1
00:00:00,976 --> 00:00:03,626
>> Hey, this is Dr. Thomas
Z with Science in Seconds

2
00:00:03,626 --> 00:00:06,386
with the deputy administrator
of the agency, Lisa Roe.

3
00:00:06,446 --> 00:00:08,726
We're up on the G3 here
over the Pacific Ocean.

4
00:00:09,106 --> 00:00:10,146
Was this your first eclipse?

5
00:00:10,326 --> 00:00:11,246
>> It was my first eclipse.

6
00:00:11,836 --> 00:00:13,786
>> What was the most amazing
experience for you in this?

7
00:00:14,066 --> 00:00:15,186
>> It has to be Baily's beads.

8
00:00:15,686 --> 00:00:17,886
>> The light coming through
the valleys of the moon.

9
00:00:17,886 --> 00:00:19,396
It's just really mind-bombing.

10
00:00:19,756 --> 00:00:22,366
For me, it was this
spectrograph that we had, here,

11
00:00:22,366 --> 00:00:25,326
that splits up the radiation,
and we see just here,

12
00:00:25,656 --> 00:00:27,606
just before the sun disappeared.

13
00:00:27,606 --> 00:00:29,446
See, all the radiation
was there.

14
00:00:29,926 --> 00:00:31,316
What I'm going to
do is let it go.

15
00:00:31,316 --> 00:00:32,956
You see a little bit of
movement, because, of course,

16
00:00:33,006 --> 00:00:33,736
the airplane is moving.

17
00:00:33,786 --> 00:00:35,046
And, I'm stopping it.

18
00:00:35,096 --> 00:00:38,346
Do you see, just when the
atmosphere of the sun goes

19
00:00:38,346 --> 00:00:39,816
on there, you see
these specific lines.

20
00:00:40,496 --> 00:00:44,706
Helium is that line, you
know, and that blue there,

21
00:00:45,056 --> 00:00:46,926
that is why helium is helium,

22
00:00:47,076 --> 00:00:48,236
because it's named

after the sun.

23
00:00:48,236 --> 00:00:52,056
And, then over there is iron,
an iron line, which indicates

24
00:00:52,056 --> 00:00:54,886
that it's really a hot
atmosphere, a million degrees.

25
00:00:55,186 --> 00:00:57,676
We see a little bit of
hydrogen over there,

26
00:00:57,676 --> 00:01:00,646
because the sun is full of
hydrogen, so that, for me,