



1
00:02:34,089 --> 00:00:25,850

you

2
00:02:52,070 --> 00:02:38,119

the physical soul of life on earth is

3
00:02:58,800 --> 00:02:55,520

but the world is a complicated place and

4
00:03:02,450 --> 00:02:58,810

water interacts with many and varied

5
00:03:09,500 --> 00:03:02,460

forces whether

6
00:03:12,410 --> 00:03:09,510

climate politics people

7
00:03:15,250 --> 00:03:12,420

they all affect each other and since

8
00:03:51,550 --> 00:03:15,260

precipitation means fresh water

9
00:03:58,550 --> 00:03:54,710

so much depends

10
00:04:20,020 --> 00:03:58,560

red wheelbarrow glazed with rain

11
00:04:26,310 --> 00:04:23,470

so much depends on precipitation that's

12
00:04:31,200 --> 00:04:26,320

why NASA and its partners are developing

13
00:04:39,879 --> 00:04:31,210

GPM global precipitation measurement

14

00:04:43,120 --> 00:04:39,889

this is the future this is the main

15

00:04:45,070 --> 00:04:43,130

vehicle the heart of the system this

16

00:04:48,159 --> 00:04:45,080

satellite will be the refinement of

17

00:04:50,500 --> 00:04:48,169

years of remote sensing experience when

18

00:05:00,450 --> 00:04:50,510

launched it will be the most advanced

19

00:05:06,760 --> 00:05:03,100

but the main vehicle cannot be

20

00:05:11,600 --> 00:05:06,770

everywhere at once that's why it has

21

00:05:16,920 --> 00:05:14,760

in complimentary orbits a constellation

22

00:05:29,210 --> 00:05:16,930

of additional satellites will also

23

00:05:34,010 --> 00:05:31,880

many of these satellites will already be

24

00:05:37,040 --> 00:05:34,020

in place by the time the principal

25

00:05:39,650 --> 00:05:37,050

vehicle launches a clever plan to

26

00:05:41,720 --> 00:05:39,660

utilize existing satellite systems will

27

00:05:47,040 --> 00:05:41,730

enable the project to cover most of the

28

00:05:52,200 --> 00:05:49,710

earlier missions helped experts develop

29

00:05:54,480 --> 00:05:52,210

the techniques to study precipitation by

30

00:05:57,689 --> 00:05:54,490

focusing on specific regions of the

31

00:05:59,580 --> 00:05:57,699

planet but the global reach of this

32

00:06:02,249 --> 00:05:59,590

integrated fleet will provide updates