

Astronomy targets: May 2019

Unless stated otherwise, all times are for mid-month, for Birmingham UK and are BST. 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 & Moon times

Monday date	Sunset	Naut	Astro	Astro	Naut	Sunrise	Moon
		Dark	Dark	Light	Light		
06/05/19	2042	2217	2332	0237	0351	0526	5%
13/05/19	2054	2235	0008	0159	0333	0514	72%
20/05/19	2104	2252			0316	0504	95%
27/05/19	2114	2309			0300	0455	38%

Calendar

4 May New Moon
6 May Eta Aquarids Meteor Shower
18 May Full Moon

Planets

Mars: Low at Sunset
Jupiter: Low at Sunrise
Saturn: Low at Sunrise

Boötes all night, best 2350

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

Camelopardalis all night

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

Canes Venatici all night

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

Cassiopeia 2320-Sunrise

Emission 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

Cepheus all night

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

Coma Berenices all night, best 2240

Globular cluster: M53
Open clusters: Melotte 111
Galaxies:
M64 Black Eye Galaxy
M85
M88
M91
M98
M99
M100
NGC4565 Needle Galaxy

Cygnus 2340-Sunrise

Emission 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 0120-Sunrise

Globular clusters:
NGC6934 (C47)
NGC7006 (C42)

Draco all night, best 0150

Planetary nebula: NGC6543 Cats Eye Nebula
Galaxy: M102

Hercules all night, best 0220

Globular clusters:
M13 Hercules Globular Cluster
M92

Lacerta 0040-Sunrise

Open cluster: NGC7243 (C16)

Leo Sunset-0020

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

Lynx Sunset-0130

Globular cluster: NGC2419 (C25)

Lyra all night

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

Ophiuchus 0120-Sunrise, best 0150

Globular clusters:

M9
M10
M12
M14
M19
M62
M107

Open cluster: IC4665

Sagitta 0010-Sunrise

Globular cluster: M71

Sagittarius partly visible, best 0320

Emission nebulae:

M8 Lagoon Nebula
M17 Swan Nebula
M20 Trifid Nebula

Globular clusters:

M28
M54
M55
M69
M70
M75

Open clusters:

M18
M21
M22
M23
M24
M25
NGC6530

Scutum 0310-Sunrise

Open clusters:

M11 Wild Duck Cluster
M26

Serpens 0150-Sunrise, best 0240

Emission nebula: M16 Eagle Nebula

Globular cluster: M5

Ursa Major all night

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

Ursa Minor all night, best 0010

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

Virgo Sunset-0100, best 2250

Galaxies:

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

Vulpecula all night

Planetary nebula: M27 Dumbell Nebula

Open cluster: NGC6885 (C37)

Asterism: Coathanger