



1
00:00:05,670 --> 00:00:03,590
what's up for september this month we'll

2
00:00:08,230 --> 00:00:05,680
step away from the city lights and gaze

3
00:00:10,470 --> 00:00:08,240
up at our own milky way galaxy

4
00:00:12,709 --> 00:00:10,480
hello i'm jane houston jones from nasa's

5
00:00:14,789 --> 00:00:12,719
jet propulsion laboratory in pasadena

6
00:00:16,870 --> 00:00:14,799
california

7
00:00:19,109 --> 00:00:16,880
you can easily spot the moon and the

8
00:00:21,670 --> 00:00:19,119
planets from your own backyard but it

9
00:00:24,550 --> 00:00:21,680
takes a dark sky to see the spiral arms

10
00:00:26,470 --> 00:00:24,560
of our own galaxy

11
00:00:29,589 --> 00:00:26,480
one of the main features of spiral

12
00:00:31,830 --> 00:00:29,599
galaxies are spiral arms and dark lanes

13
00:00:34,310 --> 00:00:31,840

of dust and gas which line the edge of

14

00:00:36,150 --> 00:00:34,320

those spiral arms

15

00:00:38,630 --> 00:00:36,160

just to the right of jupiter you'll see

16

00:00:40,950 --> 00:00:38,640

what looks like a cloud but it's really

17

00:00:42,790 --> 00:00:40,960

a cloud of stars and it's the center of

18

00:00:44,869 --> 00:00:42,800

our milky way galaxy

19

00:00:46,470 --> 00:00:44,879

we live two-thirds of the way from the

20

00:00:47,990 --> 00:00:46,480

center

21

00:00:51,029 --> 00:00:48,000

when you look at the spiral arm of the

22

00:00:53,350 --> 00:00:51,039

galaxy you'll notice a dark area

23

00:00:55,830 --> 00:00:53,360

bisecting the stars

24

00:00:58,869 --> 00:00:55,840

that dark area is called the great rift

25

00:01:01,270 --> 00:00:58,879

of our milky way galaxy what it is is

26
00:01:02,630 --> 00:01:01,280
dark obscuring dust that's blocking the

27
00:01:04,310 --> 00:01:02,640
starlight

28
00:01:06,149 --> 00:01:04,320
you don't need a telescope to see the

29
00:01:08,950 --> 00:01:06,159
milky way but if you do look through a

30
00:01:11,510 --> 00:01:08,960
telescope you'll see clumps of stars

31
00:01:13,670 --> 00:01:11,520
star clusters and nebula in much more

32
00:01:15,109 --> 00:01:13,680
detail although with your own eyes

33
00:01:17,590 --> 00:01:15,119
you'll be able to see some of the

34
00:01:19,910 --> 00:01:17,600
features of the milky way galaxy such as

35
00:01:22,149 --> 00:01:19,920
some of the brighter clusters and gas

36
00:01:23,990 --> 00:01:22,159
clouds