

Astronomy targets: March 2018

Unless stated otherwise, all times are for mid-month, for Birmingham UK and are GMT. 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 %	
05/03/18	1754	1908	1948	0450	0530	0643	2215 →	82%	
12/03/18	1806	1920	2001	0433	0513	0627	0449 →	19%	
19/03/18	1819	1933	2015	0414	0456	0611	← 2038	7%	
26/03/18	1931	2047	2130	0455	0539	0654	← 0513	76%	(GMT+1)

Calendar

1 Mar Full Moon
17 Mar New Moon
31 Mar Full Moon

Planets

Mercury (low at Sunset)
Venus (low at Sunset)
Mars (low at Sunrise)
Jupiter (0330-Sunrise)
Saturn (low at Sunrise)
Uranus (low at Sunset)

Cassiopeia Sunset-2350 & 0220-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

Triangulum Sunset-2040

Galaxy: M33 Triangulum Galaxy

Aries Sunset-1940

Multiple star: Σ326 orange & red

Perseus Sunset-2230

Emmission nebula: NGC1499 California Nebula
Planetary nebula: M76 Little Dumbell Nebula

Open clusters:
M34
NGC869 & NGC884 (C14) Double Cluster
NGC1528
NGC1582
Melotte 20

Multiple star: η-Per (eta-Per) gold & blue

Taurus Sunset-2020

Planetary nebulae:
M1 Crab Nebula
NGC1514

Open clusters:
M45 Pleiades
NGC1647
Melotte 25 Hyades

Camelopardalis all night

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

Auriga Sunset-0000

Emmission nebula: IC405 (C31) Flaming Star Nebula
Open clusters:
M36
M37
M38
Multiple star: OΣ147 yellowish & two blue

Orion Sunset-2020

Emmission nebulae:
NGC2024 Flame Nebula
NGC2174 Monkey Head Nebula
IC434 Horsehead Nebula

Reflection nebulae:
M42 & M43 Orion Nebula
M78
NGC1977 Running Man

Open clusters:
NGC1662
NGC1981

Multiple star: Trapezium θ1-Ori (theta-1-Ori) four white

Gemini Sunset-0000

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

Monoceros Sunset-2140, best 1940

Emmission nebula: NCG2239 Rosette Nebula
Reflection nebula: NGC2261 (C46) Hubble's Variable Nebula
Open clusters:
M50
NGC2232
NGC2264

Multiple star: β-Mon (beta-Mon) three blue

Puppis partly visible, best 2000

Open clusters:
M46
M47
M93
NGC2539

Hydra partly visible, best 2100

Globular cluster: M68
Open cluster: M48
Galaxy: M83

Cancer Sunset-0110, best 2130

Open clusters:
M44 Beehive Cluster
M67
Multiple star: ι-Cnc (iota-Cnc) gold & blue

Lynx Sunset-0430, best 2150

Globular cluster: NGC2419 (C25)

Leo Sunset-0320, best 2250

Galaxies
M65, M66 & NGC3628 Leo Triplet
M95
M96
M105 & NGC3384
Multiple star: Algieba γ-Leo (gamma-Leo) two yellow

Ursa Major all night, best 0040

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 0130

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 2020-Sunrise, best 0140

Globular cluster: M53

Open clusters: Melotte 111

Galaxies:

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

Virgo 0020-0400, best 0150

Galaxies:

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

Boötes 2110-Sunrise, best 0250

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

Ursa Minor all night, best 0310

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

Draco 2120-Sunrise, best 0450

Planetary nebula: NGC6543 Cats Eye Nebula

Galaxy: M102

Ophiuchus 0420-Sunrise, best 0450

Globular clusters:

M9
M10
M12
M14
M19
M62
M107

Open cluster: IC4665

Hercules 0020-Sunrise

Globular clusters:

M13 Hercules Globular Cluster
M92

Lyra 0050-Sunrise

Planetary nebula: M57 Ring Nebula

Globular cluster: M56

Multiple stars:

Double-Double ε-Lyr (epsilon-Lyr) four white
Other Double-Double Σ2470 & Σ2474 four white

Sagitta 0310-Sunrise

Globular cluster: M71

Vulpecula 0220-Sunrise

Planetary nebula: M27 Dumbell Nebula

Open cluster: NGC6885 (C37)

Asterism: Coathanger

Cygnus 0240-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 0420-Sunrise

Globular clusters:

NGC6934 (C47)
NGC7006 (C42)

Cepheus Sunset-2150 & 2350-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
Σ2816 yellow & two white

Lacerta 0340-Sunrise

Open cluster: NGC7243 (C16)