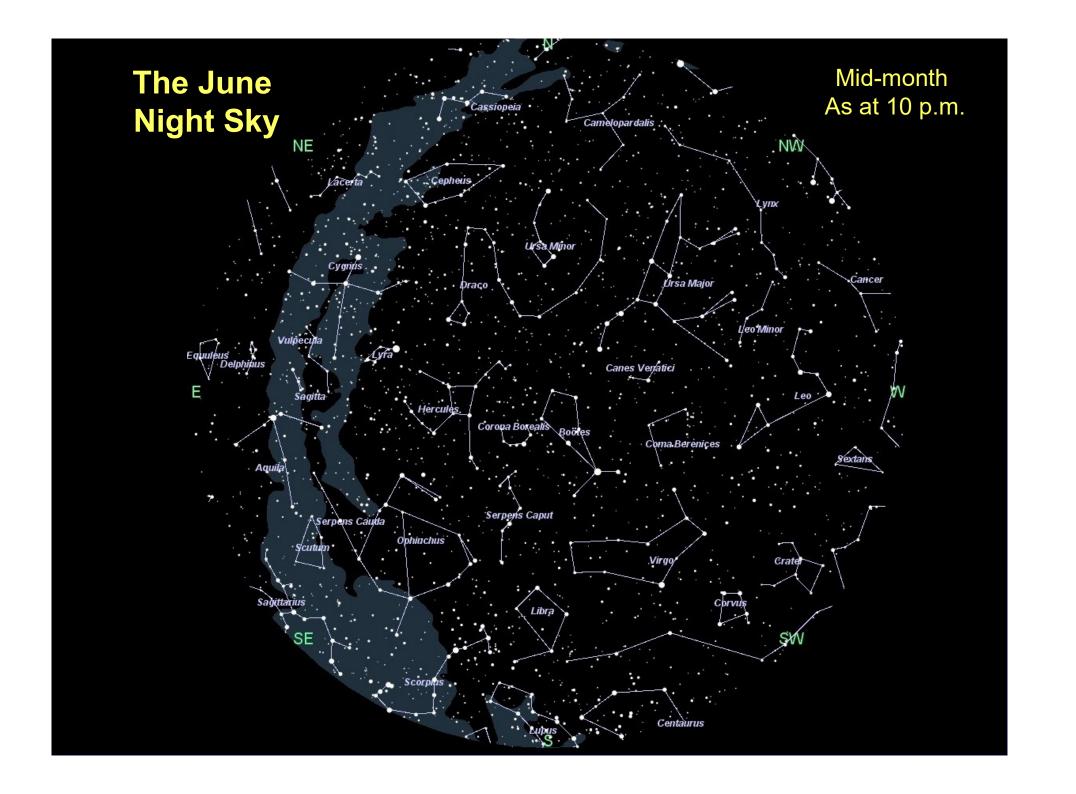
What's Up!

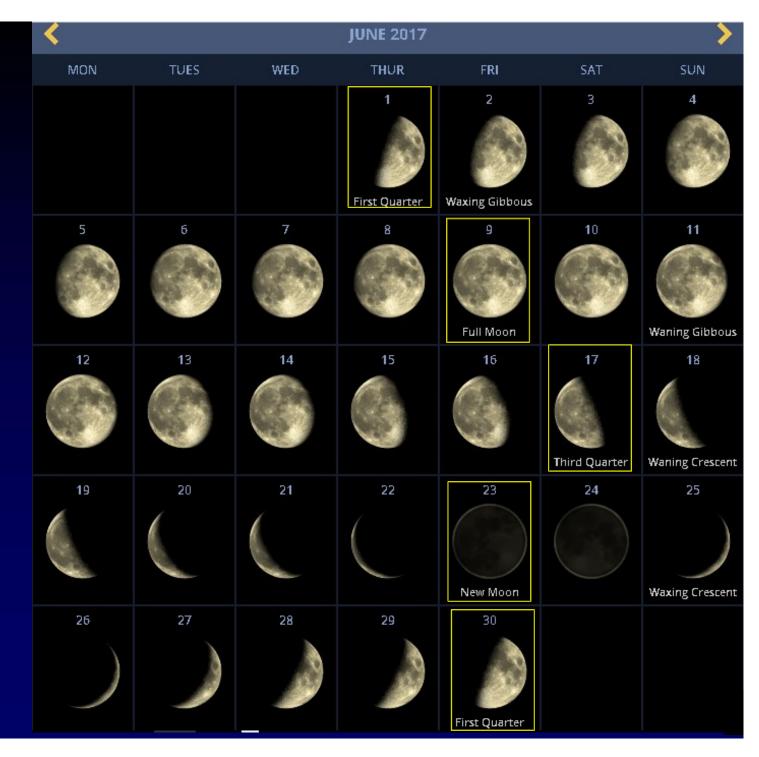
For June 2017







The Moon in June



What's Up - Planets



Mercury

 a dawn object at start of the month but an evening object by the end. For 1st half of month look in the East-North East, but you need a good flat unobstructed horizon. * Towards end of month it'll be very low in North West, 20-30 minutes after sunset, at Mag -1.0.

Venus

A brilliant morning object at Mag -4.3 low in the East,
visible from 4 a.m. till sunrise. Approximately 50% phase when seen through good binos or a telescope.

Mars

Not visible this month

What's Up - Planets



Jupiter

 Visible all evening. Dimming to Mag -2.0 by end of month it still dominates the night sky. Easily visible as a disc in good binoculars and small telescopes.

Saturn

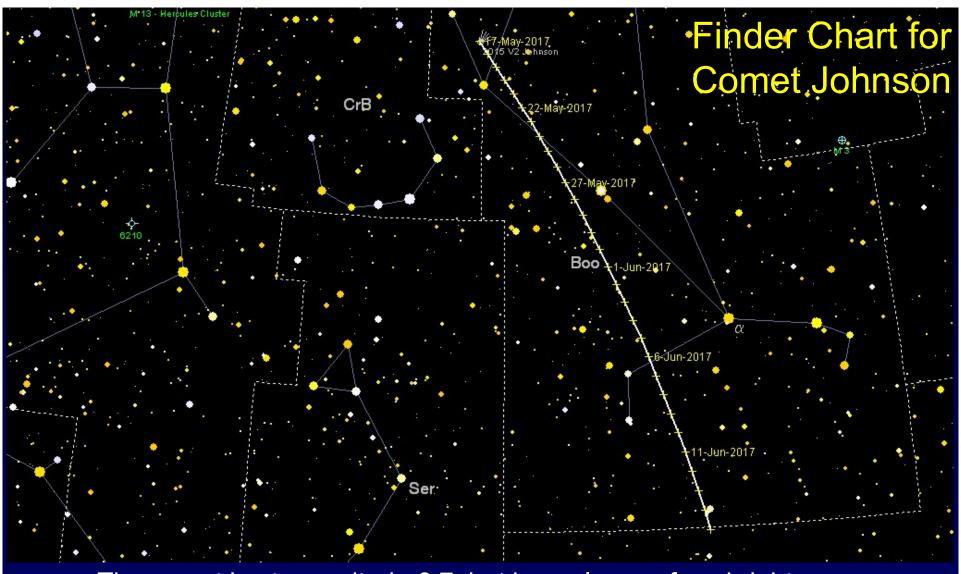
- A late evening mag. 0.0 object now in Ophiucus in South West. At opposition on 15th, i.e due South at 01.00hrs BST. The rings noticeably brighten a few days either side of this date - a phenomenon known as 'Seeliger effect'. Relatively low at 15°, it's highest above horizon.
- Uranus Not visible this month

Neptune

 At Mag +7.9 in Aquarius, not visible to naked eye, but can be found in telescopes low in ESE in the early hours.

Events of Interest in June

- -*-
- 3rd/4th Jupiter just over a degree south of the Moon, closest in the early hours of 4th +
- 5th Jupiter's moons Europa & Io transit & cast their shadows onto the disc, from 7.30 pm to 01.15
- 6th Comet C/2015 V2 Johnson is 5° from Arcturus in the early hours. Comet should be Mag +6.7
- 9th Saturn easy to find, about 2° south of full Moon.
- 21st Venus & Moon make a nice bright pair, just 4° apart, about an hour before sunrise
- 27th Max of Boötid Meteor Shower, but few expected
- 28th Mercury & Mars <1° apart, low in South West, 20 mins after sunset
- 30th Jupiter only 6° from 1st quarter Moon



- The comet is at magnitude 6.7, but has a low surface brightness, which means it'll not be that easy to find. Better with a small telescope than binoculars, but still possible with the latter.
- Visible as a small greenish fuzzy blob.

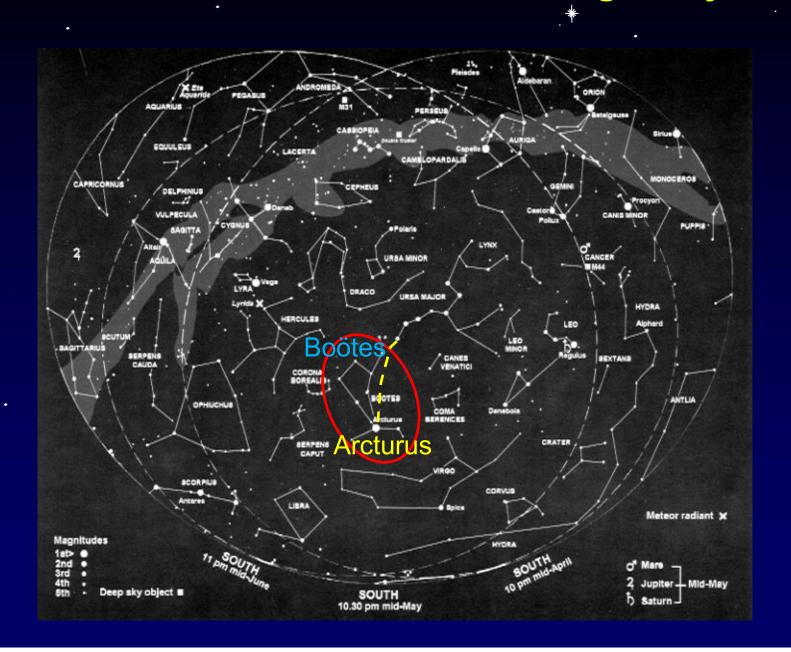


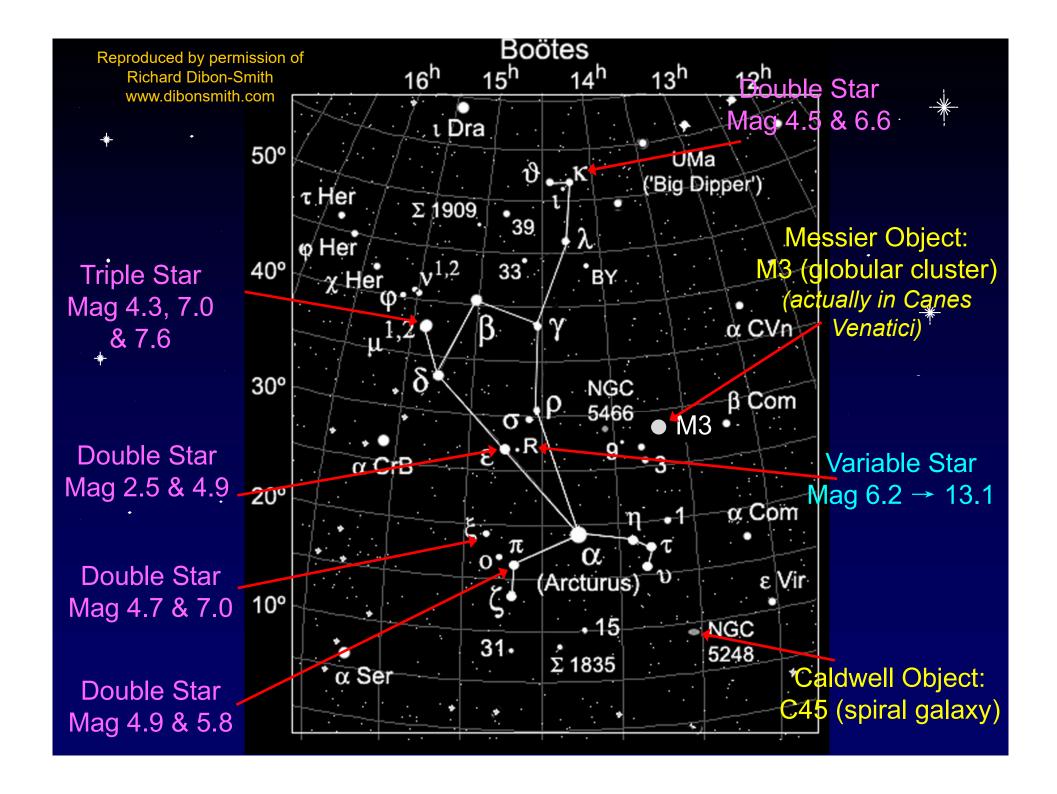
Boötes

- 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?







M3 (NGC 5272)

Globular Cluster



Distance 33,900 light years Visual Brightness Magnitude 6.2 **Apparent Dimensions 19 arc minutes Discovered 1764 Charles Messier**

C45 (NGC 5248)

Spiral Galaxy



Distance 74M light years Visual Brightness Magnitude 10.2 **Apparent Dimensions 6 arc minutes Discovered 1784 William Herschel**

Meetings at Local Societies



- Guildford AS Griffiths Lecture Theatre, Uni of Surrey
 - Thursday 1st June, 7.30 p.m.
 - "Planets and Pulsations: The New Keplerian Revolution"
 - Professor Donald W Kurtz
 - » Uni of Central Lancashire
- Farnham AS Aldershot Cricket Club
 - Tuesday 13th June, 7.45 p.m.
 - "New Horizons and the exploration of Pluto"
 - Kevin Pretorius
 - » Farnham AS

Talks at Local Astro Societies

- Croydon AS Royal Russell School, Coombe Lane, Croydon
 - Friday 9th June, 7.45 p.m.
 - "In The Beginning"
 - Konrad Malin-Smith, Croydon AS
 - Friday 23rd June, 7.45 p.m. -
 - "Introduction to the Antikythera Mechanism"
 - Pauline Gorman, Croydon AS
- Ewell AS Nonsuch High School for Girls, Cheam
 - Friday 9th June, 8.00 p.m.
 - "Sun, Sea and Smoke"
 - Graham Bryant, Hampshire AG

Astronomy on T_{*}V



The Sky at Night

Inside God's Observatory

 This episode comes from the heart of an organisation that has had a massive impact on astronomy: the Vatican Observatory. It covers the role of the Vatican in modern astrophysics, researching the first moments of the Universe and joining the search for extraterrestrial life.

Sunday 11th June BBC 4, 10.00 pm

Thursday 15th June BBC 4, 7.30 pm

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

June's Shoutout for Schools

- June's Shoutout for Schools
- www.spacelink.org
- free webinar events for Key Stages 3-5
 - 5th June: "Tales from Cometary Tails"
 - Oliver Price (UCL, Mullard Space Science Laboratory)
 - 22nd June: "Getting to Know Our Explosive Sun"
 - Professor Lucie Green (UCL, Mullard Space Science Lab)
 - 29th June: "How to Build your Own Lightsaber"
 - Dr Martin Archer (Queen Mary University)
- Get Space IV (free STEM event, suitable for Years 5-9)
 - July 4th 10 am to 3 pm at Broadwater School, Guildford
 - Space-themed Talks and Activities
 - includes Britains 1st Astronaut Helen Sharman