



1
00:00:23,210 --> 00:00:20,720
for hundreds of millions of people

2
00:00:25,900 --> 00:00:23,220
throughout the world tropical rain

3
00:00:29,210 --> 00:00:25,910
systems are a life-sustaining resource

4
00:00:32,089 --> 00:00:29,220
but these systems can turn violent and

5
00:00:35,690 --> 00:00:32,099
dangerous spawning deadly storms and

6
00:00:39,560 --> 00:00:35,700
related natural disasters since its

7
00:00:42,139 --> 00:00:39,570
launch in 1997 the tropical rainfall

8
00:00:45,100 --> 00:00:42,149
measuring mission or travel satellite

9
00:00:47,750 --> 00:00:45,110
has become the world's most widely used

10
00:00:50,750 --> 00:00:47,760
space-based resource for measuring

11
00:00:52,840 --> 00:00:50,760
Earth's precipitation a key to

12
00:00:55,959 --> 00:00:52,850
understanding how weather effects and

13
00:00:58,520 --> 00:00:55,969

changes life here on our planet

14

00:01:03,470 --> 00:00:58,530

understanding the Earth's climate and

15

00:01:06,370 --> 00:01:03,480

how it responds to change relies on what

16

00:01:10,789 --> 00:01:06,380

we know about how atmospheric moisture

17

00:01:14,240 --> 00:01:10,799

clouds latent heating and large-scale

18

00:01:17,600 --> 00:01:14,250

atmospheric and oceanic circulation vary

19

00:01:20,780 --> 00:01:17,610

with changing climate conditions the

20

00:01:23,840 --> 00:01:20,790

physical process that links these key

21

00:01:26,179 --> 00:01:23,850

climate elements is precipitation the

22

00:01:29,120 --> 00:01:26,189

first satellite with a rain radar and

23

00:01:32,390 --> 00:01:29,130

microwave imager combination trim

24

00:01:34,910 --> 00:01:32,400

produces data used to verify and improve

25

00:01:37,010 --> 00:01:34,920

meteorological computer models so

26

00:01:40,520 --> 00:01:37,020

important to forecasters and

27

00:01:43,130 --> 00:01:40,530

climatologists across the globe in fact

28

00:01:45,980 --> 00:01:43,140

trim has become the reference standard

29

00:01:48,170 --> 00:01:45,990

by which rain is measured from space you

30

00:01:50,870 --> 00:01:48,180

may not have crim up there but you may

31

00:01:53,929 --> 00:01:50,880

have some other satellite up there when

32

00:01:56,060 --> 00:01:53,939

it is raining now this satellite is

33

00:01:57,950 --> 00:01:56,070

producing calibrated information because

34

00:02:00,920 --> 00:01:57,960

its calibration is based upon crimped

35

00:02:02,630 --> 00:02:00,930

trims data have proven invaluable for

36

00:02:04,670 --> 00:02:02,640

not only predicting the track and

37

00:02:07,999 --> 00:02:04,680

intensity of tropical storms and

38

00:02:10,430 --> 00:02:08,009

hurricanes but also for forecasting the

39

00:02:11,460 --> 00:02:10,440

deadly floods and landslides they can

40

00:02:14,490 --> 00:02:11,470

cause in our

41

00:02:17,250 --> 00:02:14,500

the other on Noah but many other

42

00:02:22,260 --> 00:02:17,260

agencies around the world are using this

43

00:02:24,780 --> 00:02:22,270

data to do a better job of forecasting

44

00:02:27,030 --> 00:02:24,790

data from trem are used to fix the

45

00:02:31,770 --> 00:02:27,040

location and intensity of tropical

46

00:02:34,320 --> 00:02:31,780

storms more than 600 times each year to

47

00:02:36,390 --> 00:02:34,330

learn more about trap follow its up to

48

00:02:39,000 --> 00:02:36,400

date tracking of a tropical storm or

49

00:02:43,800 --> 00:02:39,010

perhaps monitor the threat of landslides

50

00:02:48,000 --> 00:02:43,810

and floods around the globe go to ww na

