

# **The Atlanta Astronomy Club**

## **Charlie Elliot Chapter**

### **Observing 101**

# Observing 101 – Sept 2010

- Astro Events
- Featured Objects
- Target List

# Astro Events

Tonight:

- Sunset at 7:47 PM
- Moonset at 9:42 PM

# Astro Events

## Tonight:

- Mercury sets at 7:03 PM
- Saturn sets at 8:37 PM
- Venus sets at 9:24 PM
- Mars sets at 9:29 PM

# Astro Events

## Tonight:

- Neptune Rises at 6:41 PM
- Uranus Rises at 8:09 PM
- Jupiter Rises at 8:14 PM
- Great Red Spot Transit 10:14 PM
- Jupiter Transit at 2:18 AM

# Astro Events

## This month's events ...

- Sept 6-21 Zodiacal Light visible before sunrise
- Sept 11 - Venus  $6^{\circ}$  right of Moon
- Sept 13 – Antares  $4^{\circ}$  left of crescent Moon
- Sept 19 – Mercury at Greatest Western Elong
- Sept 21 – Jupiter at Opposition (49.9" across)
- Sept 21 - Uranus at Opposition (3.7" across)
- Sept 21 – Asteroid Hebe at Opposition
- Sept 23 – Full Moon
- Sept 24 - 4 Galilean moons East of Jupiter

# Astro Events

## Next month's events ...

- Sept 24 – Oct 31: Comet 103P/Hartley
- October 1 : Venus, Spica, Mars within  $5^\circ$
- October 2 : Next CE meeting

# Dusk, Sept 10 and 11

*30 minutes after sunset*

Moon  
Sept 11



Mars



Venus

Spica



Moon  
Sept 10

Saturn



**Looking West-Southwest**



PEGASUS

AQUARIUS

PISCES

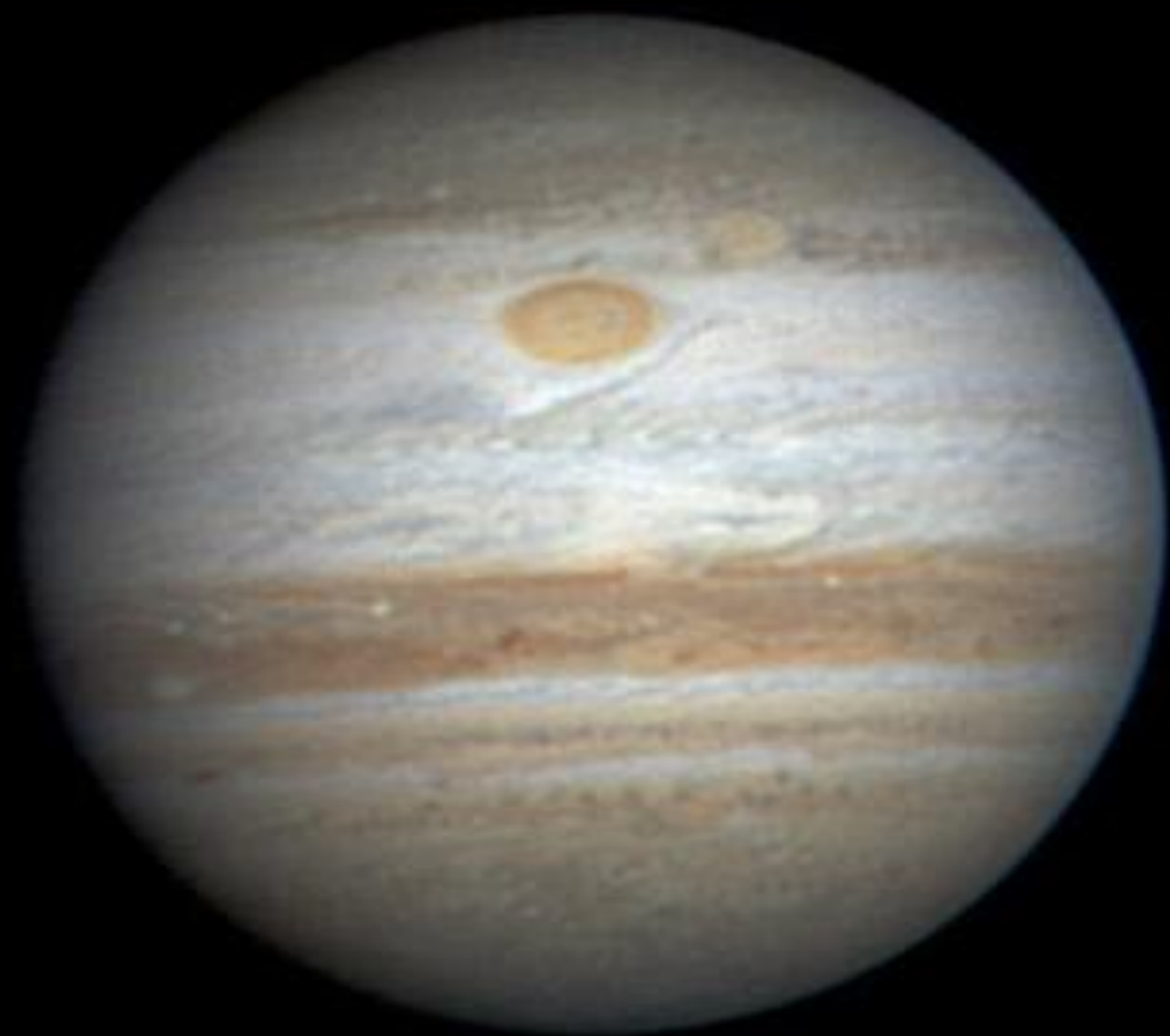
Jupiter

Fomalhaut

10°

Mid-September, 9 P.M.  
Looking east





# Jupiter on September 24, 3:30 A.M. EDT

S

Jupiter



W

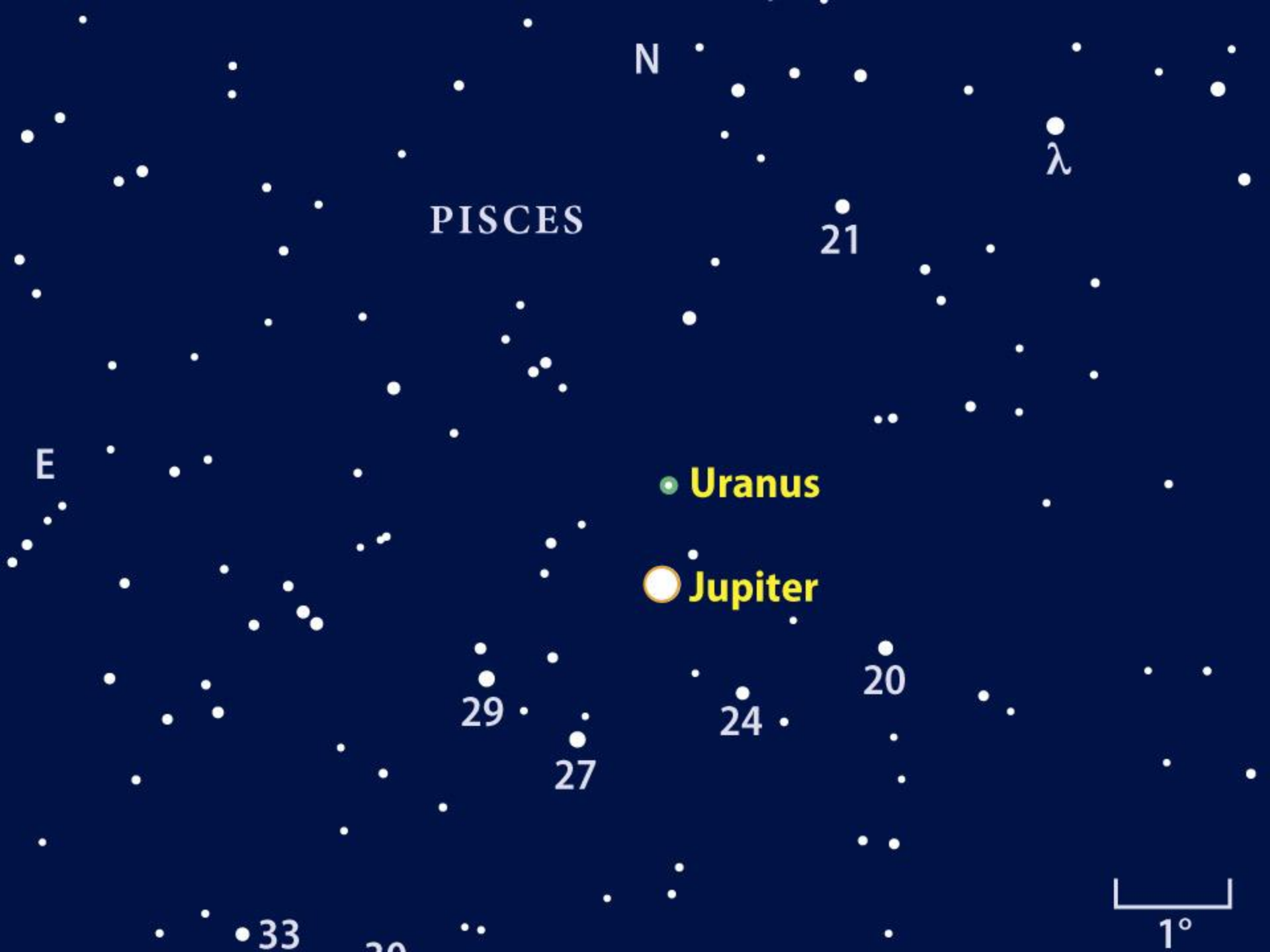
Io •

• Europa

Callisto •

Ganymede •





PISCES

N

λ

21

E

Uranus

Jupiter

29

24

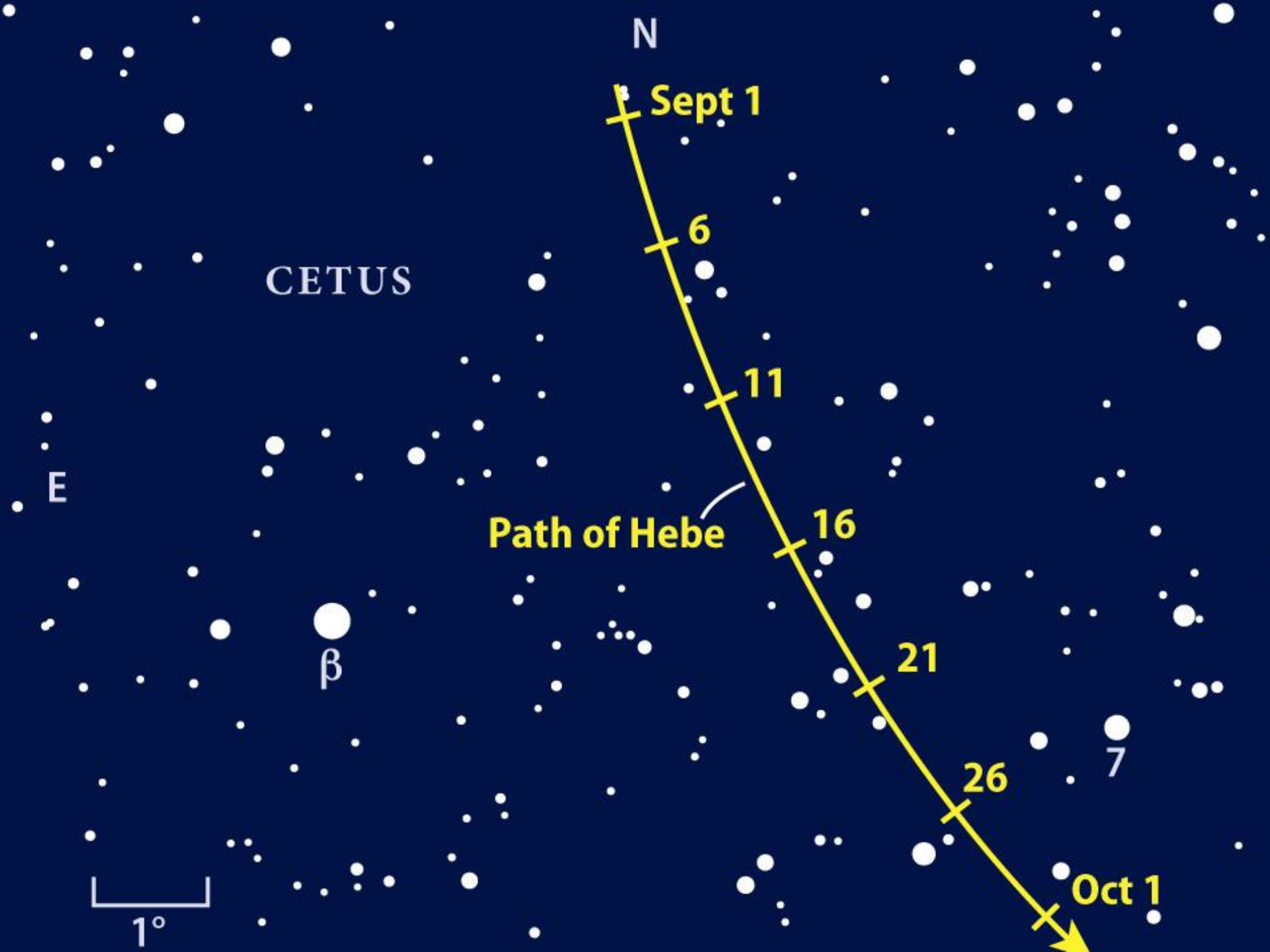
20

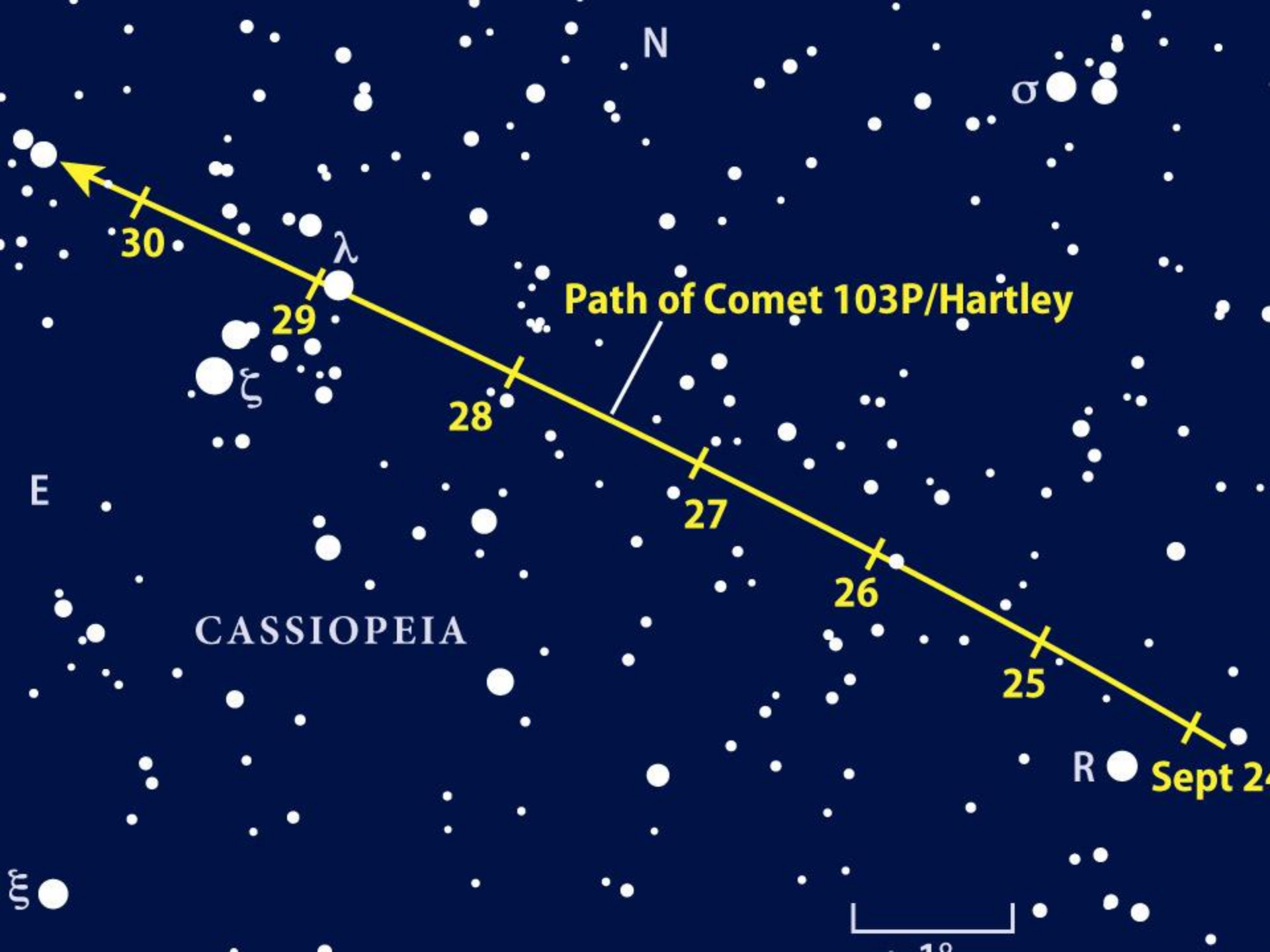
27

33

30

1°







# Target List

## Small Telescopes & Binoculars

Object	Type	Mag	Size	Constellation
M31	Galaxy	4.3	189'	Andromeda
M13	Globular Cluster	7.0	16'	Hercules
M15	Globular Cluster	7.5	12'	Pegasus
M22	Globular Cluster	6.5	24'	Sagittarius
M55	Globular Cluster	7.0	19'	Sagittarius
M11	Open Cluster	7.0	14'	Scutum
M25	Open Cluster	6.5	40'	Sagittarius
M27	Planetary Nebula	7.5	15'	Vulpecula
M57	Planetary Nebula	9.5	2'	Lyra
SAC Red 77	Carbon Star	4.2	N/A	Cepheus



# • Mu Cephei

Herschel's Garnet Star

RA 21hr 43.5' Decl +58° 47'



# Target List

## Intermediate / Advanced

Object	Type	Mag	Size	Constellation
NGC 7331	Galaxy	9.5	11'	Pegasus
NGC 185	Galaxy	9.2	11'	Cassiopea
NGC6712	Globular Cluster	8.8	7.2'	Scutum
NGC 6642	Globular Cluster	9.4	4.5'	Sagittarius
NGC 6229	Globular Cluster	9.4	4.5'	Hercules
NGC 7209	Open Cluster	7.7	25'	Lacerta
NGC 7243	Open Cluster	6.4	21'	Lacerta
NGC 7000	Diffuse Nebula	4.0	120'	Cygnus
M76	Planetary Nebula	10.1	4.8'	Perseus
NGC 7662	Planetary Nebula	8.3	0.5'	Andromeda

# Web Links

ASTRONOMY MAGAZINE

[www.astronomy.com](http://www.astronomy.com)

SKY & TELESCOPE MAGAZINE

[WWW.SKYANDTELESCOPE.COM](http://WWW.SKYANDTELESCOPE.COM)

UTAH SKIES

[www.utahskies.org](http://www.utahskies.org)

**Clear Skies!**