

Astronomy targets: April 2018

Unless stated otherwise, all times are for mid-month, for Birmingham UK and are GMT+1. Rise & set times are for 20 degrees above horizon. Dark & light times are nautical twilight times (Sun 12 degrees below horizon) and astronomical darkness (Sun 18 degrees below horizon).

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Sun times

Monday date	Sunset	Naut Dark	Astro Dark	Astro Light	Naut Light	Sunrise	Moon	Moon %
02/04/18	1944	2101	2146	0435	0521	0638	2205 →	93%
09/04/18	1956	2115	2204	0414	0502	0622	0422 →	34%
16/04/18	2008	2130	2223	0351	0444	0606		1%
23/04/18	2020	2146	2244	0327	0425	0551	← 0353	62%
30/04/18	2032	2203	2308	0301	0406	0537	2058 →	99%

Calendar

15 Apr New Moon
22 Apr Lyrid meteor shower (20 per hour)
29 Apr Full Moon

Planets

Venus (low at Sunset)
Mars (low at Sunrise)
Jupiter (0200-Sunrise)
Saturn (low at Sunrise)

Cassiopeia Sunset-2250 & 0120-Sunrise

Emmission nebulae:

NGC281 Pacman Nebula
NGC7635 (C11) Bubble Nebula
IC1805 Heart Nebula
IC1848 Soul Nebula

Open clusters:

M52
M103
NGC457 (C13) Owl cluster
NGC654
NGC659
NGC663 (C10)
NGC7789
NGC7790

Multiple star: η-Cas (eta-Cas) gold & red

Camelopardalis all night

Galaxy: NGC2403 (C7)
Asterism: Kemble's Cascade & NGC1502 cluster

Auriga Sunset-2300

Emmission nebula: IC405 (C31) Flaming Star Nebula

Open clusters:

M36
M37
M38

Multiple star: OΣ147 yellowish & two blue

Gemini Sunset-2300

Planetary nebula: NGC2392 (C39) Eskimo Nebula
Open cluster: M35
Multiple star: Castor α-Gem (alpha-Gem) two blue

Cancer Sunset-0010

Open clusters:

M44 Beehive Cluster
M67

Multiple star: ι-Cnc (iota-Cnc) gold & blue

Lynx Sunset-0330

Globular cluster: NGC2419 (C25)

Leo Sunset-0220, best 2150

Galaxies

M65, M66 & NGC3628 Leo Triplet
M95
M96
M105 & NGC3384

Multiple star: Algieba γ-Leo (gamma-Leo) two yellow

Ursa Major all night, best 2340

Planetary nebula: M97 Owl Nebula

Galaxies:

M81 Bode's Galaxy & M82 Cigar Galaxy
M101 Pinwheel Galaxy
M108
M109

Multiple star: Mizar & Alcor ζ-UMa (zeta-UMa) 3 white

Canes Venatici all night, best 0030

Globular cluster: M3

Galaxies:

M51 Whirlpool Galaxy
M63 Sunflower Galaxy
M94
M106
NGC4631 Whale Galaxy

Coloured star: La Superba Y-CVn carbon star

Multiple star: Cor Caroli α-CVn (alpha-CVn) yellow & orange

Coma Berenices all night, best 0040

Globular cluster: M53

Open clusters: Melotte 111

Galaxies:

M64 Black Eye Galaxy
M85
M88
M91
M98
M99
M100
NGC4565 Needle Galaxy

Virgo 2320-0300, best 0050

Galaxies:

M49
M58
M59
M60
M61
M84, M86, NGC4435, etc. Markarian's Chain
M87
M89
M90
M104 Sombrero Galaxy

Boötes all night, best 0150

Multiple star: ξ-Boo (xi-Boo) yellow & orange

Ursa Minor all night, best 0210

Multiple star: Polaris α-UMi (alpha-UMi) yellow & white

Draco all night, best 0350

Planetary nebula: NGC6543 Cats Eye Nebula

Galaxy: M102

Ophiuchus 0320-Sunrise, best 0350

Globular clusters:

M9
M10
M12
M14
M19
M62
M107

Open cluster: IC4665

Hercules 2320-Sunrise, best 0420

Globular clusters:

M13 Hercules Globular Cluster
M92

Serpens 0350-Sunrise, best 0440

Emmission nebula: M16 Eagle Nebula

Globular cluster: M5

Lyra 2350-Sunrise

Planetary nebula: M57 Ring Nebula

Globular cluster: M56

Multiple stars:

Double-Double ϵ -Lyr (epsilon-Lyr) four white
Other Double-Double Σ 2470 & Σ 2474 four white

Sagitta 0210-Sunrise

Globular cluster: M71

Vulpecula 0120-Sunrise

Planetary nebula: M27 Dumbell Nebula

Open cluster: NGC6885 (C37)

Asterism: Coathanger

Cygnus 0140-Sunrise

Emmission nebulae:

NGC6888 Crescent Nebula
NGC6960 Veil Nebula
IC5070 Pelican Nebula
IC7000 (C20) North American Nebula

Planetary nebulae:

IC5146 (C19) Cocoon Nebula
NGC6826 Blinking Nebula
NGC7008 Fetus Nebula

Open clusters:

M29
M39
NGC6871
NGC6883
NGC6910 Rocking Horse Cluster

Galaxy: NGC6946 (C12) Fireworks Galaxy

Multiple stars:

Albireo β -Cyg (beta-Cyg) gold & blue
61-Cyg orange & red

Delphinus 0320-Sunrise

Globular clusters:

NGC6934 (C47)
NGC7006 (C42)

Cepheus 2250-Sunrise

Reflection nebula: NGC7023 (C4) Iris Nebula

Open clusters:

NGC188 (C1)
NGC7160

Coloured star: Garnet Star μ -Cep (mu-Cep)

Multiple stars:

δ -Cep (delta-Cep) yellow & purple
 Σ 2816 yellow & two white

Lacerta 0240-Sunrise

Open cluster: NGC7243 (C16)