

KVAS Wite Sky May 21 - June 18

Moon Phases, EDT (Eastern Daylight-Savings Time)

5/20 1st Quarter 7:43 PM // 5/27 Full 7:07 PM // 6/4 Last Quarter 6:23 PM

6/12 New 7:15 AM // 6/19 1st Quarter 12:29 AM // 6/26 Full 7:30 AM

Summer Solstice begins 6/21 7:28 AM EDT, longest day

Lunar eclipse 6/26 not here go to Hawaii

See all major Planets (?) early in June

Twilight 3 form diagonal line in West at twilight

Saturn - left Mars - middle, Venus - right (further right are bright stars Castor & Pollux in Gemini)

Venus magnitude -4 very bright blue-white

Mars magnitude +1.2 orange-yellow, Saturn +1.8

After midnight - Neptune rises in East between Capricorn & Aquarius @ magnitude +7.9

Dawn Jupiter & Uranus (blue-green hue) in Pisces low in E-S & within 2° of each other at magnitudes +2.3 & +5.8

Mercury rises in Taurus an hr before sunrise @ +0.6 mag but due to sky brightness binoculars may be needed

13 Bright Stars - visible about 11 PM in June

In the zodiac - going West left (South) to East Castor & Pollux (α, β Gem) m +1.9 & +1.1, Regulus (α Leo) -1.3,

Spicula (α Vir) m +1.0, Antares (α Sco) m +1.0,

Higher & in South East are Arcturus (α Boo) 0.0, Vega (α Lyn) -0.04, Deneb (α Cyg) +1.2, Altair -0.8 (α Aql)

and second degree stars in the Big Dipper (U. Ma) - Alkaid - 1.9, Mizar - 2.0, Alioth - 1.8, & Dubhe - 1.8

Constellations of the Month

Boötes, the Herdsman, ancient constellation from mythology. Protects his flocks and chases Ursa Major & Minor (The Big & Little Bear) above in the sky.

Canes Venatici, the Hunting Dogs of Boötes who help chase away the Bears circling the celestial North Pole. (Kah-nez ve-NAT-eh-see)

Corona Borealis, the Northern Crown, has many ancient legends including one that King Dionysus threw his crown into the heavens as a tribute to Ariadne who married him & they both became immortal.

(Kor-ott-nah bor-ee-AL-is)

B.R. &
5/21/10

Chart 2

URSA MAJOR
(see Chart 2)

need big scope
9th mag
40 million ly
Spiral gal.

CANES
VENATICI
(see Chart 3)

M63
M94

Cor Caroli
(The Heart of
King Charles II, England
by Edmond Halley
fine double for
small scopes
110 ly, 2.9/5.4 mag

Spiral gal
8th mag
compact bright
in scopes

Coma cluster; a nearby star
cluster visible to unaided eye as
5-degree-wide sprinkling of stars
Third nearest open
cluster (250 ly); only
Hyades and Ursa
Major clusters nearer

COMA
BERENICES

M64
"Black-Eye"
Galaxy; 8th mag;
seen in small scopes
.25 million ly

See last month's
sky for the main
in the Coma Virgo
Galaxy super

VIRGO

M3
Globular cluster;
mag. 6.4; seen as
small smudges in
binocs; individual
stars in scopes
35,000 ly.

M53
Globular cluster;
mag. 7.6; small;
needs scope to detect
68,000 ly

DRACO

HERCULES

Zenith

Chart 6

mυ

6th mag
Revers 2
nova star
irregular drop
to 12th mag
check w/ binocs

4.5
121 ly

Binoc double;
4th- and 6th-
mag.; easy

CORONA
BOREALIS

Alphecca
2.2
75 ly
lum. = 45

Variable binary
star
red giant
nov 9 (1866, 1946)

β

3.5
220 ly

γ

3.1
85 ly

δ

3.5
140 ly

ε

2.4
210 ly

ζ

2.1
130 ly

η

4.5
77 ly

θ

3.1
130 ly

ι

4.5
77 ly

κ

5.5
160 ly

λ

6.5
160 ly

μ

6.5
160 ly

BOOTES

Izar
2.4
210 ly

Beautiful double
for 4-inch and
larger scopes
A = 2.5; B = 5.0
Sep. = 2.9"

Xi

4.5
77 ly

4.5
77 ly

4.5
77 ly

4.5
77 ly

4.5
77 ly

4.5
77 ly

4.5
77 ly

4.5
77 ly

4.5
77 ly

Yellow, orange &
Red giant
2nd brightest

Zeta

BERENICES
CAPUT

B.R.D.
5/2/10