

Astronomy targets: April 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		
01/04/19	1941	2058	2144	0439	0524	0641	0%
08/04/19	1954	2113	2201	0418	0506	0625	13%
15/04/19	2006	2128	2219	0355	0447	0609	84%
22/04/19	2018	2144	2240	0331	0428	0554	85%
29/04/19	2030	2200	2304	0306	0409	0539	23%

Calendar

4 Apr New Moon
18 Apr Full Moon
22 Apr Lyrids Meteor Shower

Planets

Mars: Sunset-2151
Jupiter: Low at Sunrise
Saturn: Low at Sunrise

Auriga Sunset-2300

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

Boötes all night, best 0150

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

Camelopardalis all night

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

Cancer Sunset-0010

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

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

Cassiopeia Sunset-2250 & 0120-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 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
Σ2816 yellow & two white

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

Cygnus 0140-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 0320-Sunrise

Globular clusters:
NGC6934 (C47)
NGC7006 (C42)

Draco all night, best 0350

Planetary nebula: NGC6543 Cats Eye Nebula
Galaxy: M102

Gemini Sunset-2300

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

Hercules 2320-Sunrise, best 0420

Globular clusters:

M13 Hercules Globular Cluster
M92

Lacerta 0240-Sunrise

Open cluster: NGC7243 (C16)

Leo Sunset-0220, best 2150

Galaxies

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

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

Lynx Sunset-0330

Globular cluster: NGC2419 (C25)

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

Ophiuchus 0320-Sunrise, best 0350

Globular clusters:

M9
M10
M12
M14
M19
M62
M107

Open cluster: IC4665

Sagitta 0210-Sunrise

Globular cluster: M71

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

Ursa Minor all night, best 0210

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

Virgo 2320-0300, best 0050

Galaxies:

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

Vulpecula 0120-Sunrise

Planetary nebula: M27 Dumbell Nebula

Open cluster: NGC6885 (C37)

Asterism: Coathanger