



Global Astronomy Month

presented by **Astronomers Without Borders**

Observing Challenge - Deep Sky Objects

Key

N – Naked eye object
 B – Binocular object
 T - Telescope object
 OC – Open Cluster
 GC – Globular Cluster

PN – Planetary Nebula
 Gal – Galaxy
 DfN – Diffuse Nebula
 DN – Dark Nebula
 SNR – Supernova Remnant

Mag.	Designation	RA		Declination		Type	Mag.	Size	Con	Notes
		Hrs	Min	Deg	Min					
B, T	104	0	24.1	-72	-5	GC	4.9	31'	Tucana	47 Tucanae, 2nd best globular in the sky
N, B	M45	3	47	24	7	OC	1.4	110.0'	Taurus	The Pleiades Star Cluster, The Seven Sisters
B, T	NGC 1851	5	14	-40	3	GC	7.3	11'	Columba	Solitary deep sky object
B, T	M 38	5	28.7	35	50	OC	7	21.0'	Auriga	
T	M 1	5	34.5	22	1	SNR	8.4	7' X 4'	Taurus	The Crab Nebula; 1054 AD supernova remnant
B, T	M 42/43	5	35.3	-5	-23	DfN	5	85' X 60'	Orion	The Orion Nebula; contains the Trapezium
B, T	M 36	5	36.2	34	8	OC	6.5	12.0'	Auriga	
B, T	NGC 2070	5	38.6	-69	-6	DfN	8	40' x 25'	Dorado	Tarantula Nebula in the Large Magellanic Cloud
B, T	M 37	5	52.4	32	33	OC	6	24.0'	Auriga	Best open cluster in Auriga. Some have seen it as a sprinkling of stardust.
B, T	M 35	6	8.9	24	20	OC	5.3	28.0'	Gemini	Also contains the compact open cluster NGC 2158
B, T	NGC 2232	6	27	-4	45	OC	3.9	30.0'	Monoceros	Contains the 5th magnitude star 10 Monocerotis
B, T	NGC 2244	6	31.9	4	56	OC	4.8	24	Monoceros	in Rosette Nebula

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		Hrs	Min	Deg	Min					
T	NGC 2264	6	41	9	54	DfN, OC	4.5	20'	Monoceros	Cone Nebula, Christmas Tree Cluster
B, T	M 41	6	47	-20	-44	OC	4.5	38.0'	Canis Major	First spotted by Aristotle in 325 BC
B, T	M 50	7	3.2	-8	-20	OC	5.9	16.0'	Monoceros	
B	Collinder 140	7	25	-31	52	OC	3.5	60'	Canis Major	
B, T	M 46	7	41.8	-14	49	OC	6.1	27.0'	Puppis	includes Planetary Nebula NGC 2438
B	NGC 2451	7	45	-37	58	OC	2.8	50'	Puppis	Two open clusters in the same line of sight
B, T	NGC 2477	7	52.3	-38	-33	OC	5.8	27	Puppis	An unresolved smudge in small binoculars about the apparent size of the full moon.
B, T	NGC 2516	7	58	-60	53	OC	3.8	30'	Carina	
B	NGC 2546	8	12.4	-37.6		OC	6.3	41'	Puppis	
B, T	M 48	8	13.8	-5	-48	OC	5.5	54.0'	Hydra	
N, B	M 44	8	40.1	19	59	OC	3.7	95.0'	Cancer	Beehive Cluster. Can be glimpsed with the unaided eye.
B, T	IC 2391	8	40.2	-53	-4	OC	2.5	50'	Vela	o (Omicron) Vela Cluster. Can be glimpsed by the unaided eye.
B, T	NGC 2669	8	46	-52	57	OC	6.1	20'	Vela	The larger cluster IC 2391 lies just to its west.
B, T	M 67	8	51.4	11	49	OC	6.1	30.0'	Cancer	
T	NGC 2867	9	21.4	-58	-19	PN	10	12"	Carina	
T	M 81, M 82	9	55.6	69	4	Gal pair	6.9, 8.4	27' x 14' 11' x 4'	Ursa Major	Both galaxies fit in the same low power field of view
B	NGC 3114	10	2.7	-60	7	OC	4.2	35'	Carina	One of the best open clusters for small telescope
T	NGC 3132	10	7.7	-40	26	PN	9.9	62' x 43'	Vela	One of the brightest planetary nebula. Reminiscent of the Ring Nebula, M57.
T	NGC 3195	10	9.5	-80	-52	PN	11.6	40" x 35"	Chamaeleon	
T	NGC 3201	10	17.6	-46	-25	GC	8.2	18	Vela	Loose globular cluster
T	NGC 3242	10	24.8	-18	38	PN	8.6	25"	Hydra	Ghost of Jupiter
B	IC 2602	10	43	-64	24	OC	2.7	55'	Carina	Large, bright open cluster; Southern Pleiades

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		Hrs	Min	Deg	Min					
N, B, T	NGC 3372	10	43.8	-59	-52	BN	1	120' x 120'	Carina	Spectacular! Eta Carinae Nebula
B, T	NGC 3532	11	5.5	-58	44	OC	3	55	Carina	One of the best open clusters in the sky.
T	NGC 3621	11	18.3	-32	49	Gal	9.9	10' x 7'	Hydra	
B, T	NGC 3766	11	36.1	-61	-37	OC	5.3	12	Centaurus	In a superb area for binocular sweeping
B, T	IC 2944	11	36.6	-63	-2	DfN, OC	4.5	15'	Centaurus	Lambda Centaurus Cluster
N, B	Mel 111	12	23	25	51	OC	1.8	275'	Coma Berenices	Coma Berenices Open Cluster
T	NGC 4372	12	25.8	-72	-40	GC	7.8	19	Musca	
T	M 104	12	39.9	-11	-37	Gal	9	9' X 4'	Virgo	Sombrero Galaxy. Brightest galaxy in the Virgo Cluster
T	NGC 4609	12	42.3	-62	-58	OC	7	5	Crux	
T	M 94	12	50.9	41	8	Gal	9	11' X 9'	Canes Venatici	
B, T	NGC 4755	12	53.6	-60	-20	OC	4.2	10'	Crux	Jewel Box Cluster
T	M 64	12	56.7	21	41	Gal	9.4	11' X 5'	Coma Berenices	Black Eye Galaxy
B, T	NGC 4833	12	59.6	-70	-53	GC	7.8	14	Musca	
T	M 84	12	25.1	12	53	Gal	10	5' x 4'	Virgo	Many NGC galaxies in the region
T	M 86	12	26.2	12	57	Gal	9.80	9' x 6'	Virgo	
T	M 87	12	30.8	12	24	Gal	9.60	7.2' x 6.8'	Virgo	The heart of the Virgo cluster of galaxies
B, T	NGC 4945	13	5.4	-49	-28	Gal	9.3	20 x 4	Centaurus	
B, T	NGC 5128	13	25.5	-43	-1	Gal	6.8	26 x 20	Centaurus	Centaurus A, strangely shaped elliptical galaxy
N, B, T	NGC 5139	13	26.8	-47	-29	GC	3.9	36'	Centaurus	Best globular cluster; Omega Centauri
T	M 51	13	29.9	47	11	Gal	8.4	11' X 7'	Canes Venatici	Whirlpool Galaxy
B, T	M 83	13	37.1	-29	-52	Gal	7.5	13' X 11'	Hydra	Southern Pinwheel Galaxy
B, T	M 3	13	42.2	28	23	GC	6.4	18.0'	Canes Venatici	
T	NGC 5286	13	46.4	-51	-22	GC	7.6	9	Centaurus	
B, T	NGC 5823	15	5.7	-55	-36	OC	7.9	10	Circinus	
B, T	M 5	15	18.6	2	5	GC	6.6	23.0'	Serpens	Large, bright globular cluster