StarView Visible Object	et Listing for:					
January 15, 2018	Local Time (Z-5): 21:30 Sidereal Time:	41.5 Lon:	Minimum Ci Elev: 5° / Ma Sep: 10 arcm 2 arcsec	ag: 6		
	Name	Con		Mag	Sep/Size	Elev
M31 - Andro	meda Galaxy	And	Spiral		190 arcmin	
Little Fish		Aur	Open Cluster	4.5	30x75 arcmin	80°
kappa Bootes	s - Asellus Tertius	Boo	Double Star	4.5, 6.6	13.4 arcsec	<b>9</b> °
Iota Cancri		Can	Double Star	4.2, 6.6	30.6 arcsec	40°
M44 - Beehiv	e Cluster, Praesepe	Can	Open Cluster	3.7	95 arcmin	36°
Eta Cassiopeiae - Achrid		Cas	Double Star	3.4, 7.5	13 arcsec	50°
Delta Cephei			Star	4		<b>32°</b>
145 Canis Ma	ajoris - h3945	Cma	Double Star	4.8, 6.8	27 arcsec	16°
<b>Beta Canis M</b>	<b>Iajoris - Murzim</b>	Cma	Star	2		26°
<b>Delta Canis N</b>	Majoris - Wezen	Cma	Star	1.8		14°
Eta Canis Ma	ajoris - Aludra	Cma	Star	2.4		10°
Gamma Can Muliphein	is Majoris -	Cma	Star	4.1		<b>24°</b>
M41		Cma	Open Cluster	4.5	38 arcmin	22°
Zeta Canis N	Tajoris - Phurud	Cma	Star	3.02		15°
Alpha Canur Caroli	n Venaticorum - Co	r CVn	Double Star	2.9, 5.5	19.6 arcsec	5°
Y Cvn - La S	uperba	Cvn	Star	5		12°
31 Cygni - O	micron 1	Cyg	Double Star	3.8		10°
32 Cygni - O	micron 2	Cyg	Double	3.98		11°

		Star			
M39	Cyg	Open Cluster	4.6	32 arcmin	20°
North American Nebula - Caldwell 20	Cyg	Nebula	4	100 arcmin	13°
Nu Draconis	Dra	Double Star	4.88	63.4 arcsec	<b>7</b> °
Omicron 2 Eridani - Keid, Beid, 40 Eri	Eri	Double Star	4.5. 9.9	83, 9 arcsec	40°
Alpha Geminorum - Castor	Gem	Double Star	1.9, 2.9	4, 71 arcsec	55°
M35 - Collinder 82	Gem	Open Cluster	5.3	28 arcmin	66°
M48	Hyd	Open Cluster	5.5	54 arcmin	23°
Gamma Leporis	Lep	Double Star	3.7, 6.3	96 arcsec	25°
19 Lyncis - Struve 1062	Lyn	Double Star	5.6	14.8 arcsec	61°
Beta Monocerotis	Mon	Double Star	4.7, 5.2	7.3, 10 arcsec	36°
Caldwell 50	Mon	Open Cluster	4.8	24 arcmin	46°
Christmas Tree - Cone Nebula	Mon	Nebula	3.9	20 arcmin	49°
M50	Mon	Open Cluster	5.9	16 arcmin	31°
Beta Orionis - Rigel	Ori	Double Star	0.1, 6.8	10 arcsec	40°
Delta Orinis - Mintaka	Ori	Double Star	2.2, 6.3	53 arcsec	47°
M42 - Orion Nebula	Ori	Nebula	4	65 arcmin	42°
Sigma Orionis	Ori	Double Star	4.0, 7.5,6.5	13 arcsec	44°
Theta Orionis - Trapezium	Ori	Double Star	4, 6, 8	19 arcsec	42°
Beta Perseus - Algol	Per	Double	2.1		72°

			Star				
Double Cluster - Ca Persei	r - Caldwell 14, Chi		Open Cluste		3.7, 3.8	60 arcmin	62°
M34	VI34		Open Cluste		5.5	35 arcmin	67°
M47		Pup	Open Cluste		5.2	30 arcmin	21°
Aldebaran		Tau	Star		0.87		65°
M45 - Pleiades, Sevo	en Sisters	Tau	Open Cluste		1.6	110 arcmin	69°
Theta Tauri - in Hya	ades	Tau	Doubl Star		3.4, 3.8	300 arcsec	64°
M33 - Triangulum (	Galaxy	Tri	Spira Galax		5.7	50 arcmin	50°
Zeta Ursae Majoris	- Mizar	Uma	Doubl Star	e	2.3, 4.0	14 arcsec	15°
Alpha Ursae Minoris - Polaris			Doubl Star	e	2.1, 9	18 arcsec	42°
End of Listing: 46 of 134 Stars r Developer: Bruce Bream tarrow@road							
beveroper. Brace Bream tarrow wroad	M31 - Andre	omed	a Galaxy	/ (A)	nd)		
RA: 0h 43m	Mag(v): 3.44		~		~ ~ ~	NGC: 224)	
	Size: 190 arcm					,	
Distance: 2.5M ly			Tag: Bind	ocul	ars El: 4	6° / Az: 291	0
The Andromeda galaxy (M31) is the closest galaxy to our Milky Way at							
2.5Mly away. Andro	omeda is a spira	al gal	axy that	con	tains som	e 1 trillion	
stars. It is about six							
from the city, it can	be seen withou	t a te	lescope a	is sn	nall hazy	spot in the	sky.
		le Fis	h (Aur)				
RA: 5h 18m	Mag(v): 4.5			<b>Typ</b>	e: Open	Cluster	
Dec: 33d 30m	Size: 30x75 ar	cmin					
Distance: ly				El:	80° / Az:	138°	
More than a dozen s	More than a dozen stars in this cluster.						
	kappa Bootes	- Ase	llus Terti	ius (	(Boo)		
RA: 14h 14m	Mag(v): 4.5,	6.6	Type	: Do	ouble Sta	r	
Dec: 51° 47'	Sep: 13.4 arc	esec	SP C	lass	: <b>A8IV</b>		

Distance: 155 ly		PA	a: 236° El: 9° / Az: 23°		
			ope. It's traditional name,		
Asellus Tertius is Latin for 'third donkey colt'.					
Iota Cancri (Can)					
RA: 8h 47m	Mag(v): 4.2, 6.6	Typ	e: Double Star		
Dec: 28° 46'	Sep: 30.6 arcsec	SP	Class: G8II, A3V		
Distance: 298 ly	Sep (AU): 2785	PA	: 307° El: 40° / Az: 84°		
Iota Cancri is a doub	le star consisting	of a brig	ghter yellow giant and white,		
			200 times brighter than our		
			2500 AU and takes at least		
			istance the brighter star would		
			ferred to as the "spring		
Albireo" due to the si					
	144 - Beehive Clu				
			pen Cluster (NGC: 2632)		
Dec: 19° 59' Si					
Distance: 525 ly			Low El: 36° / Az: 95°		
			ars with a total mass of over		
			en without a telescope in a		
			eks and Chinese and studied		
· ·			This cluster is estimated to be		
			luster is about 23 light years		
			re discoverd in 2012 by ground		
based telescopes. The Beehive is high over head during winter months.  Eta Cassiopeiae - Achrid (Cas)					
D 4 . 01 . 40					
RA: 0h 49m Ma		_			
Dec: 57° 49' Ser					
Distance: 19.4 ly   Sep (AU): 76   PA: 317°   Mag: 133x   El: 50° / Az: 315°					
Achrid is a binary star system in the constellation Cassiopeia that is about 20					
light years from earth. The brighter star is similar to our Sun along with a					
dimmer magnitude 7 class K dwarf star. It was discovered in 1779 by Sir					
William Herschel who also discovered the planet Uranus in 1781. He was later appointed the private astronmer to the King of England in 1782.					
Delta Cephei (Cep)					
RA: 22h 29m	Mag(v):		Type: Star		
Dec: 58° 25'	mag(v).	•	SP Class: F8, B7		
Dec. 50 25			or Class. Fo, D/		

Distance: 887 ly				El: 32° / Az: 322°	
A binary star that is also a variable star. It varies from magnitude 3.48 to					
4.37 over a 5.36 day period. The name of this star is used to describe the class					
of variable stars, Cepheid Variables, that change brightness over a regular					
time period.					
			joris - h39		
	<b>Mag(v): 4.3</b>		Type: Dou	ible Star	
	Sep: 27 arc		SP Class:	· ·	
Distance: 385 ly				/Iag: 50x El: 16° / Az: 144°	
		bireo. T	There is a b	oright orange star with a	
second white blue					
	Beta Car	nis Maj	j <mark>oris - Mu</mark> r	zim (Cma)	
RA: 6h 23m		Mag(v)		Type: Star	
Dec: -17° -57'				SP Class: B1	
Distance: 500 ly				El: 26° / Az: 154°	
Murzim is a varial	ble star vai	ying fr	om 1.95 to	2.00 over a six-hour period.	
	Delta Ca	anis Ma	ajoris - We	zen (Cma)	
<b>RA:</b> 7h 8m		Mag(v)	: 1.8	Type: Star	
Dec: -26° -24'				SP Class: F	
Distance: 1600 ly				El: 14° / Az: 147°	
				30 times the size of the sun and	
				rogen in its core. Its outer	
				in the next 100,000 years it will	
				ier elements. Once it has a core	
of iron, it will colla	_		_		
T		U	joris - Aluc		
RA: 7h 24m		Mag(v)	<u>): 2.4</u>	Type: Star	
Dec: -29° -18'				SP Class: B5	
Distance: 2000 ly				El: 10° / Az: 146°	
A blue-white supergiant that is 80 times as bright as the sun. It will eventually become a supernova in the next few million years.					
				·	
	Gamma Canis Majoris - Muliphein (Cma)				
RA: 7h 4m	N	Iag(v):	4.1	Type: Star	
Dec: -15° -38'				SP Class: B8	
Distance: 402 ly				El: 24° / Az: 143°	

A blue-white B-type bright giant star about 5 times the size of our sun.					
M41 (Cma)					
RA: 6h 46m	Mag(v)	: 4.5	Type: Open Cluster (NGC: 2287)		
Dec: -20° -44'	Size: 38 arcmin				
Distance: 2.3k ly			Mag	Lov	v El: 22° / Az: 150°
This cluster covers an area about the size of the full moon. It contains about					
_		red giants,	one o	of wh	ich is the bright star at the
center of the cluster	•				
	Zeta (	C <mark>anis Majo</mark> i	ris - P	huru	ud (Cma)
RA: 6h 20m		Mag(v): 3.0	2		Type: Star
Dec: -30° -4'					SP Class: B2
Distance: 362 ly					El: 15° / Az: 159°
		tem. The pa	ir of	stars	s has only been determined
from doppler color	shifts.				
Alpha Canum Venaticorum - Cor Caroli (CVn)					
RA: 12h 56m	Mag(	v): 2.9, 5.5	Type: Double Star		e: Double Star
Dec: 38° 19'	Sep:	19.6 arcsec	SP Class: A0, B8p to A7p		
Distance: 114 ly	Sep (	AU): 655	PA: 229° El: 5° / Az: 42°		
Cor Caroli is a favo	rite of a	amateur ast	rono	mers	. It is the brighter star of a
					small telescope even though
					slight color difference
					blue. The brighter star is 60
times brighter than our sun. Cor Caroli also varies in spectral brightness					
over a period of 5.5 days. It is believed there is a strong magnetic field that					
produces starspots of enormous extent causing the change in brightness as the stars rotate. The star was named after King Charles of England in 1660.					
Cor Caroli means "Charles Heart."					
Y Cvn - La Superba (Cvn)					
RA: 12h 45m		Mag(v):		$\overline{}$	Type: Star
Dec: 45° 26'					SP Class: C
Distance: 711 ly					El: 12° / Az: 38°
,	ar who	se brightnes	ss var		rom a magnitude of 4.8 to 6.3
over a period of 160 days. This star is a bright, red giant "carbon star" with					
a surface temperature of about 2800K. Near the end of its life, carbon					
compounds migrate	to the	outer layer	of th	e stai	r and absorb the shorter

wavelength blue light thus giving it such a red color. The radius of this star is about 2 AU which would be from our Sun to beyond the orbit of Mars.				
31 Cygni - Omicron 1 (Cyg)				
RA: 20h 14m				Type: Double Star
Dec: 46° 44'				SP Class: K4 + B4
Distance: 880 ly				El: 10° / Az: 327°
v	g bin	arv star wi		changes in brightness over a
• 0				ant with a second blue-white
star. The brightness cl				
	32	Cygni - O	micron 2	(Cyg)
RA: 20h 15m		Mag(v): 3.	98	Type: Double Star
Dec: 47° 43'				SP Class: K4 + B6
Distance: 1100 ly				El: 11° / Az: 327°
Similar to 31 Cygni, th	nis bi	nary star s	ystem ha	s a super large orange giant
with a smaller hot whi	te sta	ar in a 3.1 y	ear orbi	tal period. The larger star is
almost 2 AU in diamet	ter ar	nd takes 9 y	ears for	one rotation.
		M39	(Cyg)	
RA: 21h 32m Ma	ig(v):	4.6	Type: O	pen Cluster (NGC: 7092)
Dec: 48° 25' Siz	e: 32	arcmin		
Distance: 824 ly			Mag: Lo	w El: 20° / Az: 318°
M39 is a beautiful ope	n clu	ster with a	bout 10 k	oright blue stars that stand out
				hter stars form the corners
				rs spread out over an area
about the size of the fu				
		rs from ear	th. It is a	good view in binoculars since
it is about ½ degree across.				
				dwell 20 (Cyg)
	ig(v):		Type: No	ebula (NGC: 7000)
Dec: 44° 32' Siz	e: 10		7.5	
Distance: 1600 ly				noculars El: 13° / Az: 319°
A nebula that is more than four times the size of the full moon. It will appear				
as a foggy patch of light. It is a large interstellar cloud of ionized hydrogen				
gas. A band of interstellar dust absorbs the light to give it the rought shape of North America.				
		Nu Drac	onis (Dr	a)
RA: 17h 32m Mag(v	v): 4			,
RA: 17h 32m Mag(v): 4.88 Type: Double Star				

Dec: 55° 11' Sep	: 63.4 arcsec	SP C	Class: A6, A4		
Distance: 99 ly Sep	(AU): 1900	PA:	312° Mag: 10-50x El: 7° / Az: 353°		
A double star, with nearly equal magnitudes, and a 44,000 year rotation					
period.					
On	nicron 2 Erida	ani - I	Keid, Beid, 40 Eri (Eri)		
RA: 4h 15m	Mag(v): 4.5. 9	.9	Type: Double Star		
Dec: -7° -39'	Sep: 83, 9 arcs	sec	SP Class: K1V, DA4, M4		
Distance: 125 ly Sep (AU): 418, 45 PA: 105, 330° El: 40° / Az: 190°					
			ost easily seen white dwarf star. While		
			ense that one cubic inch would weigh		
two tons. A very din			nly 16% the mass of our Sun.		
			m - Castor (Gem)		
RA: 7h 35m Mag(					
Dec: 31° 53' Sep:					
			A: 61, 164° Mag: 50-100x El: 55° / Az:		
ly 1145		92°			
			there are three visible stars that orbit		
			ach of the two stars are also an		
			ary system is also gravitationally linked		
making this a sextuple star system.					
M35 - Collinder 82 (Gem)					
PA: 6h 0m					
RA: 6h 9m	Mag(v): 5.3		Type: Open Cluster (NGC: 2168)		
Dec: 24° 21'		ıin	Type: Open Cluster (NGC: 2168)		
Dec: 24° 21' Distance: 2800 ly	Mag(v): 5.3 Size: 28 arcm	ıin	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128°		
Dec: 24° 21' Distance: 2800 ly This open cluster is	Mag(v): 5.3 Size: 28 arcm	ıin	Type: Open Cluster (NGC: 2168)		
Dec: 24° 21' Distance: 2800 ly	Mag(v): 5.3 Size: 28 arcm next to NGC	1in 2158,	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128°  a globular cluster, and makes for a		
Dec: 24° 21' Distance: 2800 ly This open cluster is double treat.	Mag(v): 5.3 Size: 28 arcm next to NGC	1in 2158, M48	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128°  a globular cluster, and makes for a  (Hyd)		
Dec: 24° 21' Distance: 2800 ly This open cluster is double treat.  RA: 8h 14m	Mag(v): 5.3 Size: 28 arcm next to NGC Mag(v): 5.5	nin 2158, M48	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128°  a globular cluster, and makes for a		
Dec: 24° 21' Distance: 2800 ly This open cluster is double treat.  RA: 8h 14m Dec: -5° -48'	Mag(v): 5.3 Size: 28 arcm next to NGC	nin 2158, M48	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128° a globular cluster, and makes for a  (Hyd)  Type: Open Cluster (NGC: 2548)		
Dec: 24° 21' Distance: 2800 ly This open cluster is double treat.  RA: 8h 14m Dec: -5° -48' Distance: 1500 ly	Mag(v): 5.3 Size: 28 arcm next to NGC  Mag(v): 5.5 Size: 54 arcm	1in 2158, M48 1in	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128° a globular cluster, and makes for a  (Hyd)  Type: Open Cluster (NGC: 2548)  Mag: Low El: 23° / Az: 121°		
Dec: 24° 21' Distance: 2800 ly This open cluster is double treat.  RA: 8h 14m Dec: -5° -48' Distance: 1500 ly	Mag(v): 5.3 Size: 28 arcm next to NGC  Mag(v): 5.5 Size: 54 arcm as about 80 sta	1in 2158, M48 1in	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128° a globular cluster, and makes for a  (Hyd)  Type: Open Cluster (NGC: 2548)		
Dec: 24° 21' Distance: 2800 ly This open cluster is double treat.  RA: 8h 14m Dec: -5° -48' Distance: 1500 ly This open cluster ha	Mag(v): 5.3 Size: 28 arcm next to NGC  Mag(v): 5.5 Size: 54 arcm as about 80 stayears old.	nin 2158, M48 nin ars gr	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128°  a globular cluster, and makes for a  (Hyd)  Type: Open Cluster (NGC: 2548)  Mag: Low El: 23° / Az: 121°  reater than magnitude 13. This cluster		
Dec: 24° 21' Distance: 2800 ly This open cluster is double treat.  RA: 8h 14m Dec: -5° -48' Distance: 1500 ly This open cluster ha is about 300 million	Mag(v): 5.3 Size: 28 arcm next to NGC  Mag(v): 5.5 Size: 54 arcm as about 80 stayears old. Gami	nin 2158, M48 nin ars gr	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128° a globular cluster, and makes for a  (Hyd)  Type: Open Cluster (NGC: 2548)  Mag: Low El: 23° / Az: 121° reater than magnitude 13. This cluster  eporis (Lep)		
Dec: 24° 21' Distance: 2800 ly This open cluster is double treat.  RA: 8h 14m Dec: -5° -48' Distance: 1500 ly This open cluster ha is about 300 million  RA: 5h 44m Ma	Mag(v): 5.3 Size: 28 arcm next to NGC  Mag(v): 5.5 Size: 54 arcm as about 80 stayears old.	nin 2158, M48 nin ars gr ma Le	Type: Open Cluster (NGC: 2168)  Mag: Low El: 66° / Az: 128°  a globular cluster, and makes for a  (Hyd)  Type: Open Cluster (NGC: 2548)  Mag: Low El: 23° / Az: 121°  reater than magnitude 13. This cluster		

Distance: 29 ly So	ep (AU): 863	PA	A: 350° Mag: 7x El: 25° / Az: 165°		
This yellow/orange	double star has	a g	good color contrast and wide		
separation. With this star's proximity and mass of only 1.3 times the Sun's					
mass and was a primary focus of the NASA Terrestrial Plant Finder mission.					
19 Lyncis - Struve 1062 (Lyn)					
RA: 7h 23m	Mag(v): 5.6	Ty	pe: Double Star		
<b>Dec:</b> 55° 17'	Sep: 14.8 arcsec				
Distance: 468 ly		PA	A: 315° Mag: 100x El: 61° / Az: 48°		
A blue double star.					
	Beta Mor	100	cerotis (Mon)		
<b>RA:</b> 6h 29m Ma	ag(v): 4.7, 5.2	Ty	ype: Double Star		
Dec: -7° -2' Ser	o: 7.3, 10 arcsec	SI	P Class: B3Ve		
Distance: 700 Sep	(AU): 1545,	PA	A: 132, 124° Mag: 50x El: 36° / Az:		
ly 211			48°		
A triple star systen	n. The stars appe	ar	as a curved line of three pale blue stars		
	Caldw	ell	l 50 (Mon)		
RA: 6h 32m	Mag(v): 4.8	Type: Open Cluster (NGC: 2244)			
Dec: 4° 56'	Size: 24 arcmin				
Distance: 5200 ly		El: 46° / Az: 140°			
An open cluster in	the Rosette Nebu	la.	•		
	<b>Christmas Tree</b>	- (	Cone Nebula (Mon)		
RA: 6h 41m	Mag(v): 3.9	Type: Nebula (NGC: 2264)			
Dec: 9° 53'	Size: 20 arcm	in			
Distance: 2600 ly			El: 49° / Az: 133°		
A very young open	cluster with 150	m	embers		
M50 (Mon)					
<b>RA:</b> 7h 3m	Mag(v): 5.9		Type: Open Cluster (NGC: 2323)		
Dec: -8° -20'	Size: 16 arcmin				
Distance: 3200 ly	Distance: 3200 ly		El: 31° / Az: 139°		
This open cluster is about 3,200 light years from earth with a diameters of					
about 20 light years					
Beta Orionis - Rigel (Ori)					
RA: 5h 15m					
Dec: -8° -12'	ep: 10 arcsec	SP	Class: B8Ia		
Distance: 773 ly Sep (AU): 2250 PA: 202° Mag: 100x El: 40° / Az: 171°					

Rigel is a violet-blue supergiant star in the constellation Orion. At 854 light years away, it is the 7th brightest star in the Earth's sky, where it shines at an apparent visual magnitude of 0.18. Rigel is a component of a multiple-star system and an intrinsic variable star that varies between magnitudes 0.17 and 0.22 over a period of 2.07 days.

system and an intrinsic variable star that varies between magntitudes 0.17 and 0.22 over a period of 2.07 days.				
Delta Orinis - Mintaka (Ori)				
RA: 5h 32m	Mag(v): 2.2, 6.3	Type: Double Star		
Dec: 0° -18'	Sep: 53 arcsec	SP Class: O9.5II, B0.5II		
Distance: 690 ly		Mag: 10x Fl: 47º / Az: 163º		

Dec: 0°-18′ Sep: 53 arcsec SP Class: O9.511, B0.511

Distance: 690 ly Mag: 10x El: 47° / Az: 163°

This star called Mintaka means bell in Arabic. It is the rightmost of the three

belt stars in Orion. A magnitude 7 star orbits it on 5.7 day period.

M42 - Orion Nebula (Ori)

RA: 5h 35m Mag(v): 4 Type: Nebula (NGC: 1976)

Dec: -5° -27' Size: 65 arcmin

One of the brightest and most photographed nebula it is visible to the naked eye. It is a treat through binoculars or a small telescope. The Orion Nebula contains a very young open cluster, known as the Trapezium due to the asterism of its primary four stars. Two of these can be resolved into their component binary systems on nights with good seeing, giving a total of six

contains a very young open cluster, known as the Trapezium due to the asterism of its primary four stars. Two of these can be resolved into their component binary systems on nights with good seeing, giving a total of six stars. The stars of the Trapezium, along with many other stars, are still in their early years.

Sigma Orionis (Ori)

their earry years.				
Sigma Orionis (Ori)				
RA: 5h 39m	Mag(v): 4.0, 7.5,6.5	Type: Double Star		
Dec: -2° -36'	Sep: 13 arcsec	SP Class: <b>09</b> , <b>B0</b> , <b>A2</b> , <b>B2</b>		
Distance: 1148 ly	Sep (AU): 90	Mag: 50x El: 44° / Az: 161°		
Quintuple star system				
		1 (2.1)		

Quintuple star system				
Theta Orionis - Trapezium (Ori)				
RA: 5h 35m	Mag(v): 4, 6, 8	Type: Double Star		
Dec: -5° -23'	L	SP Class: B, O		
Distance: 1600	Sep (AU): 5111,	PA: 31, 132, 96° Mag: 100x El: 42° / Az:		

Dec: -5° -23' Sep: 19 arcsec SP Class: B, O

Distance: 1600 Sep (AU): 5111, PA: 31, 132, 96° Mag: 100x El: 42° / Az: 163°

These stars are in the center and illuminate the Great Orion Nebula, M42. There are more than 300 very young stars in this stellar nursery at roughly 300,000 years old. Four main stars should be visible.

Beta Perseus - Algol (Per)

<b>RA: 3h 8m</b>	<b>Mag(v): 2.1</b>			Type: Double Star	
Dec: 40° 57'				SP Class: B8V, K0	
Distance: 93 ly	Sep (AU): 0.	062		El: 72° / Az: 276°	
An eclipsing binary star dropping from magnitude 2.1 to 3.4 about every 2.8					
days.					
Double Cluster - Caldwell 14, Chi Persei (Per)					
	lag(v): 3.7, 3.8 Type: Open Cluster (NGC: 869, 884)				
Dec: 57° 8'	Size: 60 arcmin	ze: 60 arcmin SP Class: B0			
Distance: 7500 ly	Mag: Binoculars El: 62° / Az: 317°				
This open cluster has over 300 blue-white super-giant stars in each cluster.					
M34 (Per)					
RA: 2h 42m	Mag(v): 5.5		Type: Open Cluster (NGC: 1039)		
Dec: 42° 46'	Size: 35 arcmin				
Distance: 1500 ly			Mag: Low El: 67° / Az: 284°		
This loose open cluster contains about 20 brighter stars.					
M47 (Pup)					
RA: 7h 37m			Type: Open Cluster (NGC: 2422)		
Dec: -14° -30'	Size: 30 arcmin				
Distance: 1600 ly			Mag: Low El: 21° / Az: 135°		
This open cluster of about 50 stars has two bright orange giant stars that					
contrast with the other blue/white stars.					
Aldebaran (Tau)					
RA: 4h 36m	A: 4h 36m Mag(v): 0.87			Type: Star	
Dec: 16° 31'			SP Class: K5III		
Distance: 65 ly			El: 65° / Az: 185°		
This orange giant is one of the brightest stars in the night sky.					
M45 - Pleiades, Seven Sisters (Tau)					
RA: 3h 47m	Mag(v): 1.6		Type:	Open Cluster	
Dec: 24° 7'	Size: 110 arcmi	1	SP Cla	iss: B	
Distance: 444 ly			Mag: Eyes El: 69° / Az: 219°		
One of the nearest star clusters to Earth and most obvious to the naked eye it					
has been mentioned since antiquity in cultures around the world. A faint					
reflection nebulosity is seen around the stars from interstellar dust.					
Theta Tauri - in Hyades (Tau)					
RA: 4h 29m	Mag(v): 3.4, 3.8	Ty	pe: Dou	ible Star	

Dec: 15° 52'	Sep: 300 arcsec	SP Class: K0, A7			
Distance: 154 ly		Mag: naked eye El: 64° / Az: 189°			
A white class A giant star next to a dimmer orange type K. The brighter star					
varies in magnitude from 3.35 to 3.4 over a period of 1.8 hours.					
M33 - Triangulum Galaxy (Tri)					
RA: 1h 34m	<b>Mag(v): 5.7</b>	Type: Spiral Galaxy (NGC: 0598)			
Dec: 30° 40'	Size: 50 arcmin				
Distance: 3M ly		El: 50° / Az: 270°			
The third largest member of the Local Group of galaxies, which includes the					
Milky Way galaxy and the Andromeda galaxy.					
Zeta Ursae Majoris - Mizar (Uma)					
<b>RA: 13h 24m Ma</b>	g(v): 2.3, 4.0 Ty	pe: Double Star			
Dec: 54° 56' Sep	: 14 arcsec SP	Class: A1V, A5V			
Distance: 83 ly Sep (AU): 345, 16 PA: 152, 71° Mag: 10-50x El: 15° / Az: 27°					
Mizar and it's neighbor Alcor are a binary star system that is 80 light years					
away in the constellation Ursa Major, the Great Bear, otherwise known as the					
Big Dipper. These stars are found in the middle of the handle of the Big					
		the two stars as a test of your eyesight if			
you can see both stars. Mizar, the brighter star, is itself a double star, though					
you won't see this in a telescope. Spectroscopic analysis shows Mizar has two					
additional stars and Alcor has three. Spectroscopy gives us the color					
spectrum of each star which astronomers can use to determine if it is coming					
from a single star or more than one. You are really looking at a total of seven stars.					
Alpha Ursae Minoris - Polaris (Umi)					
RA: 2h 32m Mag(v): 2.1, 9 Type: Double Star					
	9 ( )	P Class: F7Ib			
Distance: 325 ly   Sep (AU): 2430   PA: 218° Mag: 50x El: 42° / Az: 359° The North Star as used in celestial navigation. It has two companion stars					
that orbit at 18 and 2400 AU. Polaris is a 4.5 solar mass F7 yellow supergiant.					
that orbit at 16 and 2400 AO. Folaris is a 4.5 solar mass F / yenow supergiant.					