SOME CLOSE WAXING CRESCENT MOON
AND VENUS APPARITIONS

2018 MAY TO OCTOBER

Approximate Times, Altitudes and Separations for Gainesville, Florida Area

(Look no later than 20 min. after sunset — Venus altitudes in Column 3)

SEE NEXT PAGE FOR DIAGRAMS

Date	Sunset (DST)	Venus Altitude 20 min. After Sunset	Separation Between Moon & Venus	Moon Phase	Venus Mag.	Venus Phase	Other Objects	Mag.	Separation from Moon	Notes
17-May	8:17 p	24.8°	5.1°	9.1%	-4.0	84.2%				
15-Jun	8:31 p	27.9°	8.0°	7.3%	-4.0	75.3%				
16-Jun	8:32 p	27.7°	5.7°	14.7%	-4.0	75.0%	Beehive Cluster	+3.1	2.9°	1
15-Jul	8:31 p	26.2°	2.7°	12.4%	-4.1	64.0%	*Regulus* (α Leo)	+1.4	4.2°	2
13-Aug	8:12 p	22.1°	11.0°	9.9%	-4.3	50.6%	Zavijava (β Vir)	+3.6	2.7°	
14-Aug	8:11 p	21.9°	6.3°	17.8%	-4.3	50.1%	*Porrima* (γ Vir)	+3.4	1.6°	3
12-Sep	7:39 p	15.5°	9.1°	14.0%	-4.5	32.1%	Jupiter	-1.9	16.1°	4
13-Sep	7:37 p	15.3°	16.0°	21.9%	-4.5	31.4%	Jupiter	-1.9	4.5°	5, 6
10-Oct	7:01 p	4.0°	11.7°	4.3%	-4.4	8.4%	Jupiter and	-1.8	14.0°	7, 8, 9
							Mercury	-0.4	10.1°	10

NOTES:

1. Beehive Cluster (M44 or *Praesepe*) in Cancer between Moon and Venus.
2. Mercury (mag. +0.7) between Moon and Horizon. Regulus (mag. +1.4) below and to right of Moon.
3. Venus reaches greatest elongation East on August 17 (46 degrees).
4. Venus now only about 16 degrees high 20 min. after sunset.
5. Close pairing of Moon and Jupiter makes this Moon-Venus-Jupiter triangle special.
6. Venus reaches greatest illumination (mag. -4.6) on Sept. 21.
7. Moon, Venus, Jupiter and Mercury form a *quadrilateral* .
8. Also look for *Antares* (α Sco, approx. mag. +1.1), 17 degrees to upper left of Jupiter.
9. Clear, unobstructed horizon needed. Venus now only about 4 degrees high 20 min. after sunset.
10. Venus becomes stationary Oct. 5 and retrogrades rapidly toward Sun. Conjunction with Sun Oct. 26.

Close Waxing Crescent Moon and Venus Apparitions

Diagrams illustrate approximate scenes from May to October 2018 for North Florida locations (abt. Lat. 30° N, Long. 82° W) about 20 minutes after sunset.

2018 May 17
20 min. after sunset

Moon
Venus

Looking West to Northwest

Moon (June 16)
Beehive Cluster
Venus

Moon (June 15)

2018 June 15-16
20 min. after sunset

Looking West to Northwest

Venus
Moon

Regulus

Mercury

2018 July 15
20 min. after sunset

Looking West

Moon (Aug. 14)
Gamma Virginis
Venus
Moon (Aug. 13)
Beta Virginis

2018 Aug. 13-14
20 min. after sunset

Looking Southwest to West

Jupiter
Moon (Sep. 13)

Moon (Sep. 12)

Venus

2018 Sept. 12-13
20 min. after sunset

Looking Southwest to West

2018 Oct. 10
20 min. after sunset

Jupiter

Moon

Need very clear, unobstructed horizon

Venus
Mercury

Looking Southwest to West