

The Atlanta Astronomy Club

Charlie Elliot Chapter

Observing 101

Observing 101 - July

- Astro Events
- Featured Objects
- Target List

Astro Events

Tonight:

- Moon sets at 7:59 PM
- Sunset at 8:47 PM
- Moonrise 6:14 AM the following day

Astro Events

Tonight:

- Venus sets at 11:09 PM
- Mars sets at 11:55 PM
- Saturn sets at 12:33 AM
- Neptune rises at 10:53 PM
- Uranus rises at 12:21 AM
- Jupiter rises at 12:30 AM

Astro Events

This month's events ...

- July 10 – Venus 1.1° N of Regulus
- July 11 - 3:40 PM – New Moon
- July 19/20 – Comet 10P / Tempel
- July 25 - Full Moon
- July 27 – Regulus $\frac{1}{2}^\circ$ NE of Mercury
- July 27 – 4 moons of Saturn within $30''$
- July 28 – Delta Aquarid meteor shower
- July 29-30 – Mars & Saturn within 2°

Astro Events

Next month's events ...

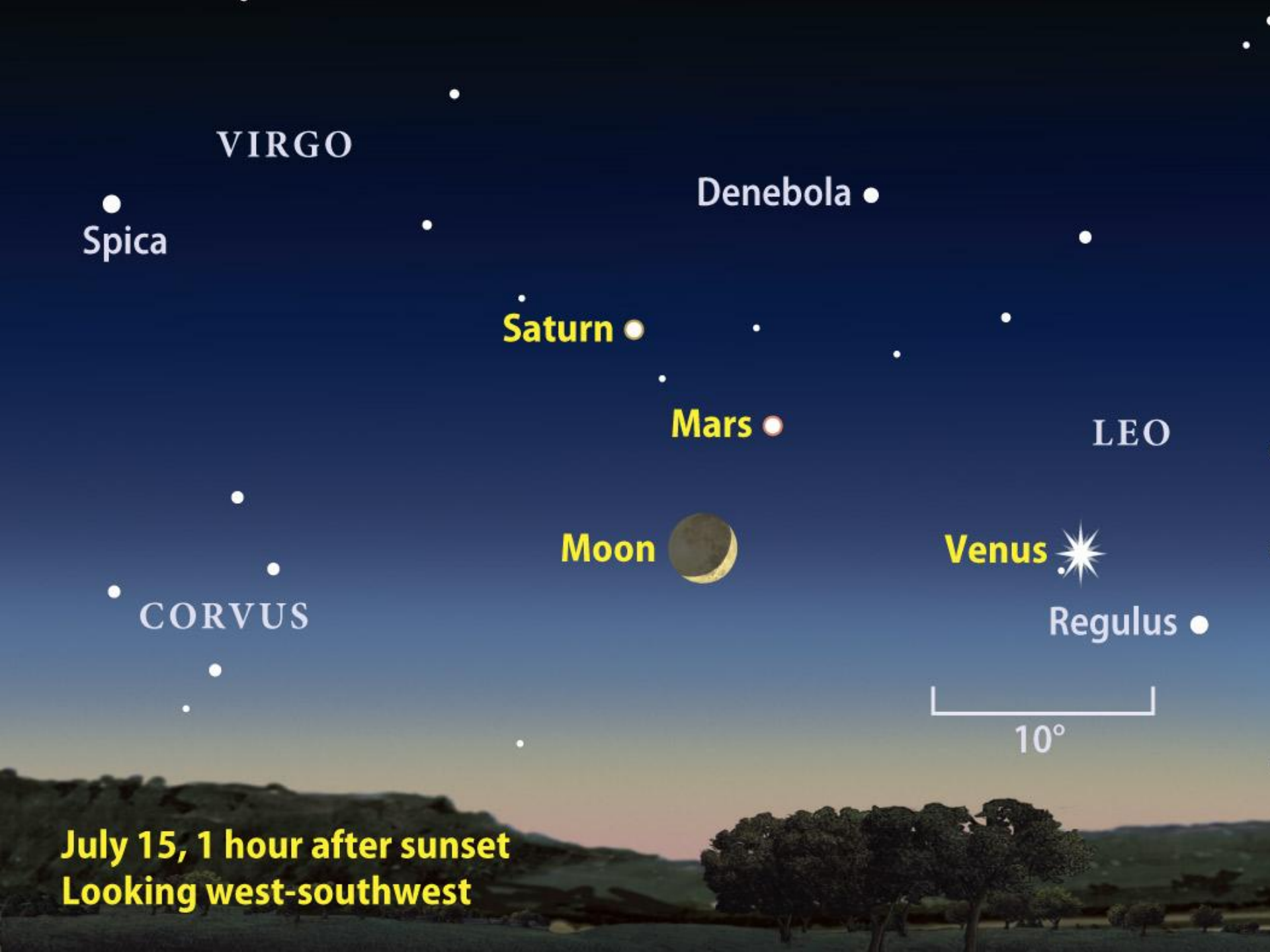
- August 1 – Saturn- Mars- Venus 7° apart
- August 6 – Mercury at greatest eastern elongation
- August 8 – Next CE meeting

Dusk, July 9

1 hour after sunset



Looking West



VIRGO

Spica

Denebola

Saturn

Mars

LEO

Moon

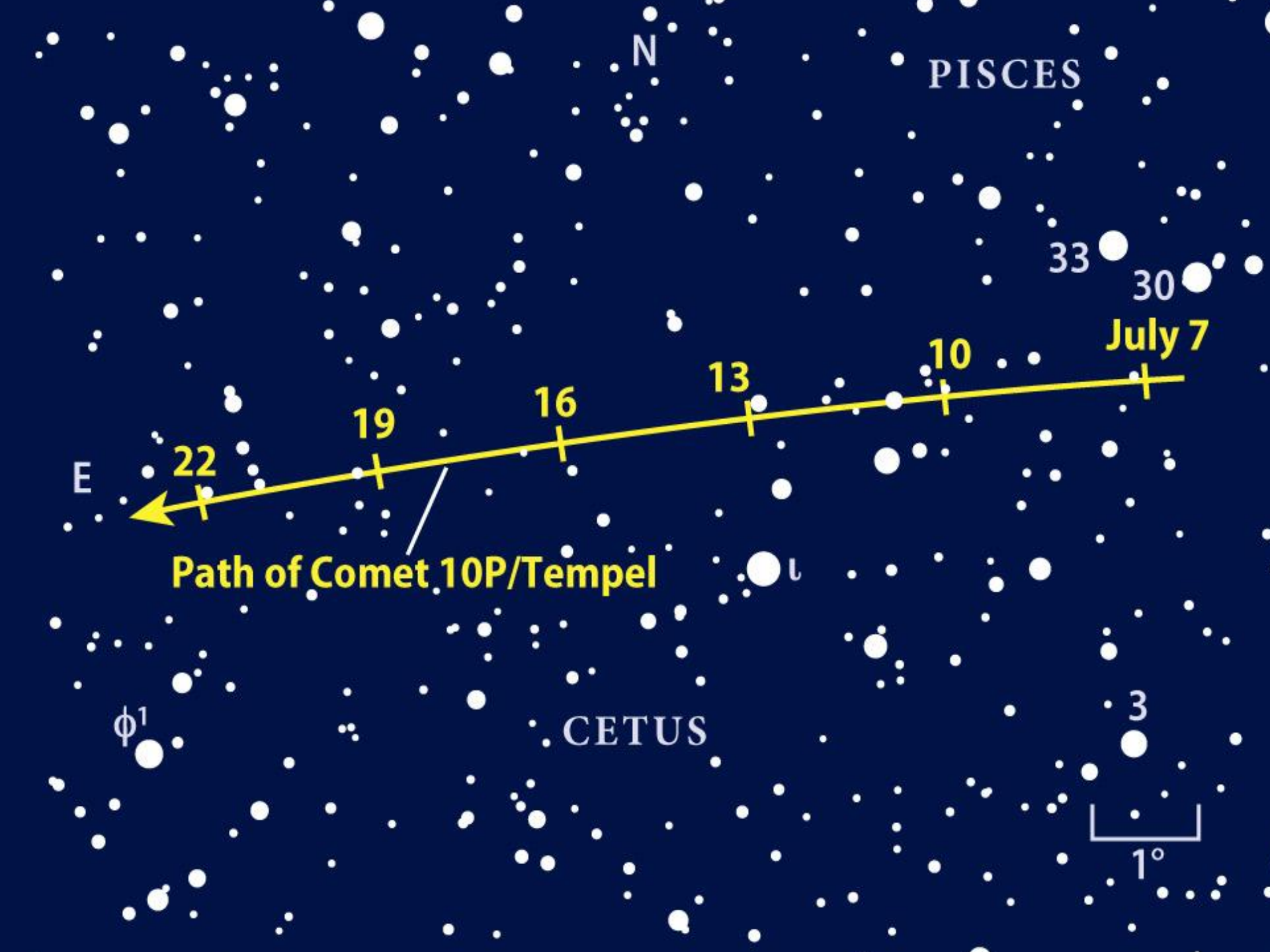
Venus

Regulus

CORVUS

10°

July 15, 1 hour after sunset
Looking west-southwest



PISCES

N

33

30

July 7

10

13

16

19

22

E

Path of Comet 10P/Tempel

ι

CETUS

3

ϕ^1





Saturn on July 27, 10:30 P.M. EDT

S

Saturn

• Rhea

W

Dione

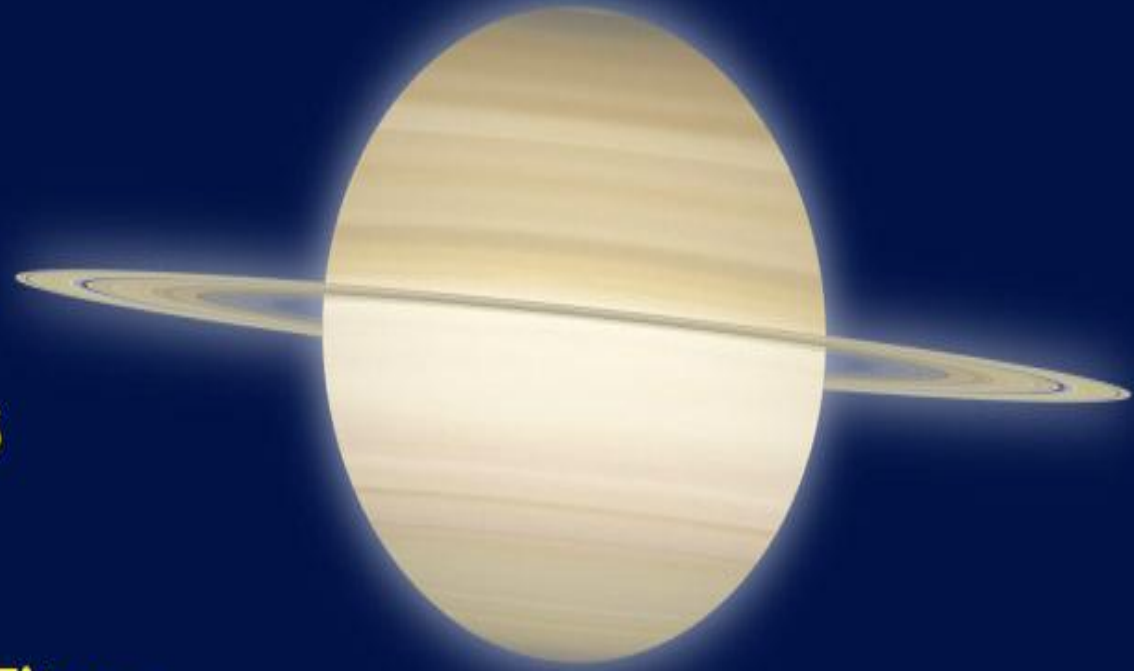
Enceladus

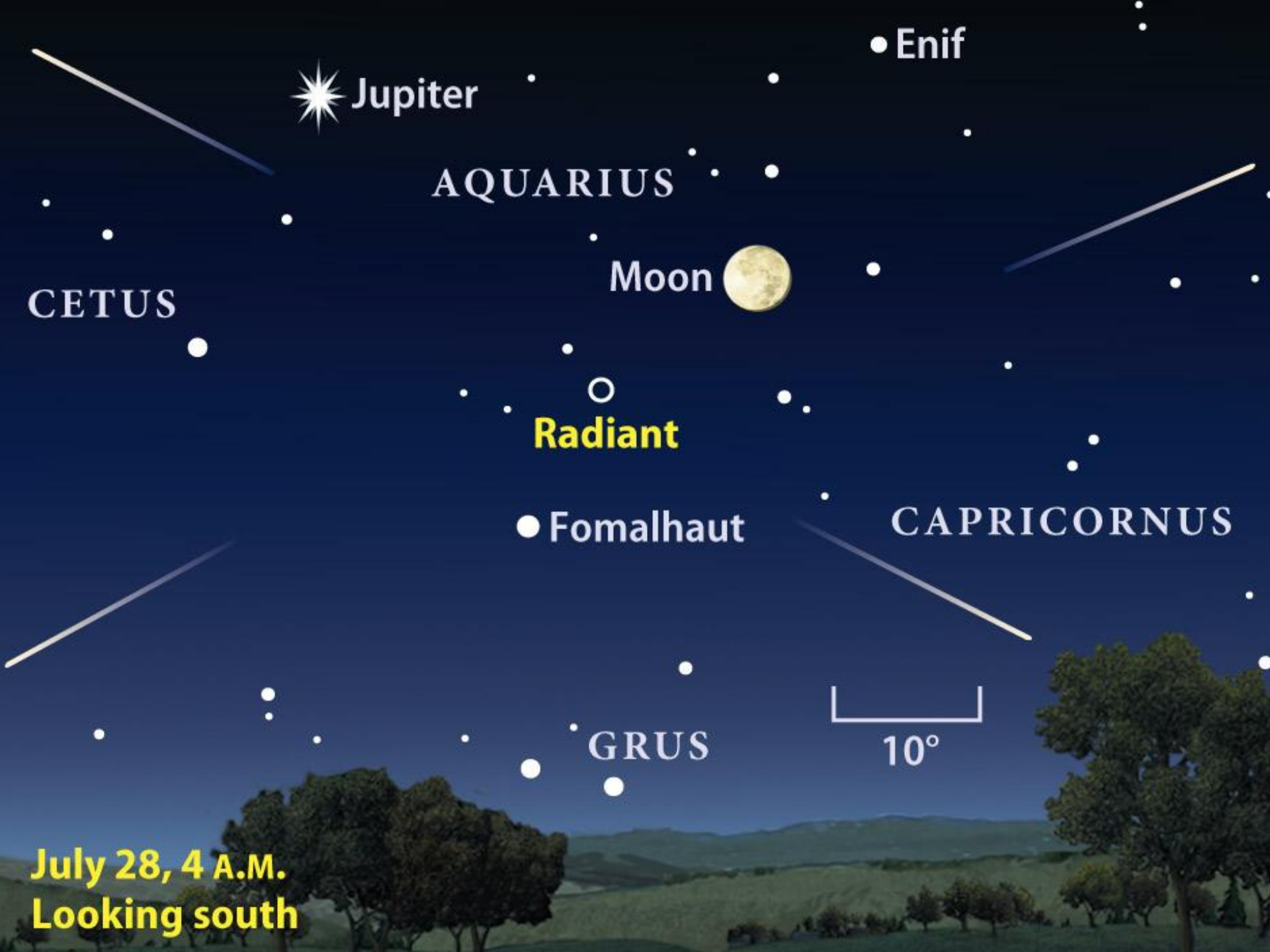
Titan ●

Tethys ●



15"





Jupiter

• Enif

AQUARIUS

CETUS

Moon

Radiant

• Fomalhaut

CAPRICORNUS

GRUS

10°

**July 28, 4 A.M.
Looking south**

VIRGO

• Spica

Denebola •

Mars • Saturn

Venus

LEO

CORVUS

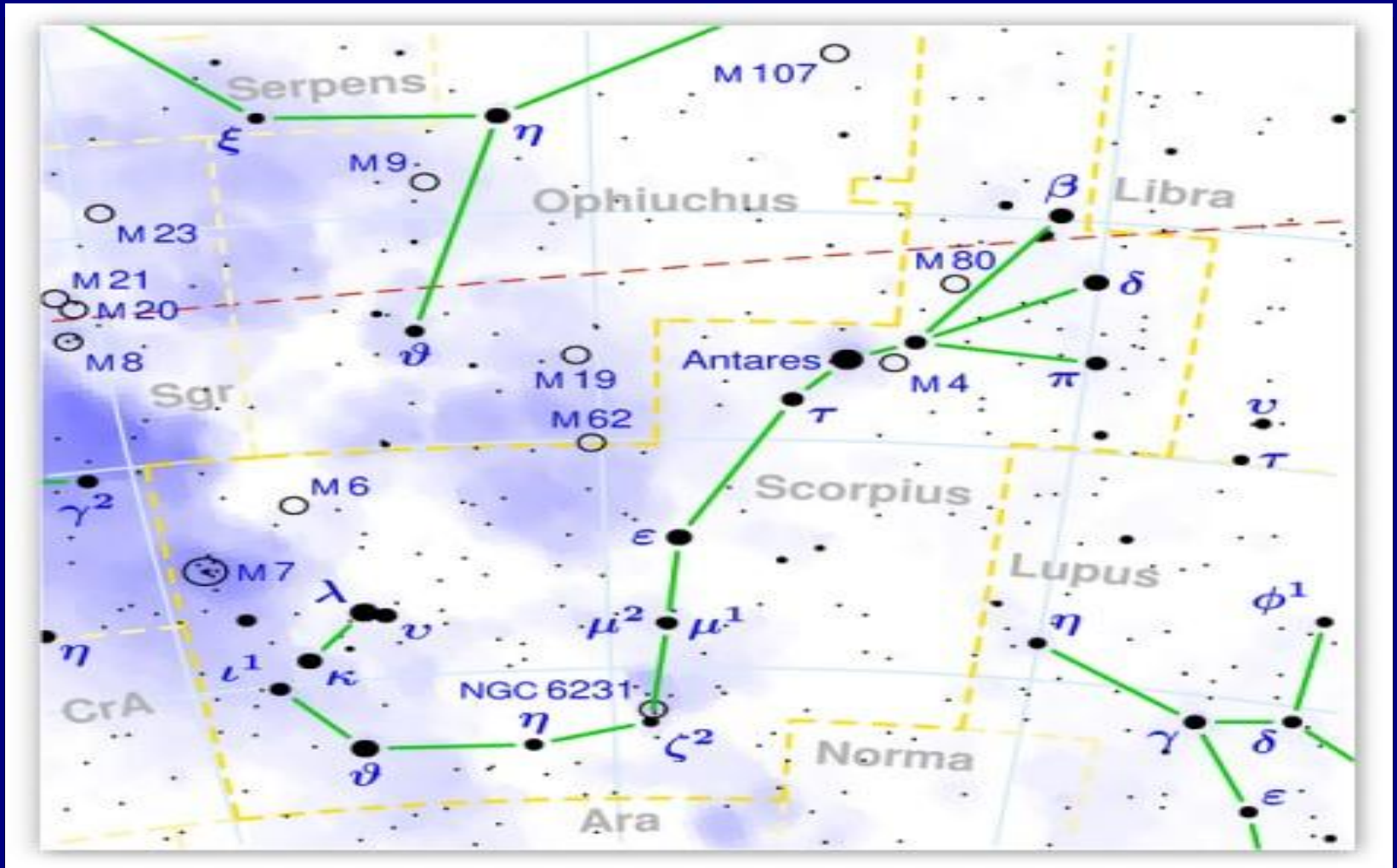
10°

Mercury •

July 31, 1 hour after sunset
Looking west



Constellations Scorpius / Ophiuchus



Target List

Scorpius / Ophiuchus

Object	Type	Mag	Size / Sep
M19	Globular Cluster	7.2	14'
M62	Globular Cluster	6.6	10'
M80	Globular Cluster	7.2	8'
M6	Open Cluster	4.2	15'
M7	Open Cluster	3.3	80'
NGC6281	Open Cluster	5.4	12'
NGC6400	Open Cluster	8.8	12'
NGC6302	Planetary Nebula	9.6	90" x 35"
Beta Scorpii	Double Star	2.9 / 6.9	13.6"
Nu Scorpii	Double Double	4.2 / 6.6	41"

Target List

Object	Description	R.A.	Declination
M19	GC 22,000 LY	17h 02.6m	-26° 16'
M62	GC 22,000 LY	17h 01.2m	-30° 07'
M80	GC 36,000 LY	16h 17.0m	-22° 59'
M6	Butterfly Cluster	17h 40.1m	-32° 13'
M7	Ptolemy Cluster	17h 53.9m	-34° 49'
NGC6281	OC 2,000 LY	17h 04.7m	-37° 59'
NGC6400	Open Cluster	17h 40.2m	-36° 58'
NGC6302	Bug Nebula	17h 13.7m	-37° 06'
Beta Scorpii	Graffias	16h 05.4m	-19° 48'
Nu Scorpii	Prim 1.3" Sec 2.4"	16h 12.0m	-19° 28'

Web Links

- ASTRONOMY MAGAZINE
- WWW.ASTRONOMY.COM
- SKY & TELESCOPE MAGAZINE
- WWW.SKYANDTELESCOPE.COM
- SKY ATLAS 2000.0 – 2ND EDITION – SKY PUBLISHING CORP
- WWW.WWNORTON.COM

Clear Skies!