



1  
00:00:19,420 --> 00:00:16,920  
there's an enormous void in our

2  
00:00:23,380 --> 00:00:19,430  
quantitative knowledge of the mountain

3  
00:00:26,140 --> 00:00:23,390  
snowpack and pressure is being put on us

4  
00:00:28,210 --> 00:00:26,150  
increasingly to be able to know that

5  
00:00:47,060 --> 00:00:28,220  
mountain snowpack because it is our

6  
00:00:52,710 --> 00:00:49,890  
so when you fly over the mountains you

7  
00:00:53,100 --> 00:00:52,720  
can see snow down there and no snow over

8  
00:00:55,560 --> 00:00:53,110  
there

9  
00:00:59,010 --> 00:00:55,570  
but you have no idea how deep the snow

10  
00:01:01,110 --> 00:00:59,020  
is or how fast its melting the airborne

11  
00:01:03,900 --> 00:01:01,120  
snow Observatory gives you the

12  
00:01:06,900 --> 00:01:03,910  
information on every patch of snow as to

13  
00:01:10,140 --> 00:01:06,910

how deep it is and how fast it's melting

14

00:01:13,500 --> 00:01:10,150

and that's key information for water

15

00:01:24,120 --> 00:01:13,510

managers for ranchers for farmers and

16

00:01:29,160 --> 00:01:24,130

boaters the list goes on and on airborne

17

00:01:31,770 --> 00:01:29,170

snow Observatory is two instruments put

18

00:01:35,880 --> 00:01:31,780

together that look at the surface that

19

00:01:39,630 --> 00:01:35,890

tell us how deep snow is and how much

20

00:01:43,050 --> 00:01:39,640

sunlight that snow absorbs and those two

21

00:01:44,609 --> 00:01:43,060

combined are what control how fast water

22

00:01:45,990 --> 00:01:44,619

comes out of the mountains and how much

23

00:01:51,419 --> 00:01:46,000

of that water comes out of the mountains

24

00:01:53,760 --> 00:01:51,429

from snow we need a mission like the

25

00:01:57,359 --> 00:01:53,770

airborne snow Observatory because we

26

00:01:59,700 --> 00:01:57,369

very poorly know how much snow there is

27

00:02:02,219 --> 00:01:59,710

in the world's mountains and how fast

28

00:02:04,490 --> 00:02:02,229

that melts and comes out of out those

29

00:02:07,310 --> 00:02:04,500

rivers

30

00:02:09,940 --> 00:02:07,320

the airborne snow Observatory is

31

00:02:12,410 --> 00:02:09,950

providing a wall-to-wall complete

32

00:02:16,940 --> 00:02:12,420

characterisation regularly through the

33

00:02:20,840 --> 00:02:16,950

snow melt season so this is this is the