1
00:00:05,720 --> 00:00:03,830
late in the summer moisture starts

2
00:00:07,579 --> 00:00:05,730
coming up the west coast of Mexico and

3
00:00:09,919 --> 00:00:07,589
entering the southwestern US and you

4
00:00:12,100 --> 00:00:09,929
transition from a relatively dry early

5
00:00:14,060 --> 00:00:12,110
season to something that's more prone to

6
00:00:16,700 --> 00:00:14,070
thunderstorms and the attendant flash

7
00:00:18,980 --> 00:00:16,710
floods relatively small amounts of rain

8
00:00:21,259 --> 00:00:18,990
in a desert condition can lead to a

9
00:00:23,540 --> 00:00:21,269
flash flood even if it's a long way away

10
00:00:25,579 --> 00:00:23,550
the ground is not very good at absorbing

11
00:00:27,950 --> 00:00:25,589
water so instead it very quickly runs

12
00:00:29,910 --> 00:00:27,960
off and can run down channels for miles

13
00:00:43,620 --> 00:00:29,920

perhaps catching people unaware

14
00:00:47,860 --> 00:00:46,150
in a general sort of way we know that it

15
00:00:50,740 --> 00:00:47,870
rains in the summer and doesn't rain the

16
00:00:52,900 --> 00:00:50,750
rest of the year but the question is is

17
00:00:54,550 --> 00:00:52,910
it strong or is it weak these kind of

18
00:00:56,920 --> 00:00:54,560
long-range forecast is still quite

19
00:00:58,510 --> 00:00:56,930
challenging even at the shorter scale

20
00:01:01,450 --> 00:00:58,520
the monsoon consists of what are called

21
00:01:04,030 --> 00:01:01,460
breaks and then surges and being able to

22
00:01:06,040 --> 00:01:04,040
forecast those breaks and surges a few

23
00:01:08,500 --> 00:01:06,050
days or weeks in advance would be a

24
00:01:10,270 --> 00:01:08,510
really great thing there's a certain

25
00:01:12,370 --> 00:01:10,280
capability to do that now but if we

26
00:01:14,350 --> 00:01:12,380
understand the precipitation processes

27
00:01:17,350 --> 00:01:14,360
better that will give us a better handle

28
00:01:19,780 --> 00:01:17,360
on how the heat is released in the

29
00:01:21,500 --> 00:01:19,790
dynamical systems that are contributing

30
00:01:24,140 --> 00:01:21,510
to the breaks and surges