



1
00:00:06,470 --> 00:00:03,909
after six years of unprecedented science

2
00:00:09,030 --> 00:00:06,480
exploration this month the mars spirit

3
00:00:10,790 --> 00:00:09,040
rover is now designated a stationary

4
00:00:13,110 --> 00:00:10,800
science platform

5
00:00:15,270 --> 00:00:13,120
efforts to free itself from a sand trap

6
00:00:16,710 --> 00:00:15,280
over the past several months have been

7
00:00:19,349 --> 00:00:16,720
unsuccessful

8
00:00:21,590 --> 00:00:19,359
now the venerable robot's primary task

9
00:00:24,870 --> 00:00:21,600
will be to position itself to combat the

10
00:00:26,950 --> 00:00:24,880
severe martian winter if spirit survives

11
00:00:29,029 --> 00:00:26,960
it will continue conducting significant

12
00:00:32,069 --> 00:00:29,039
new science for several months or

13
00:00:34,389 --> 00:00:32,079

perhaps years in its new fixed location

14

00:00:36,709 --> 00:00:34,399

spirit stationary science priorities

15

00:00:37,910 --> 00:00:36,719

right now appear first will be radio

16

00:00:48,150 --> 00:00:37,920

science

17

00:00:51,110 --> 00:00:48,160

involves trying to understand what the

18

00:00:53,670 --> 00:00:51,120

composition and the size of the planet's

19

00:00:56,229 --> 00:00:53,680

core is which has a direct correlation

20

00:00:58,549 --> 00:00:56,239

to the history of the planet the change

21

00:01:00,950 --> 00:00:58,559

in the climate that occurred on mars and

22

00:01:02,869 --> 00:01:00,960

why mars has gone from a warm wet place

23

00:01:06,230 --> 00:01:02,879

that three and a half four billion years

24

00:01:08,550 --> 00:01:06,240

ago resembled earth to the dry barren uh

25

00:01:10,710 --> 00:01:08,560

planet that it is today on the other

26

00:01:13,670 --> 00:01:10,720

side of the planet spirit's sister rover

27

00:01:15,990 --> 00:01:13,680

opportunity continues to move well right

28

00:01:18,630 --> 00:01:16,000

now it treks from victoria to endeavor

29

00:01:20,149 --> 00:01:18,640

crater exploring as it goes it has found

30

00:01:22,230 --> 00:01:20,159

meteorites on the surface that we've

31

00:01:24,469 --> 00:01:22,240

investigated it's found sand dunes that

32

00:01:26,550 --> 00:01:24,479

we've investigated and driven over and

33

00:01:29,670 --> 00:01:26,560

it's only recently found what appears to

34

00:01:31,910 --> 00:01:29,680

be a very new crater called concepcion

35

00:01:33,350 --> 00:01:31,920

that may be in geological terms brand

36

00:01:35,429 --> 00:01:33,360

new maybe is

37

00:01:37,350 --> 00:01:35,439

maybe as new as a thousand years old

38

00:01:39,990 --> 00:01:37,360

spirit and opportunity began missions

39

00:01:43,190 --> 00:01:40,000

intended to last for three months spirit