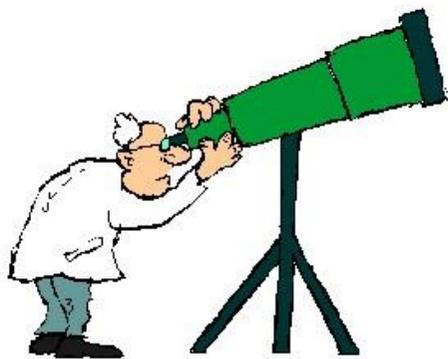


Stars Over Surrey

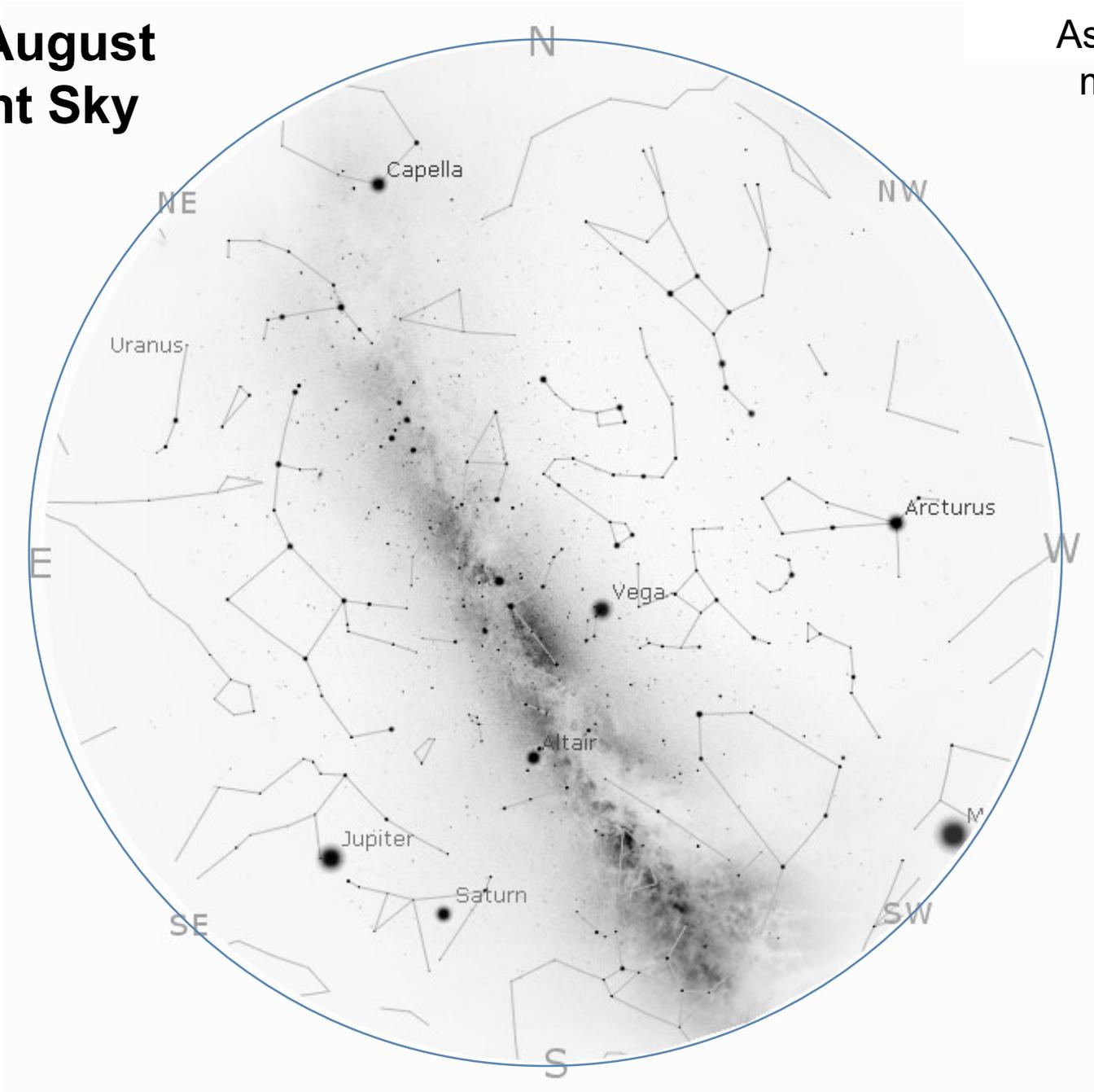
What's Up!

For August 2021



The August Night Sky

As at 11 p.m.
mid-month



Credit: Stellarium

Sun & Moon in August

- **New Moon** 8th
- **First Quarter** 15th
- **Full Moon** 22nd
- **Third Quarter** 30th

		Sun	Moon
1 st	Rise	05.26	00.00
	Set	20.39	15.01
15 th	Rise	05.48	14.14
	Set	20.23	23.23
31 st	Rise	06.13	23.43
	Set	19.50	17.09*

All times are BST

* following day

The Planets in August

Mercury

Mercury is an evening object for most of the month, very low in WNW, setting about 30 mins after the Sun. On the 6th it shines at mag -1.4, but fades in brightness after that.

Venus

Venus is an evening object, shining at mag -4.0 low in West setting approx one hour after the Sun.

Mars

Effectively lost in the evening twilight but will be back in November

The Planets in August

Jupiter

Rising in the ESE about 10pm at the start of the month. Bright at mag -2.9 and peaking at 25° high, Jupiter will be splendid and unmistakable.

Saturn

Saturn is also visible all night, low in the South, at mag +0.4 rising about an hour before Jupiter

Uranus

Although it rises before midnight Uranus is best seen as a morning object in the East.

Neptune

Becomes more easily visible in the SSE in the early hours from mid month.

Astronomical Phenomena in August

10th & 11th	On both nights Venus will be close to the waxing crescent Moon shortly after sunset
12th	Peak of Perseid Meteor Shower, theoretical max of 100 per hour. Best time to see it is probably between 01.00 and 03.30 BST on 13 th
22nd	(Only relevant to those with a reasonably sized telescope) Both Ganymede and Europa transit across Jupiter's disc at the same time as their shadows. Event in progress as Jupiter rises and finishes at 23.20 BST
30th	(Only relevant to those with a reasonably sized telescope) Both Io and Ganymede transit across Jupiter's disc at the same time as their shadows. Event starts at 21.00 BST and finishes at 04.22 next morning
31st	Peak of Aurigid Meteor Shower, usual theoretical max of just 6 per hour but this year there could be an outburst of between 50-100 per hour.

Meetings at Local Societies

- Given the current Covid-19 situation, all physical meetings at our local astronomical societies have been cancelled until further notice, some continue via Zoom for paid-up members.
- You might like however to see their websites for items of interest:
 - **Guildford AS** <http://www.guildfordas.org/>
 - **Farnham AS** <https://www.farnham-as.co.uk/>
 - **Croydon AS** <http://www.croydonastro.org.uk/>
 - **Ewell AS** <https://ewellastronomy.org/>
 - **Walton AG** <http://www.waltonastrogroun.co.uk/>

Free Meetings & Talks On-line

- **British Astronomical Association:** Zoom webinar
 - *“Electronic Assisted Astronomy”*
 - Wednesday 11th August, 7.00 - 8.30 p.m.
 - Callum Potter (Director, Deep-Sky Section)



Free Meetings & Talks On-line

- **Society for Popular Astronomy:**
 - *Pop Astro Live with Vicky Video*
 - Weekly on SPA's FaceBook page at 8.00 - 9.00 p.m.
 - usually a Thursday or Friday
 - Chat show rather than meeting
 - https://www.popastro.com/main_spa1/meetings-and-events/forthcoming-meetings/
- (will also be viewable via SPA's YouTube Channel)

Meetings & talks on-line

- You can also pay £3.00 to watch these on-line talk run by **GoSpaceWatch**: (book via Eventbrite)
 - *“The James Webb Space Telescope”*
 - Wednesday 18th August, 7.30 - 9.30 pm
 - John Thatcher

www.gospacewatch.co.uk/

Meetings & talks on-line

- **GoSpaceWatch** are also running a series of free short talks during August: (book via Eventbrite)
 - *“The Universe, Half an Hour at a Time”*
 - Dr Steve Barrett (University of Liverpool)
 - Tuesdays, 7.30 pm
 - 10th Aug: The Beginning of Everything
 - 17th Aug: The ABC of Stars and Galaxies
 - 24th Aug: Black Holes
 - 31th Aug: Keeping An Eye On The Universe

www.gospacewatch.co.uk/

Astronomy on TV

The Sky at Night

“Exploring Jupiter”

This month there are two anniversaries for the price of one! The National Space Centre in Leicester is 20 years old and NASA’s Juno space probe is 10. Recorded at the National Space Centre, this month’s episode looks at the achievements of the Jupiter explorer. Chris and Maggie speak to Juno’s Principal Investigator Scott Bolton and members of the UK Juno team, Jonathan Nichols and Leigh Fletcher.

Sunday 8th August BBC 4, 10.00 pm

Thursday 12th August BBC 4, 7.30 pm



That's all Folks!