

Surface Water & Ocean Topography



- 0:45:02

1  
00:00:06,829 --> 00:00:03,949  
you are looking at launch complex 4E at

2  
00:00:09,710 --> 00:00:06,839  
Vandenberg space Force Base we are just

3  
00:00:11,990 --> 00:00:09,720  
about 45 minutes away from liftoff of

4  
00:00:13,850 --> 00:00:12,000  
this Falcon 9 rocket for the

5  
00:00:17,330 --> 00:00:13,860  
international surface water and ocean

6  
00:00:19,849 --> 00:00:17,340  
topography Mission also known as SWAT

7  
00:00:22,790 --> 00:00:19,859  
it's the first satellite mission to

8  
00:00:25,429 --> 00:00:22,800  
survey nearly all water on the Earth's

9  
00:00:28,189 --> 00:00:25,439  
surface it will help researchers address

10  
00:00:32,210 --> 00:00:28,199  
some of the most pressing climate change

11  
00:00:36,530 --> 00:00:32,220  
questions of our time

12  
00:00:39,290 --> 00:00:36,540  
hello and welcome I'm Raquel Villanueva

13  
00:00:42,110 --> 00:00:39,300

with NASA Communications and I'm joined

14

00:00:45,470 --> 00:00:42,120

by Nadia Vino graduva shiffer welcome

15

00:00:47,869 --> 00:00:45,480

Nadia good morning Raquel now she is the

16

00:00:50,150 --> 00:00:47,879

director of the ocean physics program at

17

00:00:53,270 --> 00:00:50,160

NASA's science mission directorate in

18

00:00:55,369 --> 00:00:53,280

the earth science division Nadia as a

19

00:00:57,709 --> 00:00:55,379

mission scientist what do you feel most

20

00:01:01,069 --> 00:00:57,719

excited about on this very early morning

21

00:01:03,709 --> 00:01:01,079

well Raquel we are launching swats at

22

00:01:06,170 --> 00:01:03,719

our next mission to track water on

23

00:01:08,390 --> 00:01:06,180

Earth's surface it's been a long journey

24

00:01:09,950 --> 00:01:08,400

20 years said to make us you know to

25

00:01:12,530 --> 00:01:09,960

take us to the lunch with plus one day

26  
00:01:15,230 --> 00:01:12,540  
so and today our water dreams are coming

27  
00:01:18,530 --> 00:01:15,240  
true and why is it important to track

28  
00:01:21,530 --> 00:01:18,540  
all of Earth's water well water is alive

29  
00:01:24,590 --> 00:01:21,540  
there are eight billion people live on

30  
00:01:28,070 --> 00:01:24,600  
this planet and we all depend on the

31  
00:01:31,609 --> 00:01:28,080  
water to survive and prosper we use

32  
00:01:34,490 --> 00:01:31,619  
water to drink to grow our crops we use

33  
00:01:38,149 --> 00:01:34,500  
water to produce energy and support our

34  
00:01:42,249 --> 00:01:38,159  
economy water is what controls our

35  
00:01:45,289 --> 00:01:42,259  
climate and weather so essentially water

36  
00:01:48,590 --> 00:01:45,299  
SWAT will track all of this water for

37  
00:01:51,950 --> 00:01:48,600  
the same reason as a full loose water on

38  
00:01:54,530 --> 00:01:51,960

other planets because water is essential

39

00:01:56,990 --> 00:01:54,540

to Life as we know it absolutely

40

00:01:59,810 --> 00:01:57,000

essential I have plenty more questions

41

00:02:01,569 --> 00:01:59,820

for you coming up and we will be taking

42

00:02:04,510 --> 00:02:01,579

your questions throughout the broadcast

43

00:02:07,550 --> 00:02:04,520

send us your questions using the hashtag