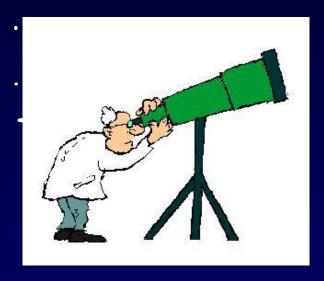
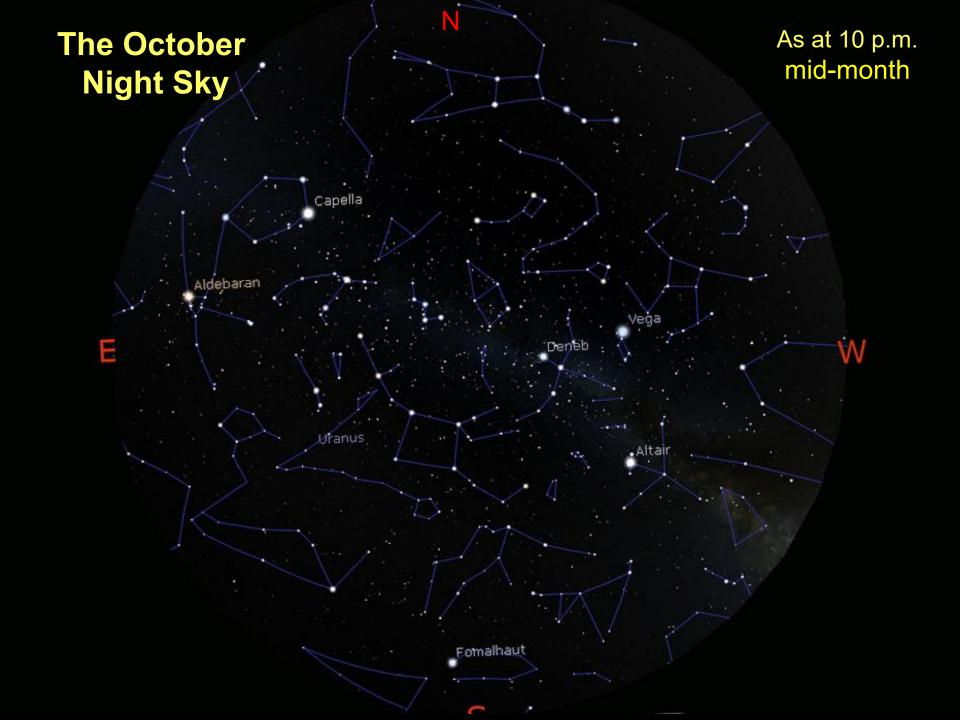
What's Up!

For October 2017







	MON	TUES	WED	THUR	FRI	SAT	SUN
The Moon in Octobe							1 Waxing Gibbous
	2	3	4	5	6	7	8
	12	September 1	All Property	Full Moon		Waning Gibbous	100
*	9	10	11	12	13	14	15
•				Third Quarter	Waning Crescent		
	16	17	18	19 New Moon	20	21 Waxing Crescent	22
•	23	24	25	26	27	28	29
•					First Quarter		Waxing Gibbous

What's Up - Planets



Mercury

emerges into evening sky late in the month, but poorly placed.

* Venus

 Still a brilliant morning object at Mag -3.8 low in the East, but fading as month wears on

Mars

Improving as a morning object

What's Up - Planets



Not visible this month

Saturn

Still on show as an early evening object, low in South Western sky.

Uranus

- Visible all night at Mag +5.8 in Pisces

Neptune

Telescopic object at Mag +7.8 in Aquarius, best around midnight

Events of Interest in October

- *
- 5th Venus, Mars and Sigma leonis form tight triangle
- 7th Venus and Mars less than half degree apart
- 14th Waning crescent Moon will be 5° from M44 Beehive Cluster, low in North East, best at 2 a.m.
- *• 18th Brilliant Venus will be just 3° from thin (2%) crescent Moon.
 - 21st Peak of Orionids Meteor Shower:
 - dust particles left over from Comet Halley
 - fast meteors, some with persistent train
 - theoretical (ZHR) 25, reality maybe 10 per hour
 - favourable Moon
 - best in early hours, but can look East on evenings of 20th/21st/22nd
 - 24th Saturn just 3.5° from waxing crescent Moon

October's Suggested Constellation - but which?

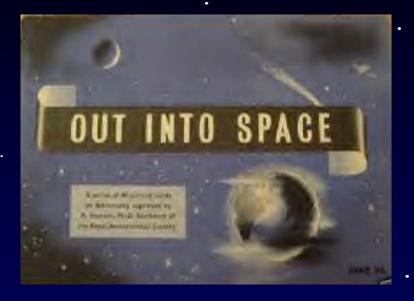


October's Suggested Constellation - but which?





October's Suggested Constellation





BASSIOPEIA

A SERIES OF 50 No. 44

OUT INTO SPACE

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

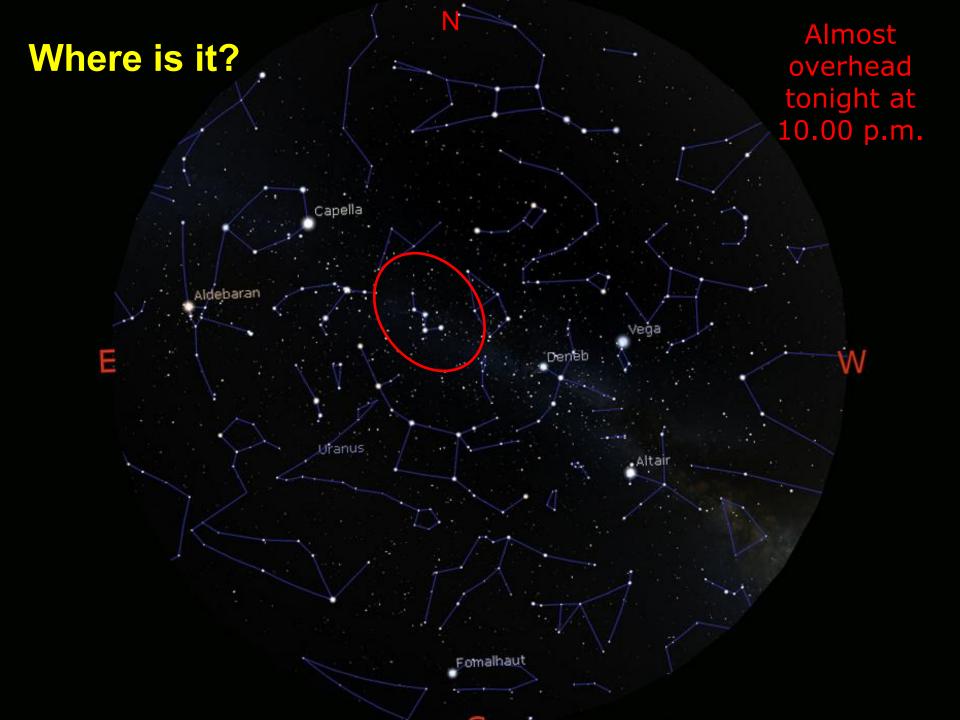
CASSIOPEIA

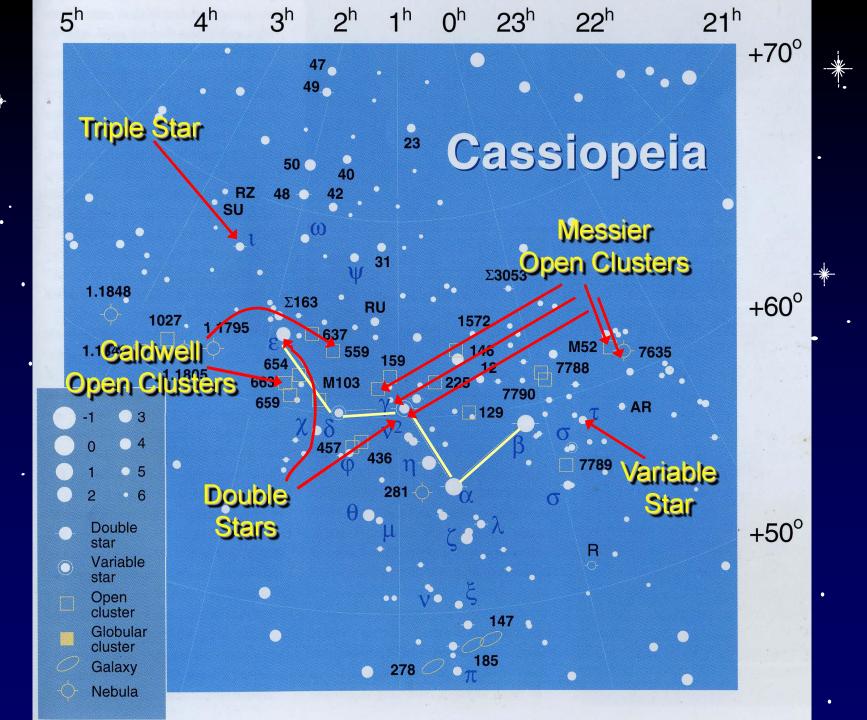
Cassiopeia is on the opposite side of the Pole Star from The Plough. It consists notably of a group of five very bright stars forming a W. Two of these, Ruchbah and Caph, are navigation stars. This constellation contains about 60 stars visible without the aid of a telescope. It is named after Cassiopeia, wife of Cepheus, King of Ethiopia, and mother of Andromeda who was saved from a sea monster by Perseus (Greek Mythology).

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Messier Objects in Cassiopeia



M52

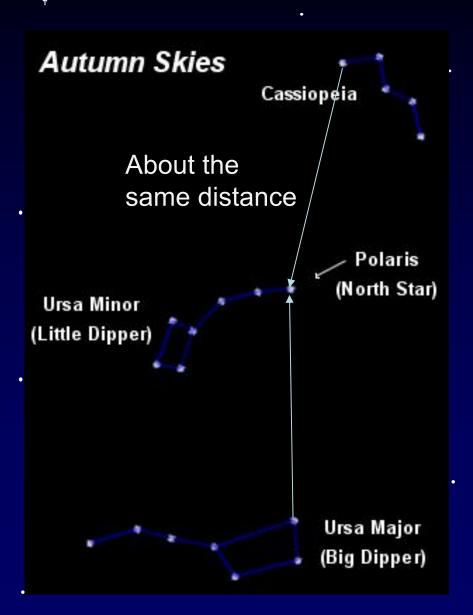
Distance 5000 light years
Visual Brightness Magnitude 7.3
Apparent Dimension 13.0 arc
minutes
Discovered 1774 by Charles
Messier

M103

Distance 8500 light years
Visual Brightness Magnitude 7.4
Apparent Dimension 6.0 arc
minutes
Discovered 1781 by Pierre
Méchain

Using Cassiopeia





Finding North

- Cassiopeia is
 circumpolar, so will
 always be above the
 horizon
- If Ursa Major & Minor are obscured by clouds then you can make a rough judgement using Cassiopeia

Using Cassiopeia





- You can find your way
 to the Andromeda
 Galaxy (M31) using*
 Cassiopeia
- And also to the Double
 Cluster in Perseus

Meetings at Local Societies

- Guildford AS Griffiths Lecture Theatre, Uni of Strrey
 - Thursday 5th October, 7.30 p.m.
 - · From Quark to Cosmos
 - » Prof Ian Shipsey, Oxford Uni
 - Sputnik in Context (abridged)
 - » John Axtell

Meetings at Local Societies

- Farnham AS Aldershot Cricket Club
 - Tuesday 10th October, 7.45 p.m.
 - Newtonian Cosmology
 - Dr David Lewis
 - » Farnham AS

Talks at Local Astro Societies

- Croydon AS Royal Russell School, Coombe Lane, Croydon
 - Friday 13th October, 7.45 p.m.
 - "High Resolution Astro Imaging"
 - · Damien Peach
 - Friday 27th October, 7.45 p.m. -
 - "Space Dogs"
 - Caroline Bevis, Croydon AS
- Ewell AS Nonsuch High School for Girls, Cheam
 - Friday 13th October, 8.00 p.m.
 - "Journey to the Centre of the Earth"
 - Dr. David Whitehouse

Other Talks/Events in the Area

- University of Surrey, Department of Physics Austin Pearce 3, Uni of Surrey, Guildford
 - Friday 4th October, 6.30 8.00 p.m.
 - "Sci-Fi Public Talk"
 - . Dr. Annika Lohstroh, Prof Ben Murdin
 - Tuesday 31st October, 5.30 9.00 p.m.
 - "Seeing the Unseen" (Dark Matter Day)
 - Talks, Stalls, Mobile Planetarium & Stargazing

Astronomy on TV

The Sky at Night

– Something Is Wrong With The Moon!

 The team explores some of the latest discoveries about our lunar neighbour that are helping us learn more about its origins and history. Plus they meet a research team that may have made a unique discovery - a Mmoon orbiting an exoplanet

Sunday 8th October BBC 4, 10.00 pm

Thursday 13th October BBC 4, 7.30 pm

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