

Astronomy targets: August 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		
05/08/19	2053	2229	2344	0244	0359	0535	31%
12/08/19	2040	2210	2314	0311	0416	0546	94%
19/08/19	2025	2151	2248	0335	0432	0558	83%
26/08/19	2010	2132	2224	0355	0447	0610	16%

Calendar

12 Aug Perseids Meteor Shower

15 Aug Full Moon

29 Aug New Moon

Planets

Jupiter: Low at Sunset

Saturn: Low at Sunset

Uranus: 0050-Sunrise

Neptune: 2345-Sunrise

Andromeda 0000-Sunrise

Planetary nebula: NGC7662 (C22) Blue Snowball

Open cluster: NGC752 (C28)

Galaxies:

M31, M32 & M110 Andromeda Galaxy

NGC404 Mirach's Ghost

NGC891 (C23)

Multiple star: Almaak γ-And (gamma-And) gold & green

Aquarius 0020-0420, best 0140

Planetary nebula: NGC7293 Helix Nebula

Globular clusters:

M2

M72

Open cluster: M73

Aries 0020-Sunrise

Multiple star: Σ326 orange & red

Auriga 0240-Sunrise

Emission nebula: IC405 (C31) Flaming Star Nebula

Open clusters:

M36

M37

M38

Multiple star: OΣ147 yellowish & two blue

Boötes Sunset-2220

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

Camelopardalis all night

Galaxy: NGC2403 (C7)

Asterism: Kemble's Cascade & NGC1502 cluster

Canes Venatici Sunset-2330

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

Capricornus low, best 0000

Globular cluster: M30

Cassiopeia all night, best 0410

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, best 0050

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 Sunset-2150

Globular cluster: M53

Open clusters: Melotte 111

Galaxies:

M64 Black Eye Galaxy

M85

M88

M91

M98

M99

M100

NGC4565 Needle Galaxy

Cygnus all night, best 0010

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 all night, best 0010

Globular clusters:

NGC6934 (C47)

NGC7006 (C42)

Draco all night

Planetary nebula: NGC6543 Cats Eye Nebula

Galaxy: M102

Hercules Sunset-0110

Globular clusters:

M13 Hercules Globular Cluster

M92

Lacerta all night, best 0200

Open cluster: NGC7243 (C16)

Lyra all night, best 2200

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

Pegasus 2240-Sunrise, best 0310

Globular cluster: M15

Galaxies:

NGC7320 Stefan's Quintet galaxy cluster

NGC7331 (C30) galaxy cluster

Multiple star: Σ 2841 orange & green

Perseus 0100-Sunrise

Emission 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

Pisces 0140-Sunrise, best 0400

Galaxies: M74

Sagitta all night, best 2300

Globular cluster: M71

Scutum Sunset-2330, best 2200

Open clusters:

M11 Wild Duck Cluster

M26

Serpens Sunset-2230

Emission nebula: M16 Eagle Nebula

Globular cluster: M5

Taurus 0340-Sunrise

Planetary nebulae:

M1 Crab Nebula

NGC1514

Open clusters:

M45 Pleiades

NGC1647

Melotte 25 Hyades

Triangulum 2310-Sunrise

Galaxy: M33 Triangulum Galaxy

Ursa Major Sunset-0350

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

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

Vulpecula all night, best 2300

Planetary nebula: M27 Dumbell Nebula

Open cluster: NGC6885 (C37)

Asterism: Coathanger