

Astronomy targets: May 2017

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

Date	S.Set	Dark	Astro dark	Light	S.Rise	Moon
06/05/17	2043	2218	2334 0234	0350	0525)))
13/05/17	2054	2236	0012 0156	0332	0513)))
20/05/17	2105	2254		0314	0503)
27/05/17	2115	2311		0259	0455	

Moon phases

Full Moon 10 May; New Moon 25 May

Calendar

5 May: Eta Aquarid meteor shower (10 per hour)

Planets

☐ Jupiter: to 0140

Transient objects

☐ Comets visible this month: 41P/Tuttle-Giacobini-Kresak & C/2015 V2 (Johnson). See <http://cometchasing.skyhound.com>

Boötes (all night, best 2350)

DS ξ (xi): yellow & orange

Camelopardalis (all night)

GA NGC2403 (C7) galaxy

AS Kemble's Cascade & NGC1502 cluster

Canes Venatici (all night)

GA M51 Whirlpool Galaxy

GA M63 Sunflower Galaxy

GA M94 galaxy

GA M106 galaxy

GA NGC4631 Whale Galaxy

GC M3 globular cluster

DS Cor Caroli α (alpha): yellow & orange

ST La Superba Y carbon star

Cassiopeia (2320-Sunrise)

EN NGC281 Pacman Nebula

EN NGC7635 (C11) Bubble Nebula

EN IC1805 Heart Nebula

EN IC1848 Soul Nebula

OC M52 open cluster

OC M103 open cluster

OC NGC457 (C13) Owl cluster

OC NGC654 open cluster

OC NGC659 open cluster

OC NGC663 (C10) open cluster

OC NGC7789 open cluster

OC NGC7790 open cluster

DS η (eta): gold & red

Cepheus (all night)

RN NGC7023 (C4) Iris Nebula

OC NGC188 (C1) open cluster

OC NGC7160 open cluster

DS δ (delta): yellow & purple

DS Σ2816: yellow & two white

ST The Garnet Star: μ (mu)

Coma Berenices (all night, best 2240)

GA M64 Black Eye Galaxy

GA M85 galaxy

GA M88 galaxy

GA M91 galaxy

GA M98 galaxy

GA M99 galaxy

GA M100 galaxy

GA NGC4565 Needle Galaxy

GC M53 globular cluster

OC Melotte 111 open cluster

Cygnus (2340-Sunrise)

GA NGC6946 (C12) Fireworks Galaxy

EN NGC6888 Crescent nebula

EN NGC6960 Veil nebula

EN IC5070 Pelican Nebula

EN IC5146 (C19) Cocoon Nebula

EN IC7000 (C20) North American Nebula

PN NGC6826 Blinking Nebula

PN NGC7008 Fetus Nebula

OC M29 open cluster

OC M39 open cluster

OC NGC6871 open cluster

OC NGC6883 open cluster

OC NGC6910 Rocking Horse Cluster

DS Albireo β (beta): gold & blue

DS 61: orange & red

Delphinus (0120-Sunrise)

GC NGC7006 (C42) globular cluster

GC NGC6934 (C47) globular cluster

DS γ (gamma): yellow & blue

Draco (all night, best 0150)

GA M102 galaxy

PN NGC6543 Cats Eye Nebula

Hercules (all night, best 0220)

GC M13 Hercules Globular Cluster

GC M92 globular cluster

Lacerta (0040-Sunrise)

OC NGC7243 (C16) open cluster

Leo (Sunset-0020)

GA M65, M66 & NGC3628 Leo Triplet

GA M95 galaxy

GA M96 galaxy

GA M105 & NGC3384 galaxies

DS Algieba γ (gamma): two yellow

Lynx (Sunset-0130)**GC** NGC2419 (C25) globular cluster**Lyra (all night)****PN** M57 Ring Nebula**GC** M56 globular cluster**DS** Double-Double ϵ (epsilon): four white**DS** Other Double-Double Σ 2470 & Σ 2474: four white**Ophiuchus (0120-Sunrise, best 0150)****GC** M9 globular cluster**GC** M10 globular cluster**GC** M12 globular cluster**GC** M14 globular cluster**GC** M19 globular cluster**GC** M62 globular cluster**GC** M107 globular cluster**OC** ic4665 open cluster**Sagitta (0010-Sunrise)****GC** M71 globular cluster**Sagittarius (partly visible, best 0320)****EN** M8 Lagoon Nebula**EN** M17 Swan Nebula**EN** M20 Triffid Nebula**GC** M28 globular cluster**GC** M54 globular cluster**GC** M55 globular cluster**GC** M69 globular cluster**GC** M70 globular cluster**GC** M75 globular cluster**OC** M18 open cluster**OC** M21 open cluster**OC** M22 open cluster**OC** M23 open cluster**OC** M24 open cluster**OC** M25 open cluster**OC** NGC6530 open cluster**Scorpius (partly visible, best 0300)****GC** M4 globular cluster**GC** M80 globular cluster**OC** M6 Butterfly Cluster**OC** M7 Ptolemy Cluster**Scutum (0310-Sunrise)****OC** M11 Wild Duck Cluster**OC** M26 open cluster**Serpens (0150-Sunrise, best 0240)****EN** M16 Eagle Nebula**GC** M5 globular cluster**Ursa Major (all night)****GA** M81 Bode's Galaxy & M82 Cigar Galaxy**GA** M101 Pinwheel Galaxy**GA** M108 galaxy**GA** M109 galaxy**PN** M97 Owl Nebula**DS** Mizar & Alcor ζ (zeta): 3 white**Ursa Minor (all night, best 0010)****DS** Polaris α (alpha): yellow & white**Virgo (Sunset-0100, best 2250)****GA** M49 galaxy**GA** M58 galaxy**GA** M59 galaxy**GA** M60 galaxy**GA** M61 galaxy**GA** M84, M86, NGC4435, etc. Markarian's Chain**GA** M87 galaxy**GA** M89 galaxy**GA** M90 galaxy**GA** M104 Sombrero Galaxy**Vulpecula (all night)****PN** M27 Dumbell Nebula**OC** NGC6885 (C37) open cluster**AS** Coathanger**Key**

GA	Galaxy
EN	Emission nebula
RN	Reflection nebula
PN	Planetary nebula
GC	Globular cluster
OC	Open cluster
AS	Asterism
DS	Double star
ST	Star