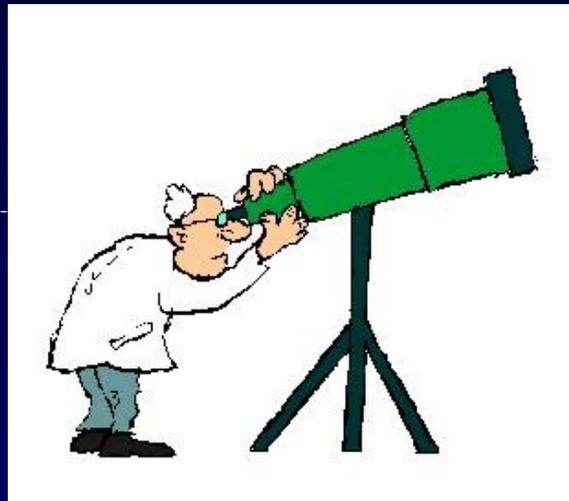


# What's Up!

For June 2018



**BROOKLANDS**RADIO

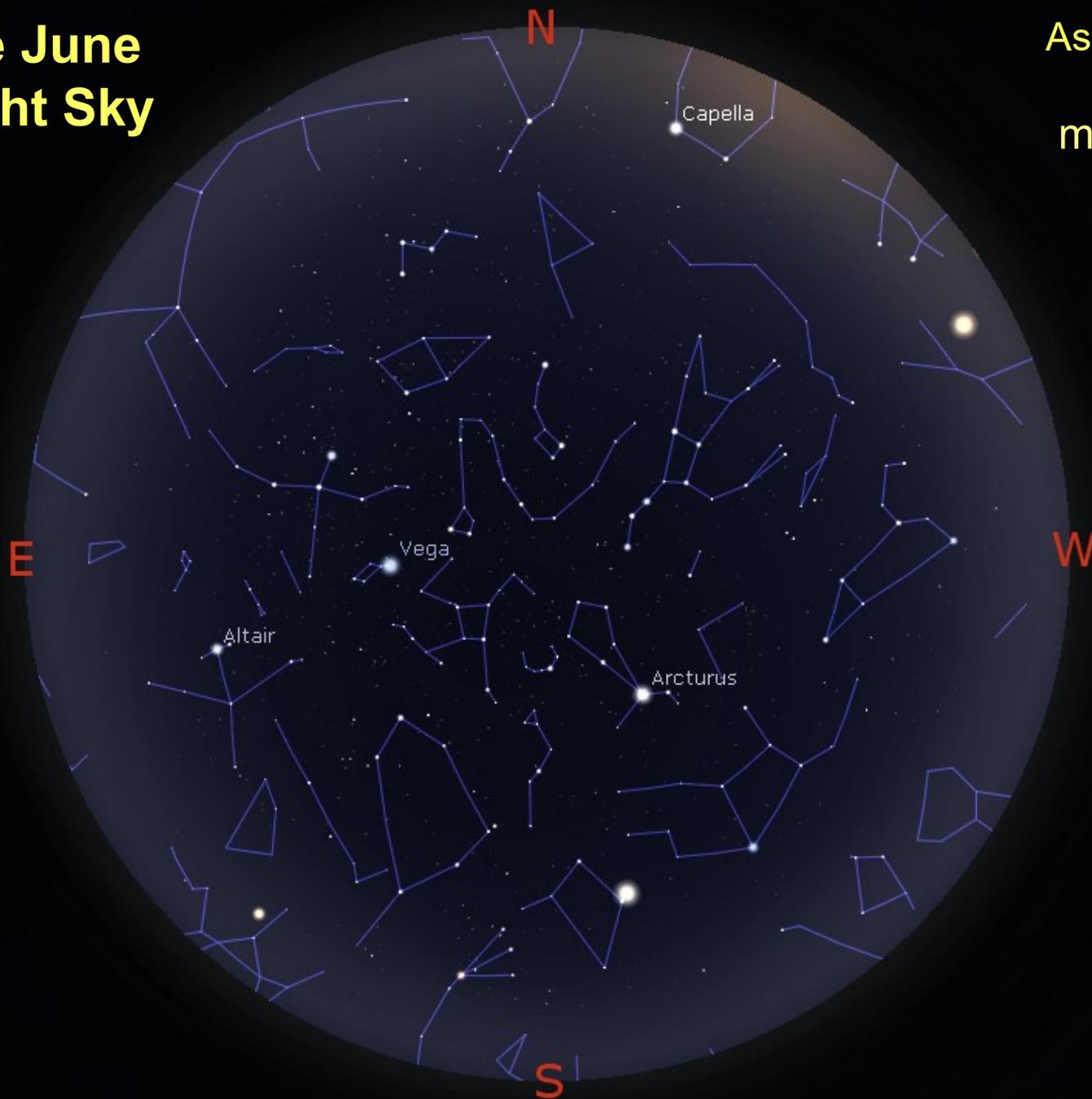
ONLINE

The Sound of Surrey

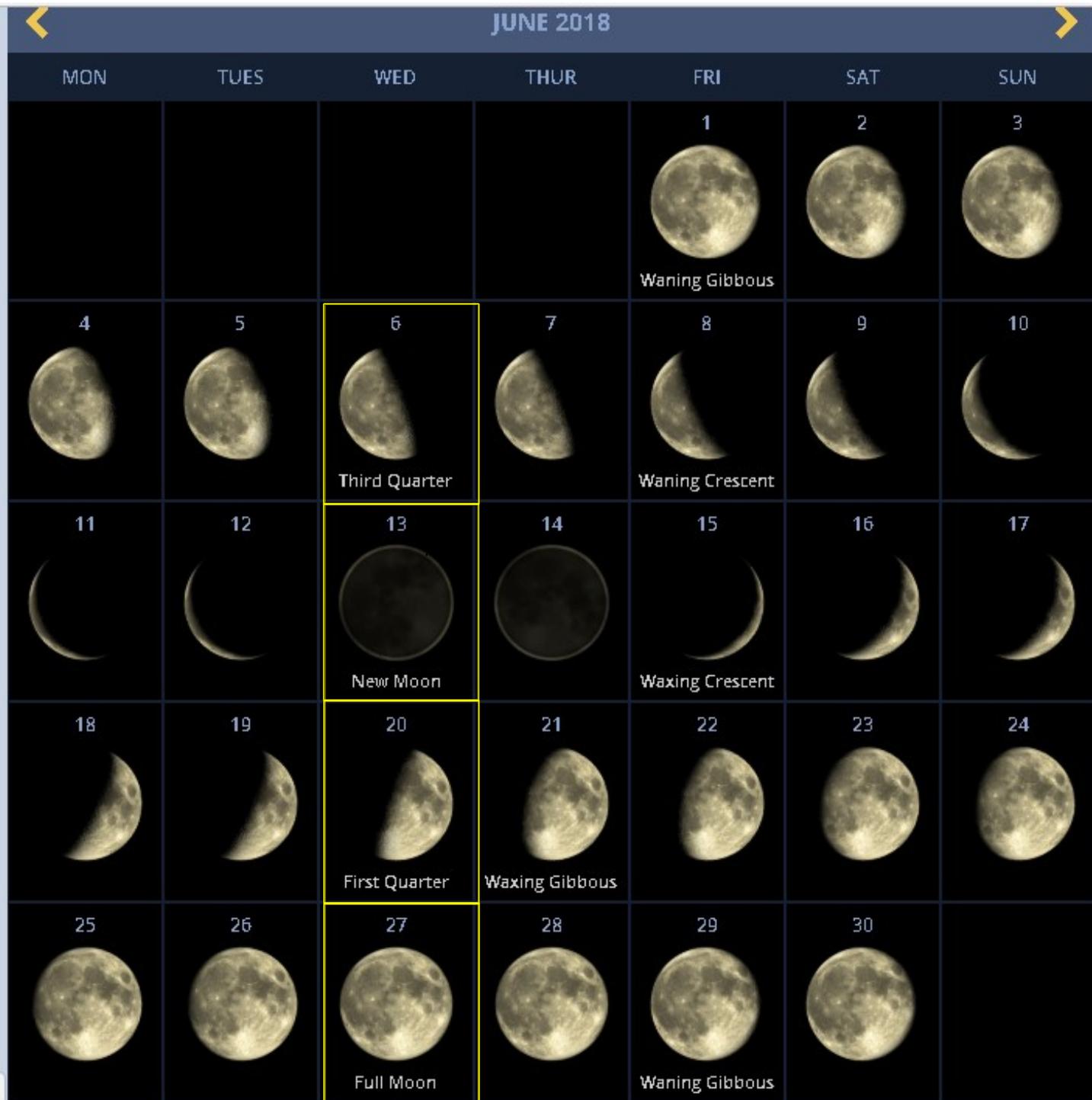


# The June Night Sky

As at 10 p.m.  
BST  
mid-month



# The Moon in June



# What's Up - June's Planets

- **Mercury**

- A good but low evening apparition this month, from about the 12<sup>th</sup> when it will be Mag -1.4, close to the NW horizon setting about 1 hour after sunset. Fades by end of the month but sets 1½ hrs after sunset.

- **Venus**

- Still brilliant at Mag -3.9 as an evening object, in West-northwest, setting 3½ hours after sunset

- **Mars**

- A morning object, brightening from Mag -1.3 to -2.2 as month draws on, but low in South, visible in the early hours

# What's Up - June's Planets

- Jupiter

- Easily visible throughout the month at Mag -2.3 in South, late evening to early hours.

- Saturn

- Best seen around midnight low in Southern sky at Mag +0.0, rings nicely open when viewed through telescope.

- Uranus

- Not easily visible this month

- Neptune

- Not easily visible this month

# Events of Interest in June

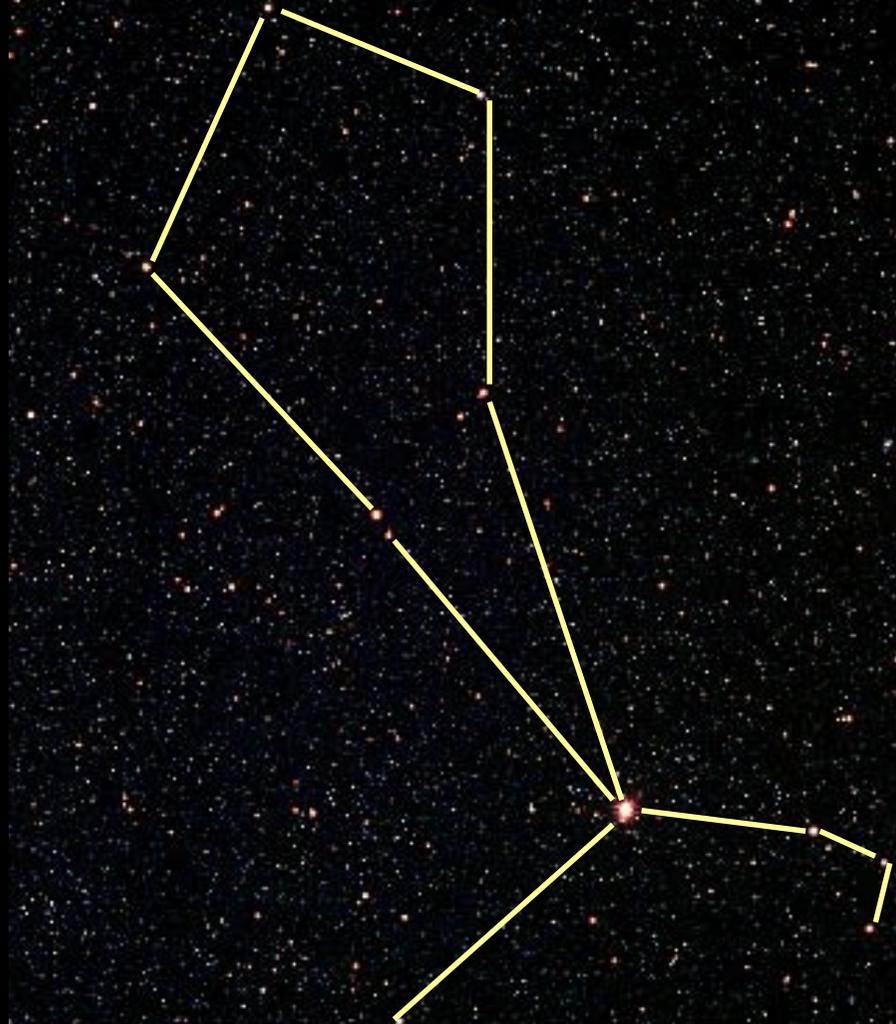
- **1<sup>st</sup>** Moon just  $1^\circ$  above Saturn at midnight 
- **3<sup>rd</sup> & 5<sup>th</sup>** Waning gibbous Moon close to Mars, before dawn
- **16<sup>th</sup>** Venus just  $6^\circ$  from thin crescent Moon
- **21<sup>st</sup>** Summer Solstice
- **28<sup>th</sup>** Saturn will just over  $1^\circ$  from the full Moon in the early hours 
- **All month** - look for Noctilucent Clouds about 90 mins to 2 hours after sunset, above NW horizon.

# June's Suggested Constellation



*Have you  
identified  
it yet?*

# June's Suggested Constellation



That's right -  
Boötes

# Boötes - Folklore

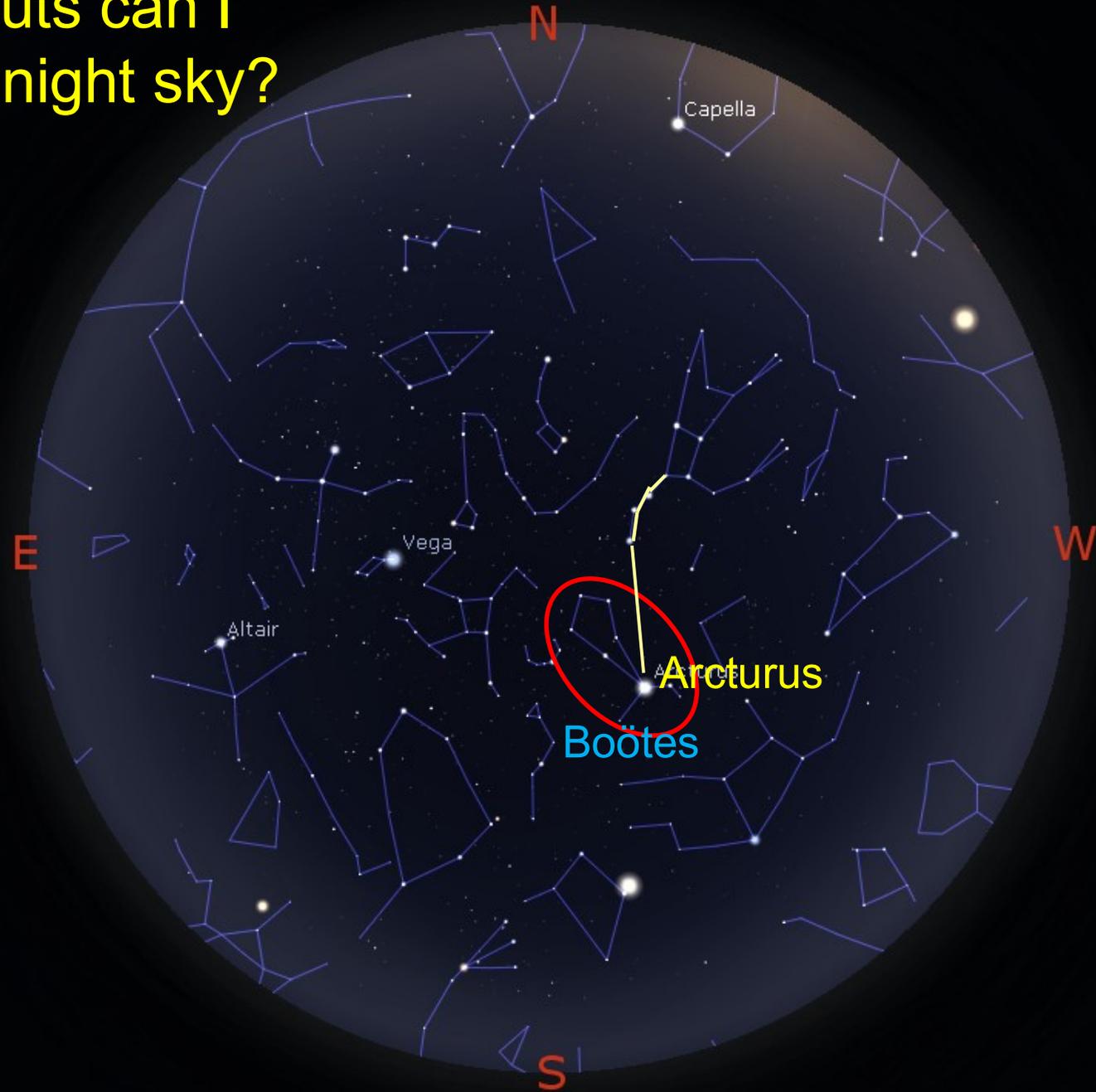


Known by the Babylonians and mentioned by Homer in *The Odyssey*; Boötes - the Herdsman, together with his two hunting dogs (Canes Venatici), shepherds the two bears around the Pole Star.

# Boötes

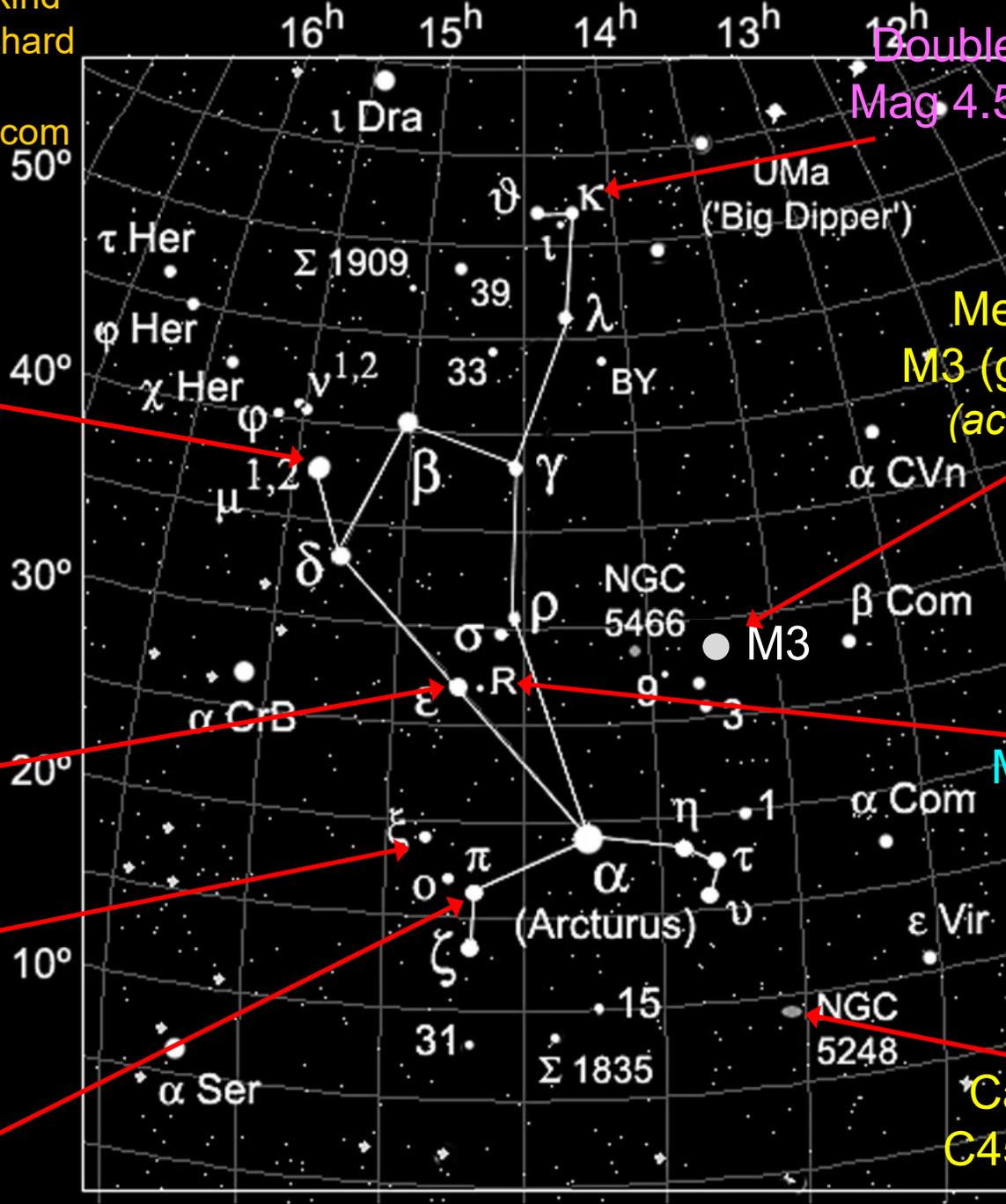
- Boötes is one of the largest constellations but is perhaps not one of the best known, nor easiest to find.
- Best way to locate it is to make your way to bright orange/red Arcturus (the brightest star in Boötes) by following a curving line down from the tail of the Plough.
- Boötes doesn't contain any Messier objects, however one of the northern hemisphere's best known globular clusters, M3, is close by, easily found half-way between Arcturus and Cor Caroli, the main star in Canes Venatici.
- One of Patrick Moore's Caldwell Objects lives here
  - C45, a spiral galaxy
- The constellation is home to several really attractive double stars.

Whereabouts can I find it in the night sky?



Reproduced by kind permission of Richard Dibon-Smith  
www.dibonsmith.com

# Boötes



Double Star  
Mag 4.5 & 6.6

Messier Object:  
M3 (globular cluster)  
(actually in *Canes Venatici*)

Variable Star  
Mag 6.2 → 13.1

Caldwell Object:  
C45 (spiral galaxy)

Triple Star  
Mag 4.3, 7.0  
& 7.6

Double Star  
Mag 2.5 & 4.9

Double Star  
Mag 4.7 & 7.0

Double Star  
Mag 4.9 & 5.8

**C45 (NGC 5248)**

**Spiral Galaxy**



**Distance 74M light years**  
**Visual Brightness Magnitude 10.2**

**Apparent Dimensions 6 arc minutes**  
**Discovered 1784 William Herschel**

**M3 (NGC 5272)**

**Globular Cluster**



**Distance** 33,900 light years  
**Visual Brightness** Magnitude 6.2

**Apparent Dimensions** 19 arc minutes  
**Discovered** 1764 Charles Messier

# Meetings at Local Societies

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

– Thursday 7<sup>th</sup> June, 7.30 p.m.

## » **Astrobiology; The Cradle of Life**

### » **Prof Nigel Mason OBE**

- » School of Physical Science
- » Open University
- » *“How did life begin on Earth? Is there life elsewhere in the universe? How can we look for it?”*
- » *These are three fundamental questions for modern science. In this talk I will discuss how we are trying to answer them”.*

# Meetings at Local Societies

- **Farnham AS Aldershot Cricket Club**
  - Tuesday 12<sup>th</sup> June, 7.45 p.m.
- **Gaia – Measuring a Billion Stars**
  - **Dr. George Seabroke**
    - » Mullard Space Science Laboratory – UCL

# Talks at Local Astro Societies

- **Croydon AS** *Royal Russell School, Coombe Lane, Croydon*
  - Friday 8<sup>th</sup> June, 7.45 p.m.
    - **TBA**
  - Friday 22<sup>nd</sup> June 7.45 p.m.
    - **Space and Spirituality**
      - **Bernard Winchester**

# Talks at Local Astro Societies

- **Ewell AS** *Nonsuch High School for Girls, Cheam*
  - Friday 8<sup>th</sup> June, 7.45 p.m.
    - **Gaia - An Initial Look at 1.7 Billion Stars in Our Galaxy and Beyond**
      - John Murrell, Croydon Astro Soc

# Astronomy on TV

## The Sky at Night

### *Jupiter, God of Thunder*

Jupiter's Juno Spacecraft is currently in orbit around Jupiter, collecting data and revealing the secrets of the stormy gas giant. A month ahead of the probe's planned deorbit into Jupiter's atmosphere, the team looks back on what what the Juno mission has revealed so far, and what discoveries might be yet to come.

Sunday      10<sup>th</sup> June      BBC 4, 10.00 pm

Thursday      14<sup>th</sup> June      BBC 4, 7.30 pm

*(please check [www.radiotimes.com](http://www.radiotimes.com) [www.bbc.co.uk/skyatnight](http://www.bbc.co.uk/skyatnight))*



*"That's all Folks!"*