

# WEYMOUTH ASTRONOMY

## Sky Watcher

Volume 14, Issue 10



### Trips / Events

Ideas for trips and events always welcome!

[events@weymouthastronomy.co.uk](mailto:events@weymouthastronomy.co.uk)

**Society Meetings cancelled until further notice—Please check their websites for the latest schedule**

In the meantime, the British Astronomical Association has moved their meetings to an online format. Live streamed on release and 'catch-up' on Youtube available.

<https://britastro.org/>

**BAA live webinars, 7pm every Wednesday**

<https://www.youtube.com/user/britishastronomical>

If you are interested in giving a talk or workshop, let the organisers know. They like to offer new titles in their programme line-up.

In honour of Hubble's 30th Anniversary, we came across the fun sight 'What Did Hubble See on Your Birthday?'

<https://www.nasa.gov/content/goddard/what-did-hubble-see-on-your-birthday>

Hubble explores the universe 24 hours a day, 7 days a week. That means it has observed some fascinating cosmic wonder every day of the year, including on your birthday. What did Hubble look at on your birthday? Enter the month and date to find out!

During this time, perhaps you can jot a few notes on how Astronomy is part of your life for sharing in the next Sky Watcher. Look forward to hearing from you! [sheri-karl@rocketmail.com](mailto:sheri-karl@rocketmail.com)



### Become a Citizen Scientist with NASA! by David Prosper

Ever want to mix in some science with your stargazing, but not sure where to start? NASA hosts a galaxy of citizen science programs that you can join! You'll find programs perfect for dedicated astronomers and novices alike, from reporting aurora, creating amazing images from real NASA data, searching for asteroids, and scouring data from NASA missions from the comfort of your home.

If you can't get to your favorite stargazing spot, then NASA's suite of citizen science programs may be just the thing for you.

Jupiter shines brightly in the morning sky this spring. If you'd rather catch up on sleep, or if your local weather isn't cooperating, all you need is a space telescope - preferably one in orbit around

Jupiter! Download raw images straight from the Juno mission, and even process and submit your favorites, on the **JunoCam** website! You may have seen some incredible images from Juno in the news, but did you know that these images were created by enthusiasts like yourself? Go to their website and download some sample images to start



*GREAT SOUTHERN JUPITER: Incredible image of Jupiter, submitted to the JunoCam site by Kevin M. Gill. Full Credits: NASA/JPL-Caltech/SwRI/MSSS/Kevin M. Gill*

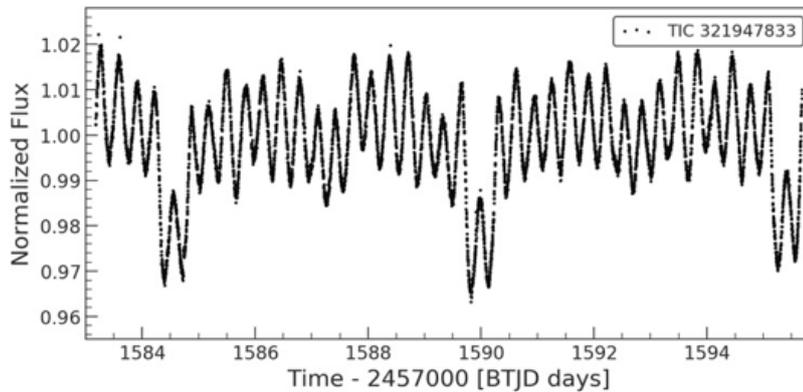
### WAC Upcoming Events:

| Meeting room cancelled until further notice. | Watch website for online options.                             |
|--|---|
| 12th June                                    | James Fradgley - How (on Earth) did life start [Zoom Meeting] |
| July   | No Meeting  |
| August                                       | No Meeting  |
| 11 Sept                                      | Open Evening [TBC]  |
| 9 Oct  | Ask the Panel   |

**NASA! (more!)**

your image processing journey. Who knows where it will take you? Get started at [bit.ly/nasajunocam](http://bit.ly/nasajunocam)

Interested in hunting for asteroids? Want to collaborate with a team to find them?? The **International Astronomical Search Collaboration** program matches potential asteroid hunters together into teams throughout the year to help each other dig into astronomical data in order to spot dim objects moving in between photos. If your team discovers a potential asteroid that is later



*Light curve of a binary star system containing a pulsating (variable) star, as spotted on Planet Hunters TESS by user [mhuzeu](#) and featured by project scientist Nora Eisner as a "Light Curve of the Week."*

*Credit: Planet Hunters TESS/NASA/[mhuzeu](#)/Nora Eisner*

confirmed, you may even get a chance to name it! Join or build a team and search for asteroids at [iasc.cosmosearch.org](http://iasc.cosmosearch.org)

Want to help discover planets around other star systems? NASA's TESS mission is orbiting the Earth right now and scanning the sky for planets around other stars. It's accumulating a giant horde of data, and NASA scientists need your help to sift through it all to find other worlds! You can join **Planet Hunters TESS** at: [planethunters.org](http://planethunters.org)

Intrigued by these opportunities? These are just a few of the many ways to participate in NASA citizen science, including observing your local environment with the GLOBE program, reporting aurora with Aurorasaurus, measuring snowpack levels, training software for Mars missions – even counting penguins! Discover more opportunities at [science.nasa.gov/citizenscience](http://science.nasa.gov/citizenscience) and join the NASA citizen science Facebook group at [facebook.com/groups/Sciencing/](https://facebook.com/groups/Sciencing/). And of course, visit [nasa.gov](http://nasa.gov) to find the latest discoveries from all the research teams at NASA!

**All things Hubble!**

A Hubble look at colourful nebulosity, dubbed the "cosmic reef," inside the Large Magellanic Cloud. The image was captured to mark the space telescope's 30th year in space. Image: NASA, ESA, STScI

**[24 April 2020—Astronomy Now]**

Marking the 30th anniversary of the Hubble Space Telescope's launch on 24 April 1990, NASA and the European Space Agency released a spectacular photo of a vast star-forming region in the Large Magellanic Cloud some 163,000 light years from Earth. The centrepiece of the upper, reddish nebula (NGC 2014) is a group of massive stars that generate powerful solar winds sculpting the surrounding material while intense ultraviolet radiation heats dense clouds of gas. The blue nebula (NGC 2020) was formed by a single star 200,000 times brighter than the Sun as it blew off its outer atmosphere in a series of eruptions. The space telescope has been on its own since NASA's fifth and final servicing mission in 2009, but mission managers say the observatory continues to operate in near flawless fashion.

**Hubble's 30-year legacy [1 April 2020—Physics Today]**

A data visualization charts the positions in the sky of the *Hubble Space Telescope's* plethora of cosmic targets.

<https://physicstoday.scitation.org/doi/10.1063/PT.6.4.20200401a/full/media/sizes/full/poster-1.png>