



1  
00:00:04,670 --> 00:00:02,720  
my name is michael abrams i work at

2  
00:00:08,179 --> 00:00:04,680  
NASA's Jet Propulsion Laboratory in

3  
00:00:11,180 --> 00:00:08,189  
Pasadena California I am the US pastor

4  
00:00:14,600 --> 00:00:11,190  
science team leader we'll begin our fly

5  
00:00:17,120 --> 00:00:14,610  
over the state of California around the

6  
00:00:19,519 --> 00:00:17,130  
Southern California area and Catalina

7  
00:00:21,439 --> 00:00:19,529  
Island we're only looking at the state

8  
00:00:23,390 --> 00:00:21,449  
of California here for you to get an

9  
00:00:26,630 --> 00:00:23,400  
idea of what this data set looks like

10  
00:00:28,880 --> 00:00:26,640  
this is part of the Aster digital

11  
00:00:30,710 --> 00:00:28,890  
topography data set and then the color

12  
00:00:33,979 --> 00:00:30,720  
image that's draped over it is also

13  
00:00:36,740 --> 00:00:33,989

derived from astro optical data the

14

00:00:38,959 --> 00:00:36,750

speed will fly at is about the time it

15

00:00:41,150 --> 00:00:38,969

actually takes the satellite to cover

16

00:00:43,400 --> 00:00:41,160

the same amount of distance at the

17

00:00:45,830 --> 00:00:43,410

bottom is the island of Catalina with

18

00:00:48,260 --> 00:00:45,840

some clouds on its southern shore we

19

00:00:51,680 --> 00:00:48,270

turn over the palace ferdi Peninsula and

20

00:00:53,569 --> 00:00:51,690

the LA basin the downtown area we're

21

00:00:54,500 --> 00:00:53,579

pointing directly now at the San Gabriel

22

00:00:56,450 --> 00:00:54,510

Mountains and the Jet Propulsion

23

00:00:59,240 --> 00:00:56,460

Laboratory where I'm sitting right now

24

00:01:02,150 --> 00:00:59,250

the sharp boundary between mountains and

25

00:01:04,460 --> 00:01:02,160

desert is the San Andreas Fault the San

26

00:01:06,289 --> 00:01:04,470

Joaquin Valley the Great Valley as it's

27

00:01:09,469 --> 00:01:06,299

called occupies most of the state of

28

00:01:11,630 --> 00:01:09,479

California the San Andreas Fault a sharp

29

00:01:13,820 --> 00:01:11,640

trench forms the boundary between the

30

00:01:17,690 --> 00:01:13,830

Pacific plate on the west and the North

31

00:01:20,090 --> 00:01:17,700

America play on the east approaching now

32

00:01:22,130 --> 00:01:20,100

the San Francisco Bay Area San Andreas

33

00:01:24,620 --> 00:01:22,140

Fault is sharply defined in the

34

00:01:27,080 --> 00:01:24,630

foreground we can see San Andreas lake

35

00:01:29,420 --> 00:01:27,090

from which the fault was named or

36

00:01:31,399 --> 00:01:29,430

approaching the San Francisco Bay

37

00:01:35,660 --> 00:01:31,409

Peninsula and crossing the Golden Gate

38

00:01:37,520 --> 00:01:35,670

Bridge going into Marin County now as we

39

00:01:42,050 --> 00:01:37,530

proceed into Northern California we

40

00:01:44,630 --> 00:01:42,060

cross like almanor in the far distance

41

00:01:49,160 --> 00:01:44,640

the hill you see on the horizon is Mount

42

00:01:50,749 --> 00:01:49,170

Shasta rising to over 14,000 feet most

43

00:01:52,130 --> 00:01:50,759

of it is above the tree line so you

44

00:01:55,490 --> 00:01:52,140

don't get the green color of the

45

00:01:59,300 --> 00:01:55,500

vegetation snow covered the entire year

46

00:02:03,700 --> 00:01:59,310

with glaciers Mount Shasta one of the