:03:01,920
little bit that's primarily from this

90
00:03:05,350 --> 00:03:04,239
the spacecraft moving those images were

91
00:03:07,750 --> 00:03:05,360
from the

92
00:03:09,990 --> 00:03:07,760
late 60s contrast that with what we're

93
00:03:11,990 --> 00:03:10,000
seeing today with these satellites

94
00:03:13,589 --> 00:03:12,000
we have the ability to take frame after

95
00:03:16,070 --> 00:03:13,599
frame and what you're seeing here is not

96
00:03:19,190 --> 00:03:16,080
just seconds worth of data but

97
00:03:21,509 --> 00:03:19,200
hours days weeks months all put together

98
00:03:23,670 --> 00:03:21,519
to string to really make a nice picture

99
00:03:24,390 --> 00:03:23,680
here of what the earth is really showing

100
00:03:25,830 --> 00:03:24,400
us

101
00:03:28,470 --> 00:03:25,840
it's really a beautiful image really it

102
00:03:29,990 --> 00:03:28,480
kind of shows how alive the earth is

103
00:03:32,229 --> 00:03:30,000
so where can we go to learn more about

104
00:03:33,990 --> 00:03:32,239
hurricanes and the goes mission well

105
00:03:35,990 --> 00:03:34,000
it's all really at your fingertips on

106
00:03:37,910 --> 00:03:36,000
the internet uh the best place to go is

107
00:03:39,750 --> 00:03:37,920
uh to your favorite search engine and

108
00:03:40,789 --> 00:03:39,760
and search how it goes but you can go

109
00:03:43,110 --> 00:03:40,799
right to these websites

110
00:03:46,390 --> 00:03:43,120
www.hurricanes.gov

111
00:03:47,430 --> 00:03:46,400
or www.nasa.gov