

Turn Left on Orion														
All Objects														
Name	Constellation	Object Type	Magnitudes	Double Star Separation	Dob	small	binocs	Rating	For Best View:	Coordinates	notes	page	Season	
									sky	magnification	Right Ascension	Declination	additional description	
Stuve 3053	Cassiopeia	Double Star	6.0, 7.3	15"	3	2	x	any	medium	0 H 24.6 min.	66° 6'		orange blue pair	
NGC 104, 47 Tucanae	Tucana	Globular Cluster	4	50'	4	4	x	any	medium	0 H 24.1 min.	-62° 58'		utterly awesome globular cluster; strong inner core of stars and well-resolved outer regions	
NGC 129	Cassiopeia	Open Cluster	6.5	12"	1	1	1	any	low	0 H 29.6 min.	60° 14'		open cluster; poor with medium brightness range	
Beta Tucanae	Andromeda	Double Star	8.4, 4.5	27"	2	3	2	any	low	0 H 31.5 min.	-62° 38'		bright, wide, equal double with very distant naked-eye third component	
M110	Andromeda	Galaxy		11" by 10", N-S	2	1	x	dark	low	0 H 40.3 min.	41° 41'		elliptical galaxy; irregularly shaped dimmer companion to M31	
NGC 220	Tucana	Open Cluster	12.4	0.8"	1	x	x	dark	medium	0 H 40.5 min.	-73° 24'		open cluster in the SMC	
NGC 222	Tucana	Open Cluster	12.2	0.6"	1	x	x	dark	medium	0 H 40.7 min.	-73° 23'		open cluster in the SMC	
NGC 231	Tucana	Open Cluster	12.7		1	x	x	dark	medium	0 H 41.1 min.	-73° 21'		open cluster in the SMC	
M32	Andromeda	Galaxy	8.1	6" by 8", N-S	2	2	1	dark	low	0 H 42.7 min.	40° 52'		elliptical galaxy; small, bright companion to M31	
M31	Andromeda	Galaxy	3.5	60" by 185", NE-SE	4	4	4	any	low	0 H 42.7 min.	41° 16'		the great Andromeda spiral galaxy - an awesome sight in all telescopes	
NGC 225	Cassiopeia	Open Cluster	7	15"	1	2	1	any	low	0 H 43.4 min.	61° 47'		open cluster; poor with small brightness range and strong central concentration	
NGC 249	Tucana	Diffuse Nebula			1	1	x	dark	medium	0 H 45.5 min.	-73° 5'		nebula in the SMC	
NGC 261	Tucana	Diffuse Nebula		0.6"	1	1	x	dark	medium	0 H 46.5 min.	-73° 6'		nebula in the SMC	
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	
NGC 265	Tucana	Open Cluster	12.2	1"	1	x	x	dark	medium	0 H 47.2 min.	-73° 29'		open cluster in the SMC	
NGC 253	Sculptor	Galaxy		29" by 6.8", NE-SE	3	1	1	dark	medium	0 H 47.5 min.	-25° 17'		spiral galaxy; an elongate slash of light	
NGC 188	Cepheus	Open Cluster	8.1	15"	2	x	x	dark	low	0 H 47.5 min.	60° 15'		dim but nifty ancient open cluster near Polaris	
Eta Cassiopeiae	Cassiopeia	Double Star	3.4, 7.4	13"	3	2	x	any	medium	0 H 48 min.	57° 49'		colorful double star in Cassiopeia	
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	
NGC 281	Cassiopeia	Nebula		12"	1	x	x	dark	low	0 H 52.8 min.	56° 36'		Picman Nebula	
Burnham 1	Cassiopeia	Double Star	8.6, 9.3, 8.8, 9.7	31", 11", 37", 8.5"	3	1	x	any	high	0 H 52.8 min.	56° 36'		faint quadruple star; invisible in bright skies, but delightful in dark skies	
Small Magellanic Cloud	Tucana	Galaxy		2.3" by 3.5"	4	4	3	dark	low	0 H 53.5 min.	-72° 50'		large irregular galaxy in one of the arms of the Triangulum Galaxy, M33	
NGC 330	Tucana	Open Cluster	9.6	1.4"	2	1	x	dark	medium	0 H 56.3 min.	-72° 28'		open cluster in the SMC	
NGC 346	Tucana	Diffuse Nebula	10.3		3	3	2	dark	medium	0 H 59.1 min.	-72° 11'		cluster and nebula in the SMC	
NGC 362	Tucana	Globular Cluster	6.8	14"	3	3	2	any	medium	1 H 3.2 min.	-70° 51'		bright globular cluster	
NGC 371	Tucana	Open Cluster		7"	3	2	1	dark	medium	1 H 3.4 min.	-72° 4'		open cluster in the SMC	
NGC 376	Tucana	Open Cluster		1"	1	x	x	dark	medium	1 H 3.9 min.	-72° 49'		open cluster in the SMC	
NGC 395	Open Cluster		10.9	1"	1	x	x	dark	medium	1 H 4.5 min.	-72° 0'		open cluster in the SMC	
NGC 419	Tucana	Globular Cluster	11.2	2.4"	1	x	x	dark	medium	1 H 8.3 min.	-72° 53'		globular cluster in the SMC	
NGC 456	Tucana	Diffuse Nebula		1"	1	x	x	dark	medium	1 H 14.4 min.	-73° 17'		nebula & open cluster	
NGC 460	Tucana	Open Cluster	12.5	1"	2	x	x	dark	medium	1 H 14.6 min.	-73° 17'		open cluster and emission nebula	
NGC 458	Tucana	Open Cluster		1.5"	2	x	x	dark	medium	1 H 14.9 min.	-71° 33'		open cluster in the SMC	
NGC 436	Cassiopeia	Open Cluster	8.8	5"	1	1	x	any	low	1 H 15.5 min.	58° 49'		dim little open cluster; moderately rich with large brightness range	
NGC 465	Andromeda	Open Cluster		2"	2	x	x	dark	medium	1 H 15.7 min.	57° 19'		open cluster in the SMC	
Kappa Tucanae	Tucana	Double Star	5.0, 7.7, 7.8, 8.4	5.0", 219", 320"	3	2	1	steadily	high	1 H 15.8 min.	-68° 53'		multiple star: 2 (in binocs), 4 (in Dob)	
NGC 457	Cassiopeia	Open Cluster	6.4	20"	3	2	1	any	low	1 H 19 min.	58° 20'		wonderful open cluster; rich with large brightness range	
Stuve 131	Cassiopeia	Double Star	7.3, 9.9	14"	1	1	x	any	high	1 H 33.2 min.	60° 41'		double star in M103	
M103	Cassiopeia	Open Cluster	8.4	6"	2	1	x	any	low	1 H 33.2 min.	60° 42'		open cluster in Cassiopeia	
M33	Triangulum	Galaxy	5.5	40' by 65', NNE-SSW	3	3	3	dark	low	1 H 33.9 min.	30° 39'		great Triangulum spiral galaxy; invisible in bright skies, but delightful in dark skies	
NGC 604	Triangulum	Nebula	4.8	1.9"	1	1	x	dark	medium	1 H 34.5 min.	30° 37'		star-forming region inside M33	
Upsilon Andromedae	Andromeda	Exoplanets			1	1	1	any	low	1 H 36.8 min.	41° 24'		exploded star	
NGC 637	Cassiopeia	Open Cluster	8.2	3"	2	1	x	any	medium	1 H 41.8 min.	64° 2'		open cluster in Cassiopeia	
NGC 654	Cassiopeia	Open Cluster	6.5	6"	1	1	x	any	medium	1 H 43.9 min.	61° 54'		dim little open cluster in Cassiopeia	
NGC 659	Cassiopeia	Open Cluster	7.9		6	2	1	x	any	medium	1 H 44.2 min.	60° 43'		dim little open cluster near NGC 664
NGC 663	Cassiopeia	Open Cluster		15"	3	3	1	any	medium	1 H 46 min.	61° 16'		pretty little open cluster; moderately rich with medium brightness range	
Stuve 153	Perseus	Double Star	9.4, 10.4	7.7"	1	1	x	any	high	1 H 46.5 min.	61° 16'		double star near NGC 663	
Stuve 163	Cassiopeia	Double Star	6.8, 9.1, 10.7	34", 114"	2	1	x	any	low	1 H 51.2 min.	64° 51'		triple star in Cassiopeia	
Gamma Arietis, Mesartim	Aries	Double Star	4.5, 4.6	7.5"	3	3	x	steadily	high	1 H 53.4 min.	19° 18'		on orange, but still a stunning pair of equal stars in any size telescope	
1 Arietis	Aries	Double Star	6.3, 7.2	2.9"	1	x	x	steadily	high	1 H 53.4 min.	22° 17'		faint, close pair near Lambda Arietis	
56 Andromedae	Andromeda	Double Star	5.6, 6.1	201"	1	1	3	steadily	high	1 H 56.2 min.	37° 15'		super-wide pair near NGC 752; not physically associated, but one has a dim, true companion	
NGC 752	Andromeda	Open Cluster	6.7		1	1	2	any	lowest	1 H 57.8 min.	37° 41'		large open cluster in Andromeda	
Lambda Arietis	Aries	Double Star	4.8, 6.1	39"	2	2	x	steadily	high	2 H 29.9 min.	23° 36'		open cluster; moderately rich with small brightness range and strong central concentration	
Gamma Andromedae, Almac	Andromeda	Double Star	4.3, 23.0	9.8"	3	3	x	steadily	high	2 H 3.3 min.	42° 20'		open cluster in Andromeda	
59 Andromedae	Andromeda	Double Star	6.1, 6.7	17"	1	1	2	steadily	high	2 H 10.9 min.	39° 3'		double star in Andromeda	
Iota Trianguli	Triangulum	Open Cluster	5.3, 6.7	3.7"	2	x	x	steadily	high	2 H 12.4 min.	30° 18'		close yellow-blue pair	
NGC 869	Perseus	Open Cluster	5.3	18"	2	4	2	any	low	2 H 19.3 min.	57° 9'		western half of the Double Cluster	
NGC 884	Perseus	Open Cluster	6.1		1	2	4	any	low	2 H 22.4 min.	57° 7'		eastern half of the Double Cluster	
Iota Cassiopeiae	Cassiopeia	Double Star	4.6, 8.6, 9.1	2.97", 0"	3	1	x	steadily	high	2 H 29.9 min.	67° 24'		double star in Cassiopeia	
Alpha Ursa Minoris, Polaris	Ursa Minor	Double Star	2.1, 9.1		1	1	x	steadily	high	2 H 31.8 min.	89° 16'		Polaris - a wide, unequal double	
UJ 1123	Perseus	Double Star	8.4, 8.5	20"	1	1	x	steadily	medium	2 H 41.9 min.	42° 47'		double star in M34	
M34	Perseus	Open Cluster	5.2	25"	2	2	1	any	low	2 H 42 min.	42° 47'		open cluster in Perseus	
Otto Stuve 44	Perseus	Double Star	8.3, 9.0	1.4"	1	x	x	steadily	high	2 H 42.2 min.	42° 41'		Dob challenge double star in M34	
UJ 2155	Perseus	Double Star	8.3, 10.3	17"	2	x	x	steadily	medium	2 H 48.8 min.	42° 49'		double star in M34	
RZ Cassiopeiae	Cassiopeia	Double Star	6.19-7.21, 1 day, 4.7 hours		2	1	x	steadily	medium	2 H 48.8 min.	42° 49'		drumstick eclipsing variable star	
Eta Persei	Perseus	Double Star	3.6, 8.5	29"	1	1	x	any	medium	2 H 50.7 min.	55° 54'		double star near the Double Cluster	
RZ Cassiopeiae	Cassiopeia	Variable Star	5.7-6.16, 1 day, 22.8 hours		1	1	1	any	low	2 H 51.9 min.	68° 53'		Cepheid variable star	
Siu Persei	Perseus	Variable Star	3.3-4.0, 50 days		1	1	2	any	low	3 H 5.2 min.	38° 51'		variable star near Perseus	
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	
M45	Taurus	Open Cluster	1.6	120"	3	3	4	any	lowest	3 H 46.9 min.	24° 7'		the Pleiades (Seven Sisters)	
NGC 1535	Eridanus	Planetary Nebula			2	1	x	dark	high	4 H 14.3 min.	-12° 44'		planetary nebula in Eridanus	
36 Eridani	Eridanus	Double Star	5.0, 8.5	6.5"	2	1	x	dark	high	4 H 14.4 min.	-12° 44'		double star near NGC 1535	
Orioncr 2 & Erdani, Keid	Eridanus	Double Star	4.5, 10.2, 11.5	83", 7"	2	1	x	steadily	high	4 H 15.3 min.	-67° 39'		Sprock's Vulcan's & a white dwarf	
NGC 1711	Mensa	Open Cluster	10.1	2.4"	2	1	x	dark	low	4 H 50.6 min.	-69° 59'		open cluster in the LMC	
NGC 1727	Dorado	Open Cluster	11.1		1	x	x	dark	low	4 H 52.3 min.	-69° 21'		open cluster in the LMC	
NGC 1743	Dorado	Diffuse Nebula			2	1	x	dark	low	4 H 54.1 min.	-69° 12'		diffuse nebula in the LMC	
NGC 1755	Dorado	Open Cluster	9.9	2.6"	1	1	x	dark	low	4 H 55.2 min.	-69° 12'		open cluster in the LMC	
NGC 1786	Globular Cluster		9.9	1.6"	1	x	x	dark	low	4 H 56.1 min.	-67° 45'		globular cluster in the LMC	
Omega Aurigae	Auriga	Double Star	5.0, 8.2	4.8"	2	1	x	steadily	high	4 H 59.3 min.	37° 53'		double star near M36-37-38	
NGC 1837	Mensa	Diffuse Nebula	10.6	1.3"	1	x	x	dark	low	5 H 4.8 min.	-70° 43'		diffuse nebula in the LMC	
NGC 1835	Dorado	Globular Cluster	10.8	1.2"	1	x	x	dark	low	5 H 5.1 min.	-69° 24'		globular cluster in the LMC	
NGC 1845	Mensa	Open Cluster	10.2	20"	1	1	x	dark	low	5 H 5.7 min.	-70° 35'		open cluster in the LMC	
NGC 1847	Dorado	Open Cluster	11.1	1"	1	x	x	dark	low	5 H 7.1 min.	-69° 58'		open cluster in the LMC	
NGC 1850	Open Cluster		9	3.4"	2	1	x	dark	low	5 H 8.7 min.	-68° 46'		open cluster in the LMC	
NGC 1854	Dorado	Open Cluster	10.4	0.7"	1	x	x	dark	low	5 H 9.3 min.	-68° 51'		open cluster in the LMC	
NGC 1856	Dorado	Open Cluster	10.1	1.8"	1	x	x	dark	low	5 H 9.5 min.	-69° 8'		open cluster in the LMC	
NGC 1858	Dorado	Diffuse Nebula	9.9	4"	1	x	x	dark	low	5 H 9.9 min.	-68° 54'		diffuse nebula in the LMC	
NGC 1872	Dorado	Open Cluster		1"	1	x	x	dark	low	5 H 13.2 min.	-69° 19'		open cluster in the LMC	
NGC 1874	Dorado	Diffuse Nebula		1"	2	x	x	dark	low	5 H 13.2 min.	-69° 23'		diffuse nebula in the LMC	
NGC 1876	Open Cluster		11.9		1	x	x	dark	low	5 H 13.3 min.	-69° 22'		open cluster in the LMC	
NGC 1877	Dorado	Open Cluster		1"	1	x	x	dark	low	5 H 13.6 min.	-69° 23'		open cluster in the LMC	
Beta Orionis, Rigel	Orion	Double Star	0.3, 6.8	9.3"	3	x	x	steadily	high	5 H 14.5 min.	-8° 12'		one of the Orion Dob challenges due to the huge brightness difference	
14 Aurigae	Auriga	Double Star	5, 9, 8, 8	10", 14", 2"	2	1	x	steadily	high	5 H 15.4 min.	32° 41'		multiple star near M36 & M38	
NGC 1901	Dorado	Open Cluster		30"	3	1	x	dark	low	5 H 18.2 min.	-68° 27'		open cluster in the LMC	
NGC 1910	Dorado	Open Cluster	11.2		3	2	1	dark	low	5 H 18.6 min.	-69° 14'		open cluster in the LMC	
Large Magellanic Cloud	Galaxy			10" by 8"	1	x	x	dark	low	5 H 20.4 min.	-69° 0'		The LMC (Large Magellanic Cloud)	
NGC 1934	Dorado	Diffuse Nebula		4" by 2", E-W	1	x	x	dark	low	5 H 21.3 min.	-67° 58'		diffuse nebula in the LMC	
NGC 1935	Dorado	Diffuse Nebula		0.5"	1	x	x	dark	low	5 H 21.9 min.	-67° 58'		diffuse nebula in the LMC	
NGC 1936	Dorado	Diffuse Nebula		0.5"	2	x	x	dark	low	5 H 22.1 min.	-67° 59'		diffuse nebula in the LMC	
h 3752	Lepus	Double Star	5.4, 6.6	3.4"	1	1	x	steadily	high	5 H 22.5 min.	-24° 46'		double star near M79	
M79	Lepus	Globular Cluster	7.7	9"	2	1	x	dark	medium	5 H 24.2 min.	-24° 31'		globular in Lepus	
Eta Orionis	Orion	Double Star	3.4, 6.9											

Theta 1 Orionis	Orion	Double Star	5.2, 6.5	52"	1	1	x	steady	high	5 H 35.4 min.	-5° 28'	double star near M42	55	Jan.-Mar.	very wide, bright white-white pair	
Iota Orionis	Orion	Double Star	2.9, 7.0, 9.7	11", 49"	1	1	x	steady	medium	5 H 35.4 min.	-5° 54'	unequal triple: blue-white-white	54	Jan.-Mar.	unequal triple: blue-white-white	
NGC 2035	Dorado	Diffuse Nebula			3	2	1	x	dark	low	5 H 35.5 min.	-67° 35'	diffuse nebula in the LMC	216	South	emission nebula
M43	Dorado	Diffuse Nebula	9	15' by 20"	2	2	1	x	dark	low/medium	5 H 35.6 min.	-5° 16'	companion nebula to M42	52	Jan.-Mar.	companion nebula, nestled up near M42
NGC 2044	Dorado	Open Cluster	10.6		2	2	x	x	dark	low	5 H 36.1 min.	-69° 12'	open cluster in the LMC	216	South	open cluster
NGC 2042	Orion	Open Cluster	9.6		2	2	x	x	dark	low	5 H 36.2 min.	-69° 55'	open cluster	216	South	open cluster
Shuve 742	Taurus	Double Star	7.1, 7.5	4", 1"	2	2	x	steady	high	5 H 36.4 min.	near M2	near M2	66	Jan.-Mar.	dim yellow-blue pair just east of M1	
NGC 2055	Dorado	Open Cluster	8.6	0.6"	2	2	x	dark	low	5 H 37 min.	-69° 26'	open cluster in the LMC	216	South	open cluster	
NGC 2060	Dorado	Diffuse Nebula	9.4	2"	1	1	x	x	dark	low	5 H 37.9 min.	-69° 10'	diffuse nebula in the LMC	216	South	nebula
Shuve 761	Orion	Multiple Star	7.9, 8.4, 8.6	67", 8.7"	3	3	1	steady	high	5 H 38.6 min.	-2° 34'	triple star, with Sigma Orionis	56	Jan.-Mar.	white-white triple (double plus one) in field with Sigma Orionis	
26 Auriga	Auriga	Open Cluster	5.5, 8.4	12"	1	1	x	steady	high	5 H 38.6 min.	30° 30'	double star near M37	70	Jan.-Mar.	yellow-blue pair, between E1 Nath and M37	
Sigma Orionis	Orion	Multiple Star	3.7, 8.8, 6.6, 6.3	11", 13", 41"	4	4	4	steady	high	5 H 38.7 min.	-2° 38'	quadruple star, with Shuve 761	55	Jan.-Mar.	quadruple star, all white - in field with Shuve 761	
NGC 2070	Dorado	Diffuse Nebula		30' by 20"	4	4	4	dark	low	5 H 38.7 min.	-69° 6'	the Tarantula, great LMC	216	South	emission nebula	
NGC 2074	Dorado	Diffuse Nebula		3"	3	2	1	x	dark	low	5 H 38.9 min.	-69° 29'	diffuse nebula in the LMC	216	South	emission nebula
NGC 2077	Dorado	Diffuse Nebula		1"	1	1	x	x	dark	low	5 H 39.6 min.	-69° 40'	diffuse nebula in the LMC	216	South	emission nebula
NGC 2079	Dorado	Diffuse Nebula			2	2	x	x	dark	low	5 H 39.6 min.	-69° 47'	diffuse nebula in the LMC	216	South	emission nebula
NGC 2080	Dorado	Diffuse Nebula			1	2	2	x	dark	low	5 H 39.7 min.	-69° 39'	diffuse nebula in the LMC	216	South	emission nebula
NGC 2081	Dorado	Diffuse Nebula			5	5	2	x	dark	low	5 H 40.1 min.	-69° 24'	diffuse nebula in the LMC	216	South	open cluster and emission nebula
NGC 2086	Dorado	Diffuse Nebula			1	1	1	x	dark	low	5 H 40.2 min.	-69° 40'	diffuse nebula in the LMC	216	South	emission nebula
Zeta Orionis, Anitak	Orion	Double Star	1.9, 3.7	2.5"	3	x	x	steady	high	5 H 40.8 min.	-1° 59'	one of the Orion Dob doubles	58	Jan.-Mar.	close, blue-white pair	
NGC 2103	Mensa	Diffuse Nebula			2	1	x	x	dark	low	5 H 41.7 min.	-71° 20'	diffuse nebula in the LMC	216	South	emission nebula
NGC 2100	Dorado	Open Cluster	9.6		2	1	1	x	dark	low	5 H 42.1 min.	-69° 13'	open cluster in the LMC	216	South	open cluster
NGC 2098	Dorado	Open Cluster	10.7	1.6"	1	1	x	x	dark	low	5 H 42.5 min.	-68° 17'	open cluster in the LMC	216	South	open cluster
52 Orionis	Orion	Open Cluster	6.0, 6.9	1.1"	3	3	1	steady	high	5 H 43.8 min.	6° 27'	one of the Orion Dob doubles	59	Jan.-Mar.	very close, equal white-white pair	
NGC 2122	Mensa	Open Cluster	10.4	4"	2	1	x	dark	low	5 H 48.9 min.	-70° 4'	open cluster in the LMC	216	South	open cluster and emission nebula	
M37	Auriga	Open Cluster	5.6	15"	3	2	1	any	low	5 H 52.3 min.	32° 34'	with M30 & M38	68	Jan.-Mar.	open cluster, rich with small brightness range and strong central concentration	
NGC 2129	Gemini	Open Cluster	8.7	6"	1	1	x	x	dark	low	6 H 1.1 min.	23° 19'	with M35	73	Jan.-Mar.	open cluster, poor with large brightness range and strong central concentration
NGC 2158	Gemini	Open Cluster	8.6	5"	1	1	x	x	dark	low	6 H 1.4 min.	24° 05'	dim open cluster, in field with M35	73	Jan.-Mar.	open cluster in field with M35; a pleasant, grainy counterpart to its great neighbor
M35	Gemini	Open Cluster	5.1	25"	3	3	3	any	low	6 H 1.8 min.	24° 20'	great open cluster in Gemini	72	Jan.-Mar.	wonderful open cluster; in a Dob look for NGC 2158 nearby	
Ela Geminorum, Propus	Gemini	Open Cluster	3.5, 6.2	1.9"	3	3	3	any	low	6 H 1.9 min.	22° 30'	double star near M35	70	Jan.-Mar.	double star, with contrast	
Epsilon Monocerotis	Monoceros	Double Star	4.4, 6.4	12"	1	1	x	steady	high	6 H 23.8 min.	4° 35'	double star near the Rosette	77	Jan.-Mar.	open cluster, double brighter star looks orange and dimmer looks colorful by contrast	
NGC 2232	Monoceros	Open Cluster	4.2	45"	3	3	2	any	low	6 H 27.2 min.	-4° 45'	open cluster near Beta Monocerotis	78	Jan.-Mar.	open cluster, poor with large brightness range	
15 Geminorum	Gemini	Double Star	6.6, 8.2	25"	2	2	x	any	low	6 H 27.8 min.	20° 47'	double star near M36	73	Jan.-Mar.	wide, orange-blue pair	
Beta Monocerotis	Monoceros	Triple Star	4.6, 5.0, 5.3	7.2", 2.9"	3	3	x	steady	high	6 H 28.8 min.		triple star	78	Jan.-Mar.	appealing white-blue triple star; to get there you turn left at Orion!!	
Rosette	Monoceros	Diffuse Nebula	6	60' by 75' NW-SE	3	1	1	x	dark	low	6 H 30.3 min.	5° 3'	huge nebula surrounding NGC 2244	76	Jan.-Mar.	lovely, huge nebula for dark night, with bright open cluster inside
NGC 2244	Monoceros	Open Cluster	4.8	24"	3	2	1	any	low	7 H 16.6 min.	-23° 18'	colorful double near NGC 2362	86	Jan.-Mar.	open cluster, poor with large brightness range and strong central concentration	
Alpha Canis Majoris, Sirius	Canis Major	Double Star	-1.4, 8.5	8.4"	1	x	x	very steady	highest	6 H 45.1 min.	-16° 43'	extreme Dob binary challenge	81	Jan.-Mar.	brightest star in sky; exceptionally tough double for big Dob (second star lost deep in glare)	
M41	Canis Major	Open Cluster	4.5	35"	3	2	any	any	low	6 H 47 min.	-20° 45'	open cluster in Canis Major	82	Jan.-Mar.	open cluster, moderately rich with large brightness range and strong central concentration	
Mu Canis Majoris	Canis Major	Double Star	7.95, 3.1	3"	2	2	x	steady	highest	6 H 56.1 min.	-14° 3'	Dob binary challenge	81	Jan.-Mar.	very tough Dob double; extreme brightness contrast, yellow-blue	
Epsilon Canis Majoris, Adhar	Canis Major	Double Star	1.5, 7.5	7"	1	1	x	steady	highest	6 H 58.6 min.	-28° 58'	Dob binary challenge	87	Jan.-Mar.	Dob double	
M50	Monoceros	Open Cluster	5.9	15"	2	2	1	any	low	7 H 2.9 min.	-8° 20'	colorful open cluster in Monoceros	80	Jan.-Mar.	open cluster, moderately rich with large brightness range and strong central concentration	
Gamma Volantis	Volans	Double Star	4.4, 4.9	13"	2	2	x	steady	medium	7 H 16.7 min.	-70° 30'	easy double star in Volans	217	South	easy yellow-blue double	
Herschel 3845, Winter Abzie	Canis Major	Double Star	5.0, 5.8	26"	3	2	1	any	low	7 H 16.8 min.	-23° 18'	lowly red-orange double	86	Jan.-Mar.	lowly red-orange double	
Lambda Geminorum	Gemini	Double Star	3.8, 10.7	9.7"	1	x	x	steady	high	7 H 18.1 min.	-16° 32'	double star near Castor & NGC 2392	75	Jan.-Mar.	yellow-blue Dob double, challenging because of huge brightness difference	
NGC 2362	Canis Major	Open Cluster	3.6	10"	3	2	1	any	medium	7 H 18.7 min.	-24° 57'	open cluster in Canis Major	86	Jan.-Mar.	open cluster, poor with large brightness range and strong central concentration	
Delta Geminorum, Wasat	Gemini	Double Star	3.6, 8.2	5.6"	1	1	x	steady	high	7 H 20.1 min.	21° 59'	double star near Castor & NGC 2393	75	Jan.-Mar.	Dob challenge due to unequal brightness; brighter star is white and dimmer star is orange	
Shuve 1083	Gemini	Double Star	7.3, 8.1	6.8"	2	1	x	steady	high	7 H 25.6 min.	20° 30'	double star near Castor & NGC 2394	75	Jan.-Mar.	yellow-blue pair	
NGC 2392	Gemini	Planetary Nebula		0.9"	3	2	x	dark	high	7 H 29.2 min.	20° 55'	'Clover Face' nebula, with Castor	74	Jan.-Mar.	planetary nebula	
Shuve 1108	Gemini	Double Star	6.6, 8.2	11"	1	1	x	steady	high	7 H 30.8 min.	-15° 27'	double star near Castor & NGC 2395	75	Jan.-Mar.	yellow-blue pair	
NGC 2414	Puppis	Open Cluster	7.9	6"	1	1	x	x	dark	low	7 H 33.2 min.	-15° 27'	open cluster near M47	85	Jan.-Mar.	open cluster, moderately rich with large brightness range and strong central concentration
Alpha Geminorum, Castor	Gemini	Triple Star	1.9, 3.0, 9.8	4.8", 70"	3	2	x	steady	high	7 H 34.6 min.	31° 53'	bright multiple star, with NGC 2392	74	Jan.-Mar.	very bright, close blue pair with a very dim, distant companion	
M47	Puppis	Open Cluster	4.4	28"	3	2	2	any	low	7 H 36.6 min.	-14° 29'	bright open cluster, with M46	84	Jan.-Mar.	open cluster; loose and bright, with a dozen stars much brighter than the others	
NGC 2423	Puppis	Open Cluster	6.7	12"	1	1	x	dark	medium	7 H 37.1 min.	-13° 52'	open cluster in field with M47	85	Jan.-Mar.	open cluster, moderately rich with medium brightness range	
X Puppis	Puppis	Double Star	4.4, 4.9	9.8"	2	2	x	steady	high	7 H 38.8 min.	-26° 48'	double star near M35	89	Jan.-Mar.	cat's-eyes white-white pair	
Alpha Canis Minoris, Procyon	Canis Minor	Double Star	0.4, 10.8	4.7"	1	x	x	very steady	highest	7 H 39.3 min.	5° 17'	extreme Dob binary challenge	81	Jan.-Mar.	very challenging, with huge brightness contrast	
NGC 2438	Puppis	Planetary Nebula	10.8	1.2"	1	x	x	any	high	7 H 41.8 min.	-14° 44'	planetary in front of M46	85	Jan.-Mar.	planetary nebula	
M46	Puppis	Open Cluster	6.1	20"	3	2	1	x	dark	low	7 H 41.8 min.	-14° 49'	open cluster, with M47	84	Jan.-Mar.	open cluster; partly resolved haze of stars with planetary nebula NGC 2438 in front
Zeta Volantis	Volans	Double Star	4.0, 9.8	17"	2	1	x	steady	high	7 H 41.8 min.	-72° 36'	double star in Volans	217	South	yellow star with dim orange companion - challenging in a small scope	
M93	Puppis	Open Cluster	6.2	10"	3	3	1	any	medium	7 H 44.5 min.	-23° 52'	open cluster in Puppis	88	Jan.-Mar.	open cluster with small brightness range	
NGC 2512	Carina	Open Cluster	6.8	22"	2	3	x	any	low	7 H 58.3 min.	-60° 52'	'The Southern Breeze' open cluster	224	South	open cluster, rich with large brightness range and strong central concentration	
Epsilon Volantis	Volans	Double Star	4.4, 8.0	6.1"	2	1	x	steady	high	8 H 17.0 min.	-68° 37'	Dob double star in Volans	217	South	challenging, yellow-blue pair	
Gamma Velorum	Vela	Quadruple Star	1.9, 4.2, 8.2, 9.1	41", 62", 94"	3	2	2	any	lowest	8 H 9.5 min.	-47° 21'	wide quadruple star	222	South	wide quadruple anchored by its bright primary star	
NGC 2547	Vela	Open Cluster	4.7	25"	1	2	2	dark	lowest	8 H 10.7 min.	-49° 16'	large, sparse open cluster in Vela	222	South	open cluster; poor with medium brightness range and strong central concentration	
Zeta Canori, Tegmine	Canis	Double Star	5.3, 6.3	1.1"	2	3	x	steady	highest	8 H 12.2 min.	17° 39'	near M44 (the Beehive)	92	Apr.-Jun.	nice pair of yellow stars (a challenging triple in a Dob)	
Runkler 8	Canina	Double Star	3.6, 5.3	3.7"	2	x	x	steady	high	8 H 15.3 min.	-62° 55'	Dob double near NGC 2516	225	South	yellow-orange pair; challenging due to brightness contrast	
Kappa Geminorum	Gemini	Double Star	37, 8.2	7"	1	1	x	steady	high	7 H 17.4 min.	24° 34'	double star near Castor & NGC 2396	75	Jan.-Mar.	challenging, unequal Dob double	
24 Canori	Canis	Double Star	6.9, 7.5	6.8"	1	x	x	steady	high	8 H 26.7 min.	24° 32'	near M44 (the Beehive)	92	Apr.-Jun.	Dob challenge double	
Phi-2 Canori	Canis	Double Star	6.2, 6.2	5.2"	3	2	x	steady	high	8 H 26.8 min.	26° 56'	one of the Canis-Lep doubles	96	Apr.-Jun.	equal white pair	
h 4128	Canina	Double Star	6.8, 7.5	1.1"	2	x	x	steady	highest	8 H 39.2 min.	-60° 19'	Dob challenge double near NGC 2516	225	South	light, Dob-challenge equal pair	
12391	Vela	Open Cluster	2.6	60"	1	2	3	any	lowest	8 H 40 min.	-53° 3'	the large 'Orionion Velorum' Cluster	223	South	pleasant, loose open cluster; too sparse for a big telescope	
M44, Beehive	Canis	Open Cluster	3.1	70"	1	3	4	any	lowest	8 H 40.3 min.	19° 41'	great open cluster in Canis	92	Apr.-Jun.	visible naked eye and great in binoculars or finder, but too large for best view in telescopes	
VZ Canori	Canis	Variable Star	7:18:39; 4:28 hours		1	1	2	any	any	8 H 40.9 min.	9° 49'	variable star in Canis	94	Apr.-Jun.	dynamic variable; compare with nearby 37 Canori	
Shuve 1268	Canis	Double Star	8.3	10"	2	2	x	steady	high	8 H 44.4 min.	-28° 37'	one of the Canis-Lep doubles	96	Apr.-Jun.	dim, close white pair	
Iota Canori	Canis	Double Star	4.1, 6.0	31"	2	2	x	steady	medium	8 H 46.7 min.	28° 46'	one of the Canis-Lep doubles	96	Apr.-Jun.	wide yellow-blue pair	
Epsilon Hydraz	Hydrae	Double Star	3.5, 6.7	2.8"	2	x	x	steady	high	8 H 46.8 min.	6° 25'	double star near M67	95	Apr.-Jun.	Dob challenge double	
M67	Canis	Open Cluster	6.9	25"	3	3	2	any	low	8 H 51 min.	11° 49'	open cluster in Canis	94	Apr.-Jun.	open cluster, moderately rich with medium brightness range and strong central concentration	
53 Canori	Canis	Double Star, Exoplanets	6.2, 9.7	43"	4	3	x	steady	high	8 H 52.5 min.	28° 16'	one of the Canis-Lep doubles	97	Apr.-Jun.	wide, unequal double near Iota Canori	
57 Canori	Canis	Triple Star	6.1, 6.4	1.5"	2	1	x	steady	low/highest	8 H 54.2 min.	30° 35'	one of the Canis-Lep doubles	96	Apr.-Jun.	close, equal pair with a dimmer third companion	
NGC 2808	Globular Cluster		8.3, 10.0		any	medium		any	medium	9 H 1.0 min.	64° 32'	interesting & pretty globular cluster in Canina	96	South	delightful globular cluster; high concentration toward center	
Kappa Leonis	Leo	Double Star	4.6, 9.7	2.4"	3	1	x	steady	highest	9 H 24.7 min.	20° 11'	one of the Canis-Lep doubles	96	Apr.-Jun.	unequal, close Dob challenge	
Upsilon Caninae	Canina	Double Star	3.0, 6.0	5.0"	2	1	x	steady	high	9 H 47.1 min.	-65° 4'	challenging double in Canina	227	South	yellow-yellow pair, challenging for small telescopes	
NGC 2976	Ursa Major	Galaxy	10.1	5.9' by 2.7", NW-SE	1	x	x	dark	low	9 H 47.3 min.	67° 55'	dim galaxy near M81 & M82	201	North	dim, bright open galaxy near M81 and M82	
M81	Ursa Major	Galaxy	7	11' by 20", NNE-SSW	3	2	1	x	dark	low	9 H 55.6 min.	69° 4'	Ursa Major galaxy in pair with M82	200	North	bright, oval spiral galaxy; makes nice pair with M82
M82	Ursa Major	Galaxy	8.6	4' by 11", ENE-SSW	3	2	1	any	low	9 H 56.1 min.	69° 42'	Ursa Major galaxy in pair with M81	200	North	interesting, lumpy-looking edge-on spiral galaxy; makes nice pair with M81	
NGC 3114	Canis	Open Cluster	5.3	35"	1	2	2	any	lowest	10 H 2.0 min.	-60° 7'	open cluster, rich with large brightness range	96	Apr.-Jun.	open cluster, rich with large brightness range; see NGC 2808	
NGC 3077	Ursa Major	Galaxy	10	5"	2	x	x	dark	low	10 H 3.3 min.	68° 44'	dim galaxy near M81 & M83	201	North	dim, yellow-blue pair	
Gamma Leonis, Algeba	Leo	Double Star	24, 3.6	4.6"	3	3	x	steady	high	10 H 20 min.	19° 51'	best of the Canis-Lep doubles	96	Apr.-Jun.	bright yellow-orange pair	

NGC 4782	Virgo	Galaxy	10.1	8.7° by 1.7°, NNE-SSW	2	1	x	dark	low	12 H 52.9 min.	11° 14'	Virgo galaxy chart 1	105	Apr.-Jun.	spiral galaxy; the first you encounter in the Virgo group as you start from Vindemiatrix	
NGC 4755	Cru.	Open Cluster	4.2		3	3	3	any	medium	12 H 53.6 min.	-60° 20'	the 'Jewel Box' open cluster	236	South	open cluster; rich with large brightness range; pretty in any telescope	
Mu Crucis	Cru.	Double Star	7.93.9, 5.0	10°	1	2	x	steady	high	12 H 54.6 min.	-57° 11'	easy double in Cru.	232	South	wide, easy pair	
Stuve 1689	Virgo	Double Star	7.1, 9.1	30°	1	1	x	any	medium	12 H 55.5 min.	11° 30'	Virgo galaxy chart 1	105	Apr.-Jun.	wide, dim, unequal double en route from Vindemiatrix to the Virgo galaxies	
Alpha Cvn, Cor Caroli	Cannes Venatici	Double Star	29, 5.5	19°	2	2	x	any	medium	12 H 56 min.	38° 19'	easy, colorful double star	112	Apr.-Jun.	easy, pretty blue-yellow pair	
M64	Coma Berenices	Galaxy	8.5	RNA	2	1	x	dark	low	12 H 56.8 min.	21° 31'	Black Eye Galaxy, with M53	110	Apr.-Jun.	spiral galaxy	
Stuve 1702	Cannes Venatici	Double Star	87.4	36°	1	1	x	any	medium	12 H 56.5 min.	38° 17'	with M64 and Cor Caroli	113	Apr.-Jun.	dim, wide pair	
NGC 4833	Musca	Globular Cluster	8.4		3	2	x	any	medium	12 H 56.6 min.	-70° 52'	pretty globular, paired with NGC 4372	234	South	globular cluster; makes a nice pair with NGC 4334	
NGC 4845	Centaurus	Galaxy	8.6	19.8° by 4', NE-SE	2	x	x	dark	medium	13 H 5.4 min.	-48° 28'	rich edge-on galaxy for large 'scopes	238	South	large spiral galaxy, with low surface brightness - but a lovely sight in a Dob on a dark night	
M53	Coma Berenices	Globular Cluster	7.7	13°	3	2	1	dark	low	13 H 12.9 min.	18° 10'	with M64	110	Apr.-Jun.	globular cluster; intermediate concentration	
M63	Cannes Venatici	Galaxy	8.5	7° by 12', ESE-WSW	2	1	x	dark	low	13 H 15.8 min.	42° 2'	with M64 and Cor Caroli	113	Apr.-Jun.	spiral galaxy	
Zeta Ursae Majoris, Mizar	Ursae Major	Double Star	2.2, 3.9	14°	2	2	2	any	medium	13 H 23.9 min.	54° 56'	Mizar, a bright double - and Alcor	206	North	famous, easy, bright double star	
NGC 5128	Centaurus	Galaxy	6.6	25.7° by 20', NE-SE	3	2	1	dark	medium	13 H 25.5 min.	-43° 1'	the 'hamburger' galaxy, Centaurus A	239	South	spiral galaxy; large, with a diffuse dark band separating the 'hamburger' bars; a fun challenge	
NGC 5139	Centaurus	Globular Cluster	5.3	55°	4	4	4	any	medium	13 H 26.8 min.	-47° 29'	the greatest globular in the sky	238	South	staggeringly amazing globular cluster, outclassing all others; partially resolved even in binoculars!	
M51	Cannes Venatici	Galaxy	8.1	6° by 11', N-S	3	2	1	dark	medium	13 H 29.1 min.	47° 12'	Whirlpool Galaxy, M51	204	North	wonderful spiral galaxy, with spiral arms appearing in a Dob on a dark night	
NGC 5195	Cannes Venatici	Galaxy	9.6	5.9° by 4.6', E-W	2	1	x	dark	medium	13 H 30 min.	47° 16'	companion 'attached' to M51	204	North	dwarf galaxy 'attached' to the end of one of M51's arms - small but it appears quite bright	
Q Centauri	Centaurus	Double Star	52, 6.5	5.5°	2	1	x	steady	high	13 H 31.7 min.	-54° 17'	close double star in Centaurus	239	South	nice, close pair	
NGC 5189	Musca	Planetary Nebula	9.5	2.3°	2	1	x	dark	high	13 H 33.7 min.	-65° 58'	interesting, 'spiral' planetary	234	South	interesting planetary nebula; high X in a Dob shows to start its odd, irregular shape	
M3	Cannes Venatici	Globular Cluster	6.6	18°	3	3	1	dark	medium	13 H 42.2 min.	28° 23'	bright globular cluster	114	Apr.-Jun.	bright and pretty globular cluster; intermediate concentration	
NGC 5286	Centaurus	Globular Cluster	7.4	11°	3	2	1	dark	medium	13 H 46.4 min.	-51° 22'	globular cluster in Centaurus	239	South	globular cluster; intermediate concentration	
N Centauri	Centaurus	Double Star	52, 7.5	18°	1	1	x	steady	medium	13 H 52 min.	-52° 30'	double star in Centaurus	239	South	easy double star	
Stuve 1795	Ursae Major	Double Star	69, 9.8	8.0°	1	x	x	steady	high	13 H 59 min.	53° 6'	Dob double, near Mizar	206	North	dim Dob double	
M101	Ursae Major	Galaxy	8.4	15°	3	2	1	dark	medium	14 H 3.2 min.	54° 21'	Pinwheel galaxy	206	North	face-on spiral galaxy - on a dark night a Dob may show a hint of spiral arms	
Kappa Bootis	Bootes	Double Star	4.4, 6.6	14°	2	1	x	any	medium	14 H 13.5 min.	52° 07'	double star, near Mizar	206	North	subtly colored, easy double star near M101	
Iota Bootis	Bootes	Double Star	4.8, 7.4	39°	1	1	x	any	medium	14 H 16.2 min.	51° 12'	double star, near Mizar	206	North	wide and unimpressive double star near Iota Bootis	
Dunlop 159	Centaurus	Double Star	5.0, 7.6	8.9°	2	2	x	steady	high	14 H 22.6 min.	-56° 28'	double star in Centaurus	232	South	attractive yellow-blue pair; easy to find, making triangle with Alpha & Beta Centauri	
Alpha Centauri	Centaurus	Double Star	0.1, 1.2	8.8°	3	3	x	steady	high	14 H 38.6 min.	-60° 50'	our (double) closest neighbor system	232	South	easy, super-bright yellow-orange pair; showcase double and our celestial neighbor	
Pi Bootis	Bootes	Double Star	4.9, 5.8	5.8°	2	2	x	steady	high	14 H 40.7 min.	16° 23'	one of the Bootes doubles	116	Apr.-Jun.	yellow-blue pair	
Y Cvn, La Superba	Cannes Venatici	Carbon Star	4.86-5.88, 268 days		2	2	2	any	low	14 H 41.1 min.	13° 44'	carbon star near Cor Caroli	113	Apr.-Jun.	beautiful deep red in binoculars, finder, or any telescope	
Alpha Centauri	Centaurus	Double Star	32, 8.5	15°	2	x	x	steady	high	14 H 42.5 min.	44° 59'	colorful Dob challenge double	232	South	unequal white-red pair; not far from Alpha Centauri	
Epsilon Bootis, Izar	Bootes	Double Star	2.5, 4.9	3.0°	3	3	x	steady	high	14 H 43.5 min.	27° 31'	best of the Bootes doubles	116	Apr.-Jun.	famous, pretty yellow-blue pair	
Xi Bootis	Bootes	Double Star, Exoplanets	4.8, 7.0	6.4°	3	2	x	steady	high	14 H 51.4 min.	19° 6'	a Bootes double star, with planets	116	Apr.-Jun.	yellow star with nearby dimmer orange companion	
M5	Serpens	Globular Cluster	8.3	20°	3	3	1	dark	low	15 H 18.5 min.	21° 3'	bright globular cluster	124	Jul.-Sep.	impressive globular cluster; intermediate concentration	
Mu Bootes, Alkalurops	Bootes	Triple Star	7.943, 7.1, 7.6	109°, 2.2°	3	1	2	steady	high	15 H 24.5 min.	37° 23'	a triple star in Bootes	116	Apr.-Jun.	star with two much dimmer companions, one boringly distant, one challengingly close	
Zeta Coronae Borealis	Corona Borealis	Double Star	5.0, 5.9	6.3°	2	2	2	steady	high	15 H 30.4 min.	36° 38'	one of the 'Bootes doubles'	116	Apr.-Jun.	nice double with a yellow primary and a blue-green secondary	
Xi Lupi	Lupus	Double Star	5.1, 5.6	10°	3	3	x	steady	high	15 H 36.9 min.	-33° 58'	double star in Lupus	150	Jul.-Sep.	blue-blue pair	
Eta Lupi	Lupus	Double Star	3.4, 7.5	14°, 16°	1	1	x	steady	high	16 H 0.1 min.	27° 31'	double triple star in Lupus	150	Jul.-Sep.	unequal triple star; a much dimmer companion and a distant vastly dimmer companion	
Xi Scorpis	Scorpius	Triple Star	5.2, 4.9, 7.3	0.97, 7.9°	3	1	x	steady	high	16 H 14.4 min.	-11° 22'	multiple star, next to Stuve 1999	150	Jul.-Sep.	nice yellow-orange pair; the brighter is a close, tough Dob challenge; near Stuve 1999	
Stuve 1999	Scorpius	Double Star	7.5, 8.1	12°	1	1	x	steady	high	16 H 45.5 min.	-11° 26'	double star, next to Xi Scorpis	150	Jul.-Sep.	dim yellow pair in same field as Xi Scorpis	
Beta Scorpis, Graffias	Scorpius	Double Star	26, 4.5	12°	2	2	x	steady	high	16 H 54.4 min.	-19° 51'	bright, pretty double star in Scorpius	150	Jul.-Sep.	bright yellow-blue pair	
Nu Scorpis	Scorpius	Double Star	4.4, 5.3, 6.6, 7.2	1.3°, 41°, 42°	2	1	x	steady	high	16 H 12 min.	-19° 28'	challenging double-double	150	Jul.-Sep.	nice, very wide pair of challenging dob doubles - one challenging, the other very challenging	
Sigma Coronae Borealis	Corona Borealis	Multiple Star	5.6, 6.5	7.1°	2	2	x	steady	high	16 H 14.7 min.	33° 51'	double star near M13	121	Jul.-Sep.	lovely double	
M60	Scorpius	Globular Cluster	8.2	10°	3	3	1	dark	medium	16 H 15.1 min.	-22° 48'	globular cluster near M4	152	Jul.-Sep.	globular cluster with dense central concentration; makes star contrast with nearby M4	
M4	Scorpius	Globular Cluster	4.6	35°	3	2	1	dark	medium	16 H 23.7 min.	-26° 31'	globular cluster near Antares	152	Jul.-Sep.	big, pretty globular cluster near Antares; easy to resolve into stars	
Alpha Scorpis, Antares	Scorpius	Double Star	10, 5.4	2.6°	1	x	x	steady	high	16 H 29.4 min.	-26° 26'	difficult Dob challenge double	150	Jul.-Sep.	much dimmer companion, if visible in a big Dob it looks greenish against red Antares	
M13	Hercules	Globular Cluster	5.8	20°	4	4	3	any	medium	16 H 41.7 min.	36° 27'	best globular in the northern sky	120	Jul.-Sep.	beautiful globular cluster with intermediate concentration - awesome Dob object	
NGC 6207	Hercules	Galaxy	11.4	3° by 1.2°, NNE-SSW	2	x	x	dark	medium	16 H 43.1 min.	36° 50'	dim galaxy very near M13	121	Jul.-Sep.	spiral galaxy; a Dob challenge close to M13	
M12	Ophiuchus	Globular Cluster	8.4	16°	3	2	1	dark	medium	16 H 47.2 min.	-1° 57'	globular cluster near M10	126	Jul.-Sep.	globular cluster; looks a tad smaller, brighter and less easily resolved than its partner, M12	
M82	Oph.-Sct.	Double Star	7.2	16°	1	1	x	steady	high	16 H 5.3 min.	-22° 48'	globular in Ophiuchus, near M19	126	Jul.-Sep.	globular cluster; intermediate rich concentration; not far from M19	
RR Scorpis	Scorpius	Variable Star	5.0-12.4, 28.3 days	1.9°	1	1	x	dark	medium	16 H 56.6 min.	-30° 30'	variable star near M62	155	Jul.-Sep.	red M-type variable, ranging from just short of naked-eye to too dim for a small 'scope	
24 Ophiuchi	Ophiuchus	Double Star	63, 6.3	15°	1	x	x	steady	high	16 H 56.8 min.	-23° 9'	challenging Dob double star	150	Jul.-Sep.	extremely close, challenging equal blue pair	
M10	Ophiuchus	Globular Cluster	8.4	20°	3	2	1	dark	medium	16 H 57.1 min.	-4° 7'	globular cluster, near M12	126	Jul.-Sep.	globular cluster; looks a tad larger, dimmer and more easily resolved than its partner, M10	
M19	Ophiuchus	Globular Cluster	6.8	17°	3	2	1	dark	medium	17 H 2.6 min.	-26° 15'	globular in Ophiuchus, near M62	154	Jul.-Sep.	globular cluster; not far from M62	
Alpha Herculis, Ras Algethi	Hercules	Double (& variable) Star	35, 5.4	4.9°	3	2	x	steady	high	17 H 14.6 min.	14° 23'	colorful double star	124	Jul.-Sep.	nice red-green pair	
Beta Herculis	Hercules	Double Star	5.1, 5.1	4.9°	2	1	x	steady	high	17 H 15.5 min.	21° 35'	unequal double star in Hercules	121	Jul.-Sep.	challenging Dob double with a large brightness contrast	
36 Ophiuchi	Ophiuchus	Double Star	5.1, 5.1	4.9°	2	1	x	steady	high	17 H 15.4 min.	20° 35'	equal orange pair with somewhat dimmer companion far away	150	Jul.-Sep.	equal orange pair with somewhat dimmer companion far away	
M62	Hercules	Globular Cluster	6.5	14°	3	3	1	dark	medium	17 H 17.1 min.	43° 9'	bright globular cluster	122	Jul.-Sep.	globular cluster; intermediate rich concentration	
Omicron Ophiuchi	Ophiuchus	Double Star	52, 6.6	10°	3	3	x	steady	high	17 H 18 min.	-24° 17'	pretty double star in Ophiuchus	150	Jul.-Sep.	globular blue pair	
Rho Herculis	Hercules	Double Star	4.5, 5.4	4.0°	2	1	x	steady	highest	17 H 23.7 min.	37° 6'	double star in 'Hercules' 'keystone'	123	Jul.-Sep.	pleasant Dob double	
HD 160202	Scorpius	Flare Star	6.7, except during rare flares		1	1	1	any	low	17 H 40.0 min.	-31° 12'	flare star	158	Jul.-Sep.	normally just one of the brighter stars in M6 - but be alert for a flare!	
Nu Scorpis	Scorpius	Double Star	3.0	30°	3	3	x	dark	low	17 H 40.1 min.	-30° 13'	large bright Scorpius open cluster	152	Jul.-Sep.	open cluster; poor with medium brightness range and strong central concentration	
BM Scorpis	Scorpius	Variable Star	5.25-6.46		1	1	x	any	low	17 H 41.0 min.	-32° 13'	variable star in M6	157	Jul.-Sep.	bright orange variable star near eastern (baiting) edge of M6	
Pi Draconis	Dracon	Double Star	4.6, 5.6	30°	1	1	x	any	low	17 H 41.9 min.	72° 8'	double star in Draco	199	North	wide, easy double near NGC 6543	
M7	Scorpius	Open Cluster	8.3	75°	2	3	4	dark	low	17 H 54 min.	-34° 49'	large, bright Scorpius open cluster	156	Jul.-Sep.	open cluster; rich with medium brightness range and strong central concentration	
M23	Sagittarius	Open Cluster	5.5	25°	2	3	4	dark	low	17 H 56.9 min.	-19° 1'	open cluster near M25 in Sagittarius	144	Jul.-Sep.	open cluster; a Dob resolves gray haze into 50 stars	
NGC 6543	Draco	Planetary Nebula	8.1	3°	3	2	1	x	dark	high	17 H 58.6 min.	66° 38'	Car's Eye planetary nebula in Draco	198	North	planetary nebula with a distinctive electric-blue color
M20	Sagittarius	Diffuse Nebula	6.3	20°	2	2	x	dark	medium	18 H 0.9 min.	-22° 52'	the 'trifid' (in 3 parts) reason for the name is clear only with large apertures	146	North	the 'trifid' (in 3 parts) reason for the name is clear only with large apertures	
HN40	Sagittarius	Triple Star	7.6, 10.4, 8.7	6.1°, 11°	2	2	x	steady	high	18 H 2.3 min.	-23° 2'	multiple star inside M20	149	Jul.-Sep.	brightest star in M20; multiple, 2, 3, or 4 members depending on scope and conditions	
NGC 6530	Sagittarius	Open Cluster	4.6	15°	2	2	1	any	medium	18 H 4.7 min.	-24° 20'	open cluster enmeshed in M8	146	Jul.-Sep.	pretty open cluster, enveloped by M8	
M8	Sagittarius	Diffuse Nebula	7.7	30° by 45°	4	3	3	any	medium	18 H 4.7 min.	-24° 23'	Lagoon Nebula, engulfing NGC 6530	146	Jul.-Sep.	awesome and intricate emission nebula, enveloping open cluster NGC 6530	
M21	Sagittarius	Open Cluster	5.9	16°	2	1	x	any	medium	18 H 4.8 min.	-22° 30'	open cluster near M20	148	Jul.-Sep.	open cluster; moderately rich with large brightness range and strong central concentration	
M24	Sagittarius	Open Cluster	4.6	90°	1	2	3	any	medium	18 H 18.4 min.	-18° 26'	open cluster near M23 & M25	145	Jul.-Sep.	huge star cloud, visible to naked eye but too large to see well in a telescope	
M16	Serpens	Open Cluster	8	8°	1	1	x	any	medium	18 H 18.8 min.	-13° 47'	open cluster	147	Jul.-Sep.	open cluster	
M18	Sagittarius	Open Cluster	6.9	7°	1	1	x	dark	low	18 H 19.9 min.	-17° 9'	open cluster near M17	142	Jul.-Sep.	open cluster	
M17	Sagittarius	Diffuse Nebula	6	15° by 20°	4	3	2	dark	low	18 H 20.8 min.	-16° 11'	the Swan Nebula	142	Jul.-Sep.	beautiful nebula; the brightest parts look like a swan or a check mark, in a rich starfield	
HD 200	Pavo	Double Star	5.8, 10.5	30°	1	x	x	steady	high	18 H 23.2 min.	-61° 30'	Dob double star in Pavo	241	South	wide separation double, but the very large brightness contrast makes it a challenge	
M28	Sagittarius	Globular Cluster	6.9	13°	2	2	1	dark	medium	18 H 24.6 min.	-24° 52'	globular cluster, near M22	158	Jul.-Sep.	globular cluster; intermediate rich concentration	
Xi Pavonis	Pavo	Double Star	4.4, 4.1	3.4°	1	x	x	steady	highest	18 H 29.9 min.	-57° 31'	Dob double star in Pavo	241	South	large brightness contrast, close Dob challenge	
M25	Sagittarius	Open Cluster	4.6	25°	2	3	4	dark	low	18 H 31.7 min.	-19° 15'	open cluster near M23 in Sagittarius	144	Jul.-Sep.	open cluster; a wide sprinkling of stars, including Cepheid variable U Sagittari	
U Sagittarii	Cepheid Variable Star	2.8-7.1; 6.8 and 18 hour			1	1	1	any	medium	18 H 36.4 min.	-23° 56'	Cepheid variable in M25; at maximum, clearly the brightest in the cluster - at minimum, not	158	Jul.-Sep.	Cepheid variable in M25; at maximum, clearly the brightest in the cluster - at minimum, not	
M22	Sagittarius	Globular Cluster	5.2	30°	4	3	2	dark	medium	18 H 36.4 min.	-23° 56'	one of the best globulars in the sky	128	Jul.-Sep.	a truly wonderful and easily resolved globular cluster - among the top 4 in the sky	
Epsilon Lyrae, Double-Doubl	Lyra	Quadruple Star	52, 6.1, 5.13, 5.4	208°, 2.3°, 2.3°	4	3	2	steady	high	18 H 44.4 min.	39° 38'	the great 'double-double'	158	Jul.-Sep.	maybe the finest multiple star in the sky - two widely-separated close white pairs	
Zeta Lyrae	Lyra	Double Star	43, 5.6	44°	1	1	1	steady	low	18 H 44.8 min.	37° 36'	wide double star	128	Jul.-Sep.	very wide double - easy but not terribly interesting	
M26	Scutum	Open Cluster	8	10°	2	1	1	dark	low	18 H 45.3 min.	-9° 23'					