



Hey everyone and welcome back! Hope you had a great holiday and happy new year!

This week's newsletter will focus on what we're planning to do for this term, a guide on what to watch out for this month and a few pictures from the talented astronomers at our society!

This term

For this week we're planning a film night! For you to vote which movie we're watching just fill this [form](#). We will be meeting in **Furness LT2** at **8pm**. Hope to see you there!

For the remaining weeks this is our plan and of course details on these socials will be posted soon!

- ★ Week 13: Messier Objects presentation
- ★ Week 14: LUPhys crossover - joining them for an academic talk
- ★ Week 15: Cinema trip to watch Ant-Man 3
- ★ Week 16: Linguistics crossover
- ★ Week 17: Games night/ Guest speaker - to be determined!
- ★ Week 18: Presentation
- ★ Week 19: Games night/ Guest speaker - to be determined!
- ★ Week 20: End of term quiz!

We also would love to know what's your interest in a trip to the radio telescope Jodrell Bank! Just answer this [form](#) so we can plan it out!

If you have any suggestions don't hesitate to reach out and I hope to see you in as many socials as you can!

Observing sessions

This wednesday the weather is really good so we're hoping to invite you up to the observatory! Sign up on our [form](#) if you haven't already! If you already have, there is no need to sign up again. We have registered your name and will call you up soon!

What to observe in the night sky? *(Jan 2023)*

January is coming to an end but there is still plenty to see if you have not already!

Although it's the end of the month, we can still see the winter hexagon rising in the east and setting in the west. It's made of Sirius from the constellation Canis major, Procyon from Canis minor, Pollux from Gemini, Capella from Auriga, Aldebaran from Taurus and Rigel from Orion. In the following days Mars is also near the hexagon so make sure to take a look!



Jupiter is also pretty bright in the sky near pisces which rises on the south and sets on the west just before midnight.

Saturn has been travelling close to the Sun and throughout all month so it is harder to spot but it can be observed in the southwest near the horizon. Yesterday (22/01) it was in its highest conjunction with Venus (appears close in the night sky) but no worries if you didn't see it because today (23/01) the Moon joins these two! As these objects are close to the sun and low in the horizon it might be tricky to spot them but we would say the best time is around 5pm today towards the northwest.

Another planet you can observe is Mercury although again quite tricky as it is also close to the Sun and low to the horizon. If you are up to waking up early you can attempt to view Mercury in the Southeast between 7:20-7:30am. We believe the best day would be tomorrow (24/01) as on the following days it falls too low in the horizon.

Leaving the best for last, there is a comet going by Earth by the name of C/2022 E3 (ZTF). Although with a very convoluted name, the C means it is not a periodic comet, the 2022 is the year it was discovered, the E stands for March, the 3 means it was the third object discovered in that month and year and the ZTF means it was discovered by the Zwicky Transient Facility. In short, it was the third object discovered in March of 2022 by the Zwicky Facility and is not a periodic comet.

The comet is visible just after midnight and it is highest in the sky just before dawn. At the moment it is travelling close to ursa minor but at its brightest on February 1st, it will be in the constellation of Camelopardalis.

There are hopes that maybe the comet will be visible to the naked eye but if not, small telescopes or maybe a pair of binoculars will definitely do the trick so stay tuned for our observing sessions!

All the information and picture was based on the video

[What's in the Night Sky January 2023 🌌 Comet C/2022 E3 \(ZTF\) | Mars Occultation](#) by Alyn Wallace. Check it out to find out more!

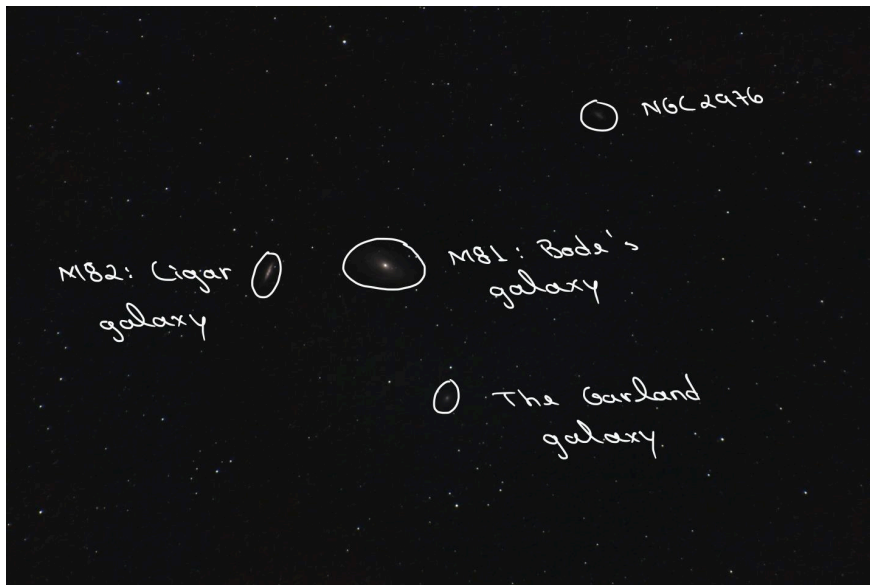
Photo Gallery

For this week's photo gallery, we have a few pictures from our exec that were taken over the holidays and some pictures of the comet that we are looking forward to observing! If you wanna be featured on next week's newsletter, just send over your photos on our discord server or instagram letting us know that we can share them!

Here we have a stunning photo of the Moon taken by our social secretary Joe!



This next gorgeous photo was taken by our former president and you can see these 4 galaxies in only one shot! We have M82 the Cigar galaxy, M81 Bode's galaxy, the Garland galaxy and NGC 2976.



The next two lovely photos were also taken by Jacob in which you see M42 the Orion nebula.



Contacts

If you wanna reach out, just message LUAstro on instagram or any of the exec on discord and don't forget to follow us on our socials and discord [here](#)! Clear skies everyone!

Best wishes,

MJ (LUAstro Secretary)