

WHAT'S UP



1
00:00:00,000 --> 00:00:04,000
Music.

2
00:00:04,000 --> 00:00:09,000
Jane Houston Jones: What's Up for July. Spot Pluto and see the Milky Way and planets all month long.

3
00:00:09,000 --> 00:00:16,000
Hello and welcome. I'm Jane Houston Jones from NASA's Jet Propulsion Laboratory in Pasadena, California.

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00:00:16,000 --> 00:00:21,000
July showcases our solar system against a backdrop of Milky Way wonders.

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00:00:21,000 --> 00:00:28,000
Saturn and Mars grace the summer sky just after sunset, getting lower in the western sky this month.

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00:00:28,000 --> 00:00:35,000
Early risers will easily see our two innermost planets--Mercury and Venus--30 minutes before dawn midmonth

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00:00:35,000 --> 00:00:40,000
and you might be able to see some shooting stars in the southern sky before dawn, too!

8
00:00:40,000 --> 00:00:46,000
And, you can still catch a historic meetup between dwarf planet Ceres and asteroid Vesta.

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00:00:46,000 --> 00:00:49,000
They're super-close to one another all month long.

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00:00:49,000 --> 00:00:50,000
Sound: Whoosh.

11
00:00:50,000 --> 00:00:55,000
Jones: Pluto reaches opposition on July 4th, when it's faintly visible all night long.

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00:00:55,000 --> 00:00:58,000
But Pluto isn't easy for amateur astronomers to spot.

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00:00:58,000 --> 00:01:02,000

You'll need a medium-sized telescope and very dark skies.

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00:01:02,000 --> 00:01:06,000

It's a thrill to see! And you can, too--with good star charts.

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00:01:06,000 --> 00:01:12,000

Binocular viewers will just need to look towards the handle of the teapot-shaped constellation Sagittarius

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00:01:12,000 --> 00:01:14,000

to find the general area.

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00:01:14,000 --> 00:01:17,000

Pluto will be one of the many objects in your field of view,

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00:01:17,000 --> 00:01:20,000

but you won't be able to actually see Pluto in your binoculars.

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00:01:20,000 --> 00:01:22,000

Sound: Whoosh.

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00:01:22,000 --> 00:01:26,000

Jones: Summer nights reveal Milky Way wonders to National Park visitors

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00:01:26,000 --> 00:01:29,000

and others who are away from urban light pollution.

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00:01:29,000 --> 00:01:33,000

And you won't need a telescope to enjoy the view!

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00:01:33,000 --> 00:01:38,000

Look for the Milky Way rising in the eastern sky a few hours after sunset.

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00:01:38,000 --> 00:01:43,000

From a dark location, it will span the sky from north to south by midnight.

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00:01:43,000 --> 00:01:47,000

Just sit back and surf the Milky Way with binoculars.

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00:01:47,000 --> 00:01:55,000

Start your tour near Scorpius's bright red star Antares, and soon you'll be viewing the center of our galaxy.

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00:01:55,000 --> 00:02:03,000

A nudge of your binoculars will reveal star clusters like M22--and M11, the Wild Duck Cluster,

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00:02:03,000 --> 00:02:09,000

and nebulae like M8, the Lagoon Nebula, and M20, the Trifid Nebula.

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00:02:09,000 --> 00:02:15,000

You can also see a dark lane that divides the bright band of the Milky Way lengthwise.

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00:02:15,000 --> 00:02:20,000

That's the Great Rift, star-forming molecular dust that blots out the light.

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00:02:20,000 --> 00:02:26,000

You can learn about how NASA studies stars and star forming regions in many wavelengths

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00:02:26,000 --> 00:02:31,000

and all of NASA's missions at www.nasa.gov.