
What's Up

1
00:00:00,000 --> 00:00:02,000
Music.

2
00:00:02,000 --> 00:00:07,000
Jane Houston Jones: What's Up for September. A nighttime lunar launch, comet ISON is spotted again,

3
00:00:07,000 --> 00:00:12,000
and the moon meets up with Saturn, Venus, Mars and Jupiter.

4
00:00:12,000 --> 00:00:18,000
Hello and welcome. I'm Jane Houston Jones from NASA's Jet Propulsion Laboratory in Pasadena, California.

5
00:00:18,000 --> 00:00:25,000
NASA's LADEE mission, the Lunar Atmosphere and Dust Environment Explorer, is scheduled for a night launc

6
00:00:25,000 --> 00:00:34,000
on September 6 at 11:27 p.m. Eastern time from NASA's Wallops Flight Facility on the eastern shore of Virgini

7
00:00:34,000 --> 00:00:40,000
LADEE will orbit the moon to gather information about the lunar atmosphere, conditions near the surface

8
00:00:40,000 --> 00:00:45,000
and environmental influences on lunar dust.

9
00:00:45,000 --> 00:00:49,000
It'll take 30 days to travel to the moon, followed by 30 days for checkout

10
00:00:49,000 --> 00:00:53,000
and 100 days for science operations.

11
00:00:53,000 --> 00:00:59,000
Comet ISON was recovered in mid-August and imaged using an 11-inch telescope.

12
00:00:59,000 --> 00:01:04,000
There have been other observations of the comet, but it's still to early to predict ISON's behavior.

13
00:01:04,000 --> 00:01:06,000

So stay tuned!

14
00:01:06,000 --> 00:01:11,000
On September 27 Comet ISON will be very close to Mars.

15
00:01:11,000 --> 00:01:14,000
The comet is coming directly over Mars in its orbit.

16
00:01:14,000 --> 00:01:20,000
An orbiter and a rover on Mars will be looking to image ISON as it passes near the planet.

17
00:01:20,000 --> 00:01:24,000
Here's what's visible in the night sky this month.

18
00:01:24,000 --> 00:01:27,000
You can find Mars and Jupiter in the eastern dawn sky.

19
00:01:27,000 --> 00:01:32,000
On September first, second and third the moon can be found near Jupiter and Mars.

20
00:01:32,000 --> 00:01:39,000
On the 7th and 8th the moon pairs up with Saturn and Venus in the southwest sky just after sunset.

21
00:01:39,000 --> 00:01:44,000
And on September 16 Venus is directly below Saturn.

22
00:01:44,000 --> 00:01:50,000
Early next month NASA's Juno spacecraft will perform a close flyby of Earth on October 9,

23
00:01:50,000 --> 00:01:53,000
stealing a tiny bit of Earth's orbital momentum

24
00:01:53,000 --> 00:01:58,000
to get the boost it needs to reach Jupiter in 2016.

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00:01:58,000 --> 00:02:02,000
Juno may be visible with binoculars to observers near Capetown, South Africa.

26
00:02:02,000 --> 00:02:10,000
You can read about all of NASA's missions, including LADEE and Juno, at w w w dot nasa dot gov.