

Trun Left at Orion

October-December Objects

Name	Constellation	Object Type	Magnitudes	Double Star Separation	Dob	small	binocs	sky	magnification	Right Ascension	Declination	notes	page	additional description
M15	Pegasus	Globular Cluster	6.3	18'	3	3	1	dark	medium	21 H 30 min.	12° 10'	bright globular in Pegasus	164	globular cluster; intermediate rich concentration
51 Pegasi	Pegasus	Exoplanets	5.4		1	1	1	any	low	22 H 57.5 min.	20° 46'	the first exoplanet star	165	nothing much to see - but the first star known to have extrasolar planets
M2	Aquarius	Globular Cluster	6.8	16'	3	2	1	dark	medium	21 H 33.5 min.	0° 50'	bright globular in Aquarius	166	globular cluster; dense central concentration
NGC 7009	Aquarius	Planetary Nebula	8	0.5'	3	2	x	dark	high	21 H 4.2 min.	-11° 22"	'Saturn' planetary nebula,near M72	168	planetary nebula
M72	Aquarius	Globular Cluster	9.2	6'	2	1	1	dark	medium	20 H 53.5 min.	-12° 32'	globular in Aquarius, near NGC 7009	168	globular cluster
M30	Capricornus	Globular Cluster	6.9	12'	2	1	1	dark	medium	21 H 40.4 min.	-23° 11'	globular in Capricornus	170	globular cluster; intermediate concentration
NGC 7293	Aquarius	Planetary Nebula	7.3	17'	3	1	x	dark	medium	22 H 29.6 min.	-20° 50"	the large Helix planetary, in Aquarius	172	wonderful, huge planetary nebula (the Helix Nebula)
KV Aquarii	Aquarius	Double Star	7.1, 8.0	6.9"	1	1	x	steady	medium	22 H 25.7 min.	-20° 14"	double star near the Helix nebula	173	dim double star with a vary dim, very distant third companion
NGC 288	Sculptor	Globular Cluster	8.1	13'	2	1	x	dark	medium	0 H 52.8 min.	-26° 35'	globular in Sculptor, near NGC 253	174	globular cluster; a lumpy, grainy, nearly uniform ball of light
NGC 247	Cetus	Galaxy	8.9	19.2' by 5.5', NNE-SSW	1	x	x	dark	medium	0 H 47.1 min.	-20° 46'	challenging galaxy in Cetus	174	spiral galaxy; less prominent than NGC 253
NGC 253	Sculptor	Galaxy	7.3	29' by 6.8', NE-SE	3	1	1	dark	medium	0 H 47.5 min.	-25° 17'	the 'Sculptor Galaxy'	174	spiral galaxy; an elongate slash of light
M110	Andromeda	Galaxy	8.4	11' by 19', N-S	2	1	x	dark	low	0 H 40.3 min.	41° 41'	companion galaxy to M31	176	elliptical galaxy; irregularly shaped dimmer companion to M31
M31	Andromeda	Galaxy	3.5	60' by 185', NE-SE	4	4	4	dark	low	0 H 42.7 min.	41° 16'	The Great Andromeda Galaxy	176	the great Andromeda spiral galaxy - an awesome sight in all telescopes
M32	Andromeda	Galaxy	8.1	6' by 8', N-S	2	2	1	dark	low	0 H 42.7 min.	40° 52'	bright companion galaxy to M31	176	elliptical galaxy; small, bright companion to M31
NGC 752	Andromeda	Open Cluster	5.7	75'	1	1	2	any	lowest	1 H 57.8 min.	37° 41'	large open cluster in Andromeda	178	open cluster; moderately rich with small brightness range and strong central concentration
M33	Triangulum	Galaxy	5.5	40' by 65', NNE-SSW	3	3	3	dark	low	1 H 33.9 min.	30° 39'	Triangulum Galaxy	178	great Tringulum spiral galaxy; invisible in beight skies, but delightful in dark skies
NGC 604	Triangulum	Nebula	12	1.9'	1	x	x	dark	medium	1 H 34.5 min.	30° 47"	star-forming region inside M33	179	star-forming region in one of the arms of the Triangulum Galaxy, M33
Gamma Arietis, Mesarthim	Aries	Double Star	4.5, 4.6	7.5"	3	3	x	steady	high	1 H 53.4 min.	19° 18'	'cats-eyes' double star in Aries	180	no color, but still a stunning pair of equal stars in any size telescope
56 Andromedae	Andromeda	Double Star	5.6, 6.1	201"	1	1	3	steady	high	1 H 56.2 min.	37° 15'	wide double star in Andromeda	180	super-wide pair near NGC 752; not physically associated, but one has a dim, true companion
Lambda Arietis	Aries	Double Star	4.8, 6.7	37"	2	2	x	steady	high	1 H 58 min.	23° 36'	double star in Aries	180	wide yellow-blue pair
Gamma Andromedae, Almac	Andromeda	Double Star	2.3, 5.0	9.8"	3	3	x	steady	high	2 H 3.9 min.	42° 20'	bright double star in Andromeda	180	pretty; very bright yellow star with bright blue companion
59 Andromedae	Andromeda	Double Star	6.1, 6.7	17"	1	1	2	steady	high	2 H 10.9 min.	39° 3'	double star in Andromeda	180	pair of blue stars
Iota Trianguli	Triangulum	Double Star	5.3, 6.7	3.7"	2	1	x	steady	high	2 H 12.4 min.	30° 18'	double star in Triangulum	180	close yellow-blue pair
1 Arietis	Aries	Double Star	6.3, 7.2	2.9"	1	x	x	steady	high	1 H 53.4 min.	22° 17'	double star in Aries	181	faint, close pair near Lambda Arietis
Upsilon Andromedae	Andromeda	Exoplanets	4.2		1	1	1	any	low	1 H 36.8 min.	41° 24'	exoplanet star	181	nearby, roughly sun-like star with interesting set of large planets, one in the habitable zone
M34	Perseus	Open Cluster	5.2	25'	2	2	1	any	low	2 H 42 min.	42° 47'	open cluster in Perseus	182	open cluster; moderately rich with large brightness range and strong central concentration
HJ 1123	Perseus	Double Star	8.4, 8.5	20"	1	1	x	steady	medium	2 H 41.9 min.	42° 47'	double star in M34	183	the most unequal of three nice doubles we list within M34
Otto Struve 44	Perseus	Double Star	8.3, 9.0	1.4"	1	x	x	steady	high	2 H 42.2 min.	42° 41'	Dob challenge double star in M34	183	the most challenging of three nice doubles we list within M35
HJ 2155	Perseus	Double Star	8.3, 10.3	17"	2	x	x	steady	medium	2 H 48.8 min.	42° 49'	double star in M34	183	the brightest, easiest, and most equal of three nice doubles we list within M36
Rho Persei	Perseus	Variable Star	3.3-4.0; 50 days		1	1	2	any	low	3 H 5.2 min.	38° 51'	variable star in Perseus	183	red giant variable star near Algol, ranging from equal to Kappa Persei to half as bright
Beta Persei, Algol	Perseus	Variable Star	2.12-3.39; 2 days, 20.8 hours		1	1	2	any	low	3 H 8.2 min.	40° 57'	Algol, famous eclipsing variable star	183	the 'demon star'; normally almost a match for Mirfak, in eclipse it's dimmer than Delta Persei