



1  
00:00:06,110 --> 00:00:03,649  
Solar Probe plus a new NASA mission to

2  
00:00:09,350 --> 00:00:06,120  
visit and study the Sun closer than ever

3  
00:00:11,629 --> 00:00:09,360  
before is officially underway the

4  
00:00:14,030 --> 00:00:11,639  
spacecraft will plunge directly into the

5  
00:00:16,760 --> 00:00:14,040  
sun's atmosphere at approximately 4

6  
00:00:19,370 --> 00:00:16,770  
million miles from the surface into a

7  
00:00:23,660 --> 00:00:19,380  
region no other spacecraft has ever

8  
00:00:27,109 --> 00:00:23,670  
encountered NASA's daring plan to visit

9  
00:00:31,429 --> 00:00:27,119  
our nearest star the Sun took a giant

10  
00:00:33,910 --> 00:00:31,439  
leap today we just announced a selection

11  
00:00:37,370 --> 00:00:33,920  
investigation these are signs

12  
00:00:40,250 --> 00:00:37,380  
instruments for five different kinds of

13  
00:00:43,069 --> 00:00:40,260

investigation for this mission called

14

00:00:47,330 --> 00:00:43,079

solar probe plus that's going to visit

15

00:00:50,260 --> 00:00:47,340

the Sun as no other spacecraft has done

16

00:00:54,110 --> 00:00:50,270

before it's going to go with in 9.5

17

00:00:56,060 --> 00:00:54,120

solar radii of the Sun that's about 4

18

00:00:59,420 --> 00:00:56,070

million miles from the surface of the

19

00:01:02,510 --> 00:00:59,430

Sun very close this spacecraft is

20

00:01:06,170 --> 00:01:02,520

actually going to go there and sample

21

00:01:10,399 --> 00:01:06,180

the plasma it's it's light tasting

22

00:01:13,460 --> 00:01:10,409

touching smelling the environment of the

23

00:01:16,429 --> 00:01:13,470

Sun the line of sight from the Sun to

24

00:01:19,249 --> 00:01:16,439

earth is 93 million miles so this lot of

25

00:01:21,230 --> 00:01:19,259

stuff in there you have to detangle that

26

00:01:23,420 --> 00:01:21,240

with solar probe we don't have to

27

00:01:25,490 --> 00:01:23,430

detangle anything because it is going to

28

00:01:28,039 --> 00:01:25,500

be in that environment and actually

29

00:01:30,319 --> 00:01:28,049

measured this with its instruments

30

00:01:32,780 --> 00:01:30,329

answers so there is a deep connection

31

00:01:36,020 --> 00:01:32,790

between what happens on the Sun on a

32

00:01:40,340 --> 00:01:36,030

normal quiet day to what happens on the

33

00:01:43,639 --> 00:01:40,350

Sun on a very active stormy day that is

34

00:01:46,100 --> 00:01:43,649

directly connected to our lifestyle here

35

00:01:48,109 --> 00:01:46,110

on this planet so we really want to

36

00:01:50,270 --> 00:01:48,119

understand what goes on the Sun we

37

00:01:53,060 --> 00:01:50,280

aren't want to understand the physics

38

00:01:54,700 --> 00:01:53,070

and with that knowledge we expect that

39

00:01:57,340 --> 00:01:54,710

we will be able to make better

40

00:02:00,200 --> 00:01:57,350

prediction so that we can take