



Mars

Juno

Jupiter

1
00:00:00,216 --> 00:00:05,238

[Text on screen]

NASA's Juno spacecraft has shed new light on an old mystery.

2
00:00:05,555 --> 00:00:10,193

For centuries, scientists have debated the origin of the Zodiacal Light...

3
00:00:10,193 --> 00:00:15,031

which appears above the horizon after dusk and before dawn.

4
00:00:15,031 --> 00:00:16,833



5
00:00:16,833 --> 00:00:23,173

The Zodiacal Light is sunlight, scattered by an interplanetary cloud of dust.

6
00:00:24,340 --> 00:00:30,663

Scientists thought that the dust comes from asteroids or comets.

7
00:00:30,663 --> 00:00:36,336

(Launch commentary by George Diller)

And liftoff of the Atlas V with Juno on a trek to Jupiter!

8
00:00:36,336 --> 00:00:42,275

In 2011, Juno launched and spent five years traveling to Jupiter.

9
00:00:43,076 --> 00:00:48,648

During its journey, Juno was repeatedly struck.

10
00:00:48,648 --> 00:00:51,251



11
00:00:51,251 --> 00:00:56,089

Dust grains pelted the solar arrays, excavating debris.

12
00:00:56,389 --> 00:01:01,895

Cameras on Juno saw the debris, providing data on the impacts.

13

00:01:02,946 --> 00:01:08,718

Juno had flown through the dust cloud that causes the Zodiacal Light...

14

00:01:08,718 --> 00:01:14,090

allowing scientists to map its distribution for the first time.

15

00:01:14,090 --> 00:01:20,096

The map pointed to an unexpected source for the dust - Mars.

16

00:01:20,096 --> 00:01:25,335

Mars could be ejecting the dust during global dust storms.

17

00:01:25,335 --> 00:01:27,771



18

00:01:27,771 --> 00:01:32,425

Juno's findings will help to protect future missions...