



WHERE DO
YOU WANT TO
EXPLORE
WITH

LANDSAT?

1
00:00:04,789 --> 00:00:01,910
did you know that you can see penguin

2
00:00:07,110 --> 00:00:04,799
poop from space that's right pink piles

3
00:00:10,150 --> 00:00:07,120
of poop from those cute flightless birds

4
00:00:11,430 --> 00:00:10,160
there it is right there

5
00:00:13,910 --> 00:00:11,440
i'll have a quill burger with a side of

6
00:00:15,589 --> 00:00:13,920
squid fries please

7
00:00:17,830 --> 00:00:15,599
astronauts get to see the earth from the

8
00:00:19,349 --> 00:00:17,840
international space station every day

9
00:00:20,630 --> 00:00:19,359
hello there

10
00:00:23,189 --> 00:00:20,640
you know what else gets to see earth

11
00:00:25,109 --> 00:00:23,199
from space every day our amazing fleet

12
00:00:27,269 --> 00:00:25,119
of satellites

13
00:00:29,509 --> 00:00:27,279

hi my name is jessica mersdorf and i'm a

14

00:00:31,830 --> 00:00:29,519

nasa science writer i write about earth

15

00:00:33,190 --> 00:00:31,840

science and satellite missions including

16

00:00:37,590 --> 00:00:33,200

landsat

17

00:00:39,670 --> 00:00:37,600

earth for almost 50 years

18

00:00:41,590 --> 00:00:39,680

not like pictures that your phone takes

19

00:00:44,630 --> 00:00:41,600

these are technically images created

20

00:00:46,709 --> 00:00:44,640

from encoded bits of data

21

00:00:49,110 --> 00:00:46,719

from space we can see changes to the

22

00:00:51,270 --> 00:00:49,120

amazon rainforest growing cities like

23

00:00:53,670 --> 00:00:51,280

las vegas the shifting path of the

24

00:00:56,229 --> 00:00:53,680

mighty mississippi river and even

25

00:00:58,549 --> 00:00:56,239

penguin poop our planet is changing all

26
00:01:00,709 --> 00:00:58,559
the time from our massive glaciers to

27
00:01:03,110 --> 00:01:00,719
your own neighborhood

28
00:01:06,070 --> 00:01:03,120
so if you had the chance what would you

29
00:01:09,030 --> 00:01:06,080
like to see with landsat

30
00:01:10,830 --> 00:01:09,040
hi nasa i would like to

31
00:01:15,510 --> 00:01:10,840
ask you a

32
00:01:16,789 --> 00:01:15,520
question what is under the surface of a

33
00:01:19,190 --> 00:01:16,799
volcano

34
00:01:20,950 --> 00:01:19,200
that's a great question lots of times

35
00:01:23,429 --> 00:01:20,960
there is a chamber of lava under the

36
00:01:26,070 --> 00:01:23,439
surface of a volcano here's a picture

37
00:01:28,710 --> 00:01:26,080
sorry image landsat took of kilauea in

38
00:01:30,789 --> 00:01:28,720

hawaii as it's erupting with our special

39

00:01:32,950 --> 00:01:30,799

technology on landsat we can see the

40

00:01:34,550 --> 00:01:32,960

heat coming out of the volcano

41

00:01:37,190 --> 00:01:34,560

here's an image of mount st helen's

42

00:01:39,190 --> 00:01:37,200

landsat took in 1979

43

00:01:41,270 --> 00:01:39,200

and here's the same volcano right after

44

00:01:43,190 --> 00:01:41,280

it erupted in 1980

45

00:01:45,830 --> 00:01:43,200

look how the blast from the explosion

46

00:01:48,069 --> 00:01:45,840

knocked down the surrounding trees

47

00:01:49,830 --> 00:01:48,079

amazing right

48

00:01:51,830 --> 00:01:49,840

now it's your turn to tell us where you

49

00:01:53,350 --> 00:01:51,840

would like to explore what other changes

50

00:01:54,469 --> 00:01:53,360

do you want to see as they happen on

51

00:01:56,230 --> 00:01:54,479

planet earth

52

00:01:58,149 --> 00:01:56,240

let us know and you could get your

53

00:02:00,149 --> 00:01:58,159

question answered by one of our super

54

00:02:01,190 --> 00:02:00,159

smart scientists