

	Index	Object	Right Ascension	Declination	Magnitude	Separation	Position Angle	Year
[]	1	Eta Cassiopeiae	00 ^h 49 ^m .1	+57° 49'	3.5, 7.4	13.2"	323°	2012
[]	2	65 Piscium	00 ^h 49 ^m .9	+27° 43'	6.3, 6.3	4.3"	115°	2013
[]	3	Psi 1 Piscium	01 ^h 05 ^m .6	+21° 28'	5.3, 5.4	29.7"	159°	2012
[]	4	Zeta Piscium	01 ^h 13 ^m .7	+07° 35'	5.2, 6.3	22.8"	63°	2012
[]	5	Gamma Arietis	01 ^h 53 ^m .5	+19° 18'	4.5, 4.6	7.2"	2°	2013
[]	6	Lambda Arietis	01 ^h 57 ^m .9	+23° 36'	4.8, 6.6	37.1"	48°	2012
[]	7	Alpha Piscium	02 ^h 02 ^m .0	+02° 46'	4.1, 5.2	1.7"	266°	2012
[]	8	Gamma Andromedae	02 ^h 03 ^m .9	+42° 20'	2.3, 5.0	9.4"	63°	2013
[]	9	Iota Trianguli	02 ^h 12 ^m .4	+30° 18'	5.3, 6.7	3.8"	69°	2012
[]	10	Alpha Ursa Minoris	02 ^h 31 ^m .8	+89° 16'	2.1, 9.1	18.1"	233°	2013
[]	11	Gamma Ceti	02 ^h 43 ^m .3	+03° 14'	3.5, 6.2	2.1"	298°	2012
[]	12	Eta Persei	02 ^h 50 ^m .7	+55° 54'	3.8, 8.5	31.4"	295°	2012
[]	13	Struve 331	03 ^h 00 ^m .9	+52° 21'	5.2, 6.2	11.9"	85°	2012
[]	14	32 Eridani	03 ^h 54 ^m .3	-02° 57'	4.8, 5.9	6.9"	348°	2013
[]	15	Chi Tauri	04 ^h 22 ^m .6	+25° 38'	5.4, 8.5	20.4"	24°	2012
[]	16	1 Camelopardalis	04 ^h 32 ^m .0	+53° 55'	5.8, 6.8	10.6"	308°	2012
[]	17	55 Eridani	04 ^h 43 ^m .6	-08° 48'	6.7, 6.8	9.3"	318°	2011
[]	18	Beta Orionis	05 ^h 14 ^m .5	-08° 12'	0.3, 6.8	9.3"	204°	2011
[]	19	118 Tauri	05 ^h 29 ^m .3	+25° 09'	5.8, 6.7	4.7"	209°	2012
[]	20	Delta Orionis	05 ^h 32 ^m .0	-00° 18'	2.4, 6.8	52.4"	0°	2012
[]	21	Struve 747	05 ^h 35 ^m .0	-06° 00'	4.7, 5.5	35.9"	226°	2014
[]	22	Lambda Orionis	05 ^h 35 ^m .1	+09° 56'	3.5, 5.5	4.2"	44°	2012
[]	23	Theta 1 Orionis	05 ^h 35 ^m .3	-05° 23'	6.6, 7.5, 5.1, 6.4	8.9", 12.7", 21.4"	31°, 132°, 96°	2013
[]	24	Iota Orionis	05 ^h 35 ^m .4	-05° 55'	2.8, 7.7	11.6"	141°	2012
[]	25	Theta 2 Orionis	05 ^h 35 ^m .4	-05° 25'	5.0, 6.2	52"	93°	2012
[]	26	Sigma Orionis	05 ^h 38 ^m .7	-02° 36'	3.8, 6.6, 3.8, 6.4	12.9", 41.3"	84°, 62°	2013
[]	27	Zeta Orionis	05 ^h 40 ^m .8	-01° 57'	1.9, 3.7, 9.6	2.3", 58"	167°, 10°	2013
[]	28	Gamma Leporis	05 ^h 44 ^m .5	-22° 27'	3.6, 6.3	95"	350°	2012
[]	29	Theta Aurigae	05 ^h 59 ^m .7	+37° 13'	2.6, 7.2	4.0"	305°	2009
[]	30	Epsilon Monocerotis	06 ^h 23 ^m .8	+04° 36'	4.4, 6.6	12.3"	29°	2013
[]	31	Beta Monocerotis	06 ^h 28 ^m .8	-07° 02'	4.6, 5.0, 4.6, 5.4	6.9", 9.6"	133°, 126°	2013
[]	32	12 Lyncis	06 ^h 46 ^m .2	+59° 27'	5.4, 7.0	8.5"	311°	2012
[]	33	Epsilon Canis Majoris	06 ^h 58 ^m .6	-28° 58'	1.5, 7.5	7.9"	162°	2008
[]	34	Delta Geminorum	07 ^h 20 ^m .1	+21° 59'	3.6, 8.2	5.6"	230°	2013
[]	35	19 Lyncis	07 ^h 22 ^m .9	+55° 17'	5.8, 6.7	14.7"	316°	2012
[]	36	Alpha Geminorum	07 ^h 34 ^m .6	+31° 53'	1.9, 3.0	4.6"	55°	2014
[]	37	k Puppis (HR2948) (not Kappa)	07 ^h 38 ^m .8	-26° 48'	4.4, 4.6	10.2"	317°	2009
[]	38	Zeta Cancri	08 ^h 12 ^m .2	+17° 39'	5.3, 5.9	6.3"	63°	2013
[]	39	Iota Cancri	08 ^h 46 ^m .7	+28° 46'	4.1, 6.0	31"	305°	2013
[]	40	38 Lyncis	09 ^h 18 ^m .8	+36° 48'	3.9, 6.1	2.6"	224°	2013
[]	41	Alpha Leonis	10 ^h 08 ^m .4	+11° 58'	1.4, 8.2	175.2"	307°	2012
[]	42	Gamma Leonis	10 ^h 20 ^m .0	+19° 51'	2.4, 3.6	4.6"	126°	2013
[]	43	54 Leonis	10 ^h 55 ^m .6	+24° 45'	4.5, 6.3	6.4"	113°	2013
[]	44	N Hydrae (17 Crateris)	11 ^h 32 ^m .3	-29° 16'	5.6, 5.7	9.4"	210°	2007
[]	45	Delta Corvi	12 ^h 29 ^m .9	-16° 31'	2.9, 8.5	24.6"	213°	2012
[]	46	24 Comae Berenices	12 ^h 35 ^m .1	+18° 23'	5.1, 6.3	20.1"	270°	2012
[]	47	Gamma Virginis	12 ^h 41 ^m .7	-01° 27'	3.5, 3.5	1.9"	10°	2013
[]	48	32 Camelopardalis	12 ^h 49 ^m .2	+83° 25'	5.3, 5.7	20.9"	324°	2011
[]	49	Alpha Canum Venaticorum	12 ^h 56 ^m .0	+38° 19'	2.9, 5.5	19.2"	228°	2014
[]	50	Zeta Ursa Majoris	13 ^h 23 ^m .9	+54° 56'	2.2, 3.9, 4.0	14.5", 706.1"	153°, 70°	2013
[]	51	Kappa Bootis	14 ^h 13 ^m .5	+51° 47'	4.5, 6.6	13.5"	234°	2014
[]	52	Iota Bootis	14 ^h 16 ^m .2	+51° 22'	4.8, 7.4	38.7"	32°	2014
[]	53	Pi Bootis	14 ^h 40 ^m .7	+16° 25'	4.9, 5.8	5.4"	112°	2013
[]	54	Epsilon Bootis	14 ^h 45 ^m .0	+27° 04'	2.6, 4.8	2.9"	343°	2012
[]	55	Alpha Librae	14 ^h 50 ^m .9	-16° 02'	2.7, 5.2	231.1"	314°	2012
[]	56	Xi Bootis	14 ^h 51 ^m .4	+19° 06'	4.8, 7.0	5.7"	306°	2013
[]	57	Delta Bootis	15 ^h 15 ^m .5	+33° 19'	3.6, 7.9	104.6"	78°	2012

	Index	Object	Right Ascension	Declination	Magnitude	Separation	Position Angle	Year
[]	58	Mu Bootis	15 ^h 24 ^m .5	+37° 23'	4.3, 7.1	109"	171°	2013
[]	59	Delta Serpentis	15 ^h 34 ^m .8	+10° 32'	4.2, 5.2	4.0"	172°	2013
[]	60	Zeta Corona Borealis	15 ^h 39 ^m .4	+36° 38'	5.0, 5.9	6.4"	306°	2013
[]	61	Xi Scorpii	16 ^h 04 ^m .4	-11° 22'	4.9, 7.3	7.6"	42°	2012
[]	62	Struve 1999	16 ^h 04 ^m .4	-11° 27'	7.5, 8.1	11.9"	98°	2013
[]	63	Beta Scorpii	16 ^h 05 ^m .4	-19° 48'	2.6, 4.5	13.6"	20°	2013
[]	64	Kappa Herculis	16 ^h 08 ^m .1	+17° 03'	5.1, 6.2	25.7"	11°	2013
[]	65	Nu Scorpii	16 ^h 12 ^m .0	-19° 28'	4.4, 6.6	41.4"	336°	2013
[]	66	Sigma Corona Borealis	16 ^h 14 ^m .7	+33° 52'	5.6, 6.5	7.2"	238°	2013
[]	67	16/17 Draconis	16 ^h 36 ^m .2	+52° 55'	5.4, 6.4, 5.5	3.1", 90.1"	104°, 193°	2013
[]	68	Mu Draconis	17 ^h 05 ^m .3	+54° 28'	5.7, 5.7	2.4"	5°	2013
[]	69	Alpha Herculis	17 ^h 14 ^m .6	+14° 23'	3.5, 5.4	4.8"	103°	2013
[]	70	Delta Herculis	17 ^h 15 ^m .0	+24° 50'	3.1, 8.3	12.4"	289°	2013
[]	71	36 Ophiuchi	17 ^h 15 ^m .3	-26° 36'	5.1, 5.1	4.9"	142°	2012
[]	72	Omicron Ophiuchi	17 ^h 18 ^m .0	-24° 17'	5.2, 6.6	10.0"	355°	2013
[]	73	Rho Herculis	17 ^h 23 ^m .7	+37° 09'	4.5, 5.4	4.1"	319°	2013
[]	74	Nu Draconis	17 ^h 32 ^m .2	+55° 11'	4.9, 4.9	62"	311°	2012
[]	75	Psi Draconis	17 ^h 41 ^m .9	+72° 09'	4.6, 5.6	30.0"	16°	2013
[]	76	40/41 Draconis	18 ^h 00 ^m .2	+80° 00'	5.7, 6.0	18.7"	231°	2013
[]	77	95 Herculis	18 ^h 01 ^m .5	+21° 36'	4.9, 5.2	6.2"	257°	2013
[]	78	70 Ophiuchi	18 ^h 05 ^m .5	+02° 30'	4.2, 6.2	5.9"	130°	2013
[]	79	Epsilon Lyrae	18 ^h 44 ^m .3	+39° 40'	5.2, 6.1, 5.4, 5.4	2.3", 208.7", 2.4"	346°, 172°, 78°	2013
[]	80	Zeta Lyrae	18 ^h 44 ^m .8	+37° 36'	4.3, 5.6	43.7"	150°	2013
[]	81	Beta Lyrae	18 ^h 50 ^m .1	+33° 22'	3.6, 6.7	44.8"	147°	2012
[]	82	Struve 2404	18 ^h 50 ^m .8	+10° 59'	6.9, 7.8	3.4"	181°	2013
[]	83	Otto Struve 525	18 ^h 54 ^m .9	+33° 58'	6.1, 7.6	45.2"	350°	2012
[]	84	Theta Serpentis	18 ^h 56 ^m .2	+04° 12'	4.6, 4.9	22.3"	104°	2013
[]	85	Beta Cygni	19 ^h 30 ^m .7	+27° 58'	3.2, 4.7	34.7"	55°	2012
[]	86	57 Aquilae	19 ^h 54 ^m .6	-08° 14'	5.7, 6.4	35.6"	171°	2013
[]	87	31 Cygni	20 ^h 13 ^m .6	+46° 44'	3.9, 7.0, 4.8	111", 333.8"	174°, 325°	2011
[]	88	Alpha Capricornus	20 ^h 18 ^m .1	-12° 33'	3.7, 4.3	381.2"	290°	2012
[]	89	Beta Capricornus	20 ^h 21 ^m .0	-14° 47'	3.2, 6.1	205.4"	267°	2012
[]	90	Gamma Delphinus	20 ^h 46 ^m .7	+16° 07'	4.4, 5.0	9.0"	266°	2013
[]	91	61 Cygni	21 ^h 06 ^m .9	+38° 45'	5.2, 6.1	31.5"	152°	2013
[]	92	Beta Cephei	21 ^h 28 ^m .7	+70° 34'	3.2, 8.6	14.1"	248°	2013
[]	93	Struve 2816	21 ^h 39 ^m .0	+57° 29'	5.7, 7.5, 7.5	11.8", 19.8"	120°, 338°	2012
[]	94	Epsilon Pegasi	21 ^h 44 ^m .2	+09° 52'	2.5, 8.7	145.4"	318°	2013
[]	95	Xi Cephei	22 ^h 03 ^m .8	+64° 38'	4.5, 6.4	8.1"	268°	2013
[]	96	Zeta Aquarii	22 ^h 28 ^m .8	-00° 01'	4.3, 4.5	2.3"	165°	2013
[]	97	Delta Cephei	22 ^h 29 ^m .2	+58° 25'	4.2, 6.1	40.9"	191°	2013
[]	98	8 Lacerta	22 ^h 35 ^m .9	+39° 38'	5.7, 6.3	22.4"	186°	2012
[]	99	94 Aquarii	23 ^h 19 ^m .1	-13° 28'	5.3, 7.0	12.6"	349°	2012
[]	100	Sigma Cassiopeiae	23 ^h 59 ^m .0	+55° 45'	5.0, 7.2	3"	326°	2012