

VOYAGER

A small image of the Voyager spacecraft is positioned in the center of the frame, appearing to travel away from a bright sun on the left towards the right. The sun is a large, glowing orb with a lens flare effect. The background is a dark, star-filled space with some faint nebulae or dust clouds.

HUMANITY'S FARTHEST JOURNEY

1
00:00:07,130 --> 00:00:05,329
we knew we were on a journey of

2
00:00:09,980 --> 00:00:07,140
discovery when we launched the larger

3
00:00:13,070 --> 00:00:09,990
spacecraft but we had no idea how much

4
00:00:15,110 --> 00:00:13,080
there was to discover we had a sense

5
00:00:18,230 --> 00:00:15,120
that we knew what it felt like to be

6
00:00:20,900 --> 00:00:18,240
Magellan or Columbus time after time

7
00:00:22,849 --> 00:00:20,910
were surprised by seeing things that we

8
00:00:26,570 --> 00:00:22,859
had not expected or even imagined

9
00:00:28,160 --> 00:00:26,580
volcanoes erupting from a moon Isle the

10
00:00:31,400 --> 00:00:28,170
possibility of a liquid water ocean

11
00:00:34,130 --> 00:00:31,410
under the icy crust of Europa Titan

12
00:00:36,410 --> 00:00:34,140
where we found an atmosphere Uranus

13
00:00:38,810 --> 00:00:36,420

small moon Miranda which had one of the

14

00:00:42,139 --> 00:00:38,820

most complex GOG surfaces we've seen

15

00:00:44,240 --> 00:00:42,149

even at Neptune Triton 40 degrees above

16

00:00:46,910 --> 00:00:44,250

absolute zero even there there were

17

00:00:48,920 --> 00:00:46,920

geysers erupting it's the only

18

00:00:50,660 --> 00:00:48,930

spacecraft that's gone by Uranus it's

19

00:00:52,549 --> 00:00:50,670

the only spacecraft that's gone by

20

00:00:54,920 --> 00:00:52,559

Neptune everything we know about those

21

00:00:57,080 --> 00:00:54,930

planets we know from Voyager to see

22

00:00:59,770 --> 00:00:57,090

those first pictures coming in from the

23

00:01:02,060 --> 00:00:59,780

outer solar system for the first time

24

00:01:06,350 --> 00:01:02,070

what had been a point of light in the

25

00:01:08,420 --> 00:01:06,360

sky was a place I really credit the

26

00:01:11,149 --> 00:01:08,430

people that designed the mission both

27

00:01:13,070 --> 00:01:11,159

the engineers and the mission planners

28

00:01:15,200 --> 00:01:13,080

and scientists because not only did they

29

00:01:17,870 --> 00:01:15,210

build an extremely robust durable

30

00:01:20,630 --> 00:01:17,880

spacecraft but they had the vision to

31

00:01:24,260 --> 00:01:20,640

send it on a path such that it could get

32

00:01:27,170 --> 00:01:24,270

out into interstellar space and carry a

33

00:01:29,390 --> 00:01:27,180

gold records roms on point you okay yeah

34

00:01:32,539 --> 00:01:29,400

and here was this a Noah's Ark of human

35

00:01:35,990 --> 00:01:32,549

culture that was being sent to the outer

36

00:01:38,990 --> 00:01:36,000

planets and then beyond to wander in the

37

00:01:39,560 --> 00:01:39,000

interstellar darkness for a billion

38

00:01:44,560 --> 00:01:39,570

years

39
00:01:54,319 --> 00:01:51,200
on Valentine's Day 1990 Voyager 1 looked

40
00:01:58,340 --> 00:01:54,329
homeward and what did it find not the

41
00:02:02,789 --> 00:01:58,350
frame filling Apollo earth but instead

42
00:02:06,419 --> 00:02:02,799
that one pixel earth that's here

43
00:02:08,219 --> 00:02:06,429
that's home the Voyager spacecraft are

44
00:02:10,259 --> 00:02:08,229
in the outer layer of the heliosphere

45
00:02:13,619 --> 00:02:10,269
the giant bubbles Sun creates around

46
00:02:14,910 --> 00:02:13,629
itself with its supersonic wind Voyager

47
00:02:16,589 --> 00:02:14,920
today is headed for the edge of

48
00:02:18,990 --> 00:02:16,599
interstellar space that's the space

49
00:02:22,199 --> 00:02:19,000
between stars and it's filled with

50
00:02:24,509 --> 00:02:22,209
material that has been injected by the

51
00:02:26,550 --> 00:02:24,519
explosion of stars matter which came

52
00:02:28,470 --> 00:02:26,560
from a particular direction creating a

53
00:02:47,000 --> 00:02:28,480
wind which has shaped the bubble in

54
00:02:53,310 --> 00:02:49,710
Voyageur really has changed our view of

55
00:02:55,620 --> 00:02:53,320
the solar system this will be a

56
00:02:57,720 --> 00:02:55,630
milestone in space exploration leaving

57
00:02:59,220 --> 00:02:57,730
the solar system leaving the bubble and