



1
00:00:08,089 --> 00:00:05,650
what's up for January evolving planets

2
00:00:10,370 --> 00:00:08,099
hello and welcome I'm Jane Houston Jones

3
00:00:14,570 --> 00:00:10,380
at NASA's Jet Propulsion Laboratory in

4
00:00:17,720 --> 00:00:14,580
Pasadena California like people planets

5
00:00:20,179 --> 00:00:17,730
grow old instead of wrinkles many have

6
00:00:24,050 --> 00:00:20,189
craters and rather than becoming frail

7
00:00:27,200 --> 00:00:24,060
rocky planets cool and shrink features

8
00:00:29,179 --> 00:00:27,210
on Mars resembling dry riverbeds and the

9
00:00:31,640 --> 00:00:29,189
discovery of minerals that form in the

10
00:00:34,100 --> 00:00:31,650
presence of water have led planetary

11
00:00:37,430 --> 00:00:34,110
scientists to envision a younger Mars

12
00:00:39,010 --> 00:00:37,440
that was warmer and wetter water that

13
00:00:41,660 --> 00:00:39,020

once flowed across the surface

14

00:00:45,830 --> 00:00:41,670

evaporated or became trapped below the

15

00:00:48,080 --> 00:00:45,840

surface or in polar ice caps elsewhere

16

00:00:51,049 --> 00:00:48,090

the interiors of mercury and our moon

17

00:00:53,420 --> 00:00:51,059

have cooled significantly as they cool

18

00:00:56,029 --> 00:00:53,430

they shrank leading to lines of cliffs

19

00:01:01,580 --> 00:00:56,039

or scarps that formed as the surface

20

00:01:07,740 --> 00:01:04,290

Venus and Jupiter ruled the early

21

00:01:09,660 --> 00:01:07,750

evening sky this month and Mars

22

00:01:12,090 --> 00:01:09,670

brightens and now rises in the late

23

00:01:13,830 --> 00:01:12,100

evening before midnight at the beginning

24

00:01:17,100 --> 00:01:13,840

of the month and by eight-thirty at

25

00:01:20,940 --> 00:01:17,110

month's end Saturn Rises around midnight

26

00:01:23,370 --> 00:01:20,950

but it's best seen near dawn the Rings

27

00:01:27,150 --> 00:01:23,380

are opened wider now showing a 15-degree

28

00:01:30,030 --> 00:01:27,160

tilt the January quad ranted meteor

29

00:01:34,020 --> 00:01:30,040

shower on the 4th peaks just as the moon

30

00:01:36,900 --> 00:01:34,030

sets near midnight you can also spot an

31

00:01:39,120 --> 00:01:36,910

asteroid this month eros is visible in

32

00:01:43,440 --> 00:01:39,130

the eastern sky below the constellation

33

00:01:46,380 --> 00:01:43,450

Leo in 1998 NASA's near shoemaker probe

34

00:01:48,719 --> 00:01:46,390

flew by arrows orbited it in two

35

00:01:52,050 --> 00:01:48,729

thousand and soft landed on the asteroid

36

00:01:54,900 --> 00:01:52,060

in 2001 you can learn more about our

37

00:01:58,560 --> 00:01:54,910

evolving planets at solar system NASA

38

00:02:00,690 --> 00:01:58,570

gov / y SS for year of the solar system

39

00:02:05,249 --> 00:02:00,700

and you can learn about all of NASA's