



1
00:00:05,240 --> 00:00:02,540
the radar that we've been flying around

2
00:00:07,509 --> 00:00:05,250
Saturn and passing by Titan periodically

3
00:00:10,730 --> 00:00:07,519
we've been able to map out the surface

4
00:00:13,310 --> 00:00:10,740
brightness as the radar sees it we see

5
00:00:16,220 --> 00:00:13,320
geologic processes that are very similar

6
00:00:19,730 --> 00:00:16,230
to what we see on the earth this is a

7
00:00:22,849 --> 00:00:19,740
computer generated 3d fly-through of an

8
00:00:25,820 --> 00:00:22,859
area of karst topography on Titan it was

9
00:00:28,250 --> 00:00:25,830
generated by inferring the topography

10
00:00:32,780 --> 00:00:28,260
and then laying a radar image down on

11
00:00:36,260 --> 00:00:32,790
top of the 3d map this area is an area

12
00:00:39,020 --> 00:00:36,270
called sukoon labyrinth on Titan it's an

13
00:00:41,150 --> 00:00:39,030

area of karst topography very similar to

14

00:00:44,600 --> 00:00:41,160

the karst topography we find on earth

15

00:00:49,459 --> 00:00:44,610

especially in places like Jamaica Puerto

16

00:00:52,700 --> 00:00:49,469

Rico or China it's an area where liquid

17

00:00:55,369 --> 00:00:52,710

methane here on Titan is dissolved the

18

00:00:57,650 --> 00:00:55,379

rocks and produced a residual landscape

19

00:01:01,040 --> 00:00:57,660

of just hills and valleys with no river

20

00:01:04,609 --> 00:01:01,050

valleys flowing through the area so it's

21

00:01:06,830 --> 00:01:04,619

yet again another process that we see on

22

00:01:09,020 --> 00:01:06,840

the earth that we find on Titan making