



**Pluto as a Christmas bauble**

- produced by using three infrared wavelength ranges in Ralph/LEISA instrument scans, with mean range of 108,000 km

*New Horizons*

*Composition Team:*

*NASA/JHUAPL /SwRI*

## What to look out for in the night sky

**5-6 November Taurids Meteor Shower** The shower runs from 7 September to 10 December, producing 5 meteors per hour, peaking on the night of 5 November. Best viewing is just after midnight, meteors radiating from the constellation Taurus.

**6 November Mercury at Greatest Eastern Elongation** The planet is best seen low in the western sky, just after sunset.

**17-18 November Leonids Meteor Shower** The shower will produce up to 15 meteors per hour and runs from November 6-30, peaking on the night of the 17/18 November. The best view will be from midnight, meteors radiating from the constellation Leo.

**23 November Full Moon** This is known as the Full Beaver Moon, Frosty Moon or Hunter's Moon.

**13-14 December Geminids Meteor Shower** Considered to be one of the best showers, producing up to 120 multicoloured meteors per hour. The shower runs from 7-17 December, peaking this year on the night of the 13/14 December. The best view will be from midnight, meteors radiating from the constellation Gemini.

**15 December Mercury at Greatest Western Elongation** Look for the planet in the eastern sky, just before sunrise.

**21 December Winter Solstice** This is the first day of winter in the Northern Hemisphere and the first day of summer

in the Southern Hemisphere.

**22 December Full Moon** This is known as the Cold Moon, Long Nights Moon or Moon Before Yule.

**21-22 December Ursids Meteor Shower** This is a minor meteor shower producing about 5-10 meteors per hour. The shower runs from 17-25 December, peaking on the night of the 21/22 December. The best view will be just after midnight although the glare of the full moon might interfere. Meteors will radiate from the constellation Ursa Minor.

## Forthcoming Club Events

Meetings are held in **The Lounge, Geddington Village Hall, Queen Street, Geddington NN14 1AZ**

Please visit [www.naastronomy.com](http://www.naastronomy.com) to check final meeting information. Visit the NAA Facebook pages for discussion, photos and events.



**Tuesday 6 November** 7.30 for 7.45pm - Members' talks (Nick Freville and Aninda Biswas) and skywatching (weather permitting)

**Tuesday 13 November** 7.30pm - Committee meeting at The Piper, Windmill Avenue, Kettering

**Tuesday 20 November** 7.30 for 7.45pm – Visiting speaker, Mike Frost

**Friday 30 November** 7.30 for 7.45pm - Christmas supper (*booking essential*)

**Tuesday 11 December** 7.30pm - Committee meeting at The Piper, Windmill Avenue, Kettering

**Tuesday 18 December** 7.30 for 7.45pm - Fish and Chip supper (*booking essential*) and Eleanor Patrick will be giving us a talk

Meetings with guest speakers: £3 (£4 for non-members)

General meetings: £2 (£3 for non-members)

Full membership: £30 (Concessions £19)

## Club Contact Details

**President:** Nick Freville Tel: 01536 723211 email: [astro2002astro@yahoo.co.uk](mailto:astro2002astro@yahoo.co.uk)

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**Treasurer:** Eleanor Patrick Tel: 01536 521488

**Committee Members:** Mervyn Lloyd Tel: 01536 521581, Frank Tasker Tel: 01536 390040, Jane Napier Tel: 07960 262401, Anne Douglas email: [adouglas2@sky.com](mailto:adouglas2@sky.com)

Useful websites:

<http://www.astronomy.co.uk/skymap>

<https://www.timeanddate.com/astronomy/sights-to-see.html>

<https://www.nasa.gov/>



Heart and Soul nebula in Cassiopeia:  
NASA/JPL-Caltech/UCLA

[www.naastronomy.com](http://www.naastronomy.com) - Registered Charity No: 1029891

