



1

00:00:01,201 --> 00:00:06,006

SnowEx is a field and airborne campaign sponsored by the Terrestrial Hydrology

2

00:00:06,006 --> 00:00:10,944

Program to test different remote sensing instruments in different snow conditions.

3

00:00:11,344 --> 00:00:14,814

For NASA's SnowEx, we're going to Alaska this year.

4

00:00:15,115 --> 00:00:17,584

We've done some work in the western U.S.

5

00:00:17,584 --> 00:00:19,686

looking at mountain snowpack.

6

00:00:19,686 --> 00:00:22,288

This is an opportunity to test different instruments

7

00:00:22,288 --> 00:00:24,391

in the boreal forest and tundra environments.

8

00:00:25,425 --> 00:00:28,328

The sites that we've selected are really representative

9

00:00:28,328 --> 00:00:33,333

of these larger biomes that are throughout the northern latitudes.

10

00:00:33,967 --> 00:00:37,871

And Alaska really offers a great testbed area to do that.

11

00:00:38,204 --> 00:00:39,172

There are, you know,

12

00:00:39,172 --> 00:00:43,243

some of the world's greatest researchers
already working up there studying snow.

13

00:00:43,610 --> 00:00:47,781

So to be able to go up there, partner
with them, use research sites

14

00:00:47,781 --> 00:00:52,652

that have long heritage of snow
research is a real opportunity for SnowEx.

15

00:00:52,952 --> 00:00:56,456

We'll have people on the ground,
about 40 people on the ground visiting

16

00:00:56,456 --> 00:01:01,261

each of these five sites every day,
collecting measurements on snowpack

17

00:01:01,261 --> 00:01:06,900

profiles,
snow depth, SWE, or snow water equivalent.

18

00:01:07,200 --> 00:01:10,737

At the same time, we'll have in
March, we'll have two aircraft flying.

19

00:01:11,071 --> 00:01:14,707

One will be flying SWESARR,
which is an active-passive

20

00:01:14,707 --> 00:01:17,010

microwave instrument
that was developed at Goddard.

21

00:01:17,544 --> 00:01:21,714

And the other plane will be flying
a lidar and a stereo imager.

22

00:01:22,782 --> 00:01:23,783

And in April, we have

23

00:01:23,783 --> 00:01:26,419

another campaign to look at snow albedo.

24

00:01:26,786 --> 00:01:29,856

This is the final year of the SnowEx
campaign.

25

00:01:29,856 --> 00:01:33,526

It's a little bittersweet because,
you know, it's just been great

26

00:01:33,526 --> 00:01:37,530

working with the community,
collecting all this data.

27

00:01:37,664 --> 00:01:40,667

Open science
has been a huge aspect of SnowEx

28

00:01:40,667 --> 00:01:44,838

and hack weeks that we've had,
and that will continue to live on.

29

00:01:45,238 --> 00:01:47,240

But I think this is
just the starting point.

30

00:01:47,307 --> 00:01:47,474

You know,

31

00:01:47,474 --> 00:01:51,077

hopefully this will be a stepping stone
that will lead us to a satellite mission.

32

00:01:51,111 --> 00:01:55,648

Currently, there isn't a spaceborne mission that's dedicated to global

33

00:01:55,648 --> 00:01:56,749

snowmass.