1
00:00:12,150 --> 00:00:10,709
a view from above offers perspective and

2
00:00:14,629 --> 00:00:12,160
scale

3
00:00:20,950 --> 00:00:14,639
while observations on the ground define

4
00:00:26,390 --> 00:00:24,630
a low land may be wet or dry

5
00:00:28,390 --> 00:00:26,400
a mountain slope

6
00:00:32,310 --> 00:00:28,400
slick with rain

7
00:00:33,830 --> 00:00:32,320
or parched beneath a cloudless sky

8
00:00:35,670 --> 00:00:33,840
there are places

9
00:00:37,910 --> 00:00:35,680
urban and wild

10
00:00:41,590 --> 00:00:37,920
where human influence has changed the

11
00:00:43,990 --> 00:00:41,600
way water runs off the land

12
00:00:46,950 --> 00:00:44,000
but it's only with data collected from

13
00:00:50,229 --> 00:00:46,960

space and the surface that we begin to

14
00:00:51,670 --> 00:00:50,239
understand how precipitation works

15
00:00:53,670 --> 00:00:51,680
on the ground

16
00:00:55,430 --> 00:00:53,680
you feel the kiss of mourning mist

17
00:00:56,869 --> 00:00:55,440
against your cheek

18
00:01:04,390 --> 00:00:56,879
from space

19
00:01:08,630 --> 00:01:06,710
one of gpm's strengths is its

20
00:01:10,550 --> 00:01:08,640
scalability

21
00:01:12,789 --> 00:01:10,560
nations that want to contribute in a

22
00:01:15,030 --> 00:01:12,799
meaningful way but are not yet ready to

23
00:01:16,950 --> 00:01:15,040
step off the planet will play a vital

24
00:01:34,710 --> 00:01:16,960
role in gathering worldwide

25
00:01:38,789 --> 00:01:36,789
ground validation stations located

26
00:01:42,069 --> 00:01:38,799
around the world will tie the network

27
00:01:44,069 --> 00:01:42,079
together bridging oceans and continents

28
00:01:46,469 --> 00:01:44,079
by focusing the power of an

29
00:01:53,670 --> 00:01:46,479
international team on water management

30
00:01:58,069 --> 00:01:55,910
global measurements

31
00:02:00,469 --> 00:01:58,079
local insights

32
00:02:03,749 --> 00:02:00,479
high-flying hardware

33
00:02:17,990 --> 00:02:03,759
real-world observations

34
00:02:22,949 --> 00:02:20,630
gpm is more than a group of spacecraft

35
00:02:26,470 --> 00:02:22,959
more than teams of experts

36
00:02:29,990 --> 00:02:26,480
this mission will span the globe

37
00:02:32,550 --> 00:02:30,000
with data coming in from the americas

38
00:02:32,560 --> 00:02:35,350

asia

39
00:02:38,630 --> 00:02:36,550
australia

40
00:02:41,270 --> 00:02:38,640
and other places around the earth a

41
00:02:42,630 --> 00:02:41,280
global data processing center will round

42
00:03:02,949 --> 00:02:42,640
out the system

43
00:03:07,910 --> 00:03:05,750
the pond and the river

44
00:03:25,910 --> 00:03:07,920
have become one

45
00:03:30,309 --> 00:03:28,390
just as individual water drops or ice

46
00:03:31,990 --> 00:03:30,319
crystals do not fully describe

47
00:03:34,390 --> 00:03:32,000
precipitation

48
00:03:36,470 --> 00:03:34,400
gpm will become more than a collection

49
00:03:39,910 --> 00:03:36,480
of parts and people

50
00:03:43,670 --> 00:03:39,920
one drop cannot even water a flower

51
00:03:51,110 --> 00:03:43,680
but many drops can irrigate a field

52
00:03:55,670 --> 00:03:53,430
gpm will enhance the accuracy of

53
00:03:57,589 --> 00:03:55,680
worldwide weather predictions new

54
00:04:00,630 --> 00:03:57,599
precipitation maps

55
00:04:02,949 --> 00:04:00,640
deeper insight into climate change

56
00:04:04,949 --> 00:04:02,959
more accurate flood assessments

57
00:04:07,509 --> 00:04:04,959
these are just some of the benefits that

58
00:04:19,110 --> 00:04:07,519
will emerge as international partners

59
00:04:25,510 --> 00:04:22,069
a mutual need for knowledge becomes a

60
00:04:29,830 --> 00:04:25,520
shared quest for understanding