

A Voyager spacecraft is shown in space, with a bright star in the background. The spacecraft is positioned in the center-left of the frame, and the star is in the upper right. The background is a dark field of stars.

VOICE OF  
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1  
00:00:07,960 --> 00:00:06,190  
Voyager 1 is in a place no spacecraft

2  
00:00:10,180 --> 00:00:07,970  
has ever been before we are in the very

3  
00:00:11,919 --> 00:00:10,190  
outer edge of the heliosphere one

4  
00:00:14,650 --> 00:00:11,929  
magnetic field lines which act like a

5  
00:00:16,330 --> 00:00:14,660  
huge highway so that all the particles

6  
00:00:18,790 --> 00:00:16,340  
that were inside the heliosphere have

7  
00:00:20,980 --> 00:00:18,800  
streamed away and are now gone and what

8  
00:00:23,110 --> 00:00:20,990  
we see instead are the cosmic rays from

9  
00:00:25,110 --> 00:00:23,120  
the outside interstellar space which

10  
00:00:28,180 --> 00:00:25,120  
have streamed back in to replace them

11  
00:00:29,890 --> 00:00:28,190  
for the last seven years Voyager 1 has

12  
00:00:31,960 --> 00:00:29,900  
been in a region of the outer

13  
00:00:34,060 --> 00:00:31,970

heliosphere where it's surrounded by PI

14

00:00:35,950 --> 00:00:34,070

ions moving at about a few percent the

15

00:00:38,619 --> 00:00:35,960

speed of light those ions were

16

00:00:41,319 --> 00:00:38,629

accelerated in this region and are

17

00:00:44,110 --> 00:00:41,329

moving uniformly in all directions as

18

00:00:46,299 --> 00:00:44,120

Voyager 1 continued though it began to

19

00:00:48,759 --> 00:00:46,309

see a change in that distribution and

20

00:00:51,549 --> 00:00:48,769

entered a magnetic highway where all the

21

00:00:53,950 --> 00:00:51,559

pink colored ions were leaving the

22

00:00:56,500 --> 00:00:53,960

heliosphere along the magnetic field and

23

00:00:58,119 --> 00:00:56,510

at the same time they blew ions which

24

00:01:00,430 --> 00:00:58,129

are the cosmic rays particles moving

25

00:01:03,430 --> 00:01:00,440

with a higher speed started coming in

26

00:01:05,170 --> 00:01:03,440

from interstellar space Voyager 1 is now

27

00:01:07,959 --> 00:01:05,180

in a region where it's surrounded only