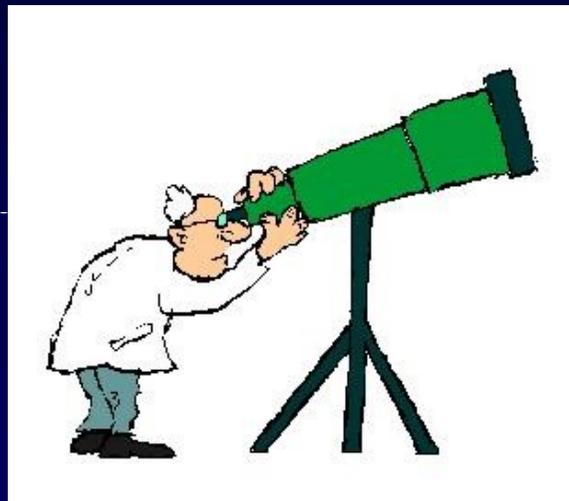


What's Up!

For May 2018



BROOKLANDSRADIO

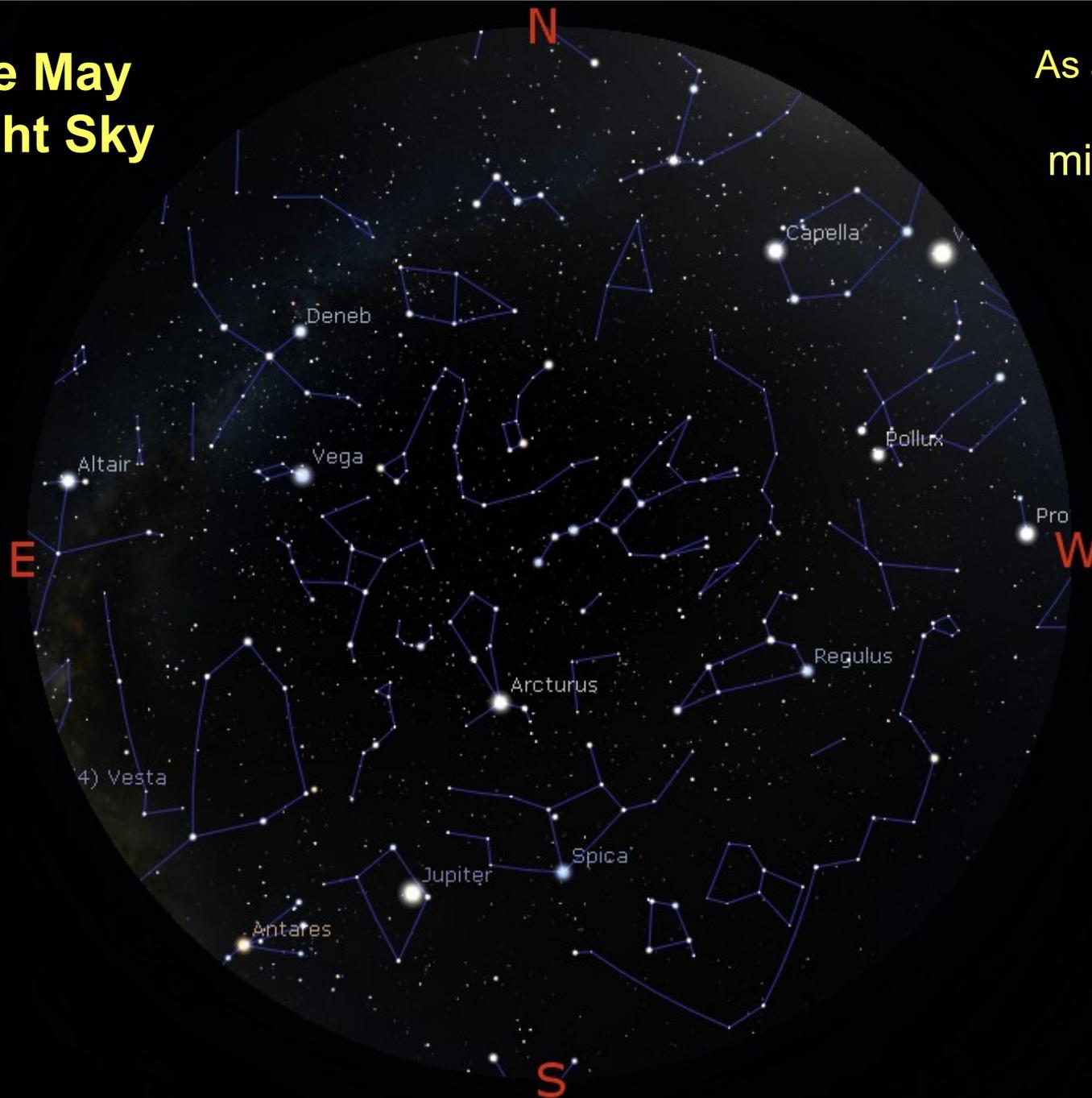
ONLINE

The Sound of Surrey



The May Night Sky

As at 10 p.m.
BST
mid-month



FOV 197°

18.2 FPS

2018-05-15 22:01:53 UTC+00:00

The Moon in May



What's Up - May's Planets

- Mercury

- Not well placed this month, too close to the Sun.

- Venus

- A brilliant Mag -3.8 evening object, in West-northwest, setting 3 hours after sunset

- Mars

- A morning object, brightening from Mag -0.4 to -1.2 as month draws on, but low in South East, visible in the early hours

What's Up - May's Planets

- Jupiter

- Now rising in the evening but best seen after midnight. Easily visible at Mag -2.5 in South in early hours.

- Saturn

- An early morning object shining at Mag +0.7, improving as month progresses, very low in Southern sky.

- Uranus

- Not visible this month

- Neptune

- Not visible this month

Events of Interest in May

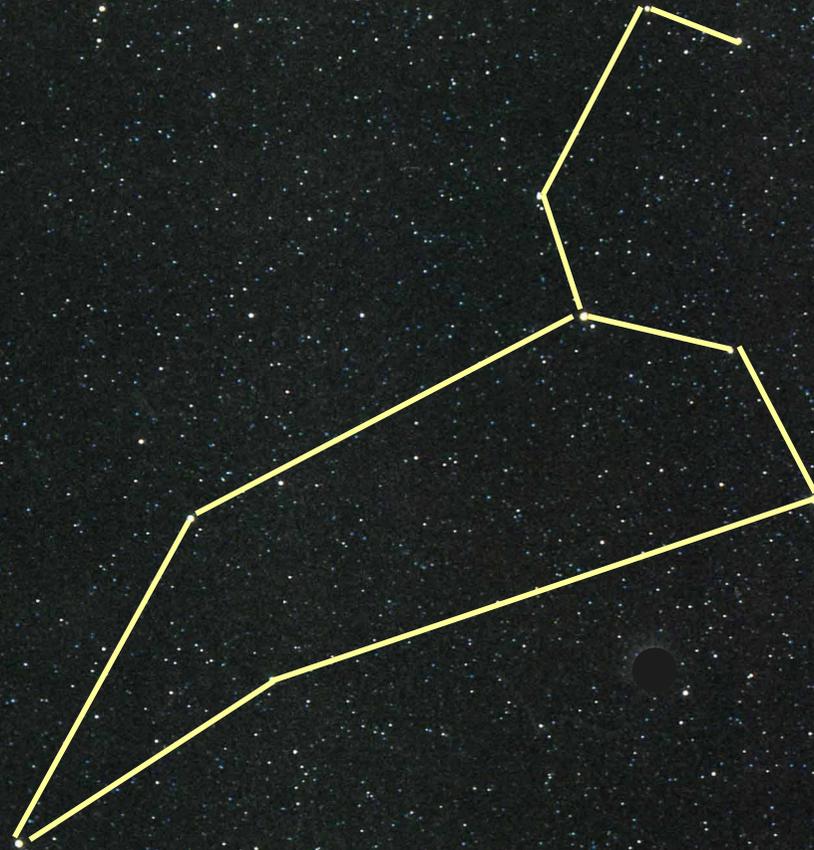
- **5th** Moon & Saturn just 3° rising above South Eastern horizon from 1.30 a.m. 
- **6th** Waning gibbous Moon about 3° from Mars, before dawn
- **15th** Saturn just 1.5° above globular cluster M22 in Sagittarius 
- **17th** Thin crescent Moon 5.5° below Venus low in West North West after sunset
- **20th** Venus 1° from open cluster M35 in Gemini 
- **27th** Jupiter & near full Moon 3.3° apart, 10pm

May's Suggested Constellation - but which one?

*Have you
recognised
it yet?*

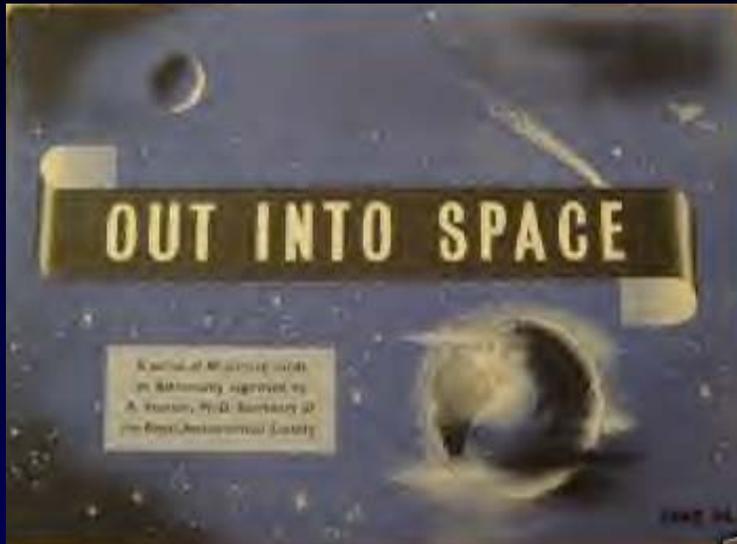


May's Suggested
Constellation - but which one?



That's right - Leo

May's Suggested Constellation



A SERIES OF 50 No. 28

OUT INTO SPACE

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

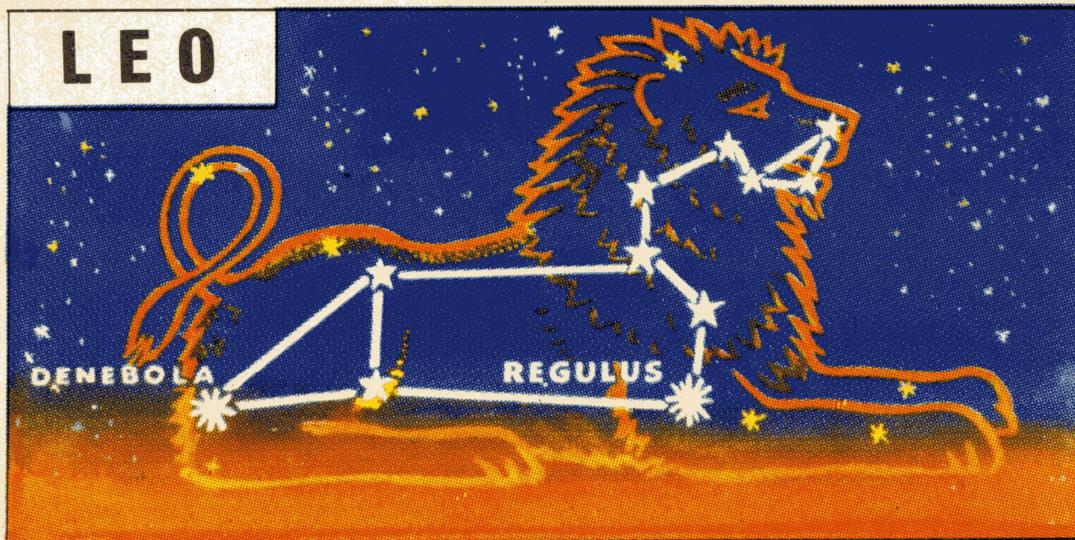
LEO

Leo (Lion), fifth sign of the Zodiac, is bounded on the West by Cancer, on the East by Virgo. It is easy to locate . . . a straight line from the Pole Star to Plough Pointers leads to Leo. February to end of June is good time for viewing, but evenings in March and April are best. Principal and very prominent star is Regulus . . . also known as Cor Leonis (Lion's Heart) or Royal Star. Regulus, Gamma Leonis and several smaller stars form a group shaped like a sickle. From near these stars most of November meteor showers known as Leonids radiate.

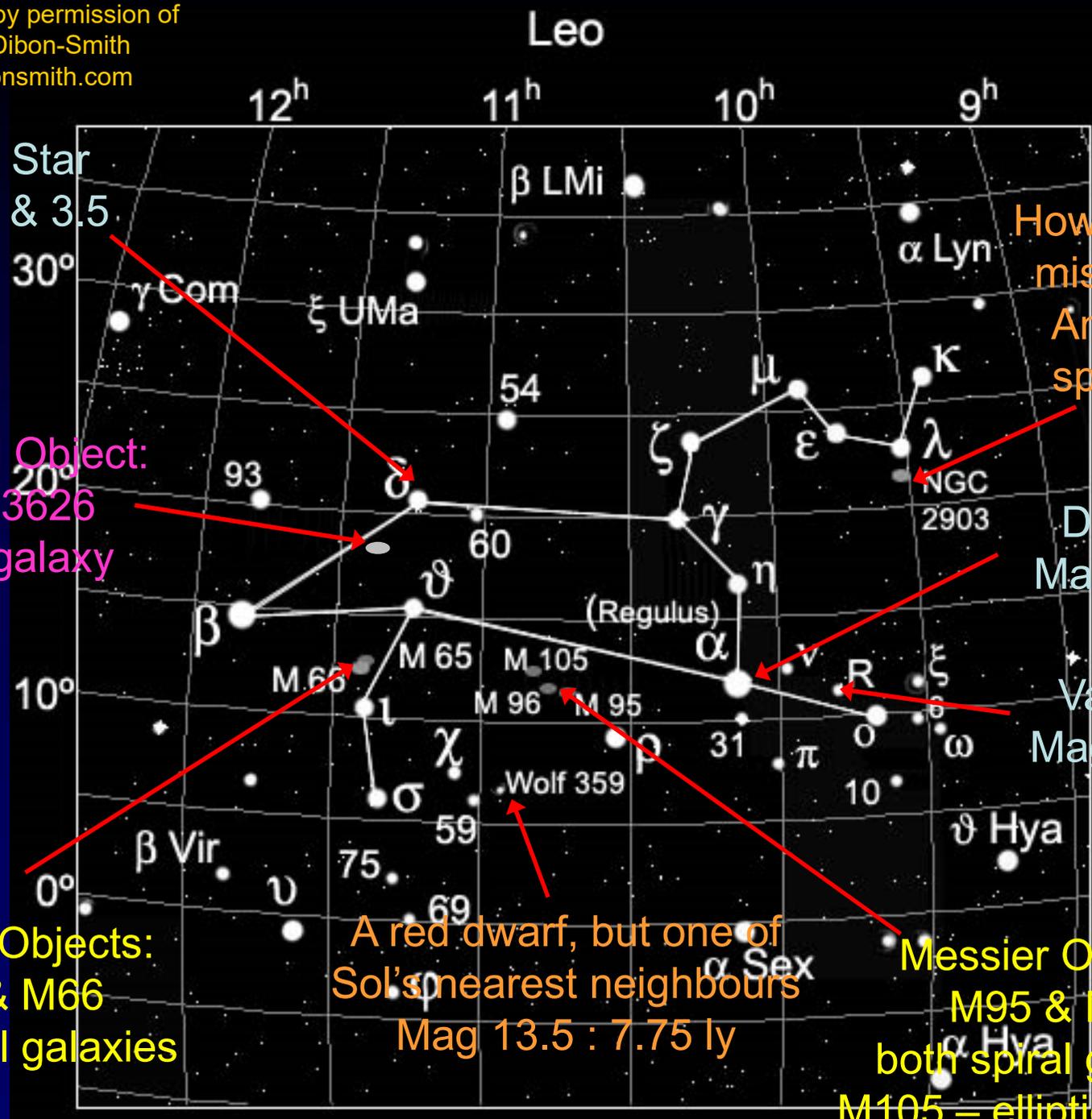
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Double Star
Mag 2.2 & 3.5

Caldwell Object:
NGC 3626
spiral galaxy

Messier Objects:
M65 & M66
both spiral galaxies

A red dwarf, but one of
Sol's nearest neighbours
Mag 13.5 : 7.75 ly

Messier Objects:
M95 & M96
both spiral galaxies
M105 – elliptical galaxy

How did Messier
miss this one?
Another nice
spiral galaxy

Double Star
Mag -0.7 & 7.7

Variable Star
Mag 4.4 → 11.3



Messier Objects in Leo



M65 © Anglo-Australian Observatory
Photograph by David Malin

M65 (NGC 3623)
Spiral Galaxy

Distance 24 million light years
Visual Brightness Magnitude 9.3
Apparent Dimension 9 arc minutes
Discovered 1780 Pierre Méchain



M66 © Anglo-Australian Observatory
Photograph by David Malin

M66 (NGC 3627)
Spiral Galaxy

Distance 21.5 million light years
Visual Brightness Magnitude 8.1
Apparent Dimension 9 arc minutes
Discovered 1780 Pierre Méchain

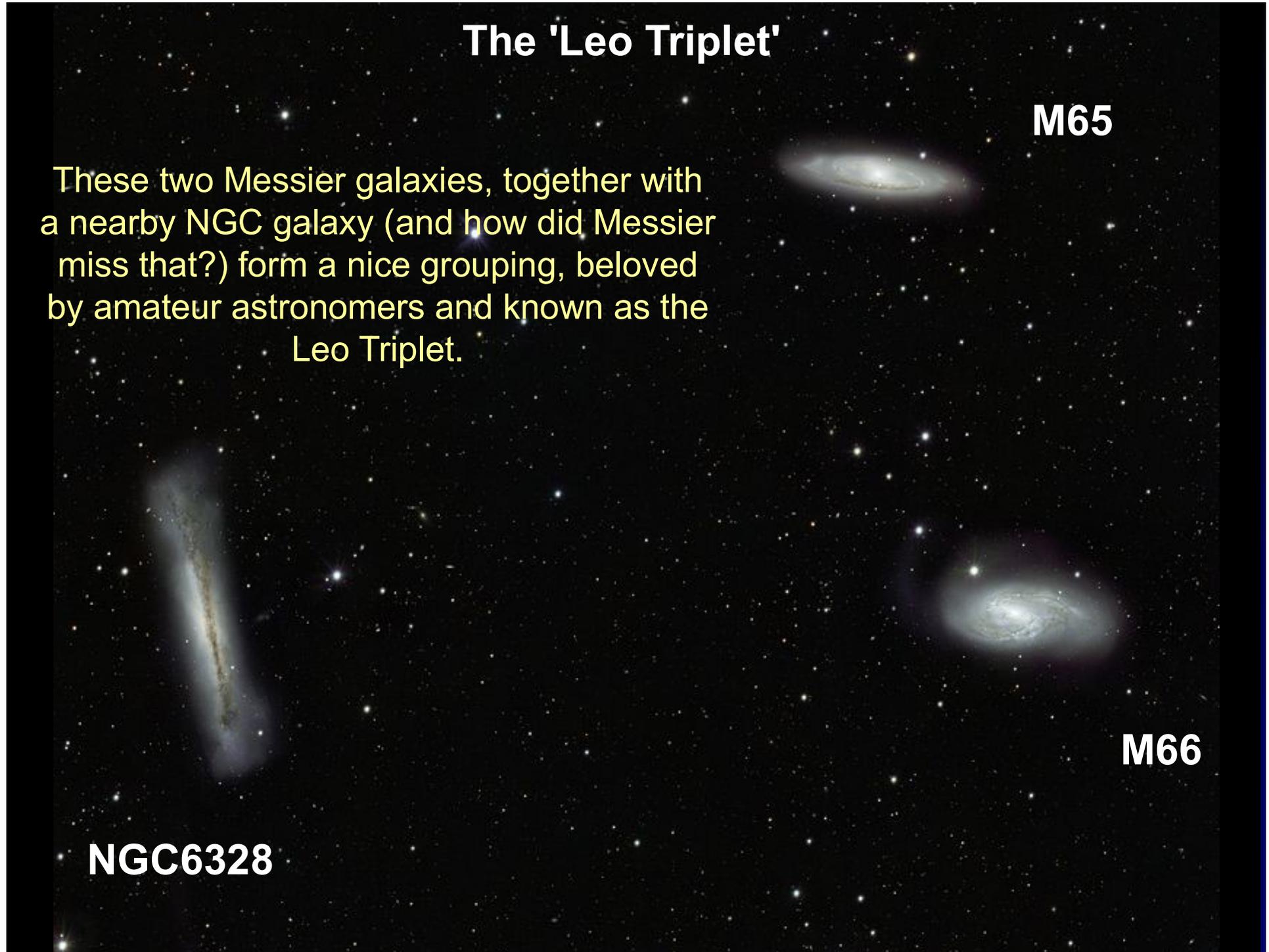
The 'Leo Triplet'

These two Messier galaxies, together with a nearby NGC galaxy (and how did Messier miss that?) form a nice grouping, beloved by amateur astronomers and known as the Leo Triplet.

M65

M66

NGC6328



Messier Objects in Leo (contd)



M95 (NGC3351)

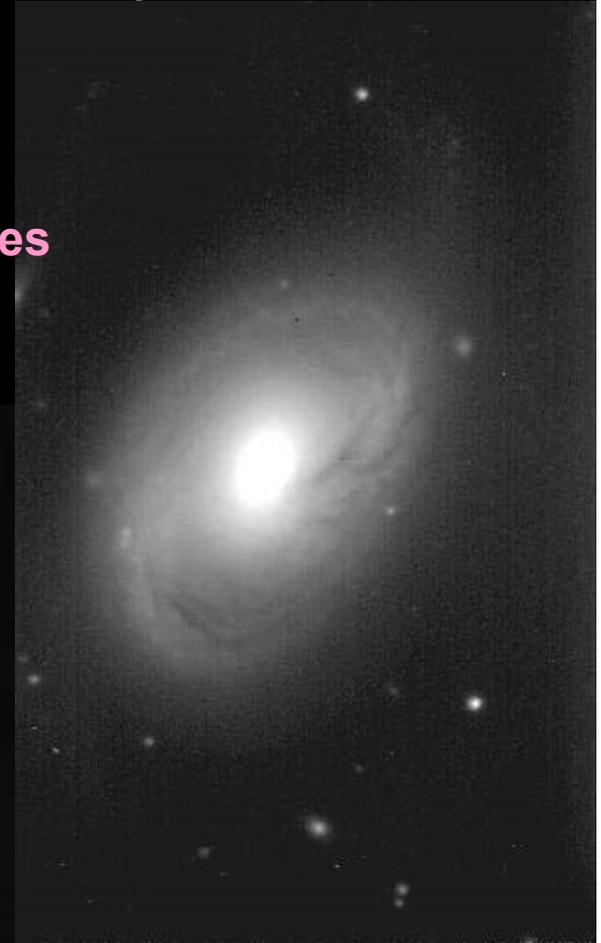
Barred Spiral Galaxy

Distance 26.5 million light years
Visual Brightness Magnitude 9.7
Apparent Dimension 7 arc mins
Discovered 1781 Pierre Méchain

Distance 26 million light years
Visual Brightness Magnitude 9.3
Apparent Dimension 5 arc minutes
Discovered 1781 Pierre Méchain

M105 (NGC3379)

Elliptical Galaxy



M96 (NGC3368)

Spiral Galaxy

Distance 26.5 million light years
Visual Brightness Magnitude 9.2
Apparent Dimension 7 arc mins
Discovered 1781 Pierre Méchain

Caldwell Object in Leo

C40 (NGC3626) Lenticular Galaxy



Distance 86 million light years
Visual Brightness Magnitude 11
Apparent Dimension 3 arc minutes
Discovered 1784 William Herschel

Meetings at Local Societies

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

– Thursday 3rd May, 7.30 p.m.

» **Twinkle: an alternative approach to space science missions**

» **Dr Marcell Tessenyi**

» Dept of Physics and Astronomy

» University College London

Meetings at Local Societies

- **Farnham AS Aldershot Cricket Club**

- Tuesday 8th May, 7.45 p.m.

- **Inflation: the Beginning and End of the Universe?**

- **Danny Thomas**

- » Farnham AS

Talks at Local Astro Societies

- **Croydon AS** *Royal Russell School, Coombe Lane, Croydon*
 - Friday 11th May, 7.45 p.m.

- **AGM**

- Friday 25th May 7.45 p.m.

- **Sun, Sea and Smoke**

- **Graham Bryant**

- » Hampshire AG

-

Talks at Local Astro Societies

- **Ewell AS** *Nonsuch High School for Girls, Cheam*
 - Friday 11th May, 7.45 p.m.
 - **Space Dogs, The True Story of Russia's Canine Cosmonauts**
 - Caroline Beevis, Mid-Kent Astro Soc

Astronomy on TV

The Sky at Night

A Galactic Revolution

The Gaia mission is a European Space Agency project to make a 3D map of the galaxy by studying over a billion stars. Following Gaia's second release of findings Chris and Maggie find out what we've learned and what it might reveal about the formation and evolution of the Milky Way.

Sunday 13th May BBC 4, 10.00 pm

Thursday 17th May BBC 4, 7.30 pm

(please check www.radiotimes.com www.bbc.co.uk/skyatnight)



"That's all Folks!"