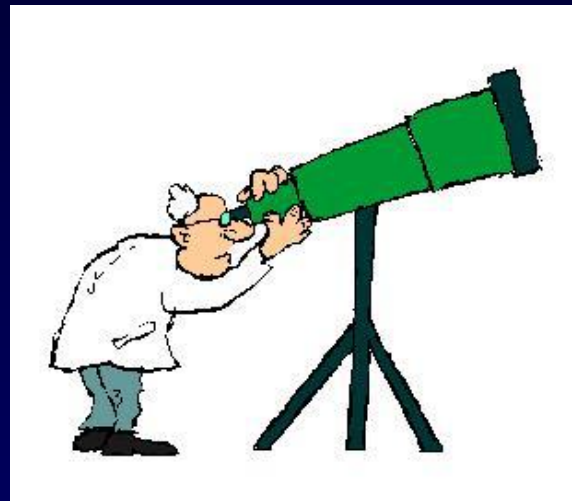


What's Up!

For January 2018



BROOKLANDS**RADIO**

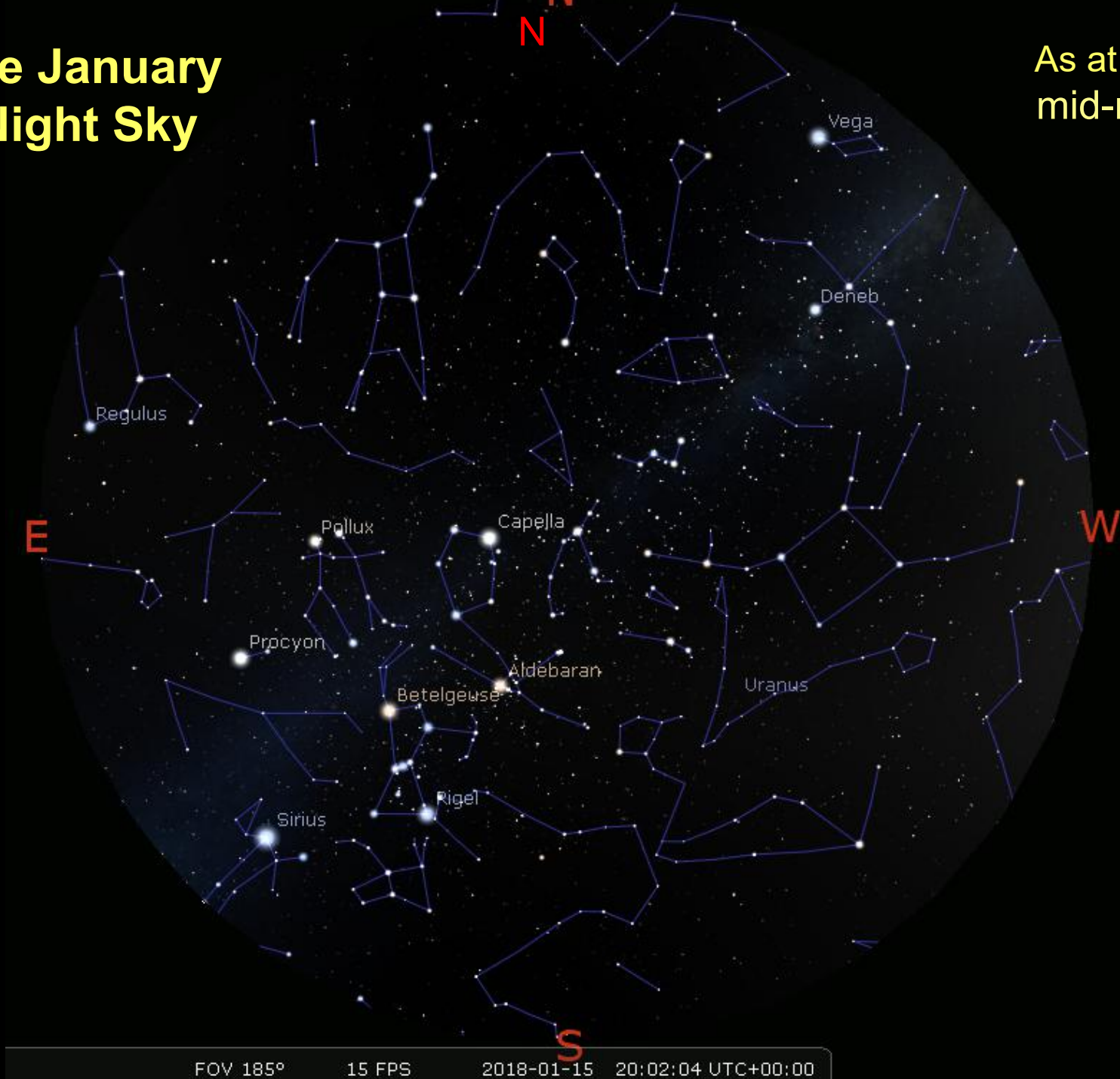
ONLINE

The Sound of Surrey



The January Night Sky

As at 8 p.m.
mid-month



The Moon in January

JANUARY 2018						
MON	TUES	WED	THUR	FRI	SAT	SUN
1  Full Moon	2 	3  Waning Gibbous	4 	5 	6 	7 
8  Third Quarter	9 	10  Waning Crescent	11 	12 	13 	14 
15 	16  New Moon	17 	18  Waxing Crescent	19 	20 	21 
22 	23 	24  First Quarter	25 	26  Waxing Gibbous	27 	28 
29 	30 	31  Full Moon				

What's Up - January's Planets

- Mercury

- A morning object, low in South-East rising 2 hrs before sunrise at start of month, Mag -0.2. Lost after mid month

- Venus

- Not easily visible till very end of month as a bright evening object low in West-South west just after sunset.

- Mars

- Another morning object, relatively dim at Mag +1.5 in E-SE, visible from around 5 a.m.

What's Up - January's Planets

- Jupiter

- Improves throughout the month as a morning object, easily visible at Mag -1.7 in SSE before sunrise.

- Saturn

- A difficult early morning object, only visible from middle of month, very low in South Eastern sky, before sunrise.

- Uranus

- Well placed all month, binocular object visible all night at Mag +5.8 in Pisces

- Neptune

- Well placed for most of the month, telescopic object at Mag +7.9 in Aquarius.

Events of Interest in January

- **2nd** Largest (tiny amount) Full Moon of year 📷
- **3rd** Max of Quatrads Meteor Shower, but Moon is unfavourable.
- **6th** Comet C/2016 R2 PanSTARS close to “nose” of Taurus (but at mag +13.2 a scope is needed)
- **7th** Jupiter & Mercury just 13 arc minutes apart. 📷🔭
- **15th** 7.30 a.m 2% waning crescent Moon in right angle triangle with Saturn & Mercury 📷

January's Suggested Constellation



January's Suggested Constellation

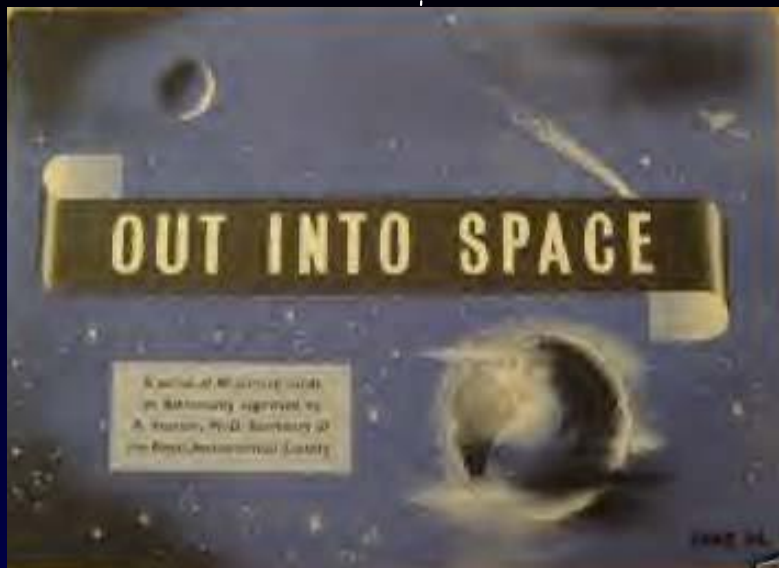


Recognise
it yet?

January's Suggested Constellation



That's right
- Taurus



A SERIES OF 50 No. 25

OUT INTO SPACE

Approved by A. Hunter, Ph.D.,
Sec. Royal Astronomical Society

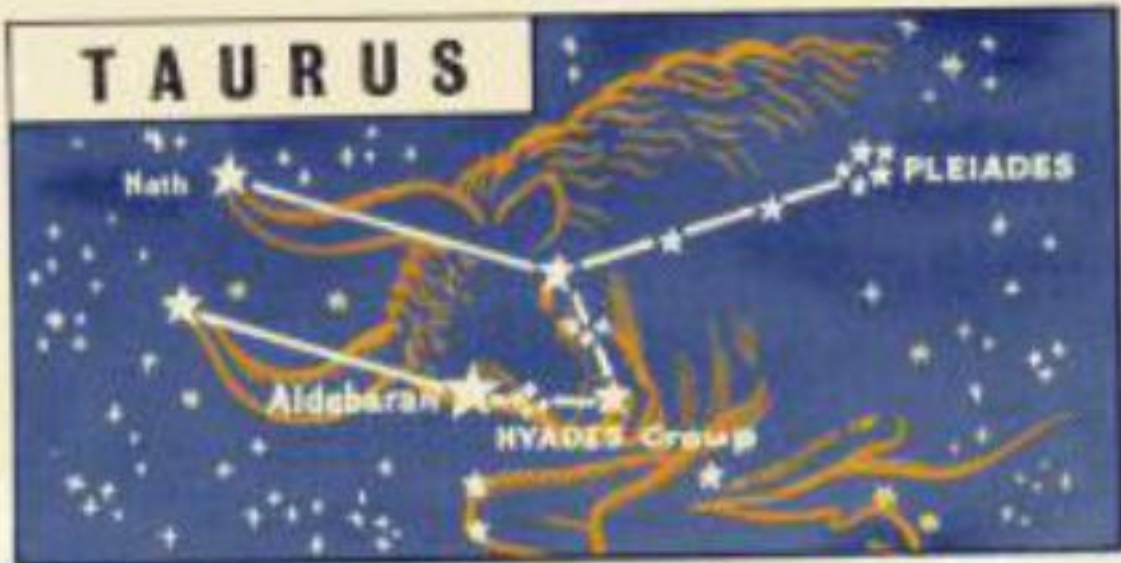
TAURUS

Taurus (Bull), second of the Zodiacal Signs, has two main groups of stars in the constellation. One is Hyades, a V-shaped group; the other is the Pleiades cluster. According to fable, the Pleiades are the seven daughters of Atlas turned to stars with their sisters, the Hyades, on account of their virtues and mutual affection. The red star Aldebaran (Follower) so named for following the Pleiades, is principal star in Hyades group, and a navigation star. Mythology says that the god Jupiter took the shape of a bull when he abducted Europa and carried her to Crete.

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Whereabouts can I find it in the night sky?



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Taurus

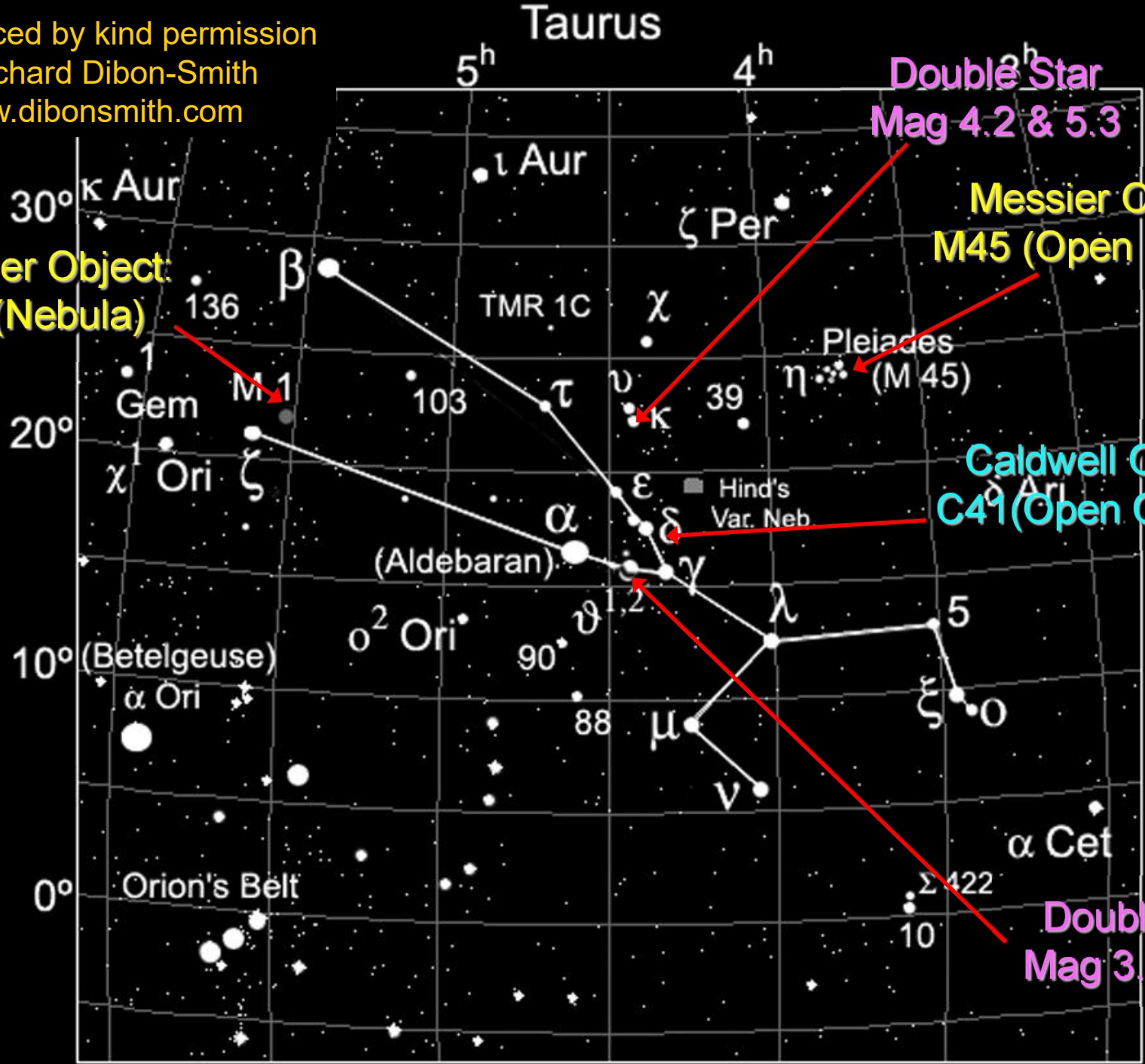
Messier Object:
M1 (Nebula)

Double Star
Mag 4.2 & 5.3

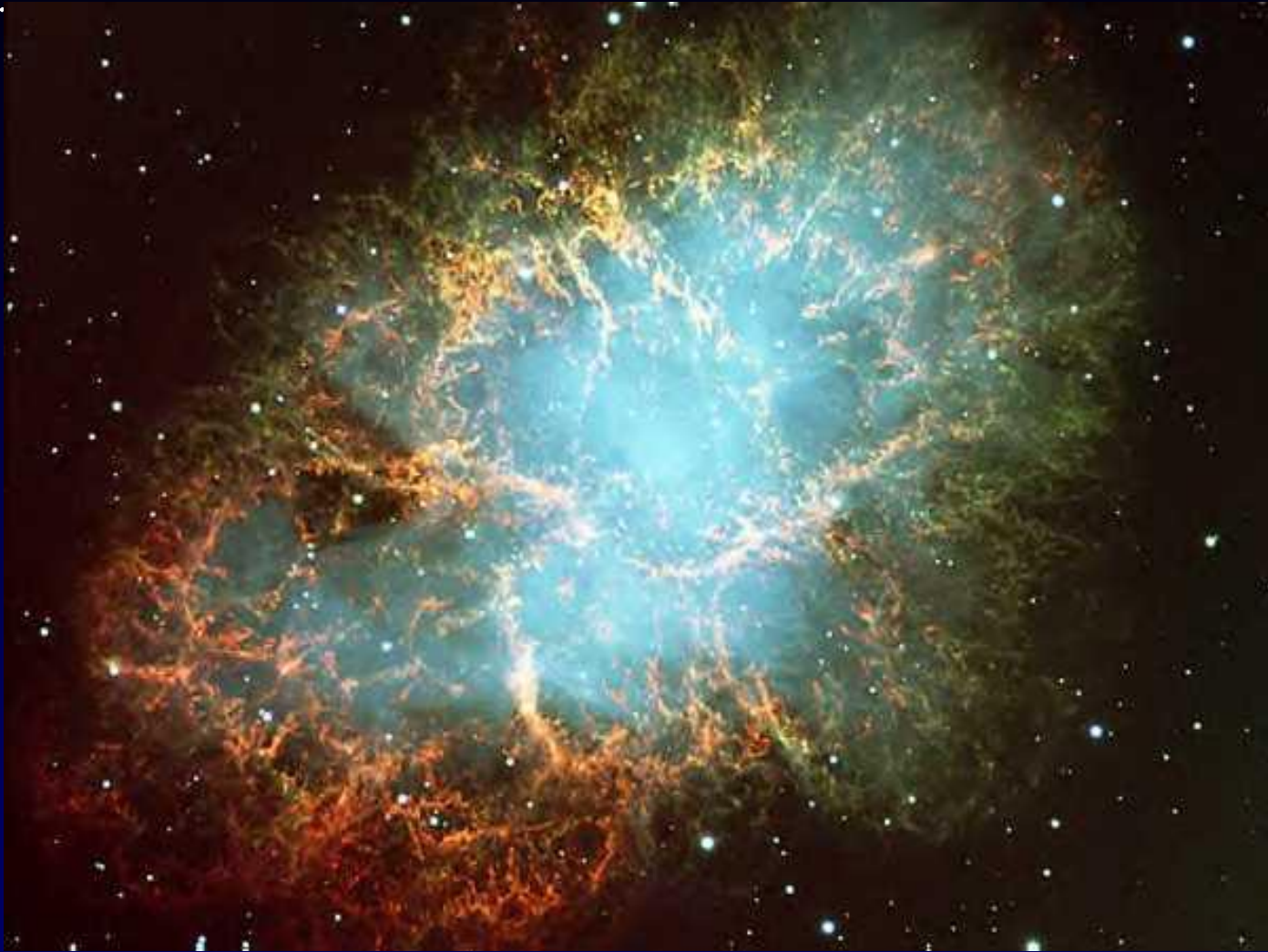
Messier Object:
M45 (Open Cluster)

Caldwell Object
C41 (Open Cluster)

Double Star
Mag 3.2 & 3.8



Messier M1 - The Crab Nebula (Supernova Remnant)



Distance 6,500 light years
Visual Brightness Magnitude 8.0

Apparent Dimensions 6 arc minutes
Discovered 1731 John Bevis

Messier M45 - The Pleiades (Open Cluster)



Distance 407 light years
Visual Brightness Magnitude 1.5

Apparent Dimension 2 degrees
Discovered Known since antiquity

Caldwell C41 - The Hyades (Open Cluster)



Distance 151 light years
Visual Brightness Magnitude 0.5

Apparent Dimension 5.5 degrees
Discovered 1777 **Known since** antiquity

Meetings at Local Societies

- **Guildford AS** *Lecture Theatre L, Uni of Surrey*

– Thursday 4th January, 7.30 p.m.

» **Ten Ways The Universe Tries To Kill You**

» **Stephen Tonkin**

Meetings at Local Societies

- **Farnham AS Aldershot Cricket Club**
 - Tuesday 9th January, 7.45 p.m.
 - **Meteor Crater**
 - Katherine Rusbridge (Farnham AS)
 - **The Kitt Peake Telescopes**
 - Bob Rusbridge (Farnham AS)

Talks at Local Astro Societies

- **Croydon AS** *Royal Russell School, Coombe Lane, Croydon*
 - Friday 12th January, 7.45 p.m.
 - 2017 Total Solar Eclipse
 - William Lumb
 - Friday 26th January, 7.45 p.m.
 - Remote Imaging: The Trials, Tribulations & Rewards
 - Chris Baker

- **Ewell AS** *Nonsuch High School for Girls, Cheam*
 - Friday 12th January, 8.00 p.m.
 - Andrew Ainsley Common (early astro-imager)
 - Dr David Arditti

Stargazing Evening - Guildford Cathedral with Guildford AS

- Saturday 20th January, 6 p.m. till 9 p.m.
- Childrens Activities in Cathedral
- Talks
 - 6.30 p.m. “Gravitational Waves”
 - Lousie Osborne
 - 7.30 p.m. “Galaxies and Black Holes”
 - Prof Roger Davies, Astrophysics, Uni of Oxford
- Restaurant & Shop open
- Free car park
- £2 donation suggested



Astronomy on TV

- **The Sky at Night**

- *The Invisible Universe*

- The things we think exist in the cosmos, but can't actually see, i.e. Dark Matter, Dark Energy and the Oort Cloud. The team talk to researchers who are trying to make the unseen visible, and how that could change our knowledge of the Universe.

Sunday	14 th January	BBC 4, 10.00 pm
Thursday	18 th January	BBC 4, 7.30 pm

*for exact times please check www.radiotimes.com
or www.bbc.co.uk/skyatnight*