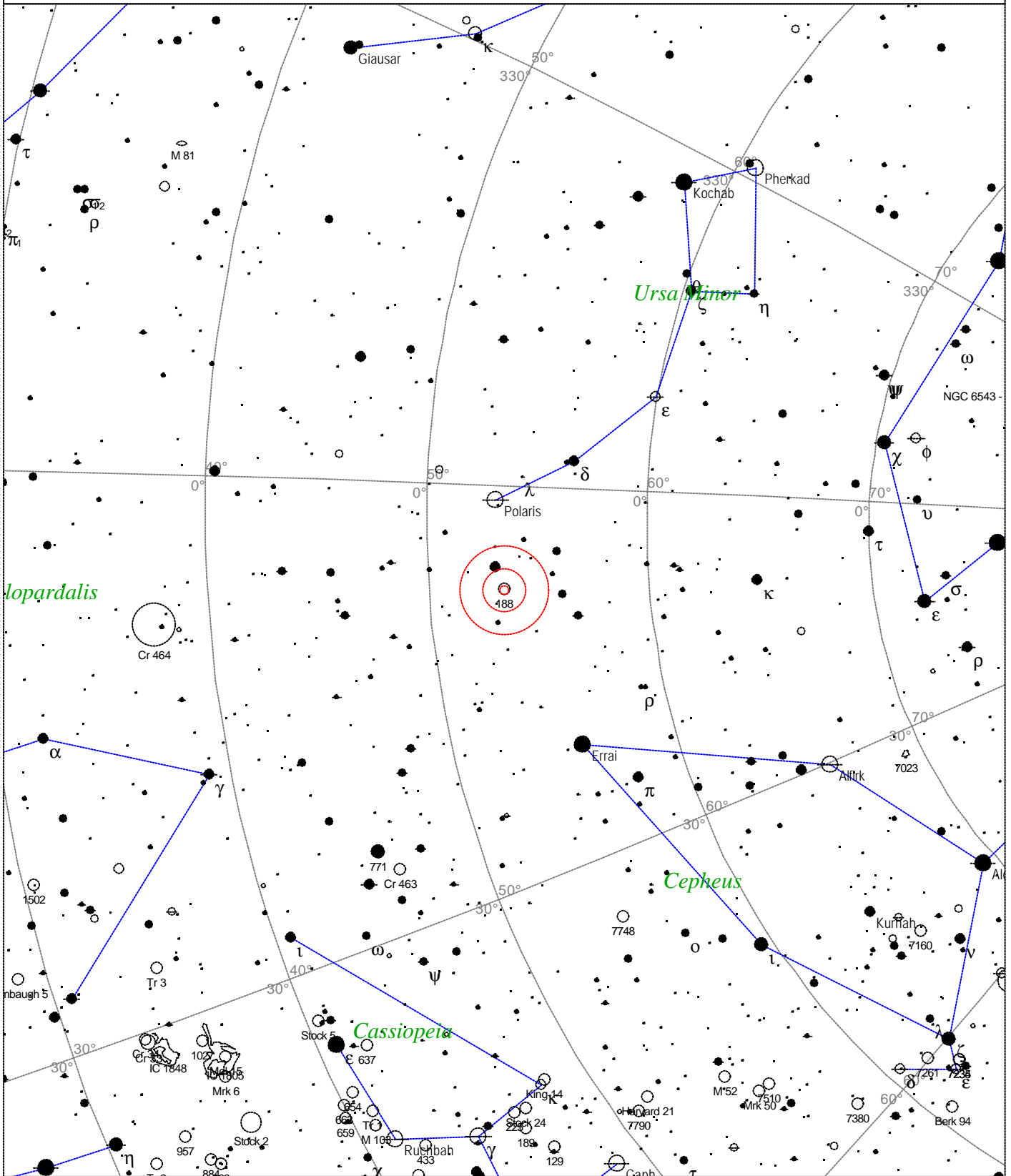


Caldwell 1 - NGC 188



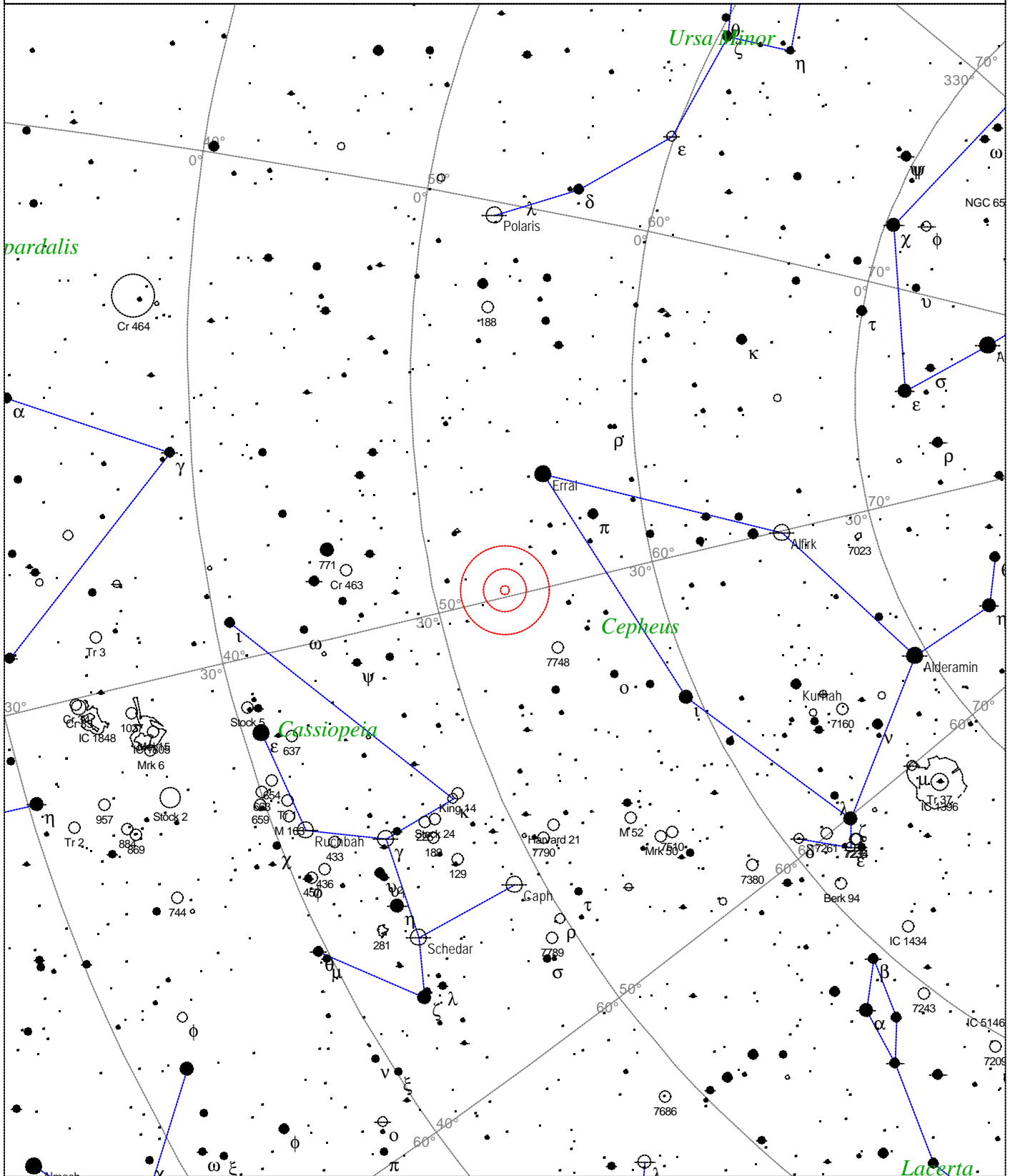
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p>Name: NGC 188 Type of object: Open cluster Magnitude: 8.1 Size: 14.0' Right ascension: 0h 47m 55s Declination: +85° 15' 59" Constellation: Cepheus</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 0h47m55s Dec: +85° 15' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

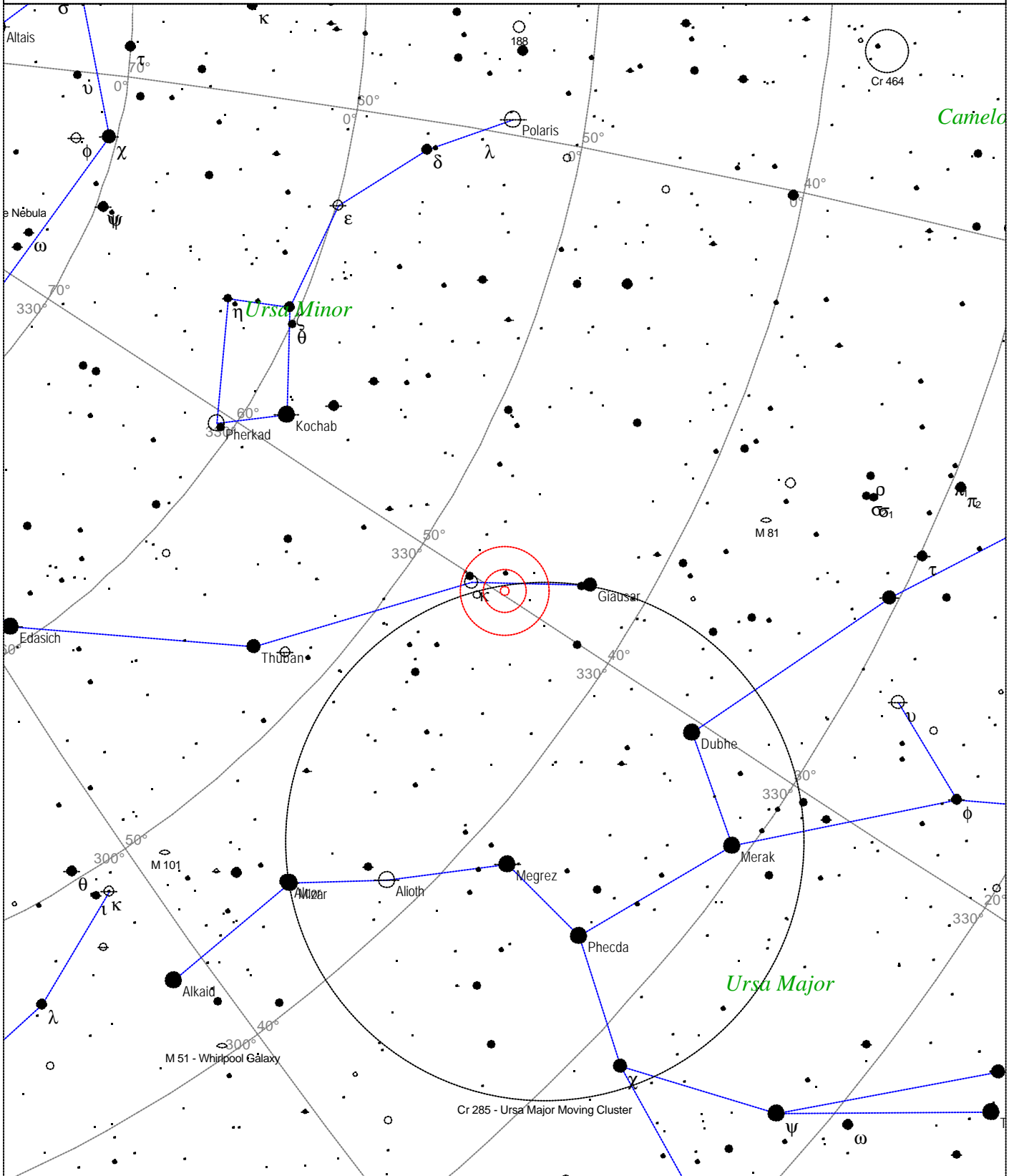
Caldwell 2 - NGC 40



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 2 - NGC 40</i> Type of object: Planetary nebula Magnitude: 10.7 Size: 37.0" Right ascension: 0h 13m 12s Declination: +72° 32' 5" Constellation: Cepheus</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 0h13m12s Dec: +72° 32' Field: 45.0° Julian Day: 2452530.3196

Caldwell 3 - NGC 4236



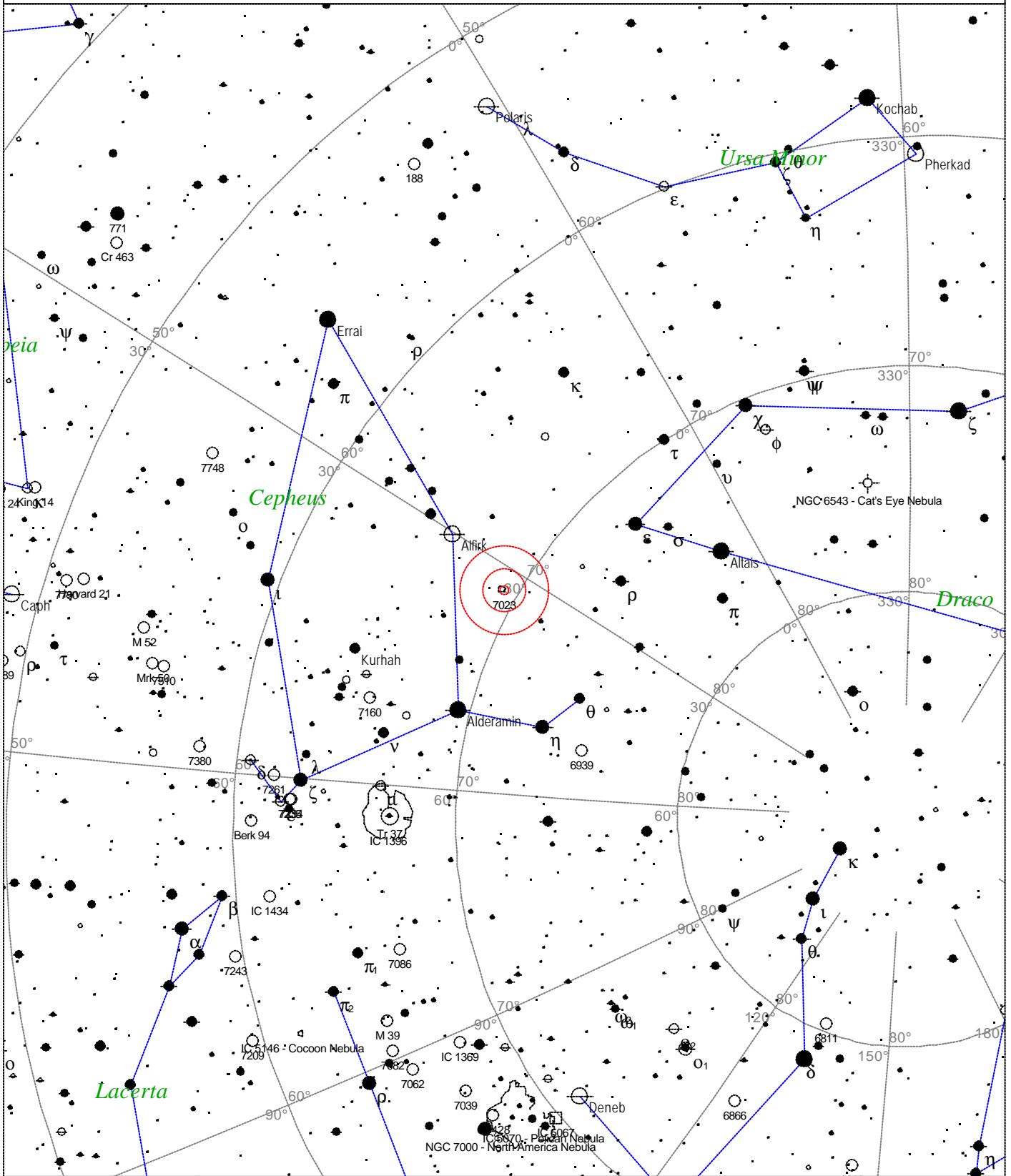
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 3 - NGC 4236-1</i> Type of object: Galaxy Magnitude: 10.7 Surface brightness: 14.7 mag/sq arcmin Size: 22.6'x6.9' Position angle: 162° Right ascension: 12h 16m 47s Declination: +69° 27' 6"</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 12h16m47s Dec: +69° 27' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

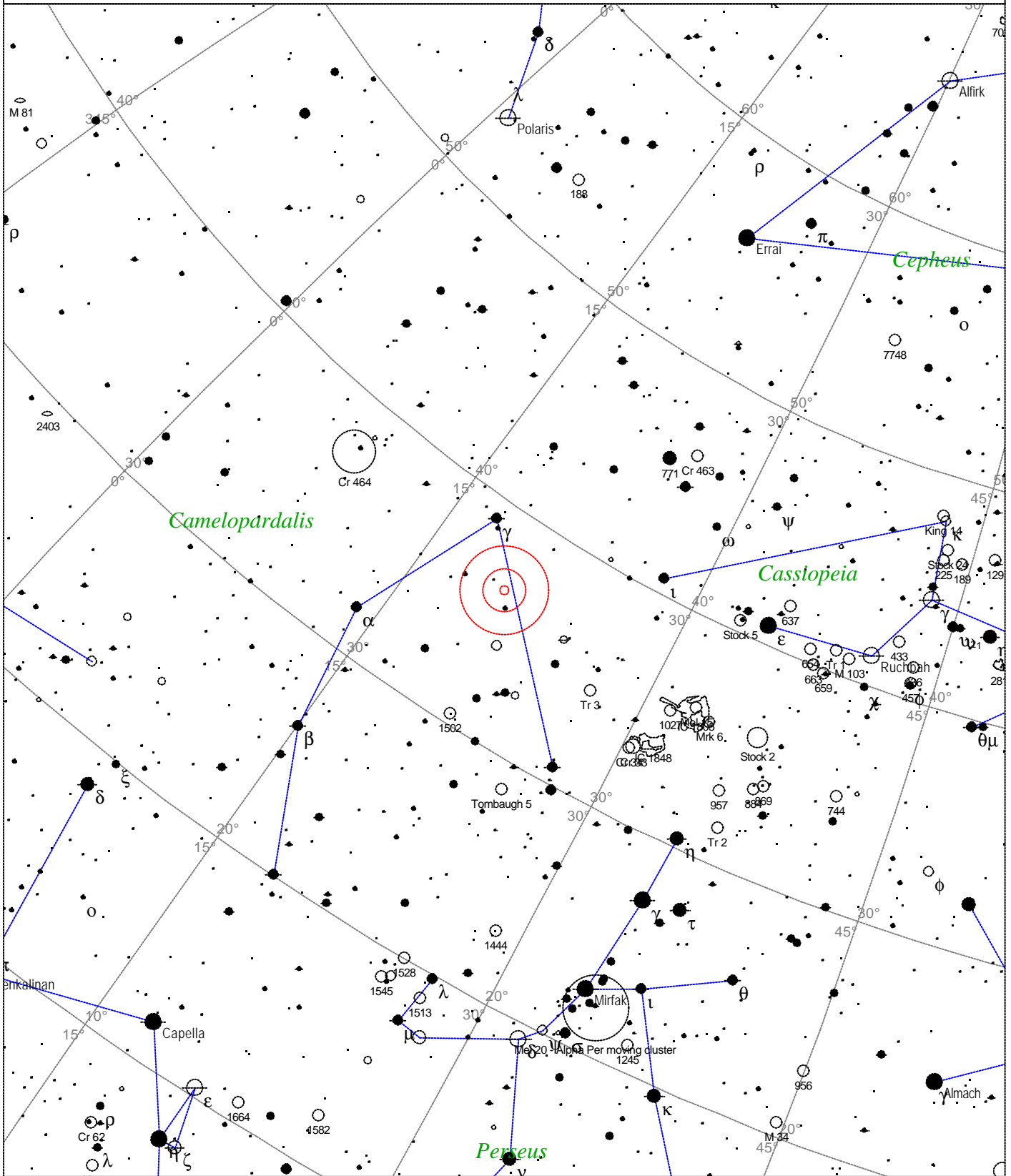
Caldwell 4 - NGC 7023



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 4 - NGC 7023 Type of object: Open cluster Magnitude: 7.1 Size: 5.0' Right ascension: 21h 0m 34s Declination: +68° 10' 44" Constellation: Cepheus</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 21h00m34s Dec: +68° 10' Field: 45.0° Julian Day: 2452530.3196

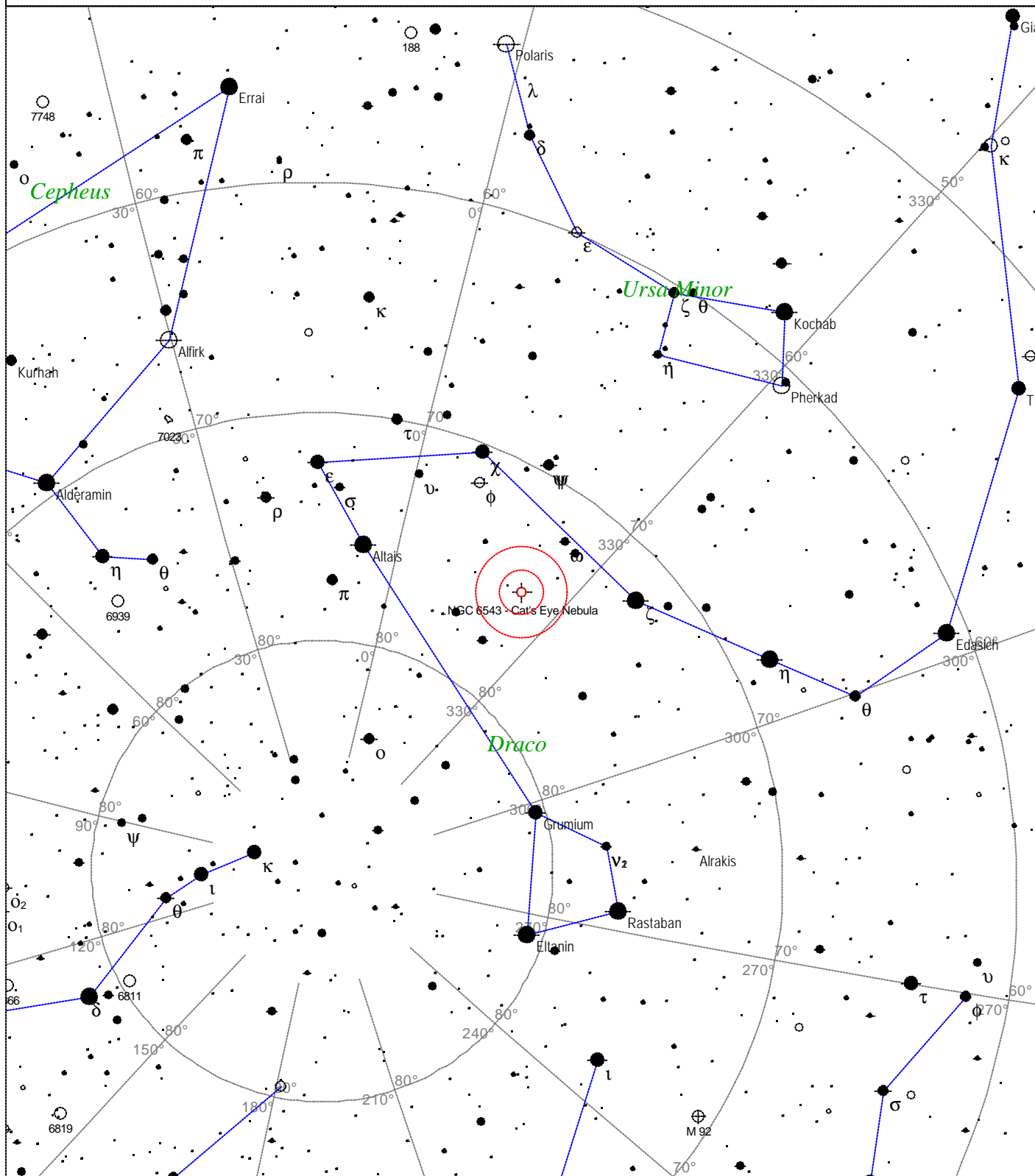
Caldwell 5 - IC 342



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 5 - IC 342</i> Type of object: Galaxy Magnitude: 9.1 Surface brightness: 15.7 mag/sq arcmin Size: 20.9'x20.4' Right ascension: 3h 47m 3s Declination: +68° 5' 58" Constellation: Camelopardalis</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 3h47m03s Dec: +68° 05' Field: 45.0°	Julian Day: 2452530.3196

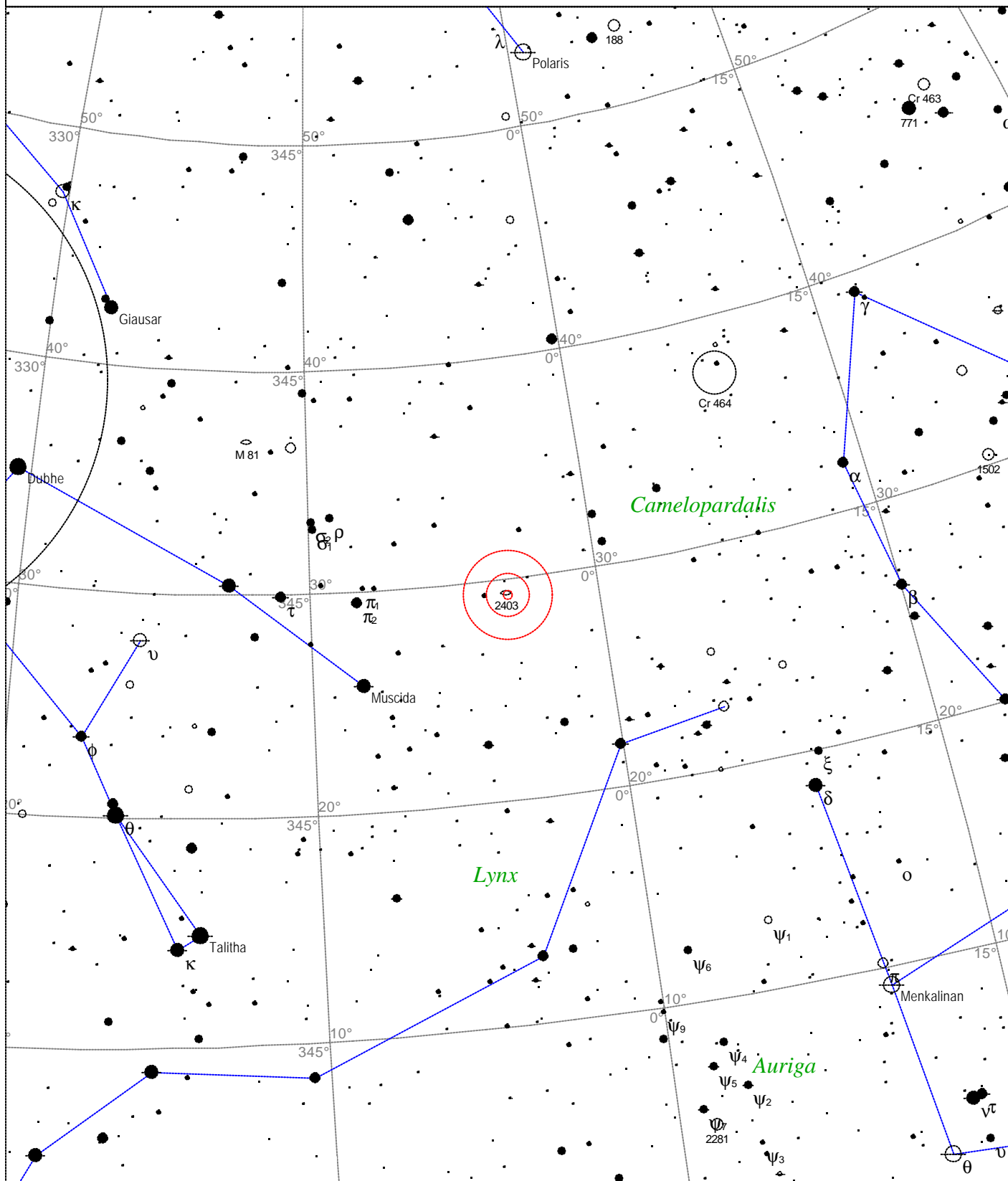
Caldwell 6 - NGC 6543 (Cats Eye Nebula)



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 6 - NGC 6543 Popular name: Cat's Eye Nebula Type of object: Planetary nebula Magnitude: 8.8 Size: 18.0" Right ascension: 17h 58m 34s Declination: +66° 38' 16" Constellation: Draco</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 17h58m34s Dec: +66° 38' Field: 45.0° Julian Day: 2452530.3196

Caldwell 7 - NGC 2403 (Spiral Galaxy)



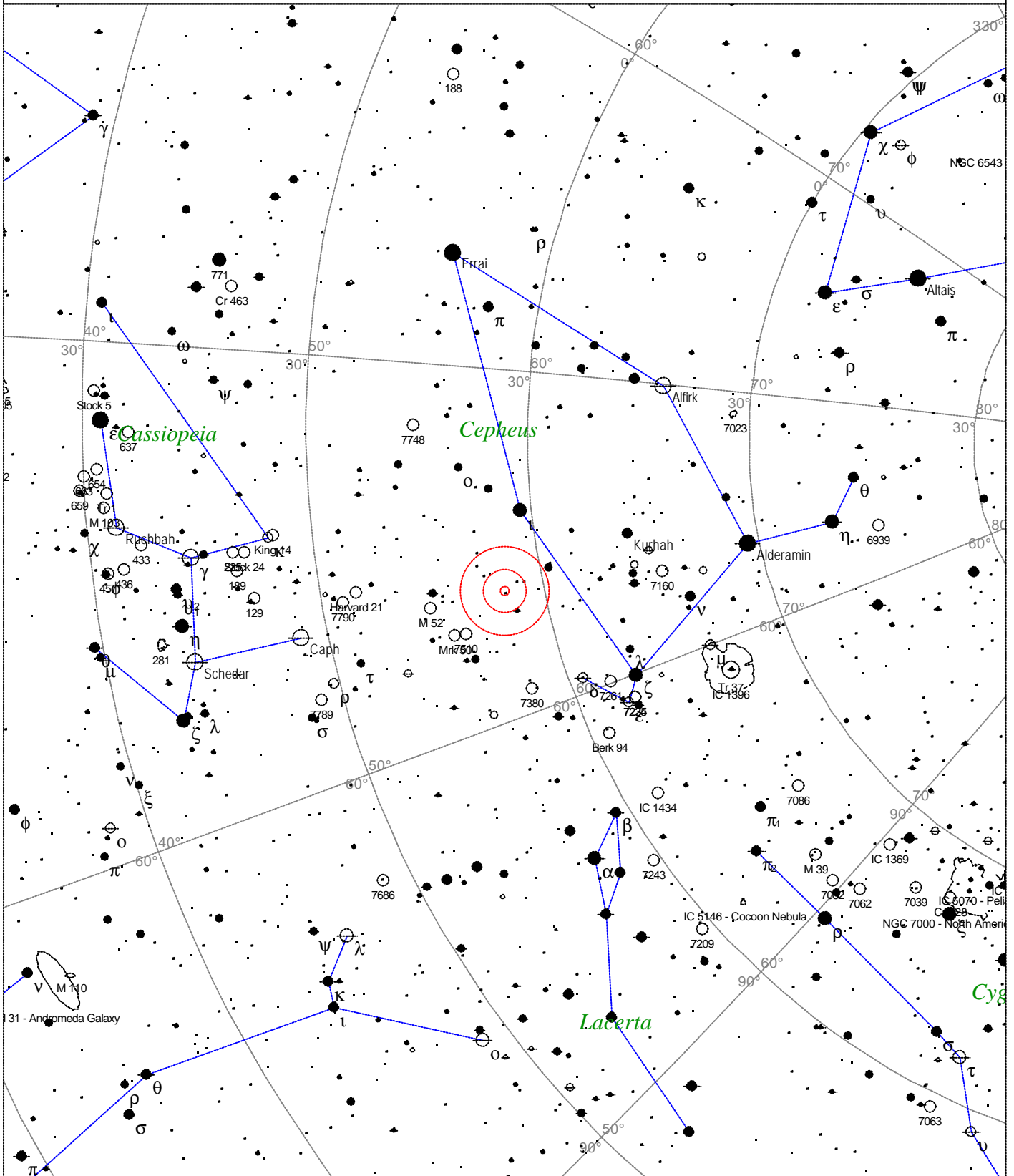
<p>STARS</p> <ul style="list-style-type: none"> ● <3 · 6 ● 3.5 · 6.5 ● 4 · >7 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 7 - NGC 2403 (Spiral Galaxy)</i> <i>Magnitude: 8.9</i> <i>Surface brightness: 12.7 mag/sq arcmin</i> <i>Size: 23.4'x11.8'</i> <i>Position angle: 127°</i> <i>Right ascension: 7h 37m 3s</i> <i>Declination: +65° 35' 37"</i> <i>Constellation: Camelopardalis</i></p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 7h37m03s Dec: +65° 35' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

Caldwell 9 - Cave Nebula



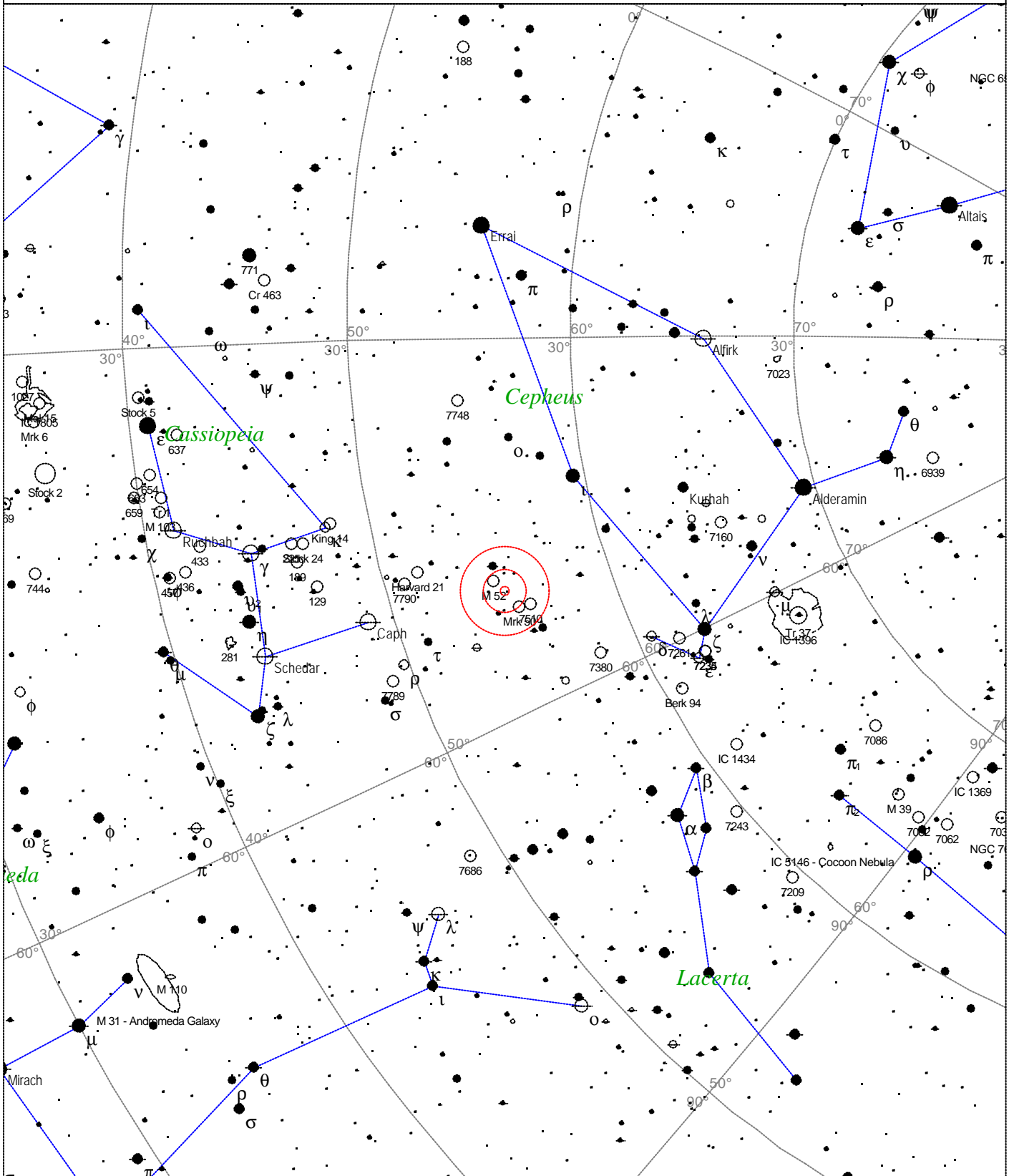
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 9 - Sh2-155</i> Popular name: Cave Nebula Type of object: Bright nebula Size: 50.0'x30.0' Right ascension: 22h 56m 56s Declination: +62° 37' 50" Constellation: Cepheus</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 22h56m56s Dec: +62° 37' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

Caldwell 11 - Bubble Nebula



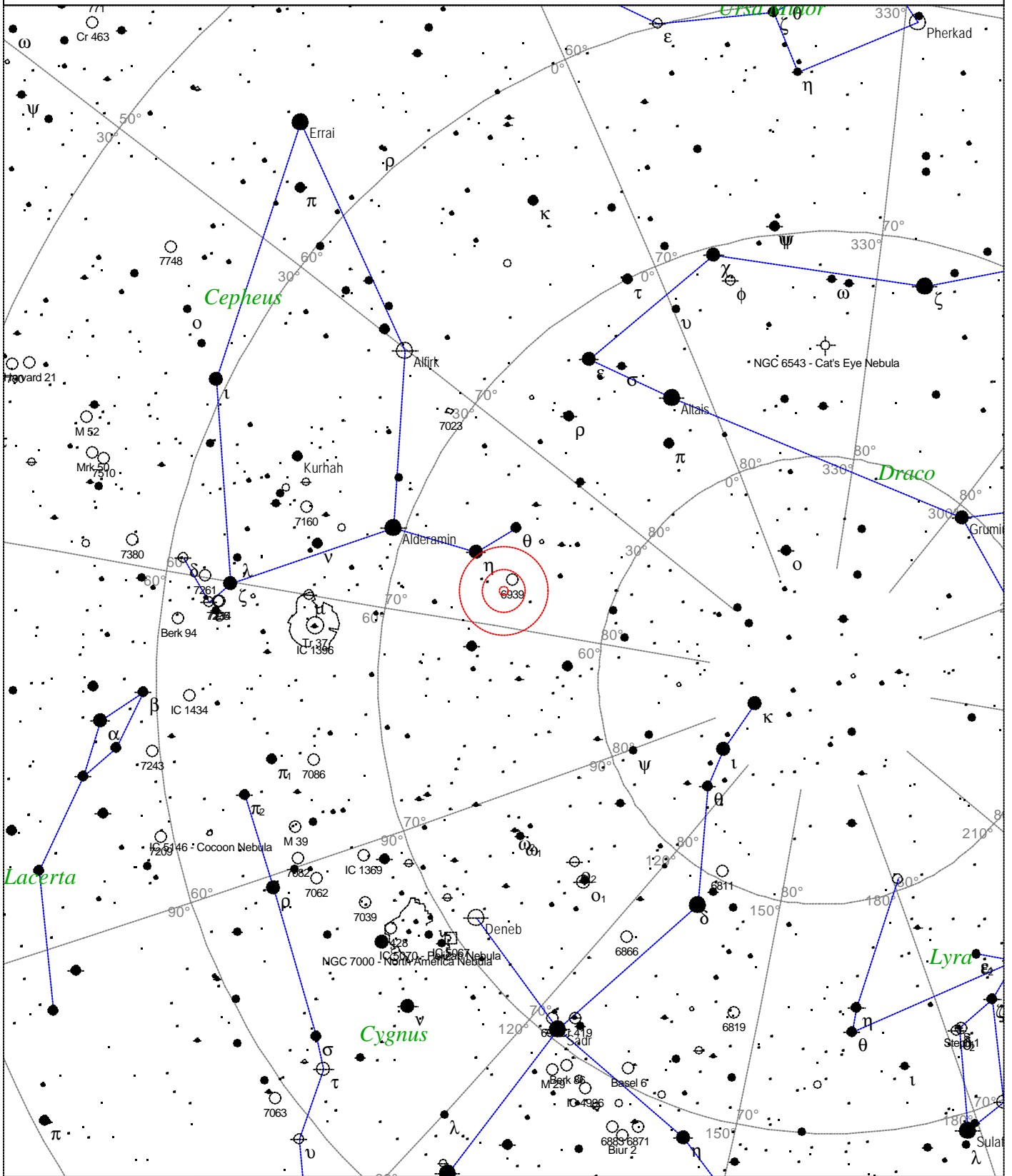
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 11 - Bubble Nebula</i> Name: NGC 7635 Popular name: Bubble Nebula Type of object: Bright nebula Magnitude: 11.0 Size: 15.0'x8.0' Right ascension: 23h 20m 54s Declination: +61° 13' 32"</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 23h20m54s Dec: +61° 13' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

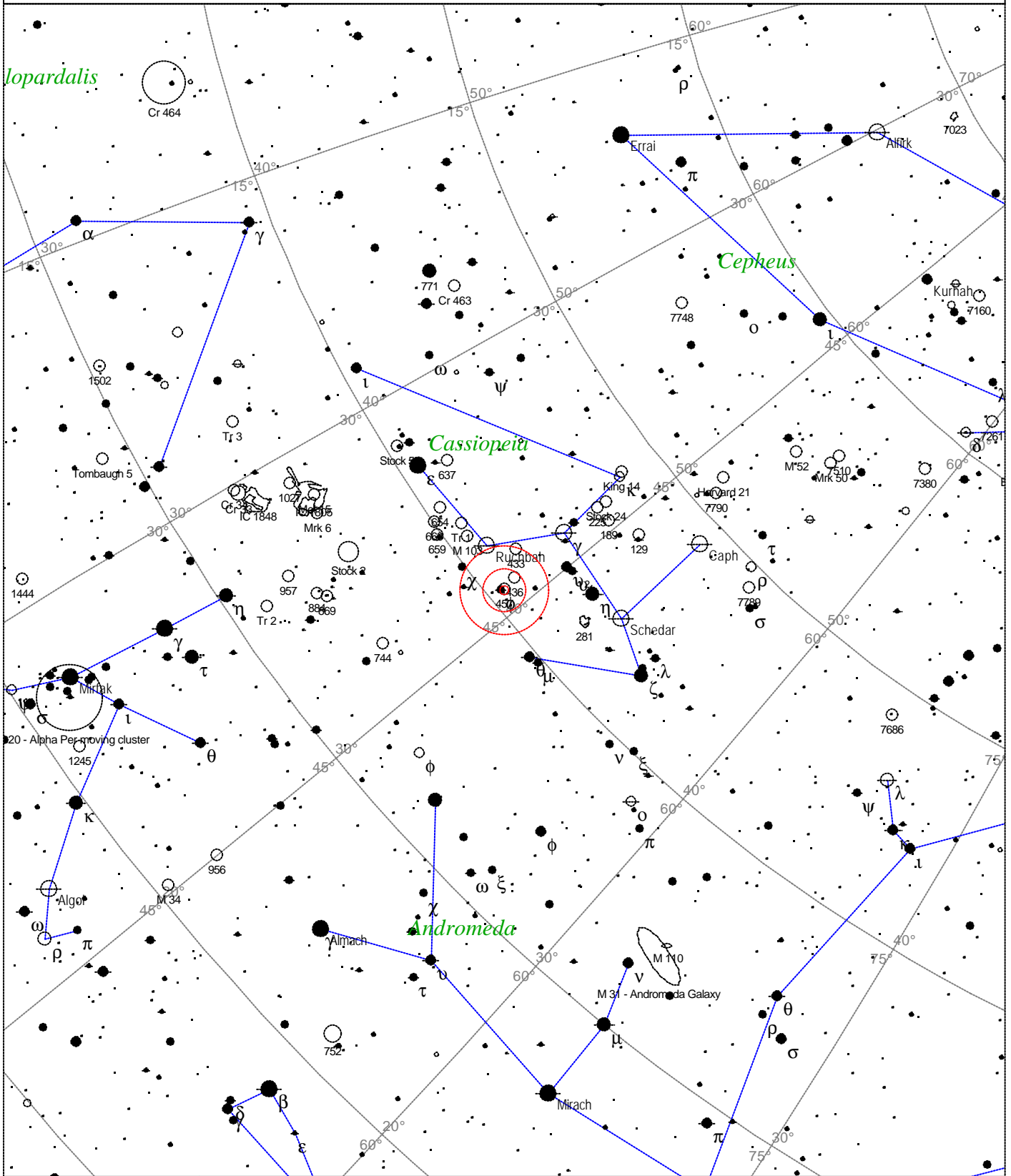
Caldwell 12 - NGC 6946



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 12 - NGC 6946 Type of object: Spiral Galaxy Magnitude: 9.7 Surface brightness: 14.0 mag/sq arcmin Size: 11.2'x9.8' Right ascension: 20h 34m 57s Declination: +60° 9' 52" Constellation: Cygnus</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 20h34m57s Dec: +60° 09' Field: 45.0° Julian Day: 2452530.3196

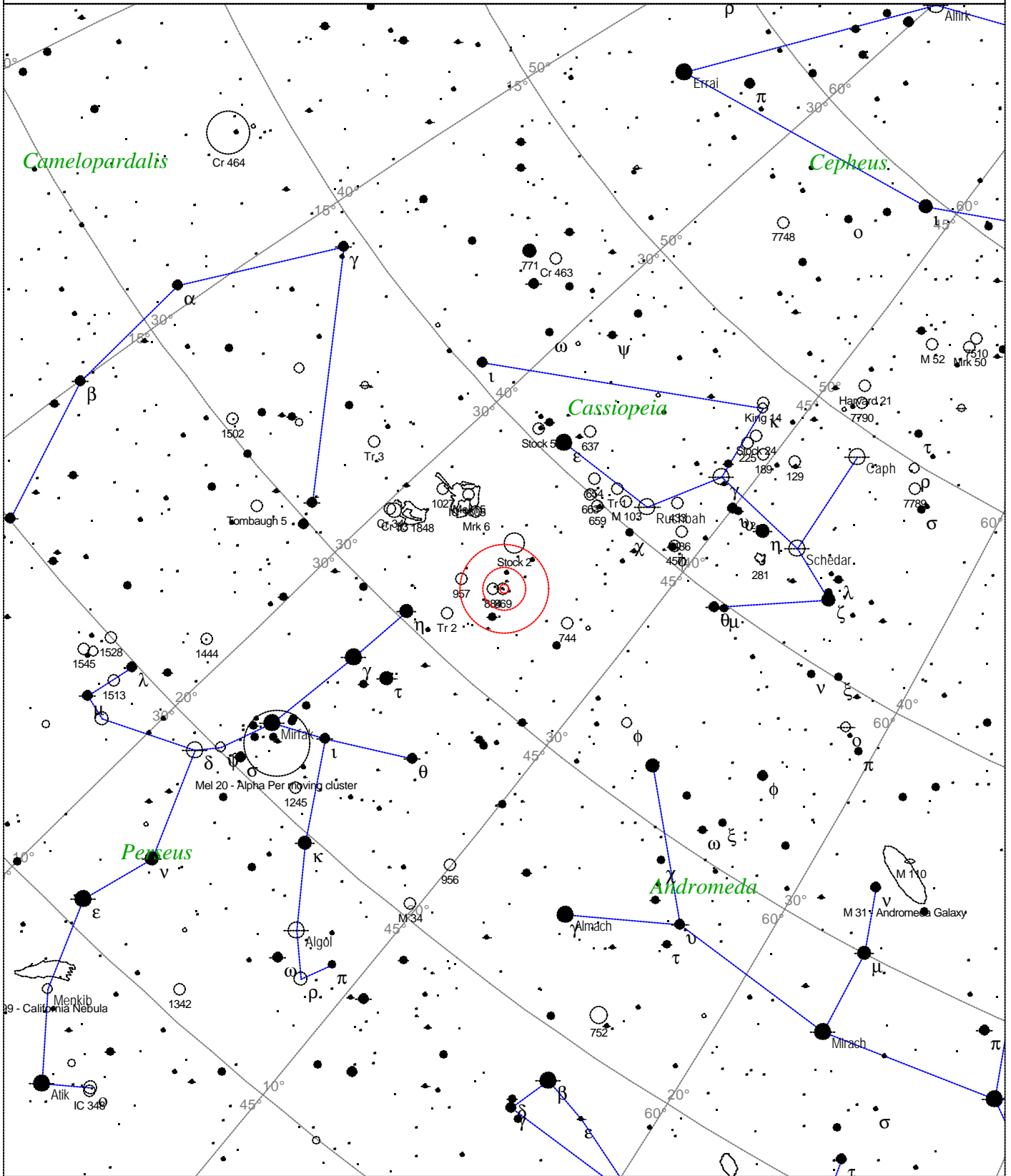
Caldwell 13 - NGC 457



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar △ Radio source ✕ X-ray source ○ Other object 	<p>Caldwell 13 - NGC 457 Type of object: Open cluster Magnitude: 6.4 Size: 13.0' Right ascension: 1h 19m 43s Declination: +58° 18' 9" Constellation: Cassiopeia</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 1h19m43s Dec: +58° 18' Field: 45.0°	Julian Day: 2452530.3196

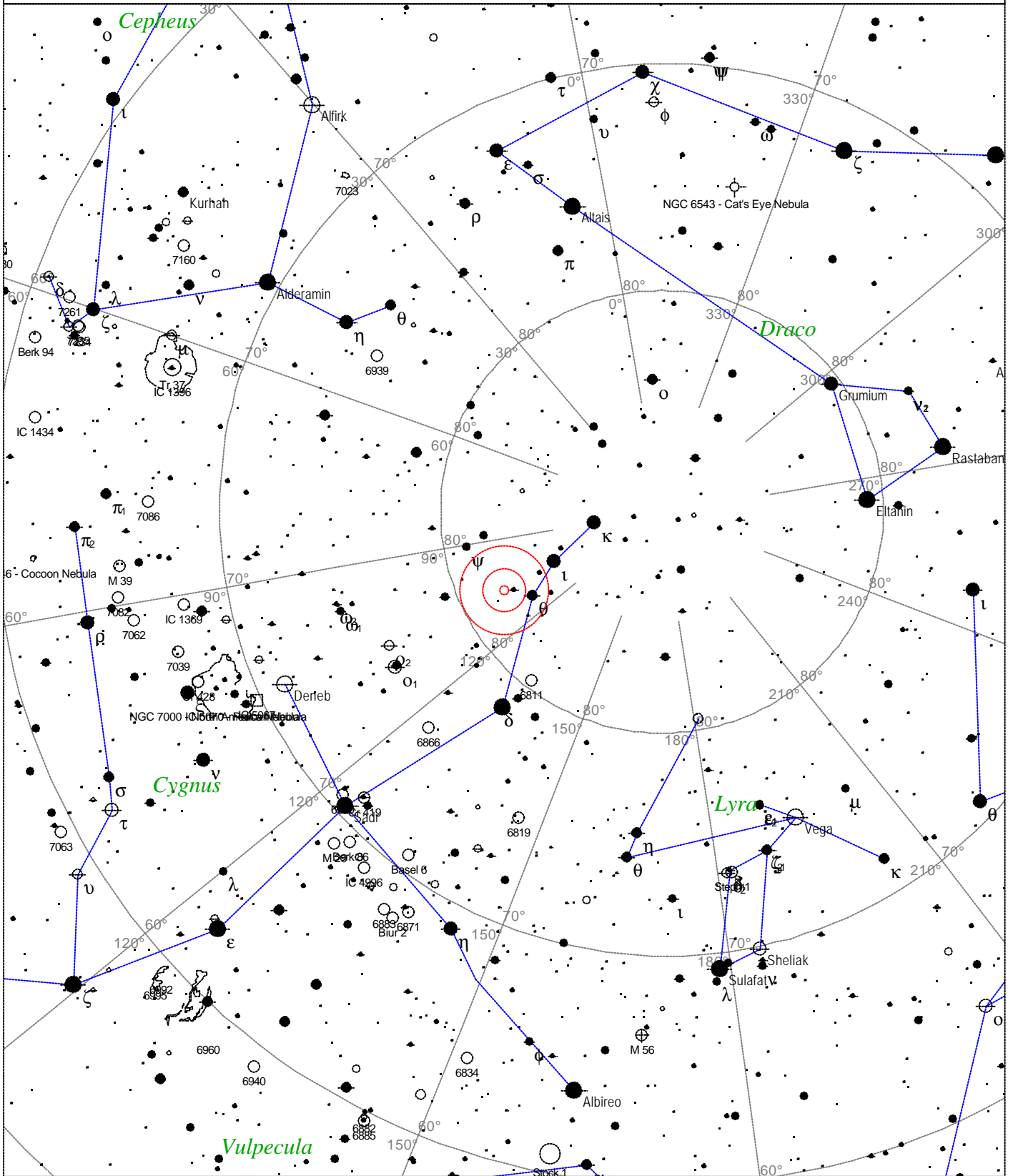
Caldwell 14 - NGC 869 / 884



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 14 - NGC 869 / 884</i> <i>Type of object: Open cluster</i> <i>Magnitude: 5.3</i> <i>Size: 30.0'</i> <i>Right ascension: 2h 19m 15s</i> <i>Declination: +57° 08' 40"</i> <i>Constellation: Perseus</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 2h19m15s Dec: +57° 08' Field: 45.0°	Julian Day: 2452530.3196

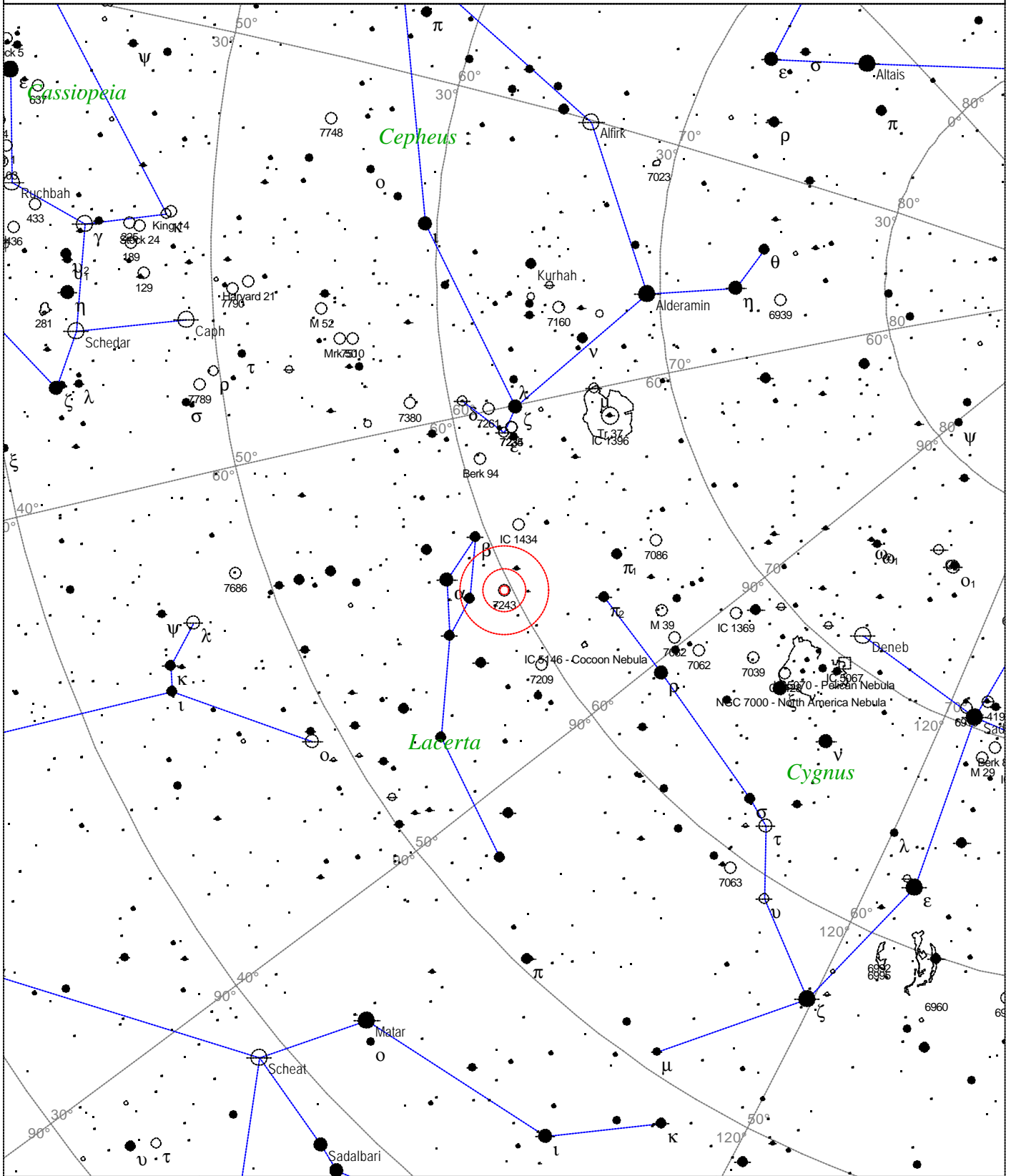
Caldwell 15 - Blinking Planetary Nebula



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 15 - NGC 6826 Popular name: <i>Blinking Planetary</i> Type of object: <i>Planetary nebula</i> Magnitude: 9.8 Size: 25.0" Right ascension: 19h 44m 53s Declination: +50° 32' 5" Constellation: <i>Cygnus</i></p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 19h44m53s Dec: +50° 32' Field: 45.0° Julian Day: 2452530.3196

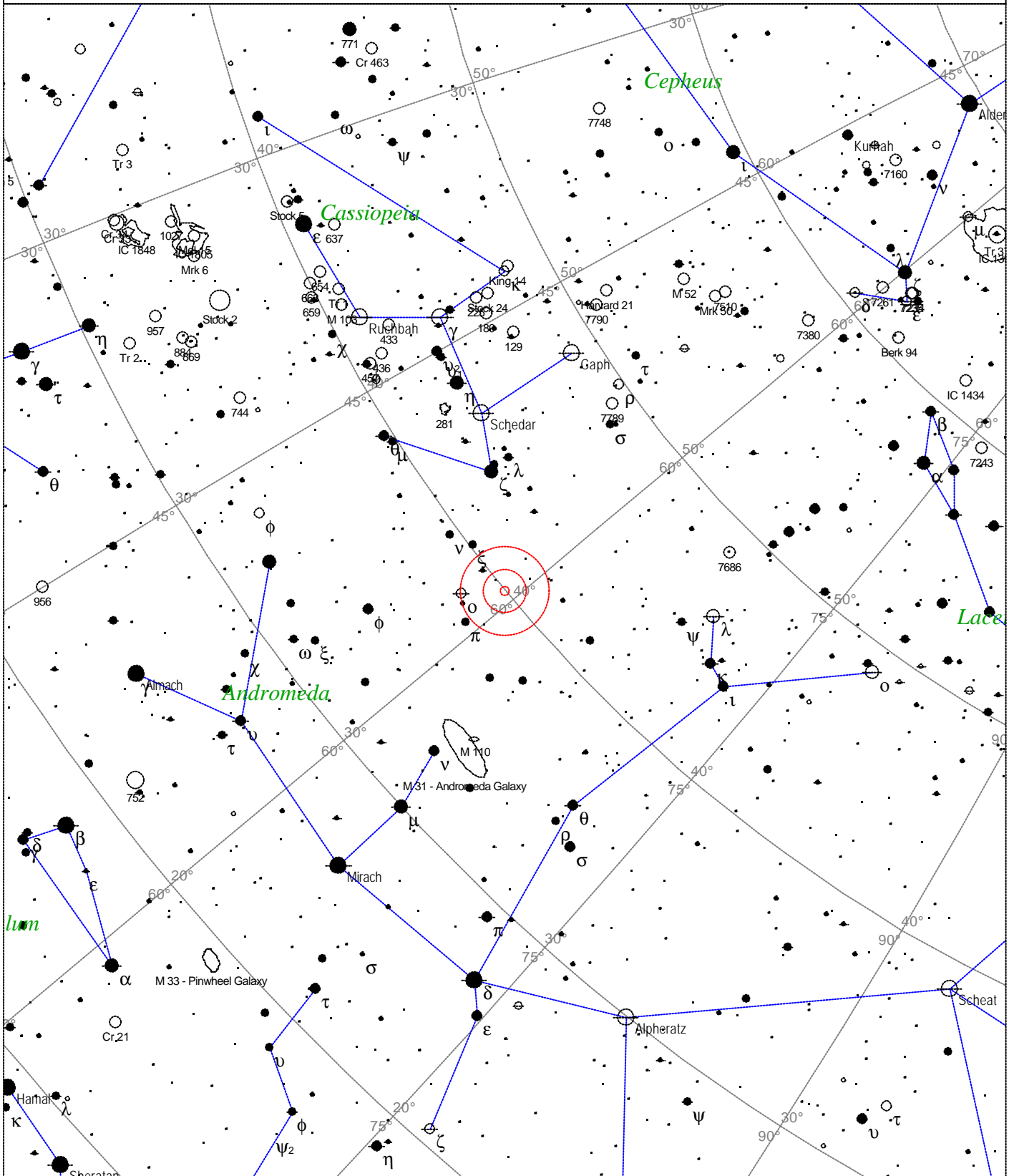
Caldwell 16 - NGC 7243



STARS	SYMBOLS			Caldwell 16 - NGC 7243 Type of object: Open cluster Magnitude: 6.4 Size: 21.0' Right ascension: 22h 15m 16s Declination: +49° 54' 41" Constellation: Lacerta
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar 	<ul style="list-style-type: none"> △ Radio source × X-ray source ○ Other object 	

Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 22h15m16s Dec: +49° 54' Field: 45.0°	Julian Day: 2452530.3196

Caldwell 17 - NGC 147



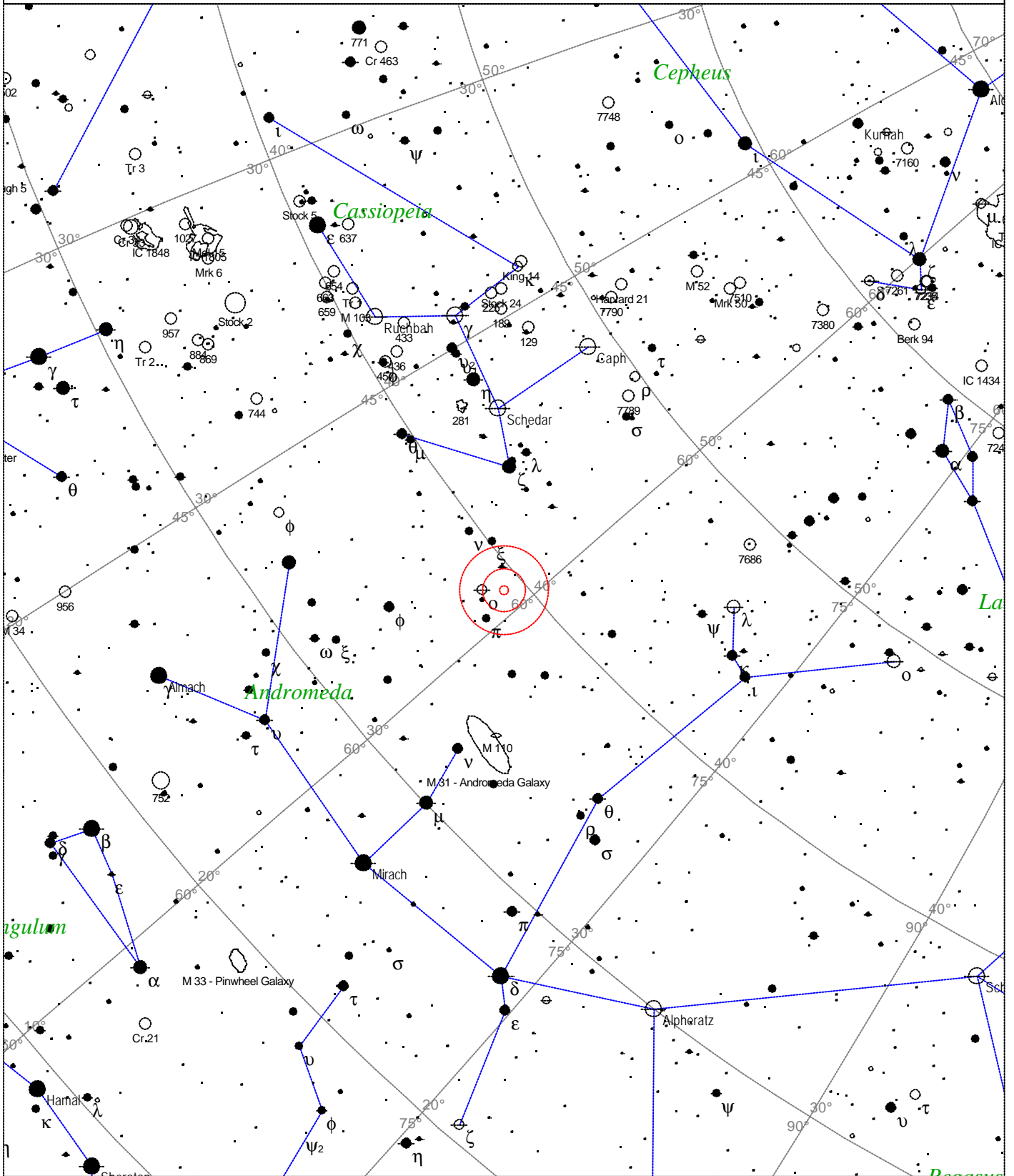
STARS	SYMBOLS			Caldwell 17 - NGC 147
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar 	<ul style="list-style-type: none"> △ Radio source × X-ray source ○ Other object 	<p><i>Type of object:</i> Galaxy <i>Magnitude:</i> 10.4 <i>Surface brightness:</i> 14.2 mag/sq arcmin <i>Size:</i> 13.5'x8.2' <i>Position angle:</i> 25° <i>Right ascension:</i> 0h 33m 21s <i>Declination:</i> +48° 31' 12"</p>

Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 0h33m21s Dec: +48° 31' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

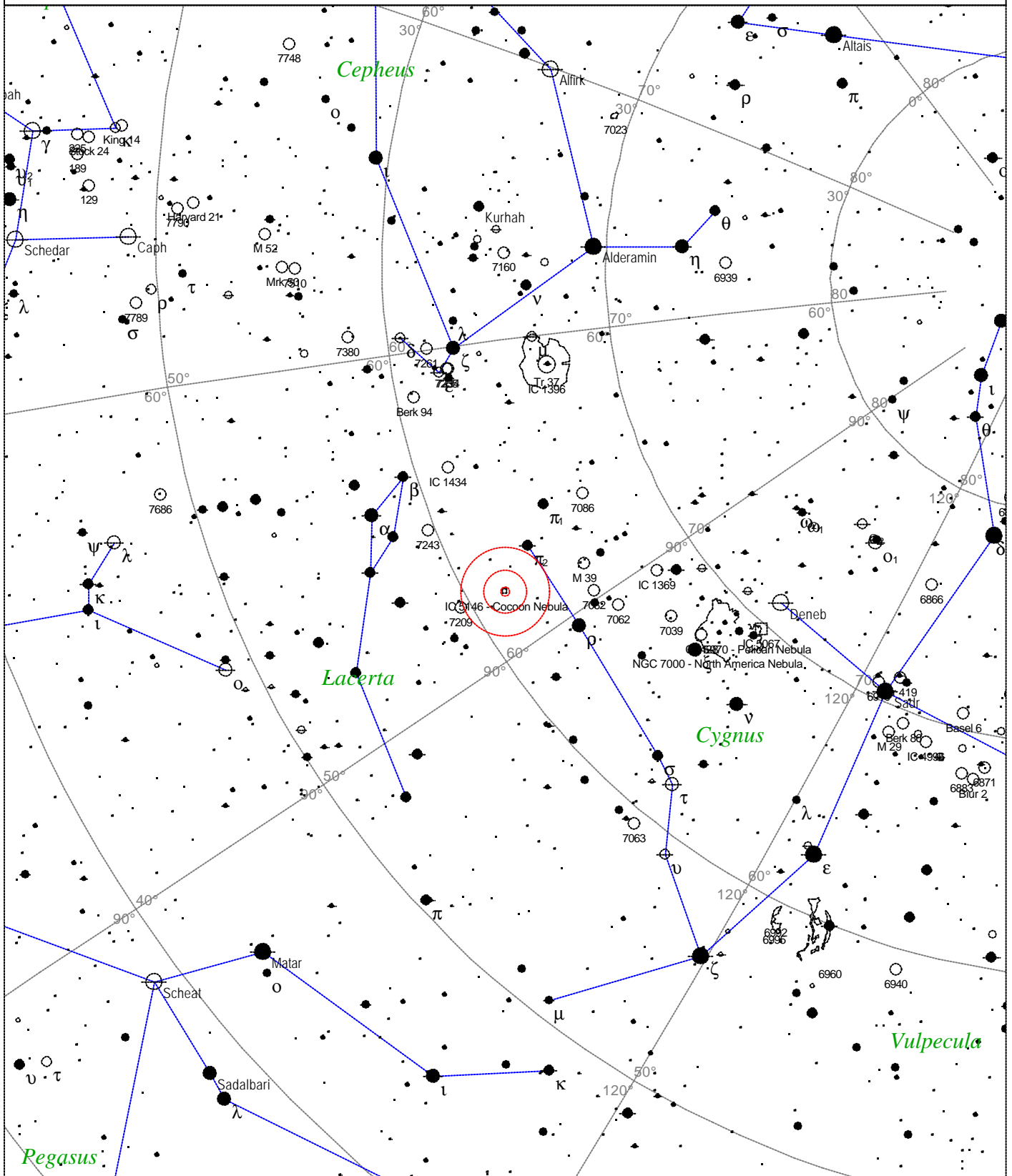
Caldwell 18 - NGC 185



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 18 - NGC 185</i> Type of object: Galaxy Magnitude: 10.3 Surface brightness: 13.6 mag/sq arcmin Size: 12.5'x10.4' Position angle: 35° Right ascension: 0h 39m 7s Declination: +48° 21' 0"</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 0h39m07s Dec: +48° 21' Field: 45.0°	Julian Day: 2452530.3196

Caldwell 19 - Cocoon Nebula



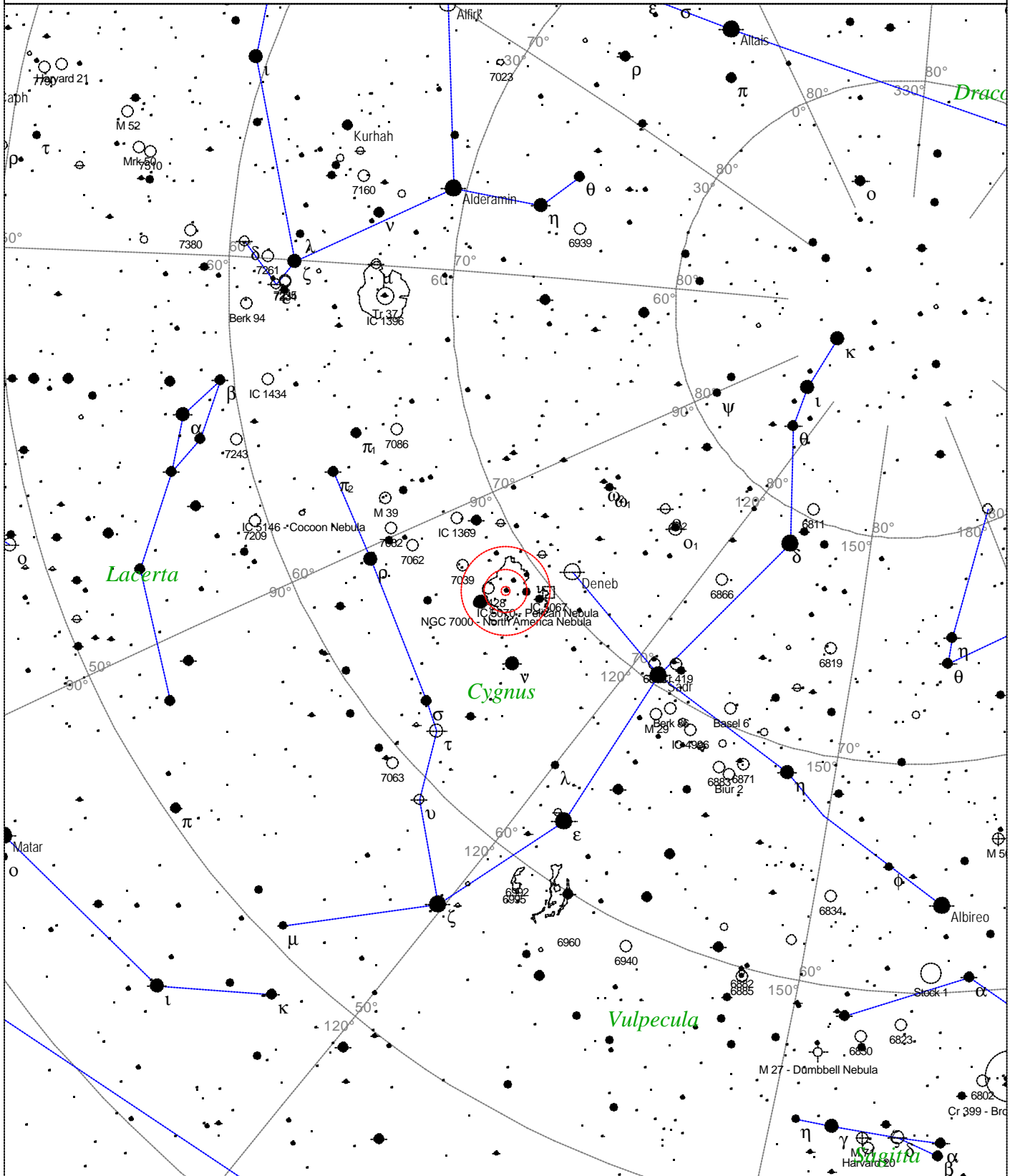
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 19 - Cocoon Nebula</i> Name: IC 5146 Popular name: Cocoon Nebula Type of object: Open cluster Magnitude: 7.2 Size: 20.0'x10.0' Right ascension: 21h 53m 31s Declination: +47° 16' 49"</p>
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Local Time: 19:40:11 12-Sep-2002
Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
RA: 21h53m31s Dec: +47° 16' Field: 45.0°

Sidereal Time: 18:56:39
Julian Day: 2452530.3196

Caldwell 20 - North America Nebula



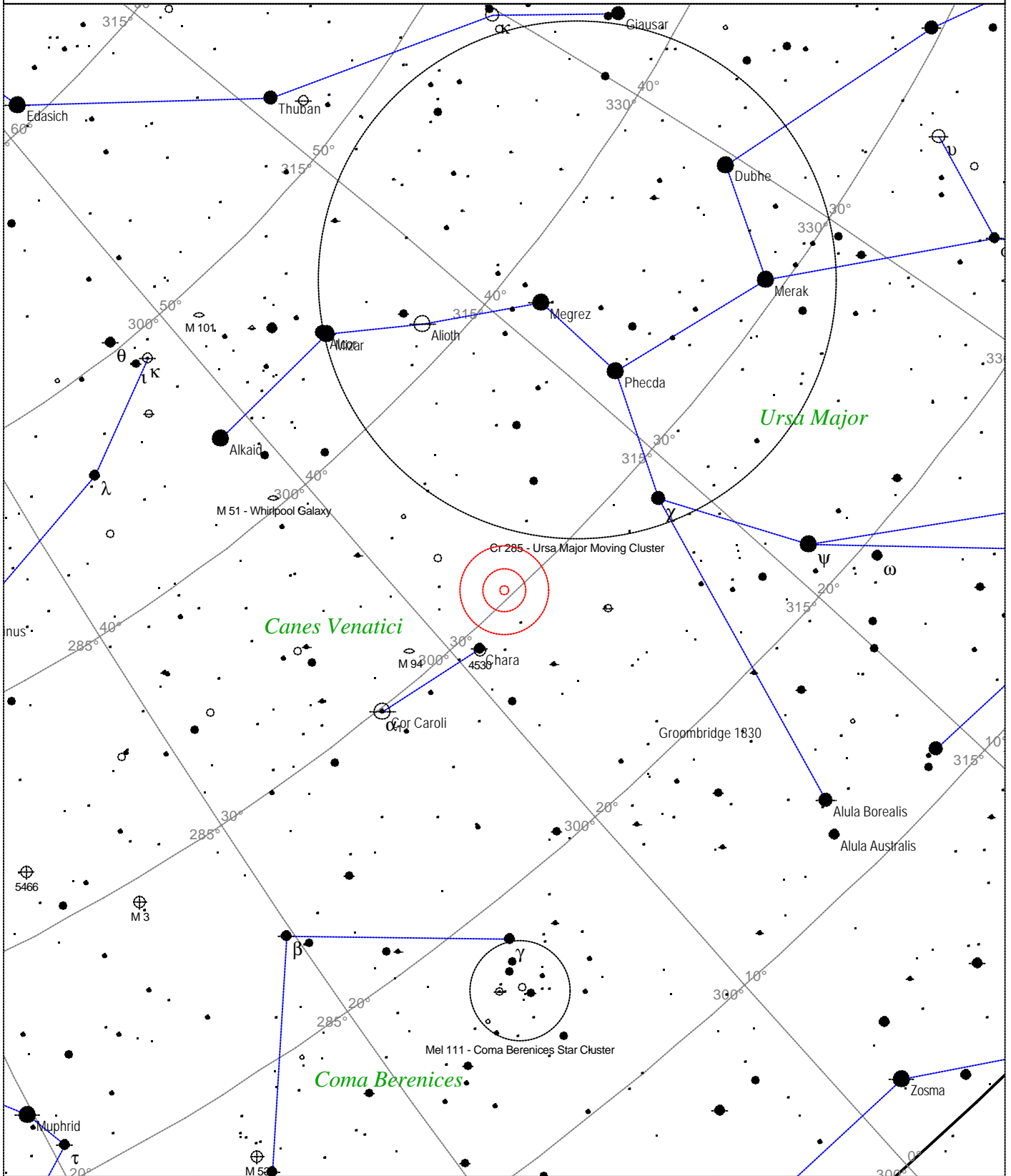
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 20 - North America Nebula</i> <i>Name: NGC 7000</i> <i>Popular name: North America Nebula</i> <i>Type of object: Bright nebula</i> <i>Magnitude: 4.0</i> <i>Size: 120.0'x30.0'</i> <i>Right ascension: 20h 59m 6s</i> <i>Declination: +44° 31' 45"</i></p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 20h59m06s Dec: +44° 31' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

Caldwell 21 - NGC 4449



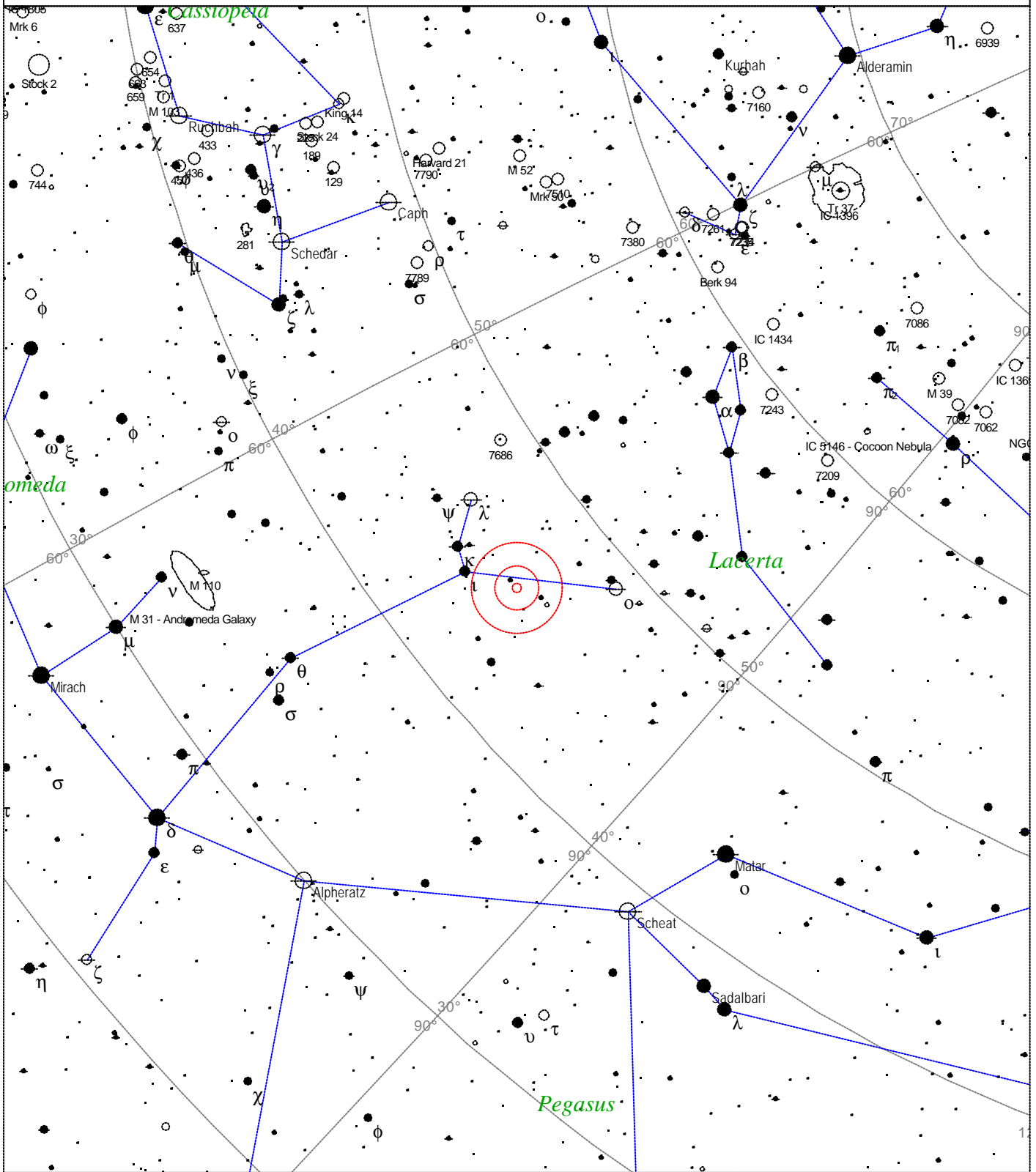
STARS		SYMBOLS			<i>Caldwell 21 - NGC 4449</i> Type of object: Galaxy Magnitude: 10.0 Surface brightness: 11.5 mag/sq arcmin Size: 6.2'x4.9' Position angle: 45° Right ascension: 12h 28m 17s Declination: +44° 5' 2"
● <3	· 6	● Multiple star	◻ Dark nebula	△ Radio source	
● 3.5	· 6.5	○ Variable star	⊕ Globular cluster	× X-ray source	
● 4	· >7	☄ Comet	○ Open cluster	○ Other object	
● 4.5		☉ Galaxy	♁ Planetary nebula		
● 5		◻ Bright nebula	☉ Quasar		
● 5.5					

Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 12h28m17s Dec: +44° 05' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

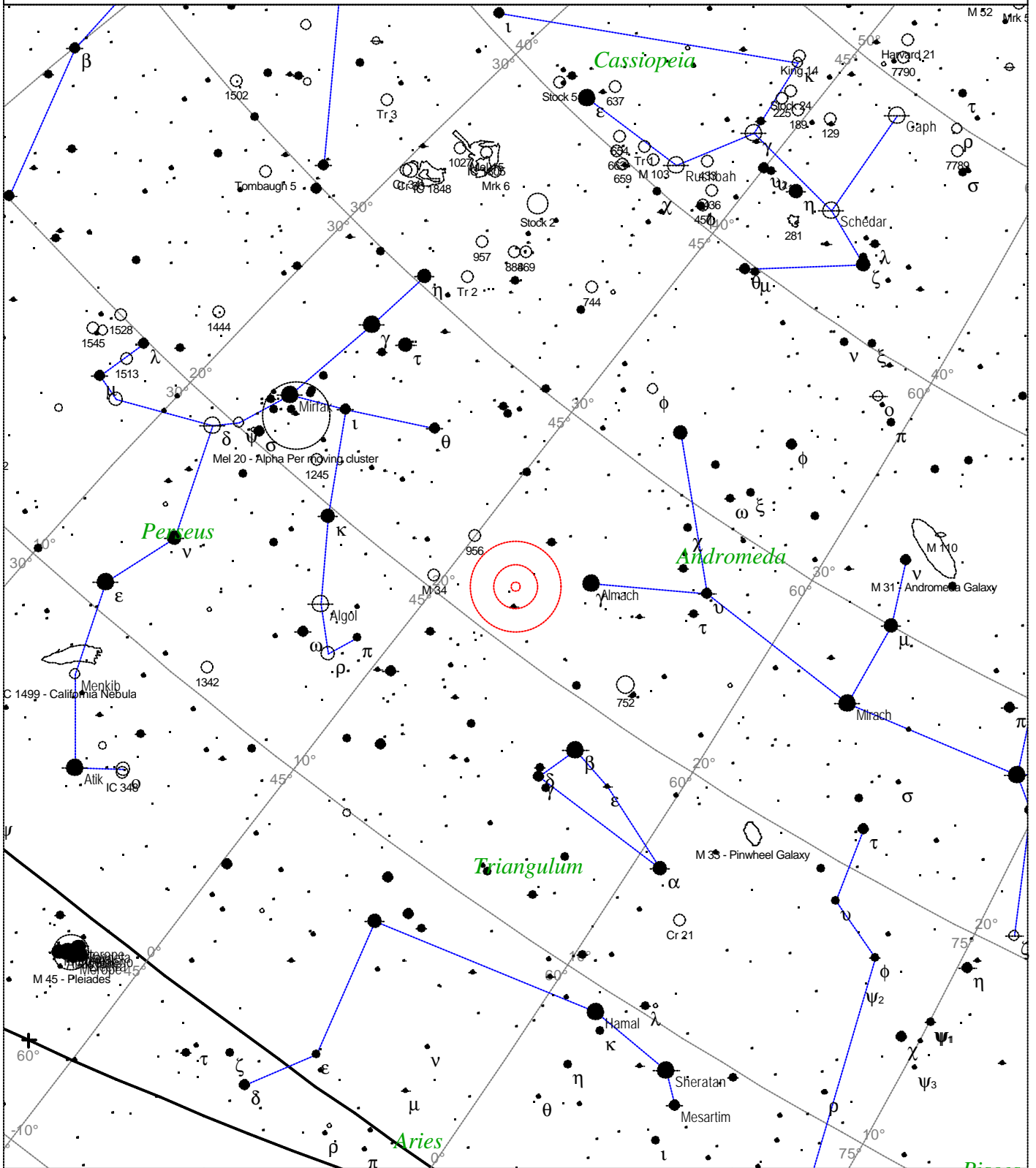
Caldwell 22 - Blue Snowball Nebula



STARS	SYMBOLS			Caldwell 22 - NGC 7662 Popular name: Blue Snowball Nebula Type of object: Planetary nebula Magnitude: 9.2 Size: 12.0" Right ascension: 23h 26m 2s Declination: +42° 32' 58" Constellation: Andromeda
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☄ Quasar 	<ul style="list-style-type: none"> △ Radio source ✕ X-ray source ○ Other object 	

Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 23h26m02s Dec: +42° 32' Field: 45.0° Julian Day: 2452530.3196

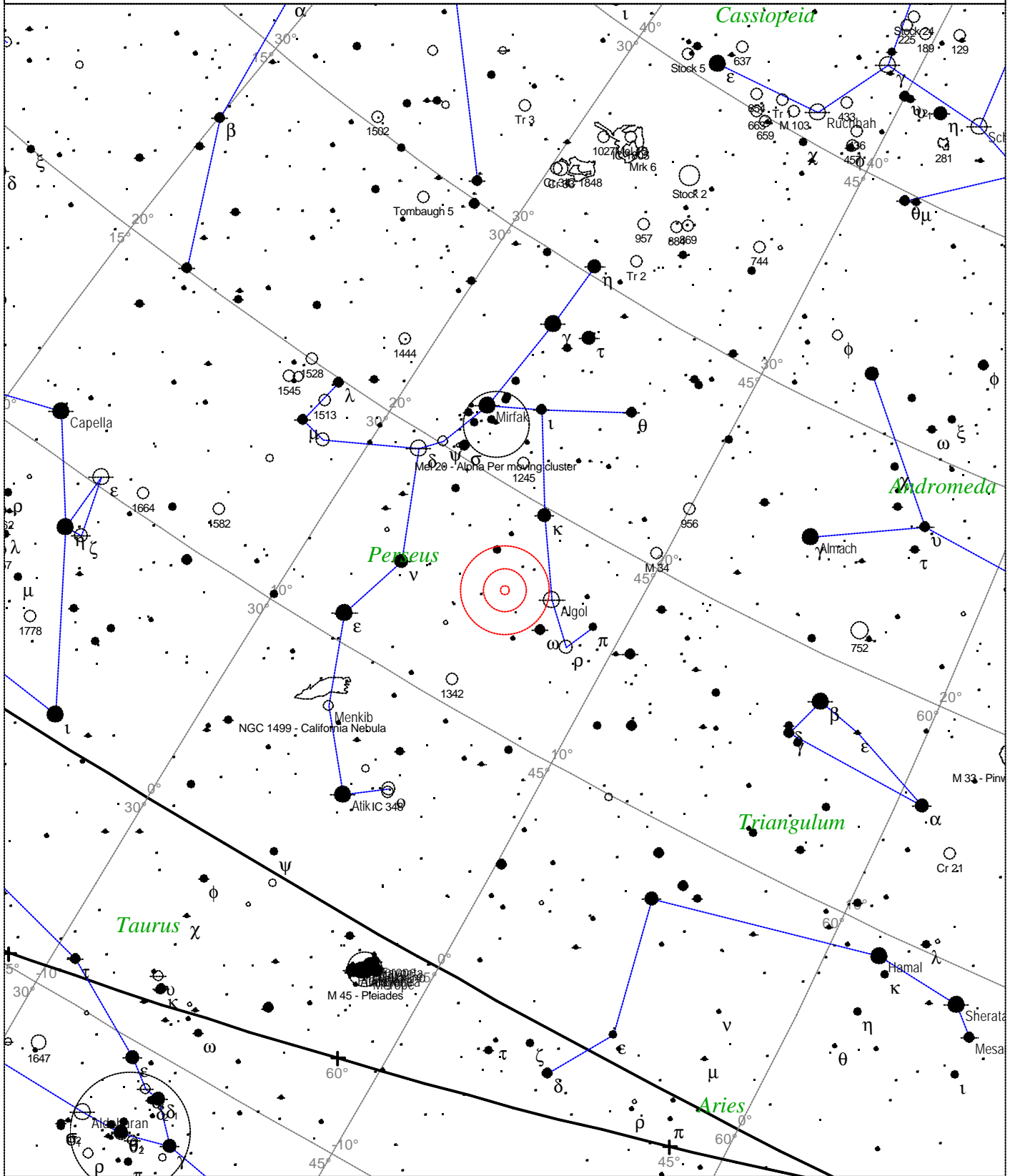
Caldwell 23 - NGC 891



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 23 - NGC 891</i> Type of object: Galaxy Magnitude: 10.9 Surface brightness: 14.0 mag/sq arcmin Size: 13.1'x2.8' Position angle: 22° Right ascension: 2h 22m 43s Declination: +42° 21' 25"</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 2h22m43s Dec: +42° 21' Field: 45.0° Julian Day: 2452530.3196

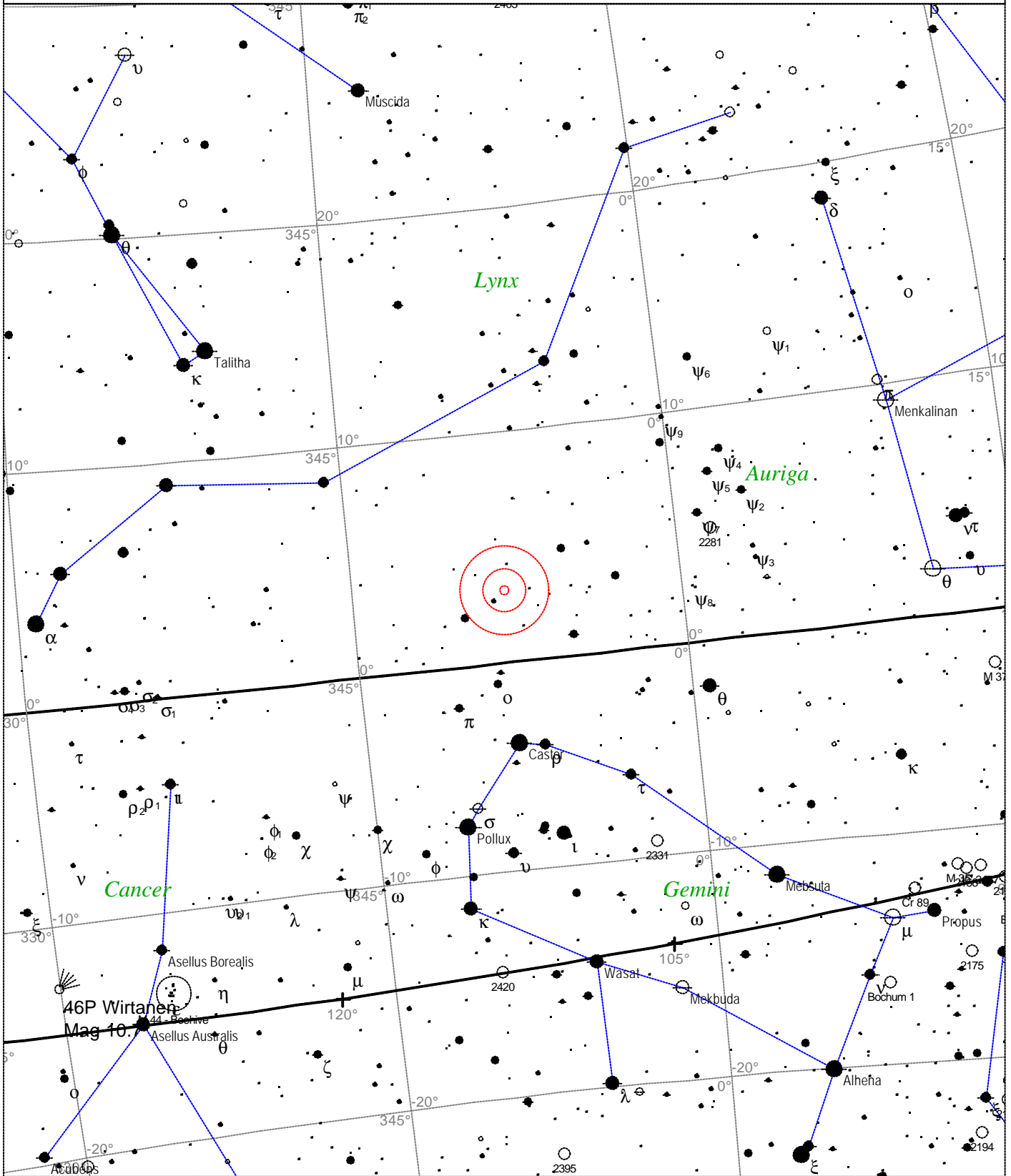
Caldwell 24 - NGC 1275



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 24 - NGC 1275</i> Type of object: Galaxy Magnitude: 12.7 Surface brightness: 11.9 mag/sq arcmin Size: 2.3'x1.6' Position angle: 110° Right ascension: 3h 19m 58s Declination: +41° 31' 7"</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 3h19m58s Dec: +41° 31' Field: 45.0° Julian Day: 2452530.3196

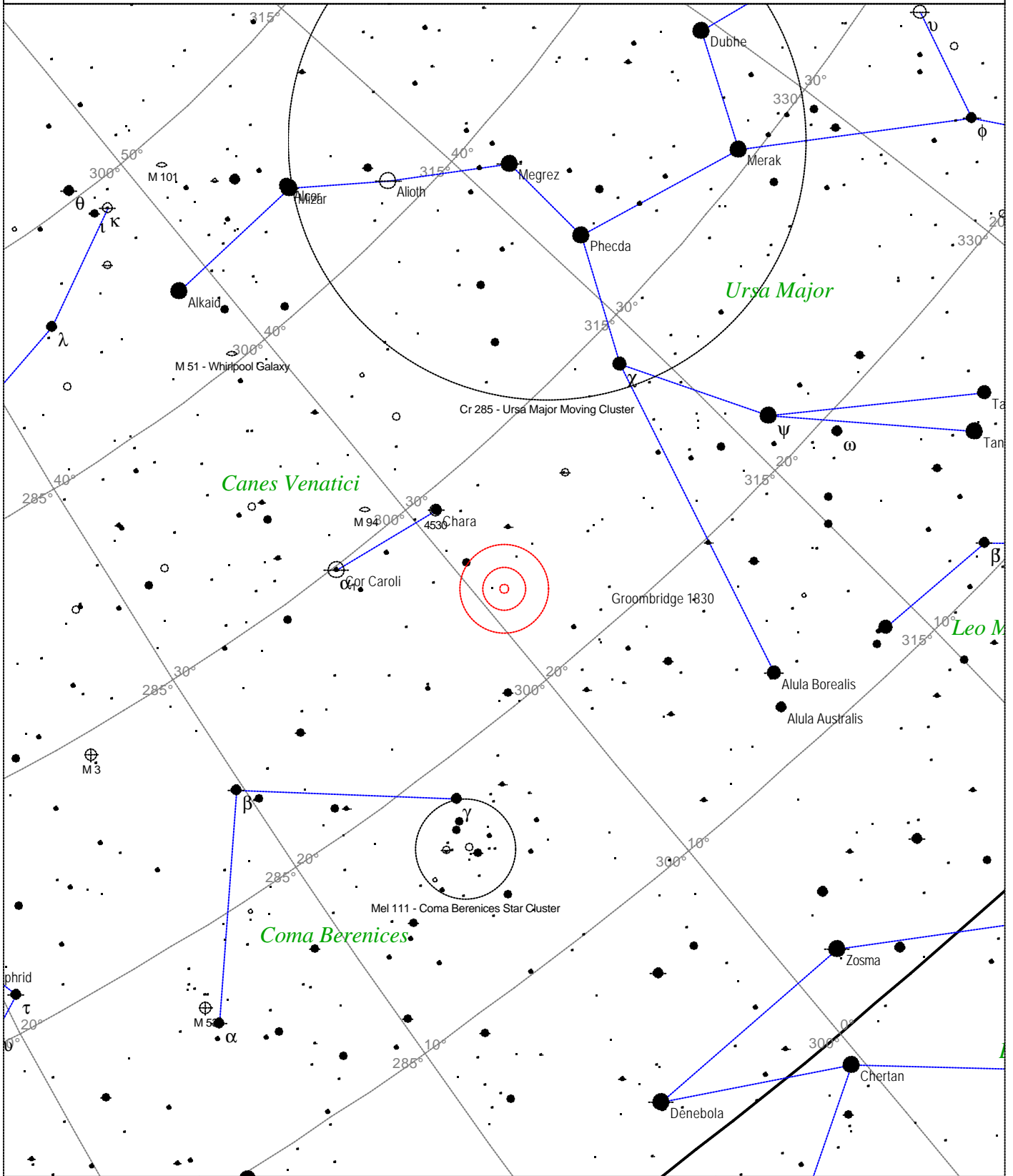
Caldwell 25 - NGC 2419



STARS	SYMBOLS			<i>Caldwell 25 - NGC 2419</i> Type of object: Globular cluster Magnitude: 10.4 Size: 6.2' Right ascension: 7h 38m 17s Declination: +38° 52' 35" Constellation: Lynx
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar 	<ul style="list-style-type: none"> △ Radio source × X-ray source ○ Other object 	

Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 7h38m17s Dec: +38° 52' Field: 45.0°	Julian Day: 2452530.3196

Caldwell 26 - NGC 4244



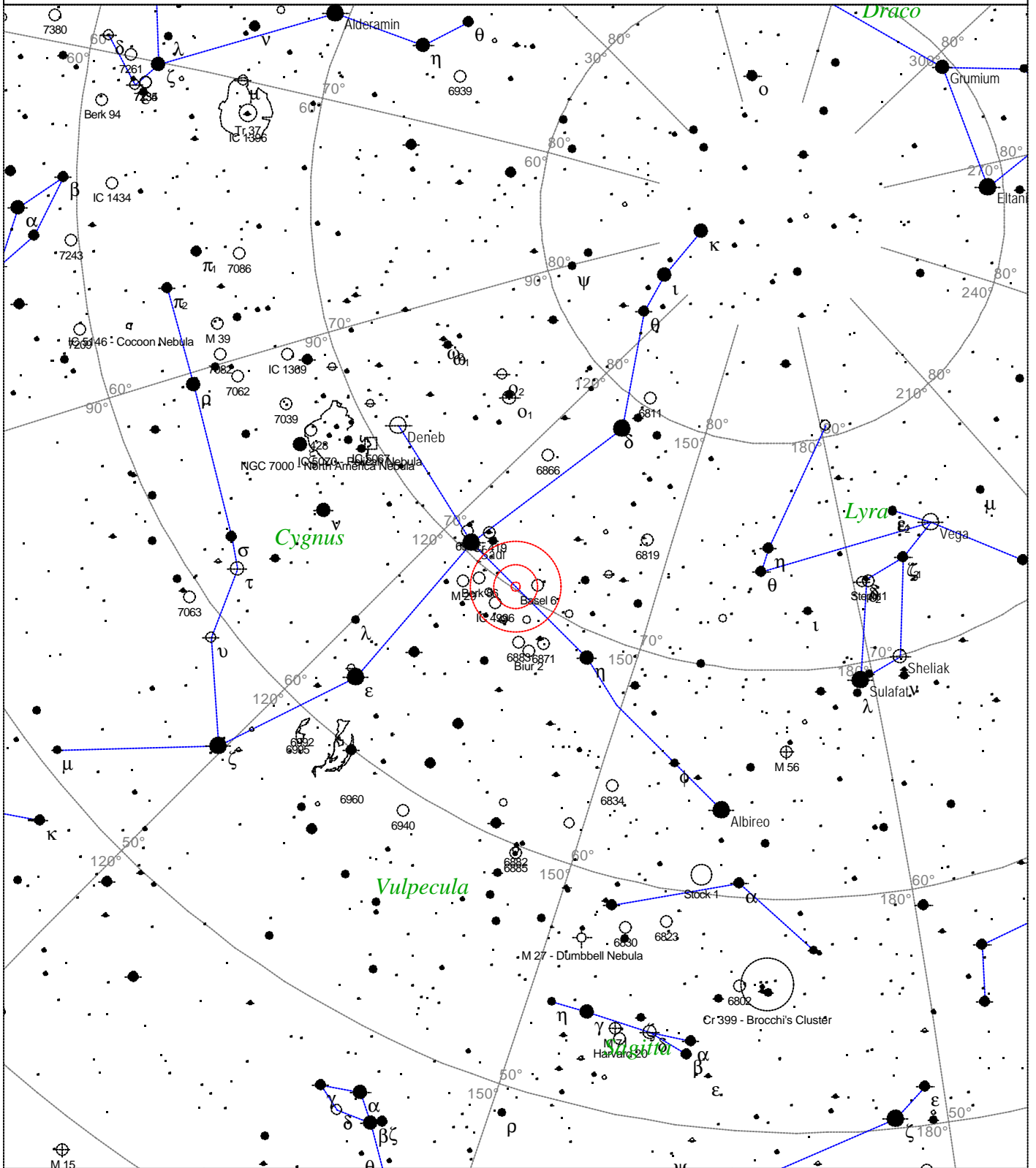
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source ✕ X-ray source ○ Other object 	<p><i>Caldwell 26 - NGC 4244</i> Type of object: Galaxy Magnitude: 10.7 Surface brightness: 12.6 mag/sq arcmin Size: 15.9'x1.8' Position angle: 48° Right ascension: 12h 17m 36s Declination: +37° 47' 47"</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 12h17m36s Dec: +37° 47' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

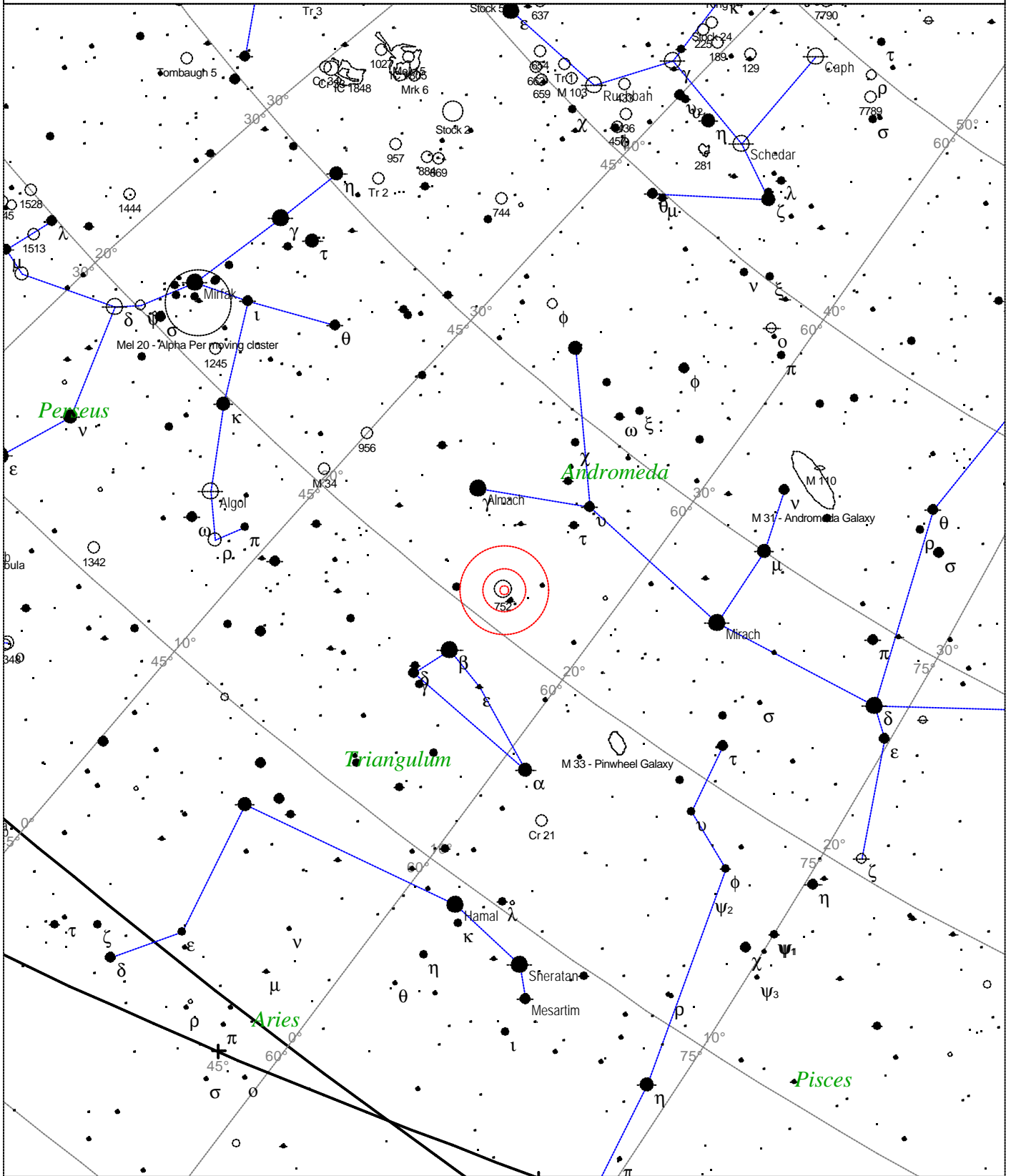
Caldwell 27 - Crescent Nebula



STARS	SYMBOLS			Caldwell 27 - NGC 6888 Popular name: Crescent Nebula Type of object: Bright nebula Magnitude: 10.0 Size: 20.0'x10.0' Right ascension: 20h 12m 13s Declination: +38° 21' 55" Constellation: Cygnus
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar 	<ul style="list-style-type: none"> △ Radio source × X-ray source ○ Other object 	

Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 20h12m13s Dec: +38° 21' Field: 45.0° Julian Day: 2452530.3196

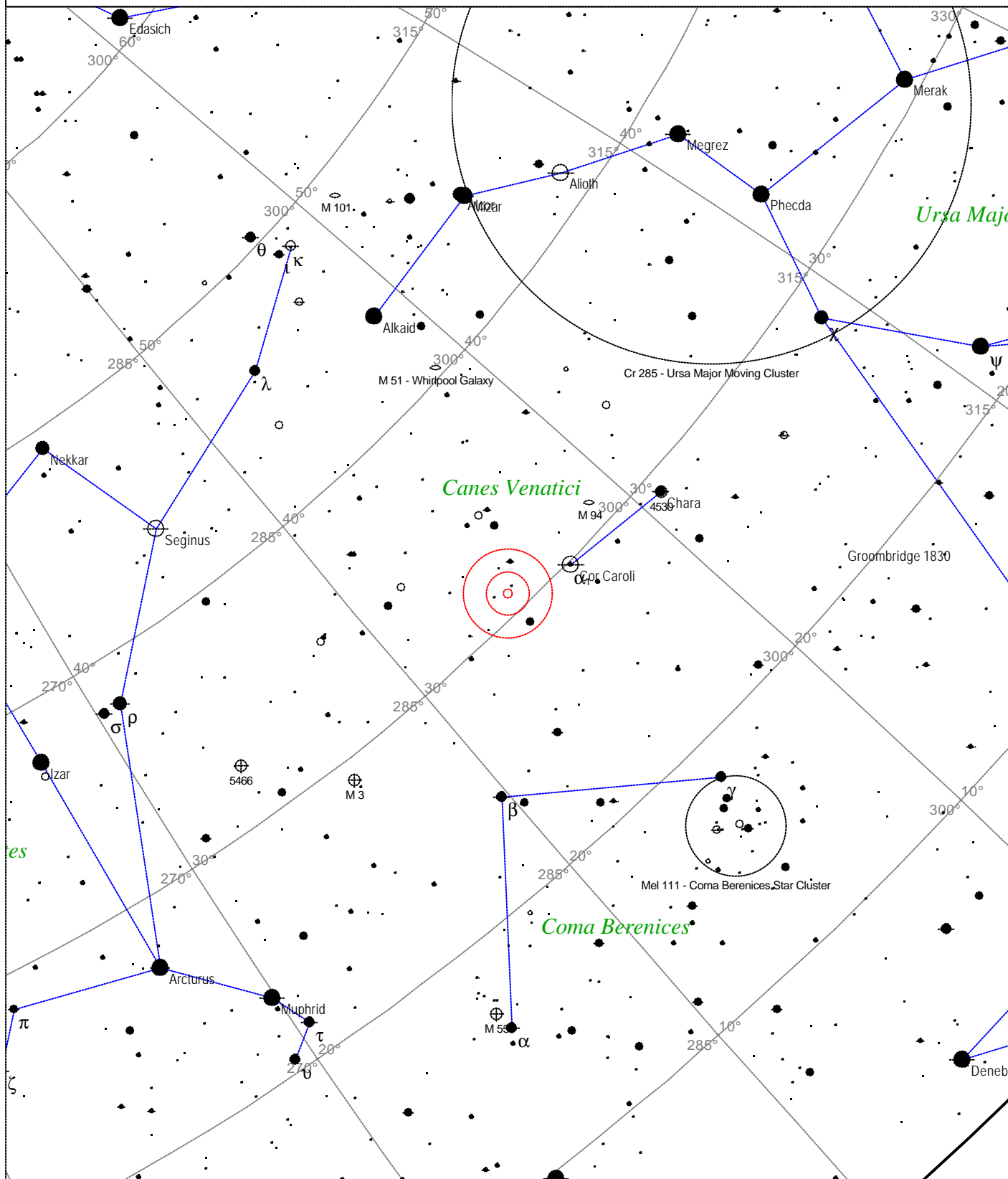
Caldwell 28 - NGC 752



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 28 - NGC 752</i> <i>Type of object: Open cluster</i> <i>Magnitude: 5.7</i> <i>Size: 50.0'</i> <i>Right ascension: 1h 57m 52s</i> <i>Declination: +37° 47' 42"</i> <i>Constellation: Andromeda</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 1h57m52s Dec: +37° 47' Field: 45.0°	Julian Day: 2452530.3196

Caldwell 29 - NGC 5005

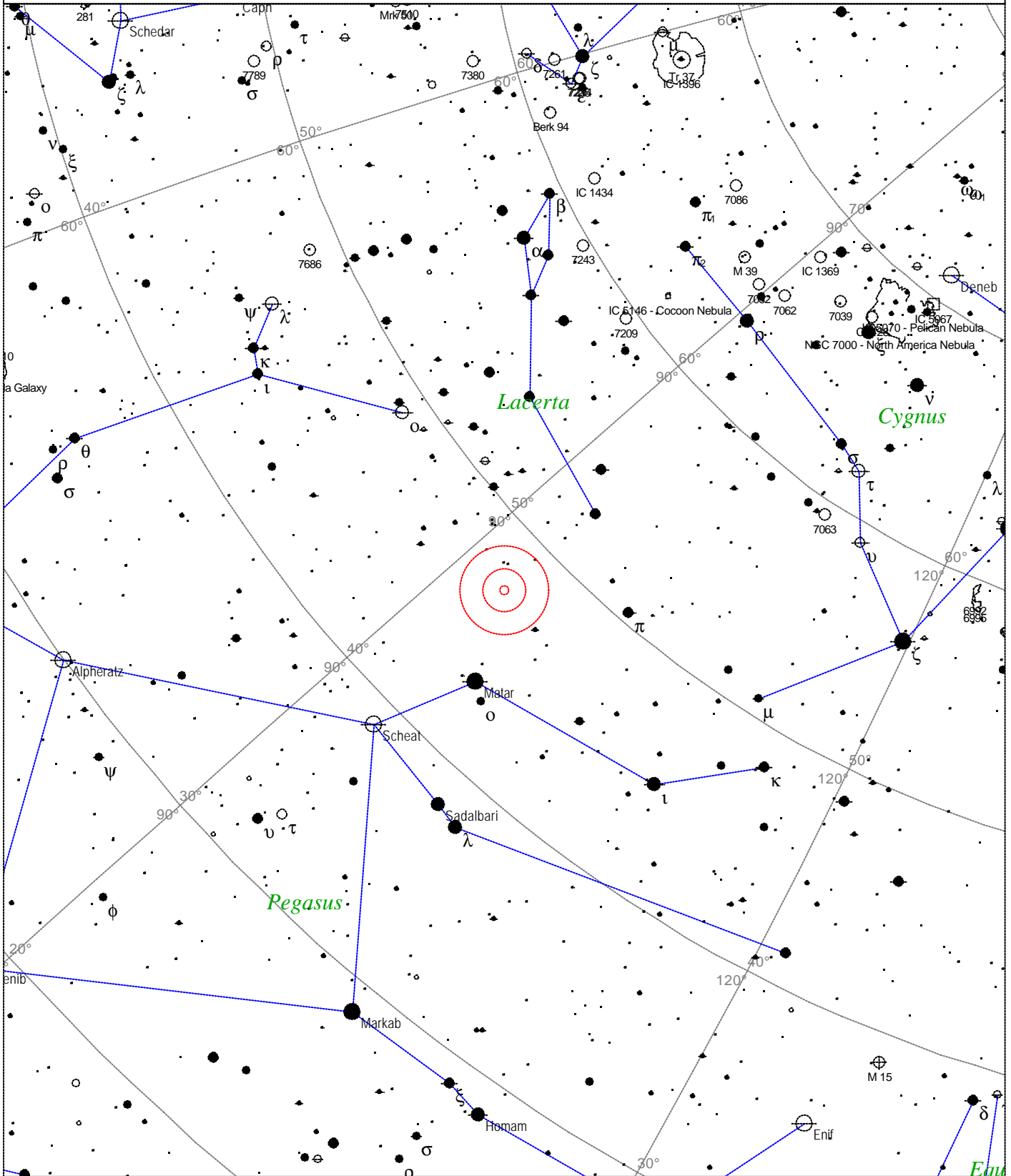


<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 29 - NGC 5005</i></p> <p>Type of object: Galaxy</p> <p>Magnitude: 10.6</p> <p>Surface brightness: 11.7 mag/sq arcmin</p> <p>Size: 5.8'x2.9'</p> <p>Position angle: 65°</p> <p>Right ascension: 13h 11m 1s</p> <p>Declination: +37° 2' 54"</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39

Location: 53° 27' 0" N 2° 31' 0" W RA: 13h11m01s Dec: +37° 02' Field: 45.0° Julian Day: 2452530.3196

Caldwell 30 - NGC 7331



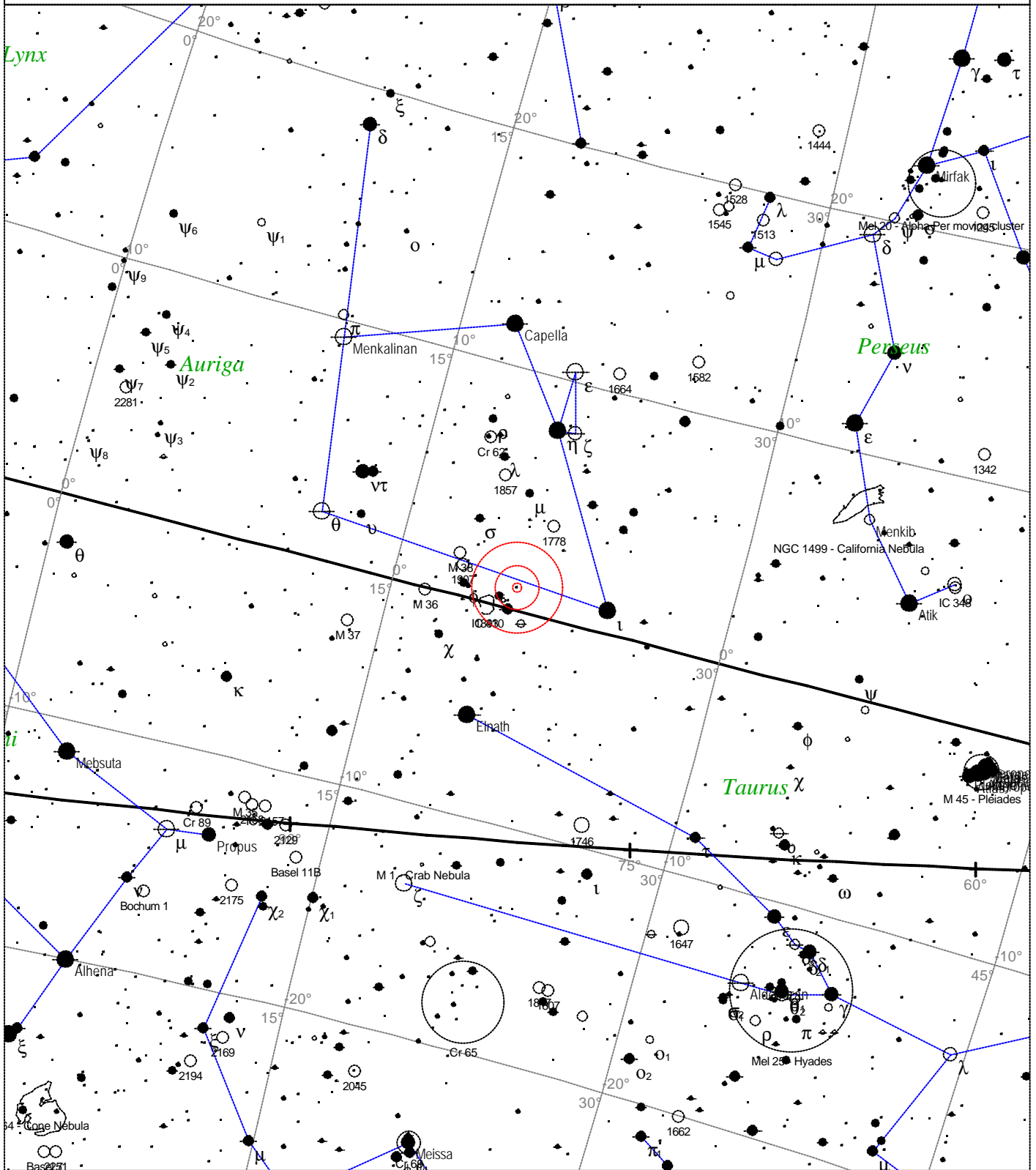
STARS	SYMBOLS			Caldwell 30 - NGC 7331
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar 	<ul style="list-style-type: none"> △ Radio source × X-ray source ○ Other object 	<p><i>Type of object: Galaxy</i></p> <p><i>Magnitude: 10.3</i></p> <p><i>Surface brightness: 11.9 mag/sq arcmin</i></p> <p><i>Size: 10.2'x4.2'</i></p> <p><i>Position angle: 171°</i></p> <p><i>Right ascension: 22h 37m 13s</i></p> <p><i>Declination: +34° 26' 3"</i></p>

Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 22h37m13s Dec: +34° 26' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

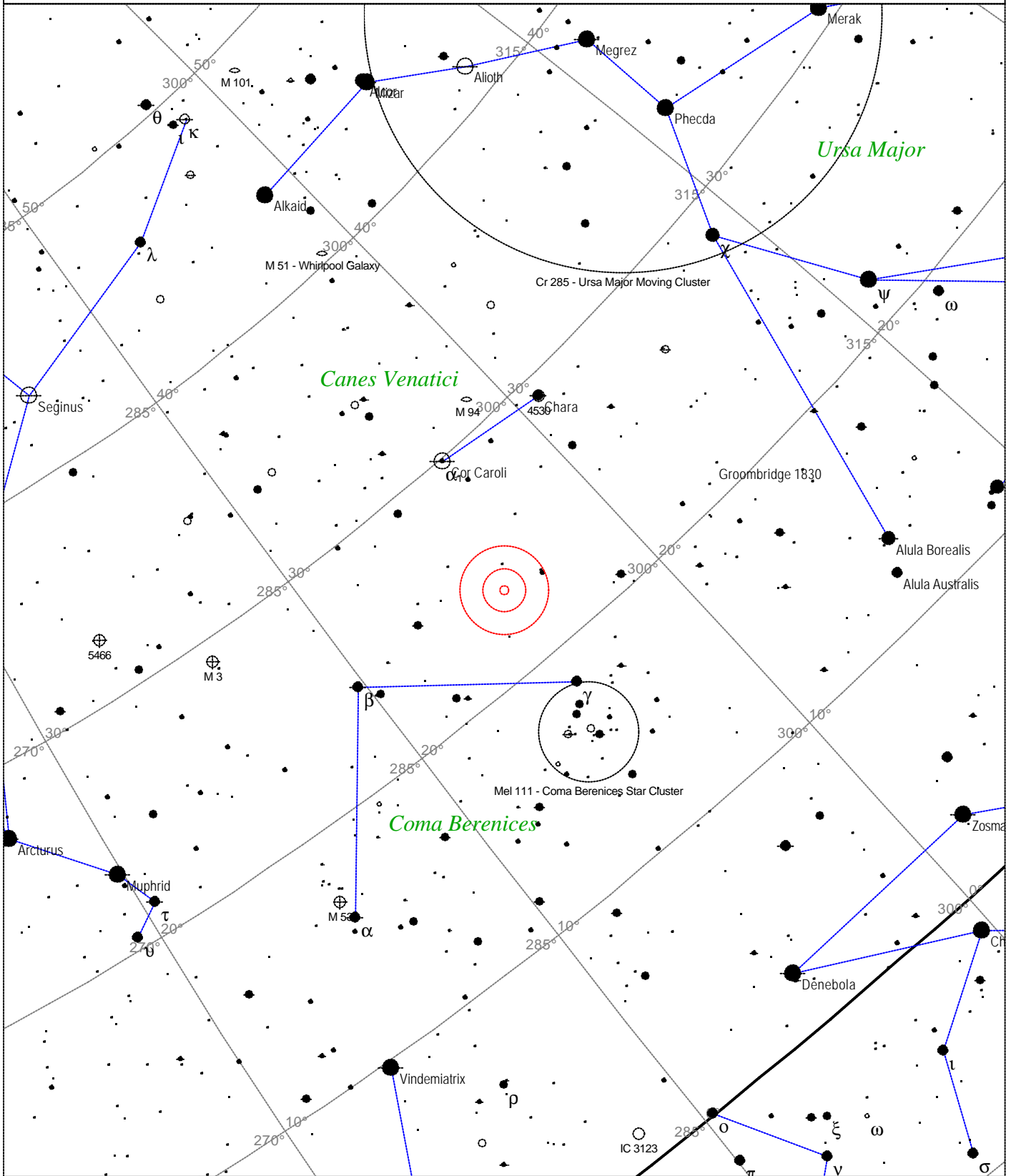
Caldwell 31 - Flaming Star Nebula



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 31 - IC 405 Popular name: Flaming Star Nebula Type of object: Bright nebula Magnitude: 10.0 Size: 50.0'x30.0' Right ascension: 5h 16m 39s Declination: +34° 21' 30" Constellation: Auriga</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 5h16m39s Dec: +34° 21' Field: 45.0° Julian Day: 2452530.3196

Caldwell 32 - NGC 4631



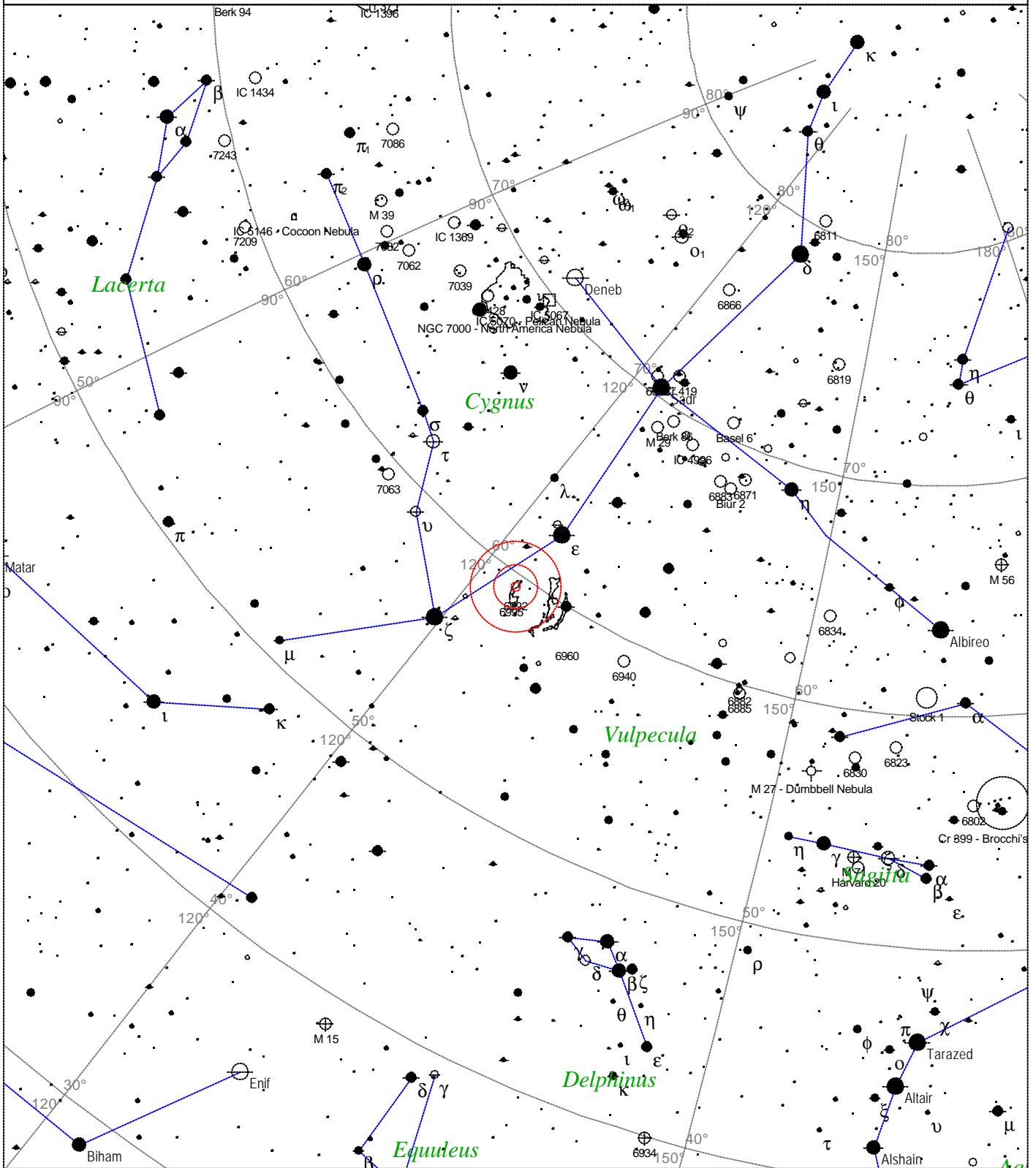
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☄ Quasar △ Radio source ✕ X-ray source ○ Other object 	<p><i>Caldwell 32 - NGC 4631</i> Type of object: Galaxy Magnitude: 9.7 Surface brightness: 12.6 mag/sq arcmin Size: 15.2'x2.8' Position angle: 86° Right ascension: 12h 42m 13s Declination: +32° 31' 51"</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 12h42m13s Dec: +32° 31' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

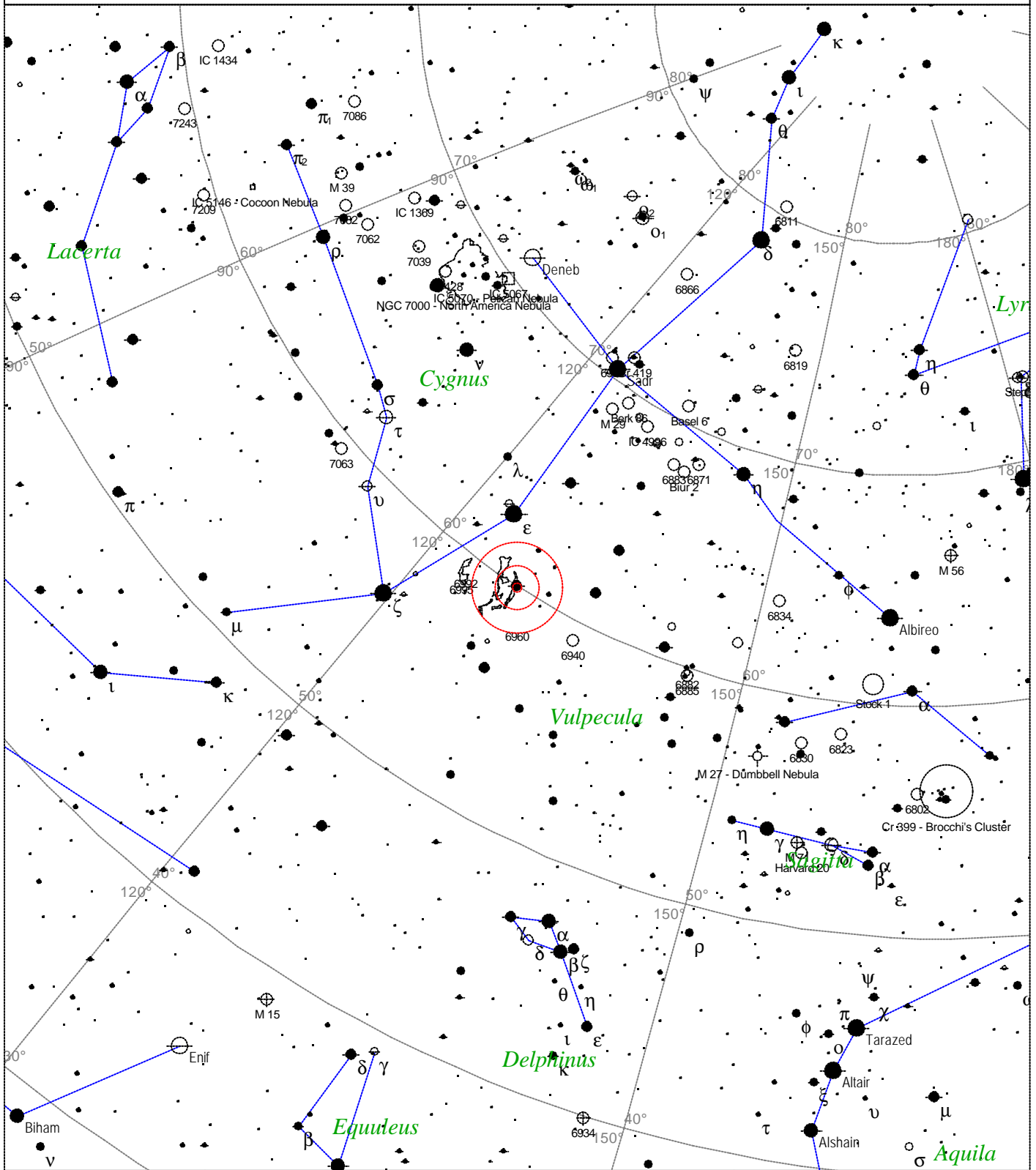
Caldwell 33 - Eastern Veil Nebula



STARS	SYMBOLS			Caldwell 33 - NGC 6992/5 - Eastern Veil Nebula Type of object: Bright nebula Magnitude: 7.0 Size: 60.0' Right ascension: 20h 56m 31s Declination: +31° 43' 43" Constellation: Cygnus
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar 	<ul style="list-style-type: none"> △ Radio source × X-ray source ○ Other object 	

Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 20h56m31s Dec: +31° 43' Field: 45.0° Julian Day: 2452530.3196

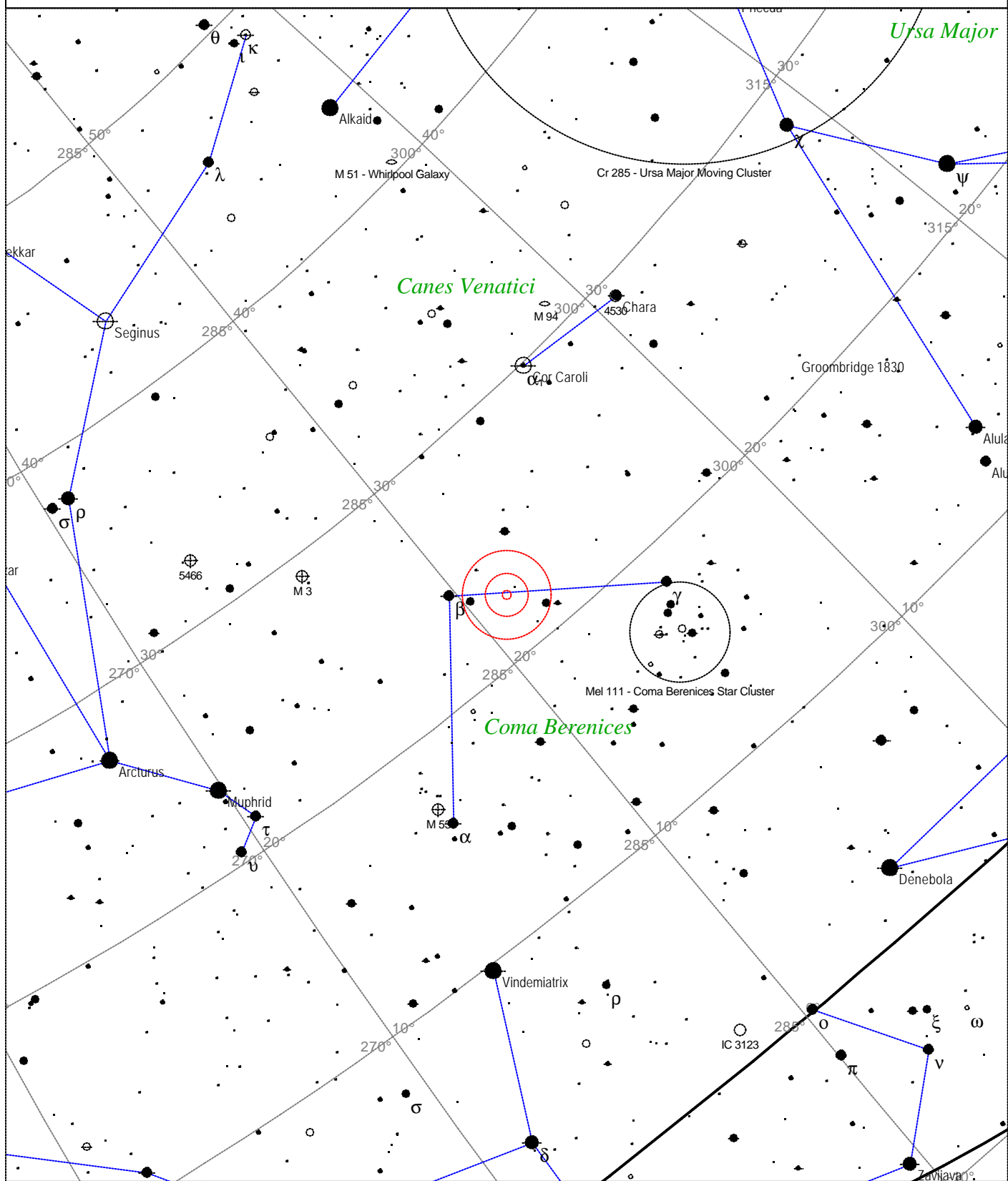
Caldwell 34 - Western Veil Nebula



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 34 - NGC 6960 - Western Veil Nebula</i> <i>Type of object: Supernova remnant</i> <i>Magnitude: 7.0</i> <i>Size: 210.0'x160.0'</i> <i>Right ascension: 20h 45m 49s</i> <i>Declination: +30° 43' 42"</i> <i>Constellation: Cygnus</i></p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 20h45m49s Dec: +30° 43' Field: 45.0° Julian Day: 2452530.3196

Caldwell 35 - NGC 4889

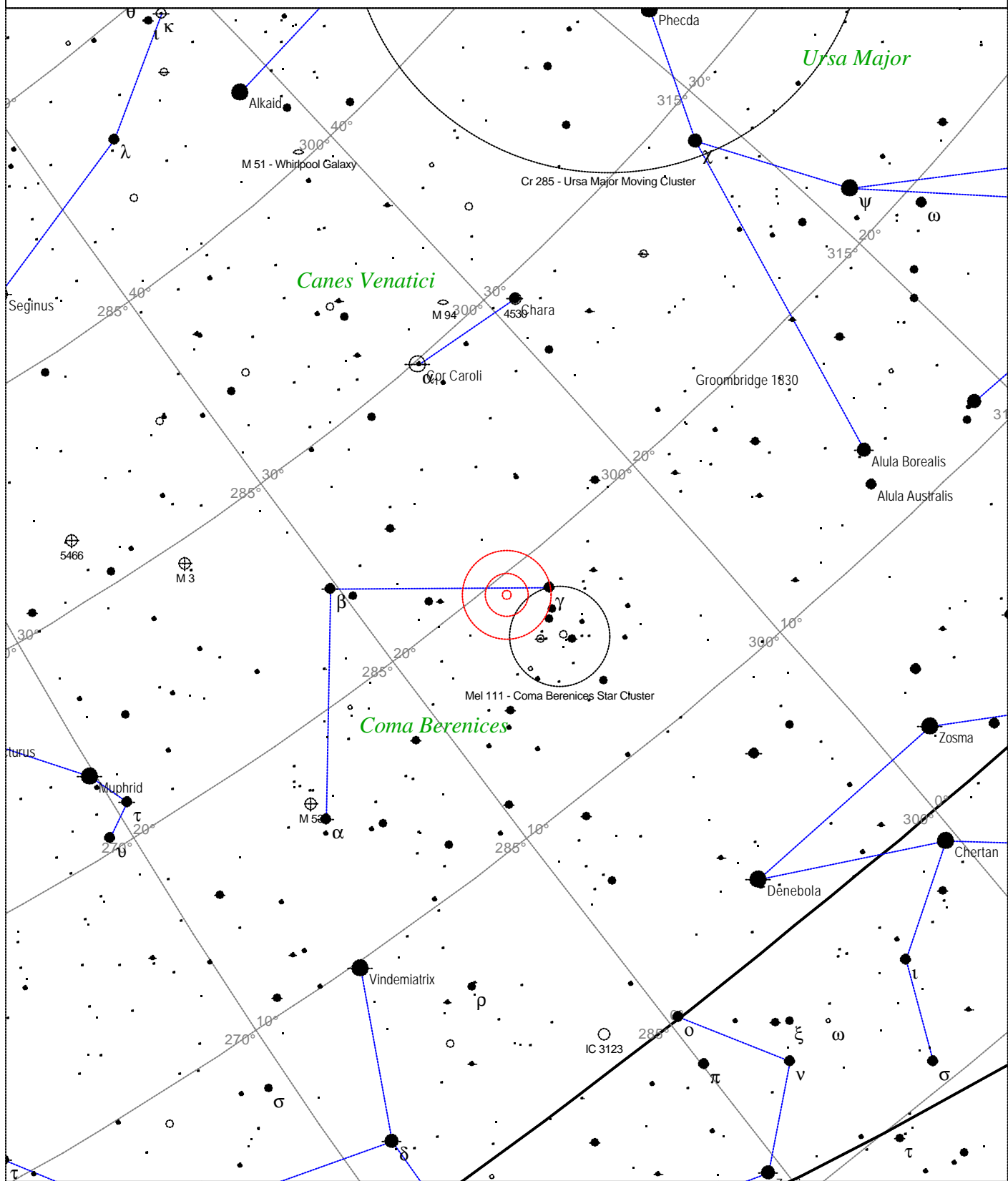


STARS		SYMBOLS		
● <3	· 6	● Multiple star	□ Dark nebula	△ Radio source
● 3.5	· 6.5	○ Variable star	⊕ Globular cluster	× X-ray source
● 4	· >7	☄ Comet	○ Open cluster	○ Other object
● 4.5		☾ Galaxy	⊕ Planetary nebula	
● 5		□ Bright nebula	☄ Quasar	
● 5.5				

Caldwell 35 - NGC 4889

Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 13h00m14s Dec: +27° 57' Field: 45.0° Julian Day: 2452530.3196

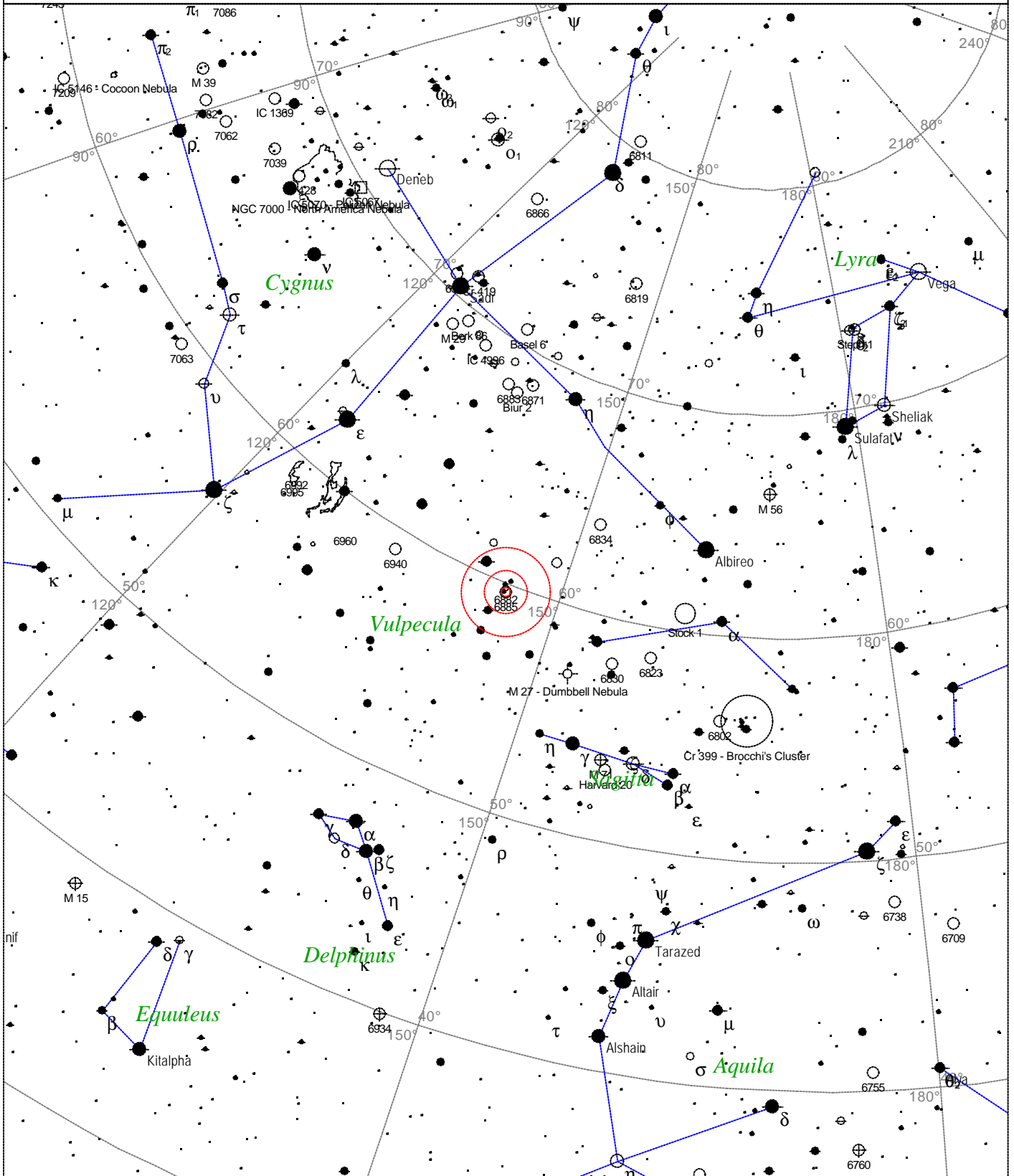
Caldwell 36 - NGC 4559



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar △ Radio source ✕ X-ray source ○ Other object 	<p><i>Caldwell 36 - NGC 4559</i> Type of object: Galaxy Magnitude: 10.3 Surface brightness: 13.0 mag/sq arcmin Size: 11.0'x4.9' Position angle: 150° Right ascension: 12h 36m 4s Declination: +27° 56' 55"</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 12h36m04s Dec: +27° 56' Field: 45.0° Julian Day: 2452530.3196

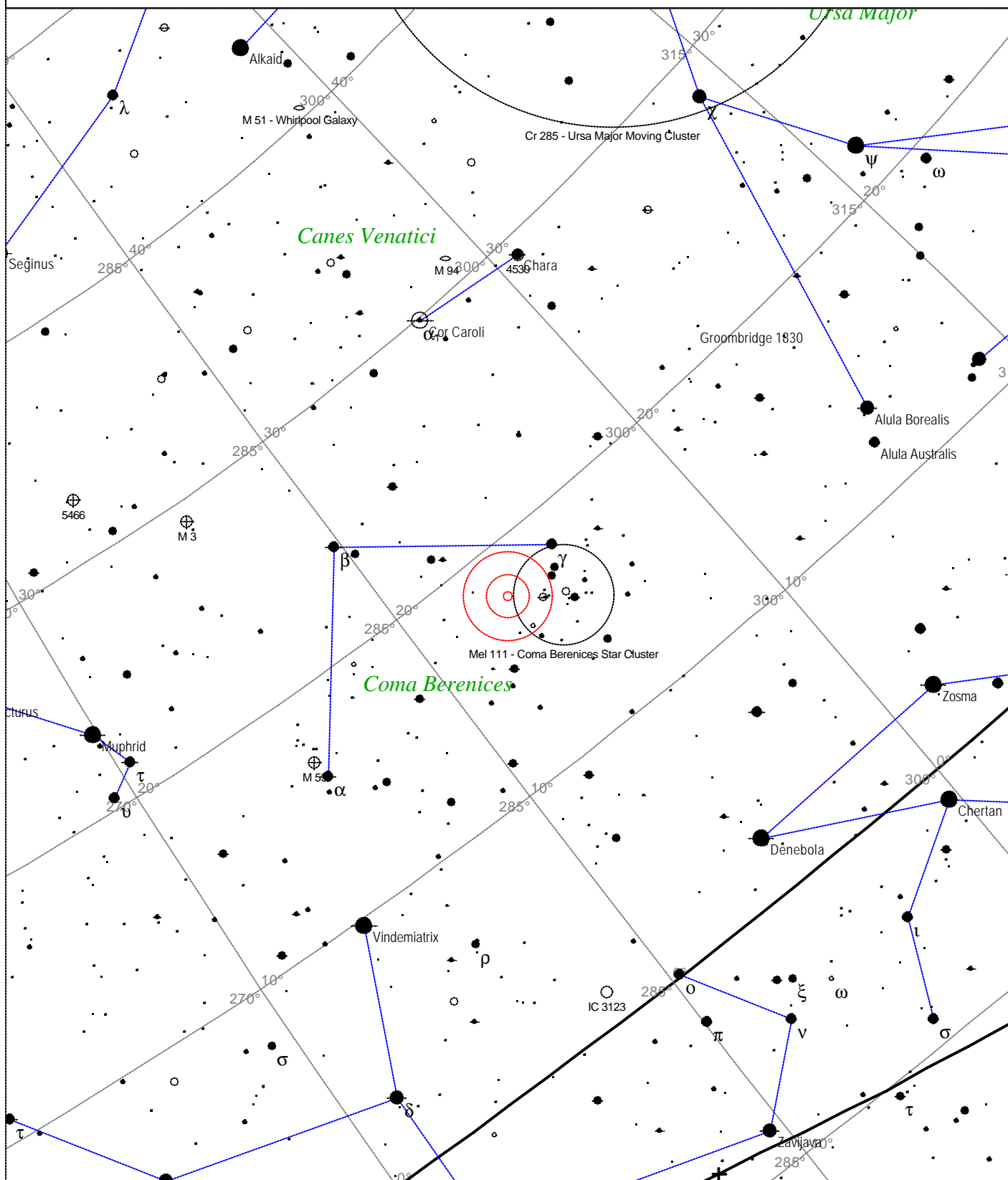
Caldwell 37 - NGC 6885



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 37 - NGC 6885</i> Type of object: Open cluster Magnitude: 5.7 Size: 7.0' Right ascension: 20h 12m 5s Declination: +26° 29' 36" Constellation: Vulpecula</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 20h12m05s Dec: +26° 29' Field: 45.0° Julian Day: 2452530.3196

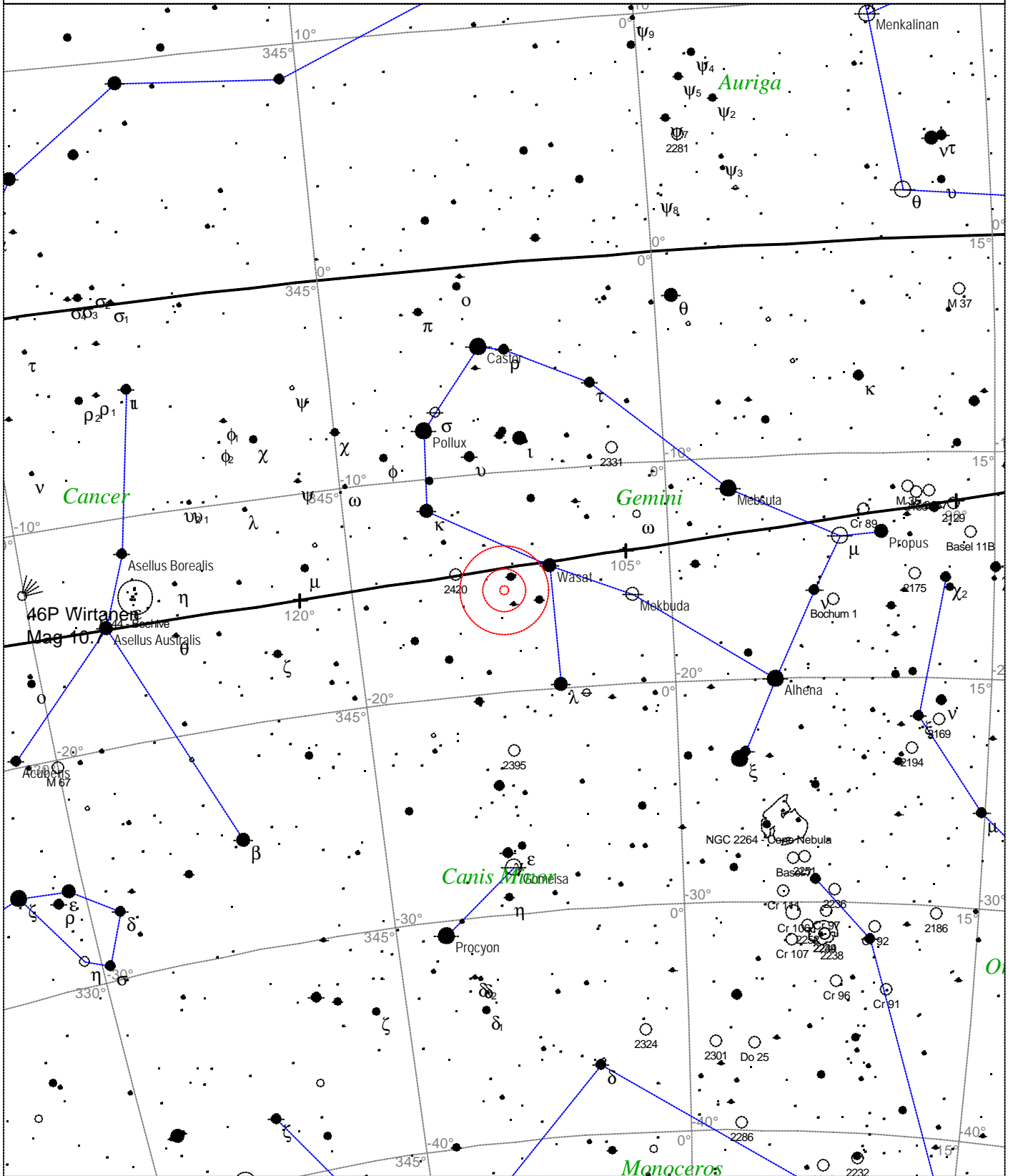
Caldwell 38 - NGC 4565



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 38 - NGC 4565</i> <i>Type of object: Galaxy</i> <i>Magnitude: 10.3</i> <i>Surface brightness: 12.2 mag/sq arcmin</i> <i>Size: 14.9'x2.0'</i> <i>Position angle: 136°</i> <i>Right ascension: 12h 36m 26s</i> <i>Declination: +25° 58' 36"</i></p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 12h36m26s Dec: +25° 58' Field: 45.0° Julian Day: 2452530.3196

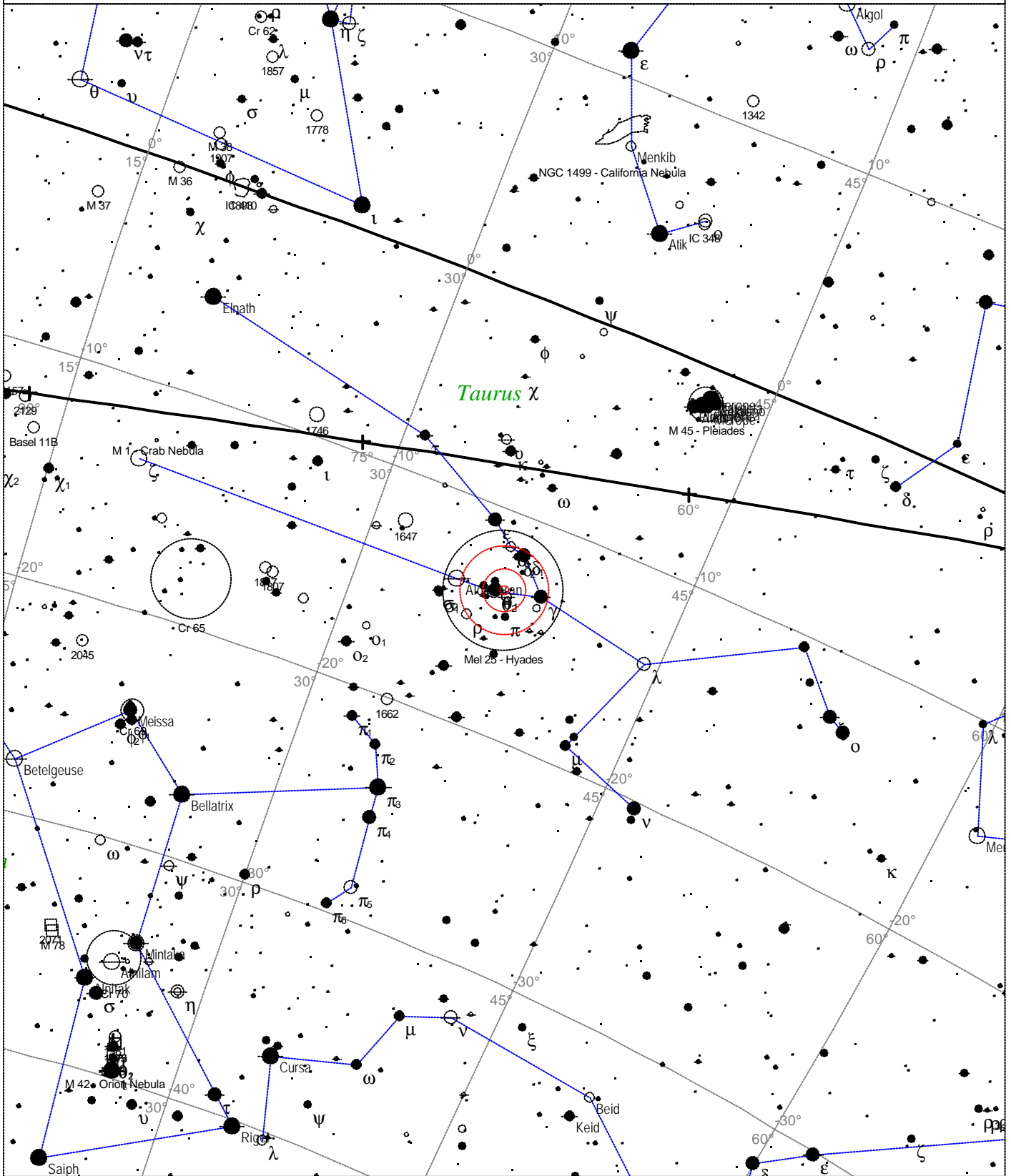
Caldwell 39 - Eskimo Nebula



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula 	<p>SYMBOLS</p> <ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 39 - Eskimo Nebula Name: NGC 2392 Popular name: Eskimo Nebula Type of object: Planetary nebula Magnitude: 9.9 Size: 15.0" Right ascension: 7h 29m 19s Declination: +20° 54' 30"</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 7h29m19s Dec: +20° 54' Field: 45.0° Julian Day: 2452530.3196

Caldwell 41 - The Hyades



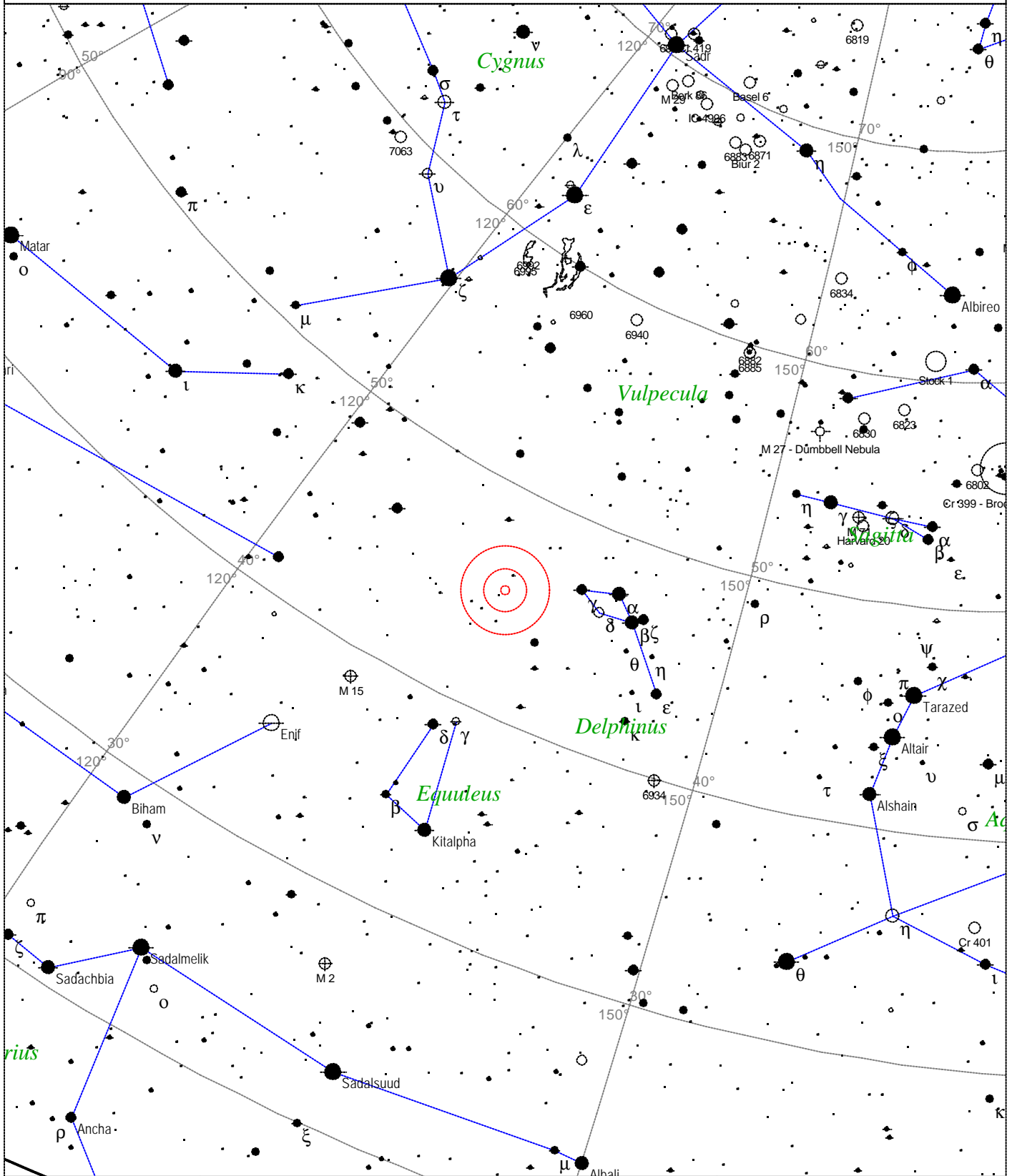
STARS	SYMBOLS			Caldwell 41 - Hyades
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar 	<ul style="list-style-type: none"> △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 41 - Hyades</i> Type of object: Open cluster Magnitude: 0.5 Size: 330.0' Right ascension: 4h 27m 8s Declination: +16° 0' 24" Constellation: Taurus</p>

Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 4h27m08s Dec: +16° 00' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

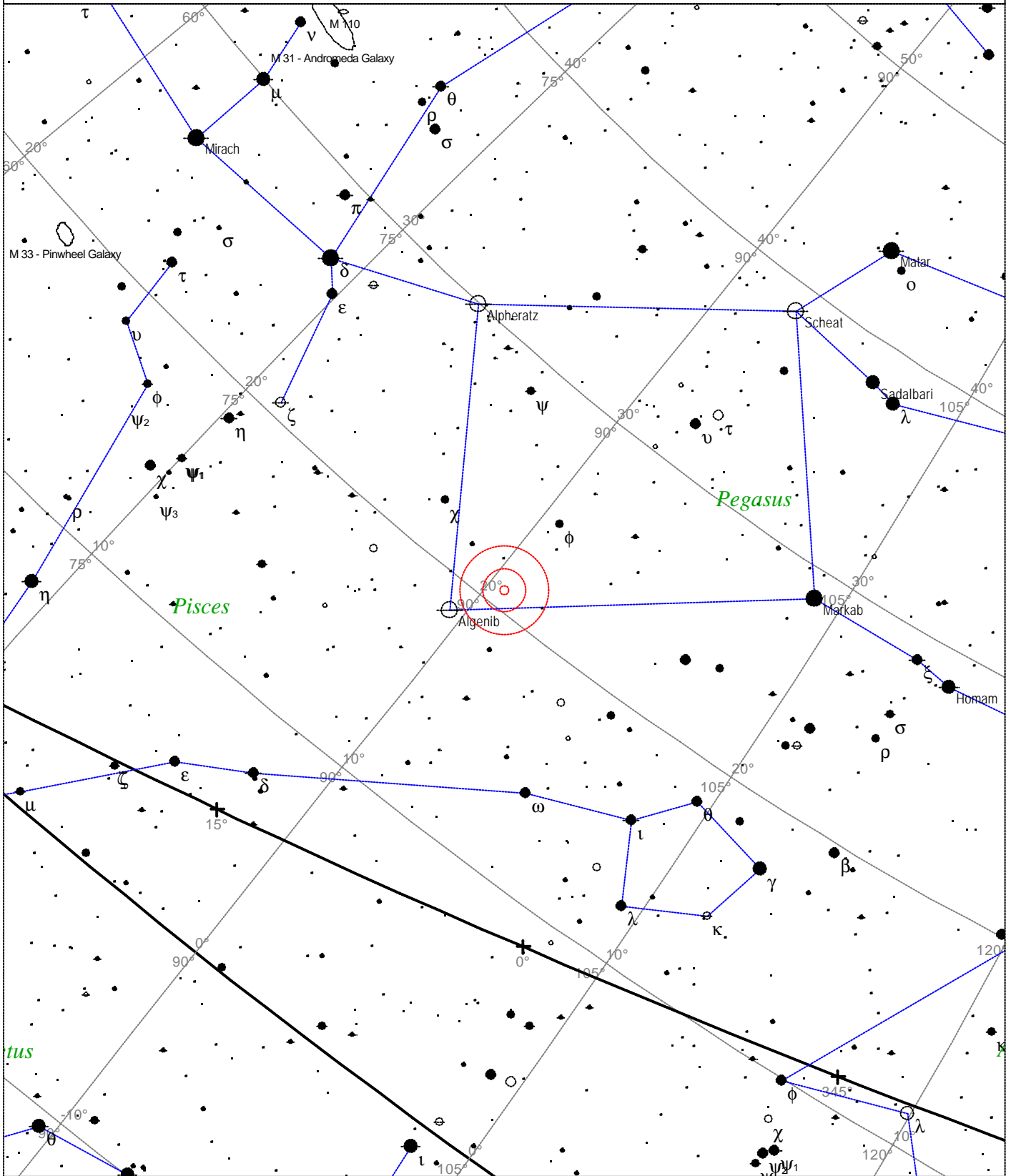
Caldwell 42 - NGC 7006



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 42 - NGC 7006</i> Type of object: Globular cluster Magnitude: 10.6 Size: 2.2' Right ascension: 21h 1m 37s Declination: +16° 11' 57" Constellation: Delphinus</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 21h01m37s Dec: +16° 11' Field: 45.0° Julian Day: 2452530.3196

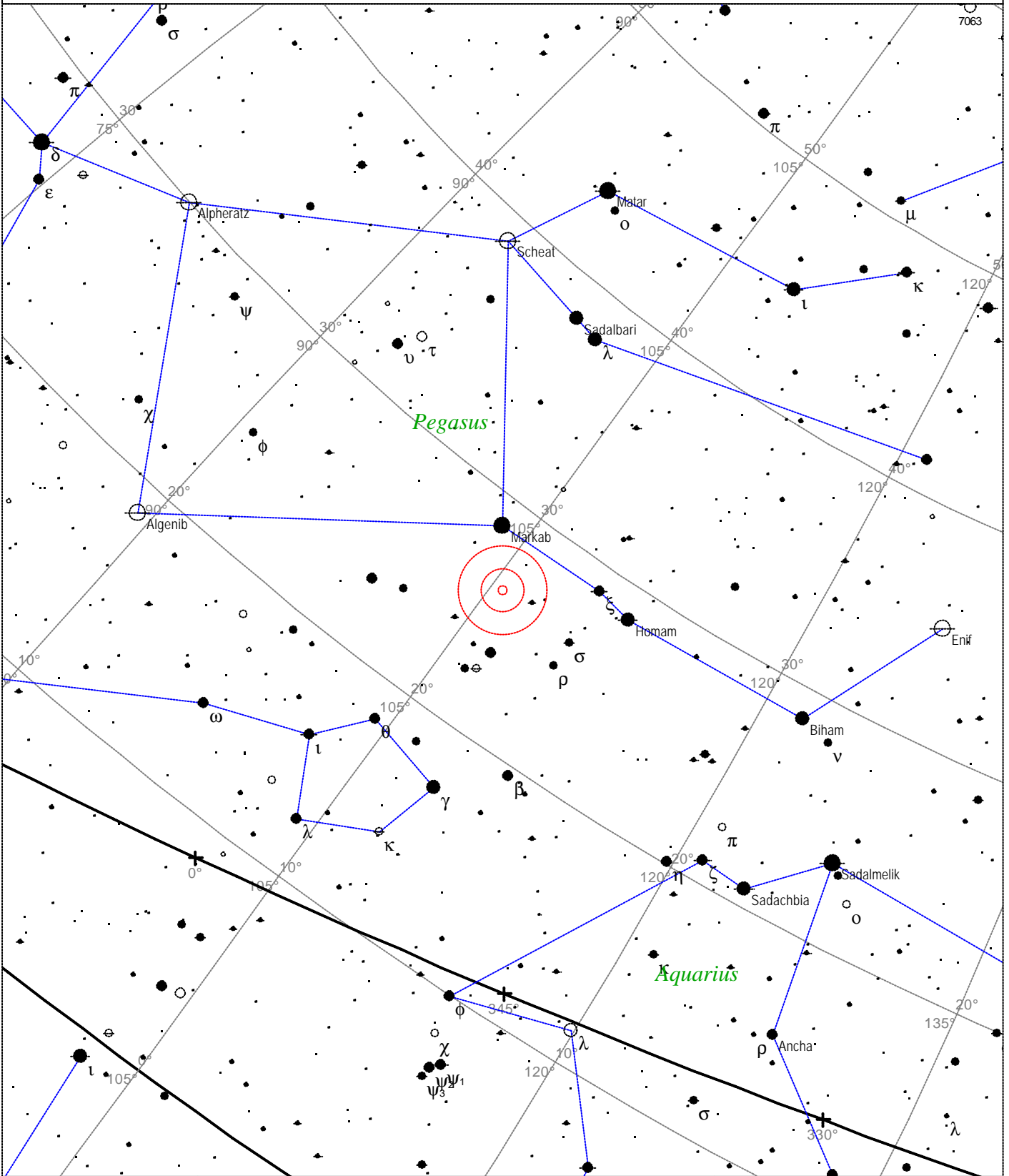
Caldwell 43 - NGC 7814



<p>STARS</p> <ul style="list-style-type: none"> ● <3 · 6 ● 3.5 · 6.5 ● 4 · >7 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 43 - NGC 7814</i> Type of object: Galaxy Magnitude: 11.6 Surface brightness: 12.8 mag/sq arcmin Size: 4.7'x2.4' Position angle: 135° Right ascension: 0h 3m 23s Declination: +16° 9' 35"</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 0h03m23s Dec: +16° 09' Field: 45.0°	Julian Day: 2452530.3196

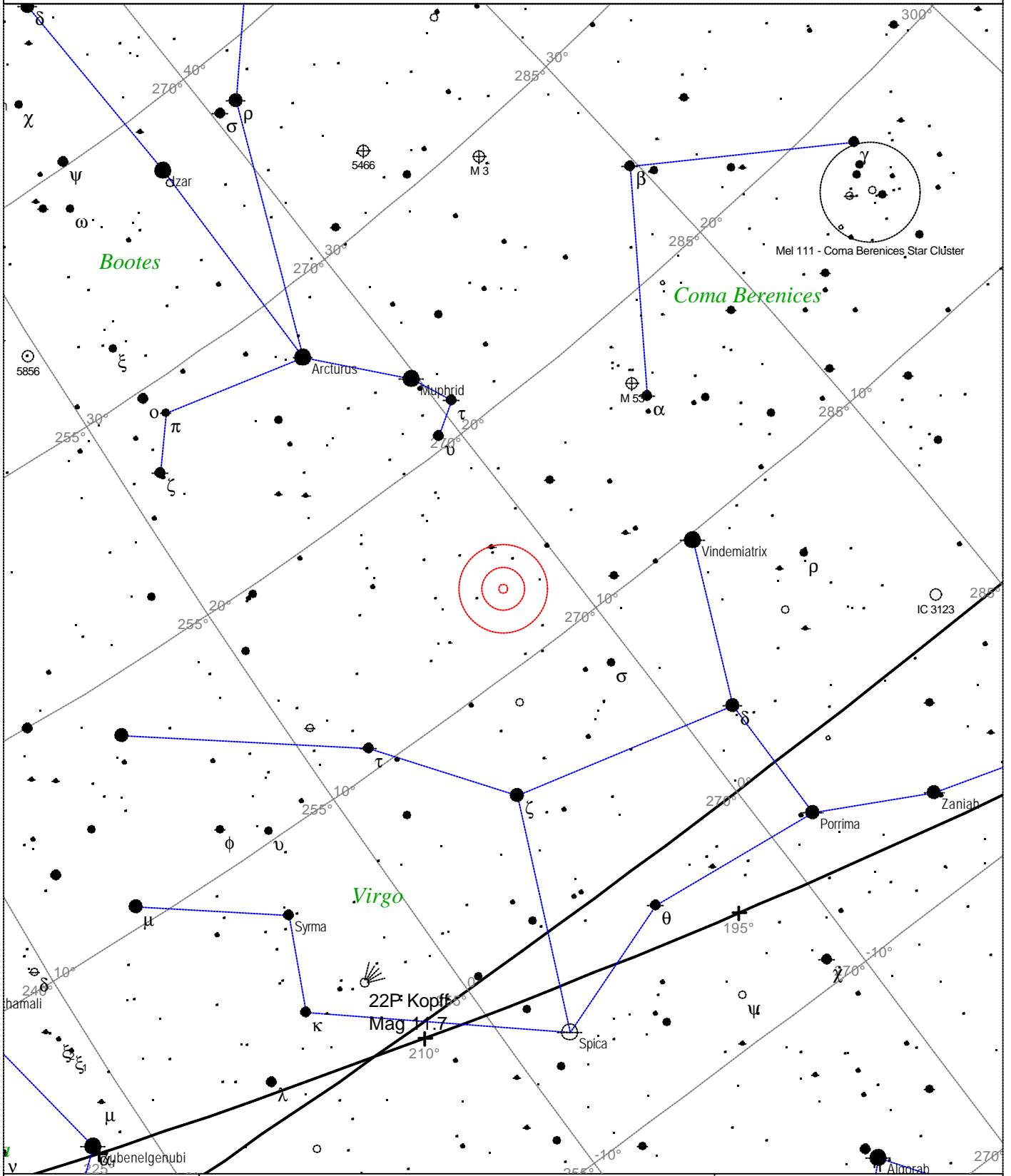
Caldwell 44 - NGC 7479



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 44 - NGC 7479</i> Type of object: Galaxy Magnitude: 11.6 Surface brightness: 12.8 mag/sq arcmin Size: 4.0'x3.1' Position angle: 25° Right ascension: 23h 5m 5s Declination: +12° 20' 12"</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 23h05m05s Dec: +12° 20' Field: 45.0°	Julian Day: 2452530.3196

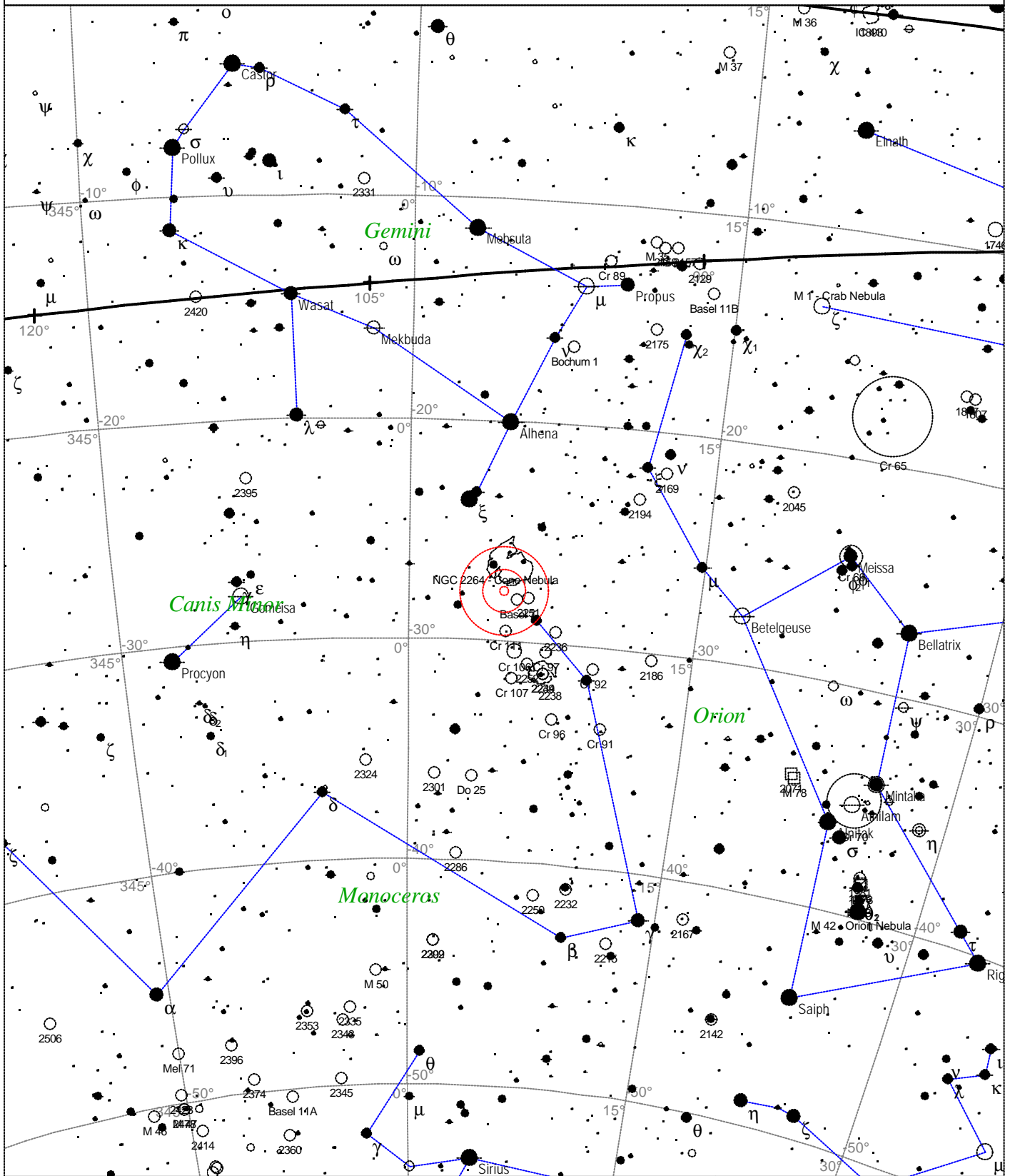
Caldwell 45 - NGC 5248



<p>STARS</p> <ul style="list-style-type: none"> ● <3 · 6 ● 3.5 · 6.5 ● 4 · >7 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 45 - NGC 5248</i> Type of object: Galaxy Magnitude: 10.9 Surface brightness: 12.7 mag/sq arcmin Size: 5.9'x4.5' Position angle: 110° Right ascension: 13h 37m 38s Declination: +8° 52' 33"</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 13h37m38s Dec: +8° 52' Field: 45.0°	Julian Day: 2452530.3196

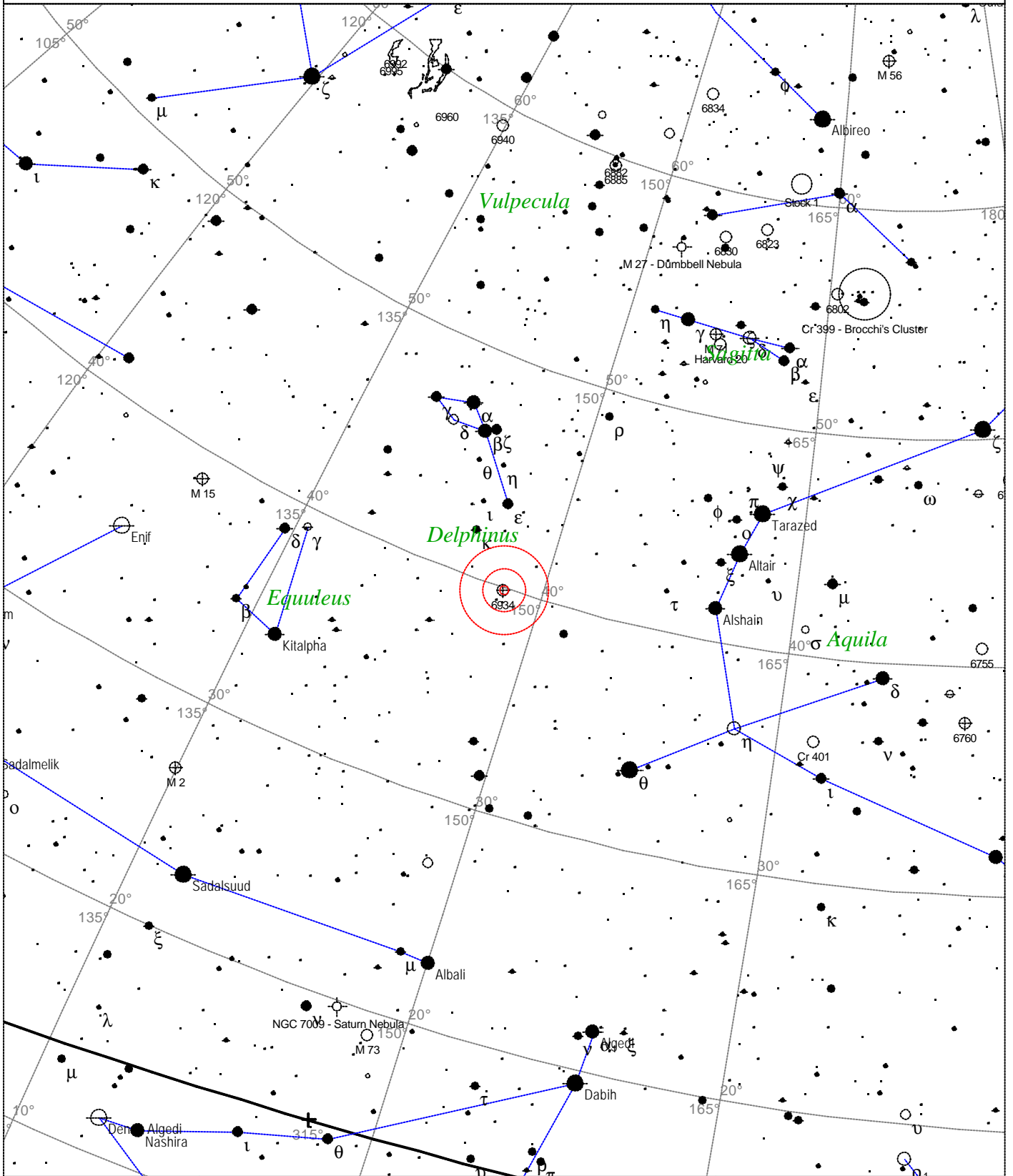
Caldwell 46 - NGC 2261



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 46 - NGC 2261</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 6h39m17s Dec: +8° 44' Field: 45.0° Julian Day: 2452530.3196

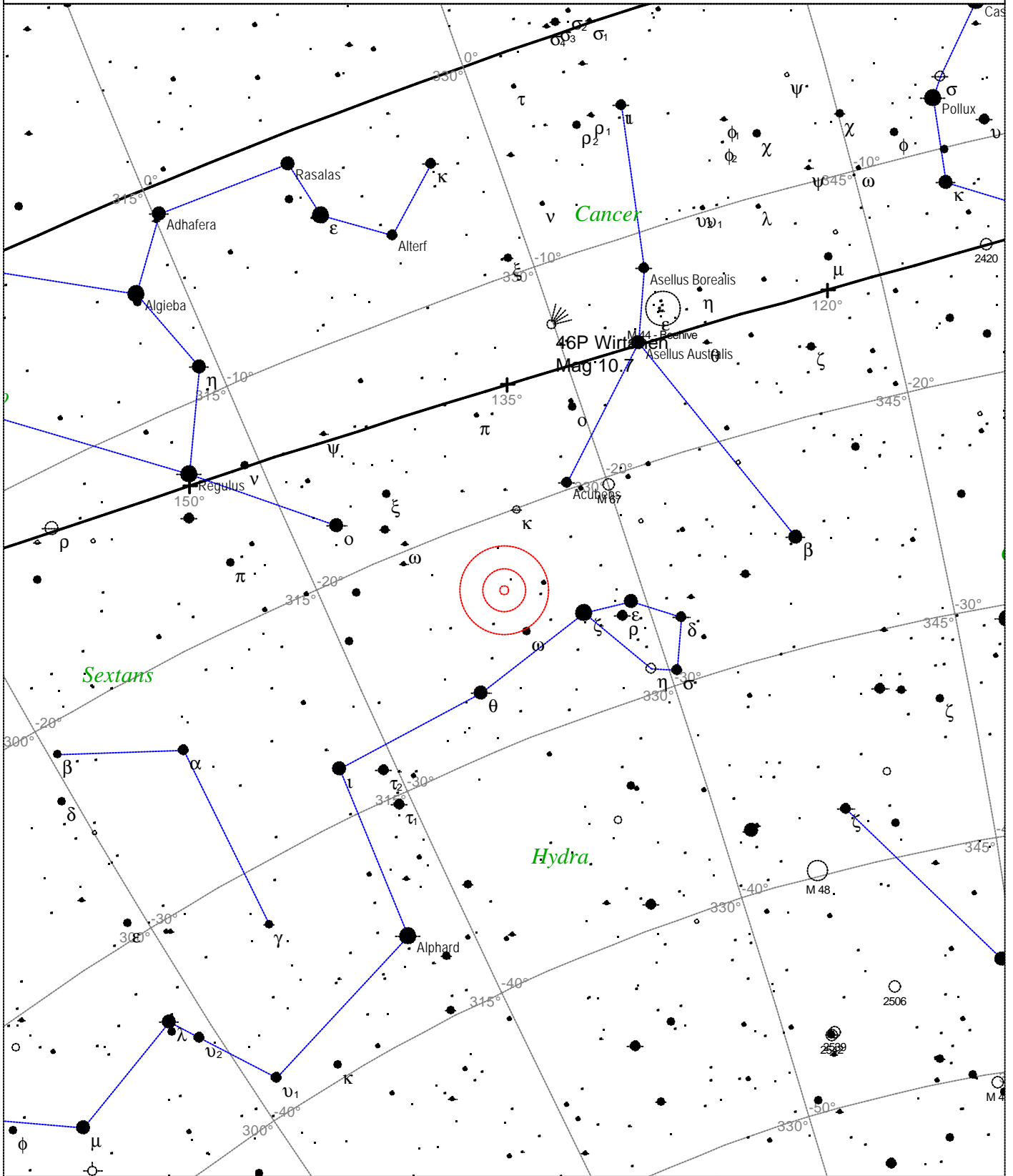
Caldwell 47 - NGC 6934



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 47 - NGC 6934</i> Type of object: Globular cluster Magnitude: 8.8 Size: 6.2' Right ascension: 20h 34m 20s Declination: +7° 24' 52" Constellation: Delphinus</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 20h34m20s Dec: +7° 24' Field: 45.0° Julian Day: 2452530.3196

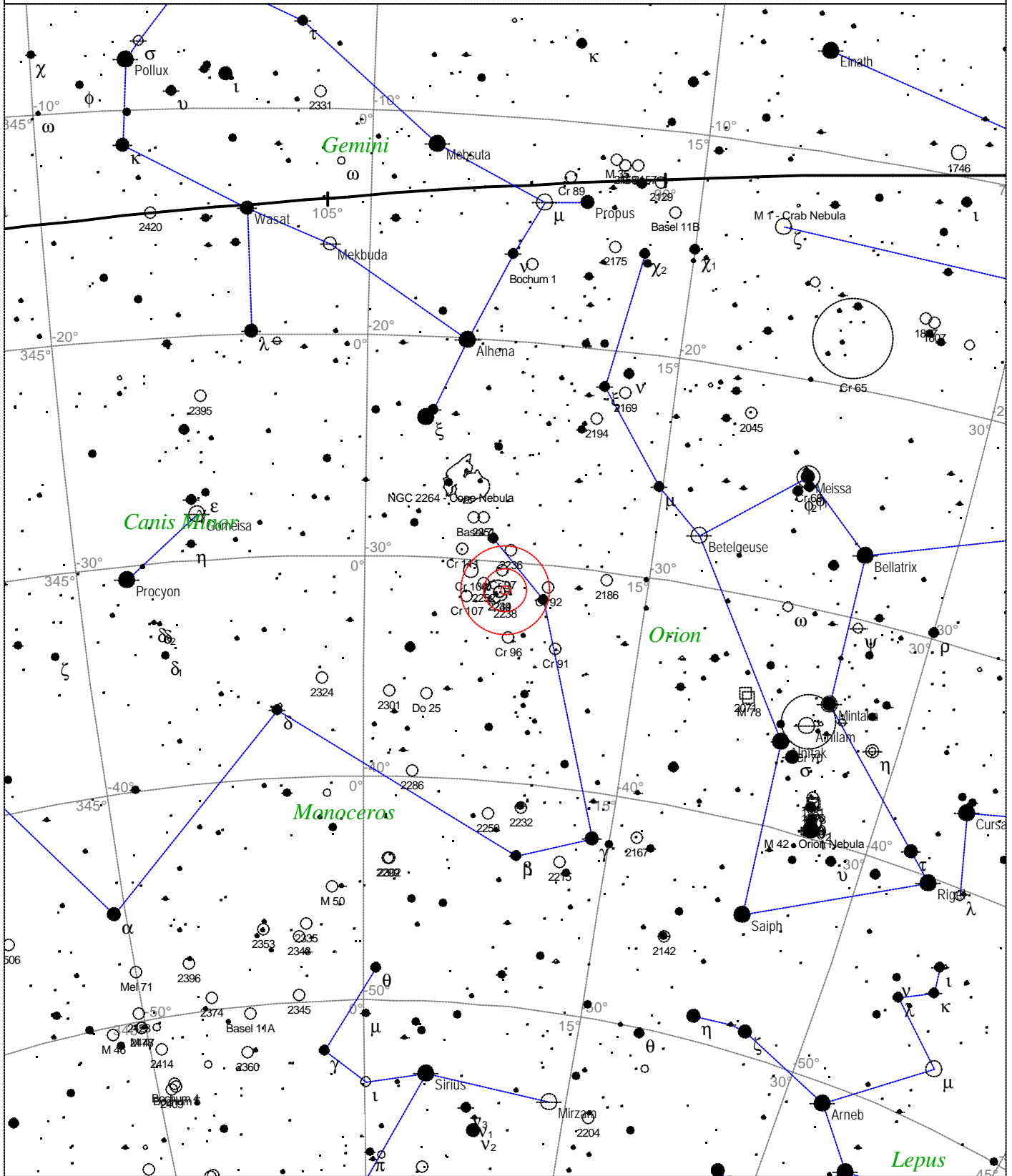
Caldwell 48 - NGC 2775



STARS	SYMBOLS			Caldwell 48 - NGC 2775 Type of object: Galaxy Magnitude: 11.2 Surface brightness: 12.0 mag/sq arcmin Size: 4.5x3.6" Position angle: 155° Right ascension: 9h 10m 27s Declination: +7° 1' 46"
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ○ Open cluster ⊕ Planetary nebula ⊞ Quasar 	<ul style="list-style-type: none"> △ Radio source × X-ray source ○ Other object 	

Local Time: 19:40:11 12-Sep-2002 Location: 53° 27' 0" N 2° 31' 0" W	UTC: 19:40:11 12-Sep-2002 RA: 9h10m27s Dec: +7° 01' Field: 45.0°	Sidereal Time: 18:56:39 Julian Day: 2452530.3196
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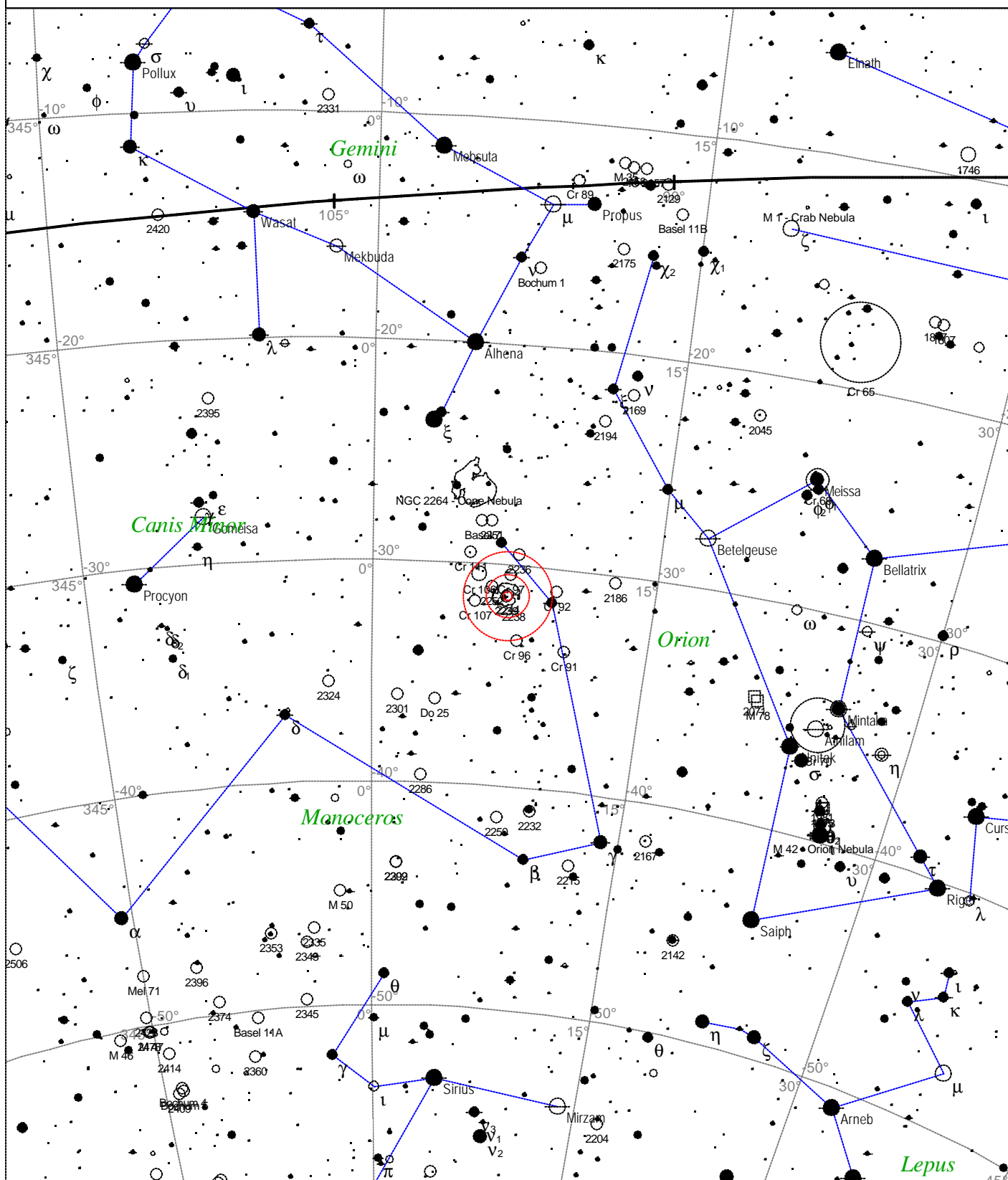
Caldwell 49 - Rosette Nebula



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 49 - Rosette Nebula</i> Name: NGC 2237 Popular name: Rosette Nebula Type of object: Open cluster Right ascension: 6h 31m 2s Declination: +5° 3' 0" Constellation: Monoceros</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 6h31m02s Dec: +5° 03' Field: 45.0° Julian Day: 2452530.3196

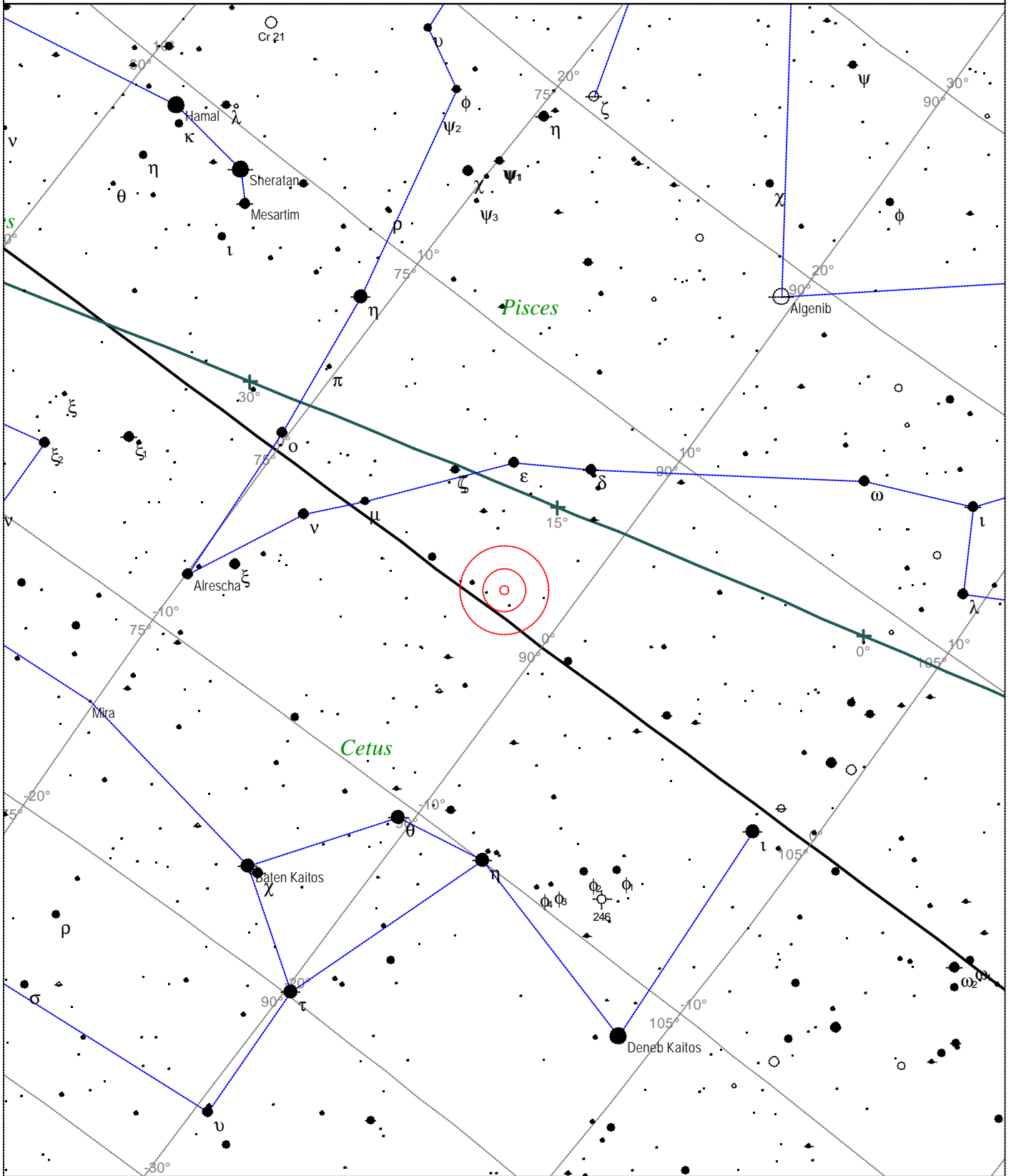
Caldwell 50 - NGC 2244



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 50 - NGC 2244</i> <i>Type of object: Bright nebula</i> <i>Magnitude: 4.8</i> <i>Size: 24.0'</i> <i>Right ascension: 6h 32m 1s</i> <i>Declination: +4° 57' 3"</i> <i>Constellation: Monoceros</i></p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 6h32m03s Dec: +4° 56' Field: 45.0° Julian Day: 2452530.3196

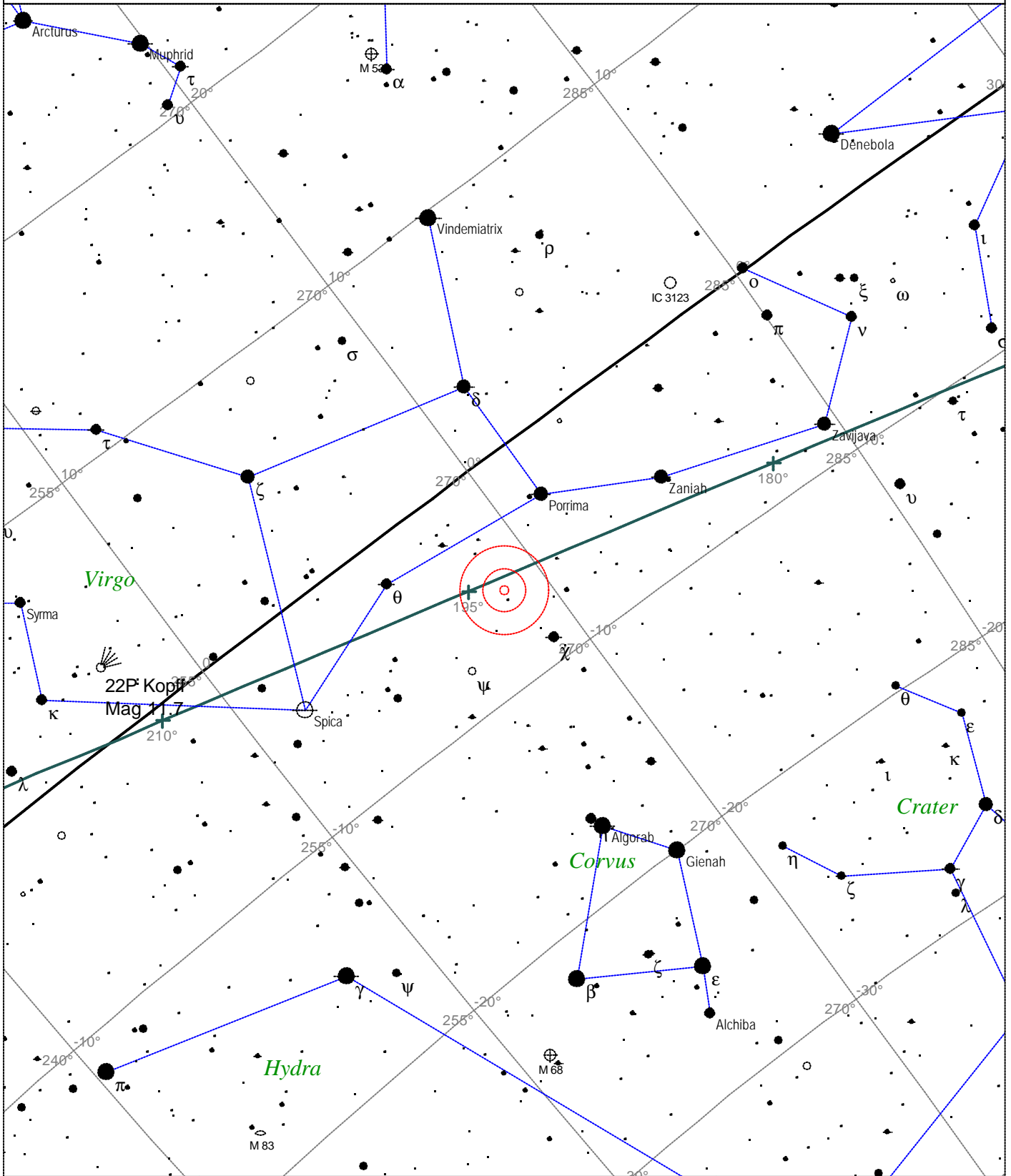
Caldwell 51 - IC 1613



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 51 - IC 1613</i> Type of object: Galaxy Magnitude: 9.9 Surface brightness: 15.9 mag/sq arcmin Size: 16.6'x14.9' Position angle: 50° Right ascension: 1h 5m 3s Declination: +2° 8' 54"</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 1h05m03s Dec: +2° 08' Field: 45.0°	Julian Day: 2452530.3196

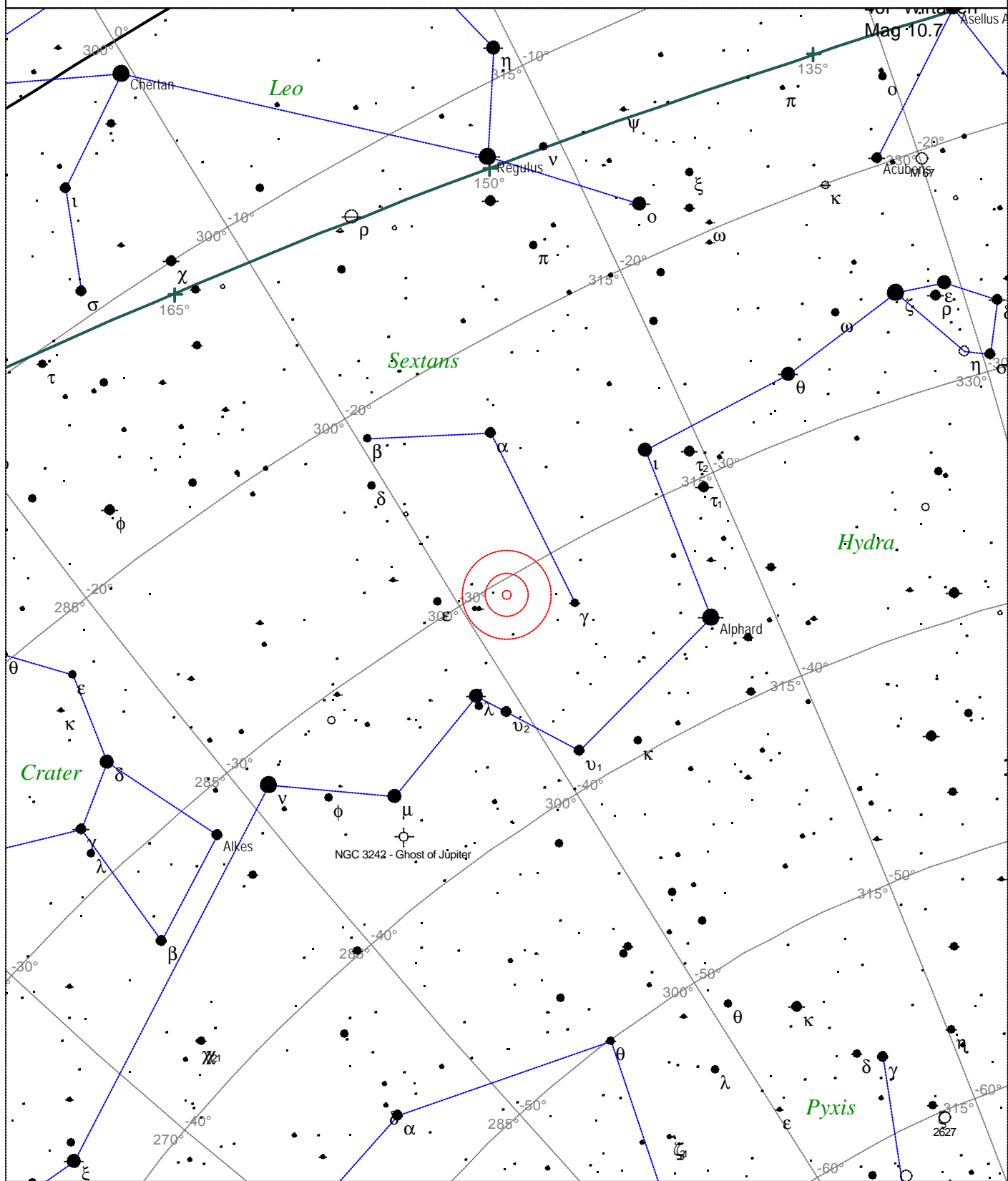
Caldwell 52 - NGC 4697



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 52 - NGC 4697</i> Type of object: Galaxy Magnitude: 10.1 Surface brightness: 12.5 mag/sq arcmin Size: 6.2'x4.5' Position angle: 70° Right ascension: 12h 48m 42s Declination: -5° 48' 42"</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 12h48m42s Dec: -5° 48' Field: 45.0°	Julian Day: 2452530.3196

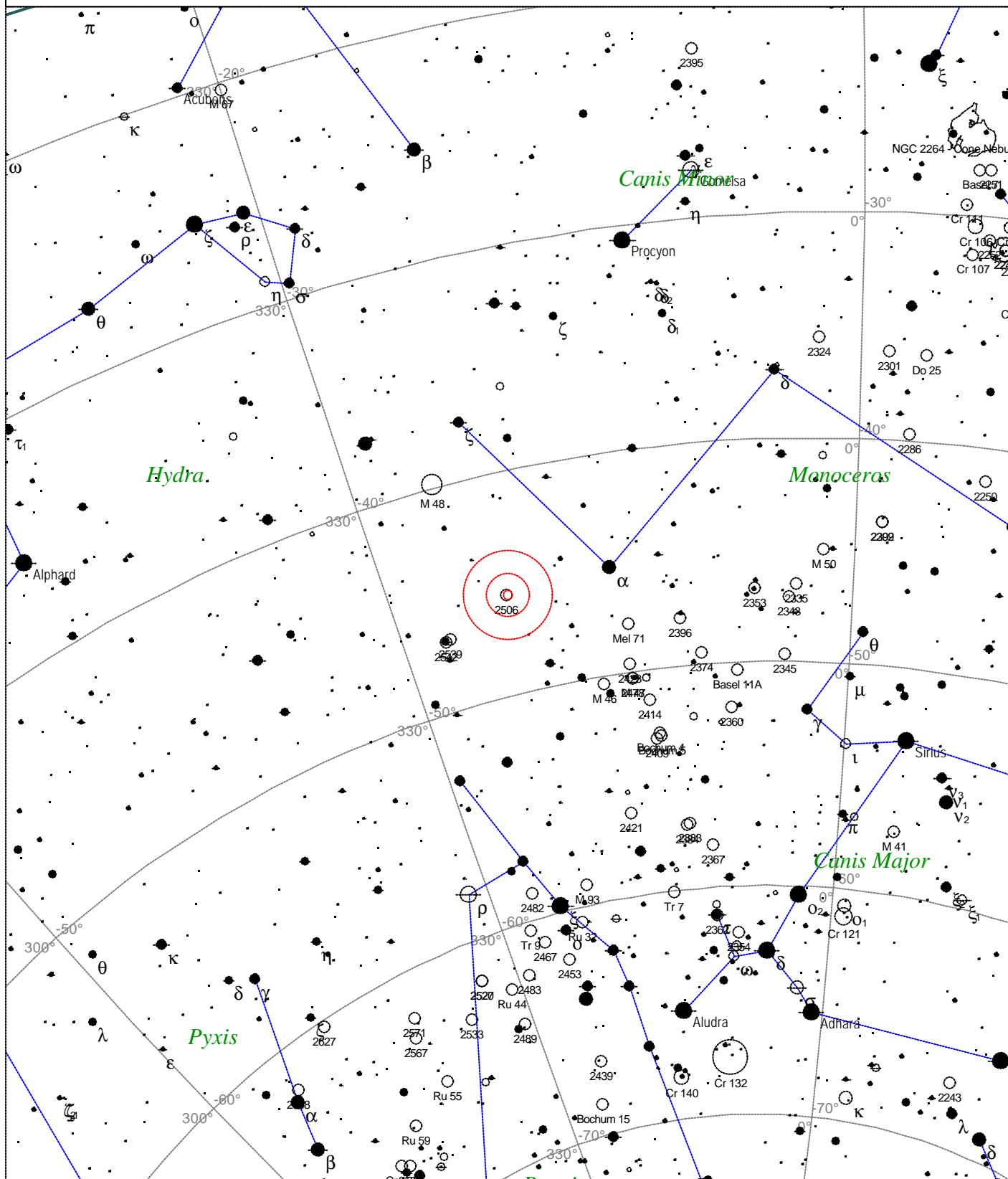
Caldwell 53 - Spindle Galaxy



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 53 - NGC 3115 Popular name: Spindle Galaxy Type of object: Galaxy Magnitude: 10.1 Surface brightness: 11.2 mag/sq arcmin Size: 7.3'x3.4' Position angle: 43° Right ascension: 10h 5m 20s</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 10h05m20s Dec: -7° 43' Field: 45.0° Julian Day: 2452530.3196

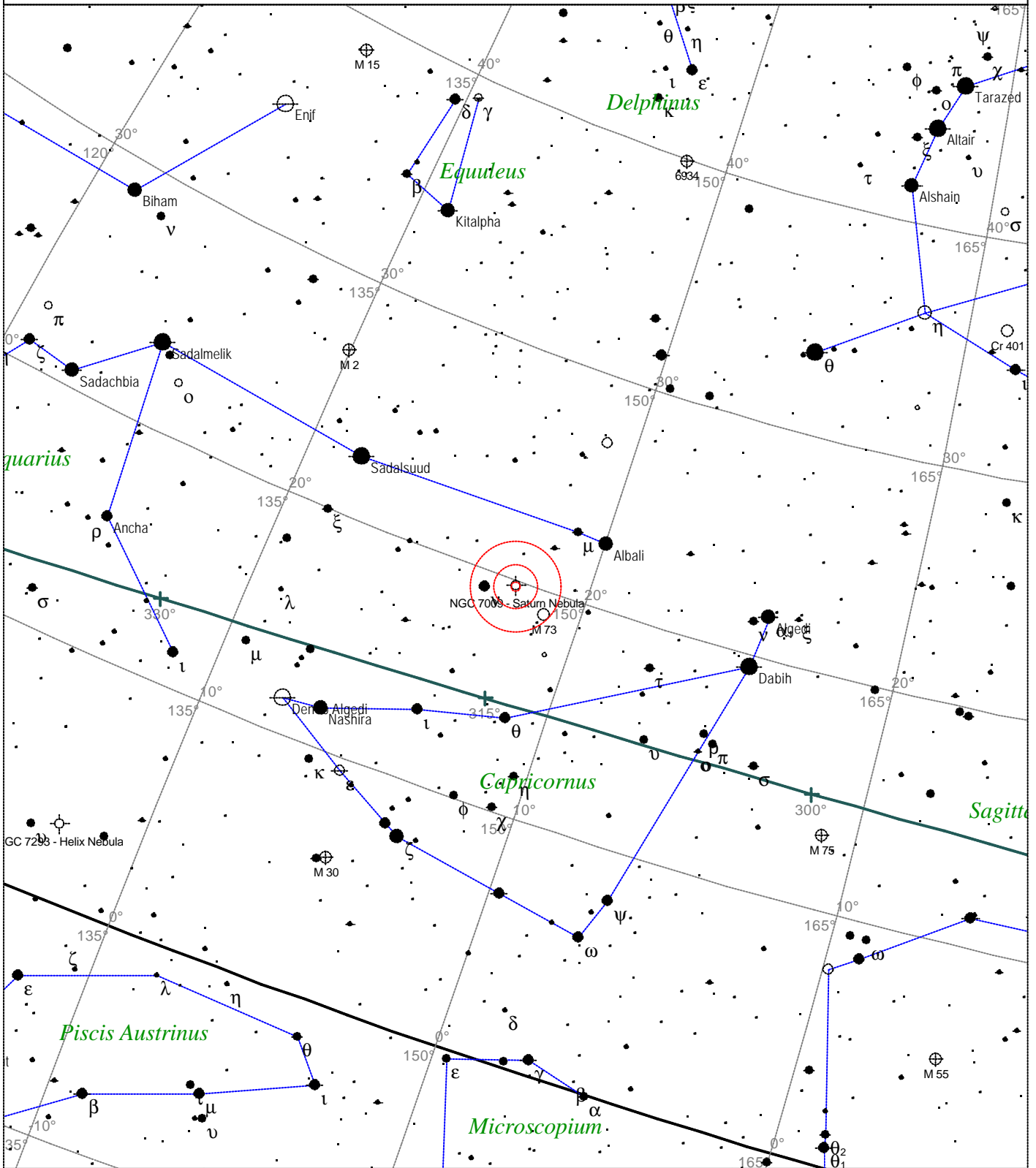
Caldwell 54 - NGC 2506



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 54 - NGC 2506</i> <i>Type of object: Open cluster</i> <i>Magnitude: 7.6</i> <i>Size: 7.0'</i> <i>Right ascension: 8h 0m 8s</i> <i>Declination: -10° 46' 21"</i> <i>Constellation: Monoceros</i></p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 8h00m08s Dec: -10° 46' Field: 45.0° Julian Day: 2452530.3196

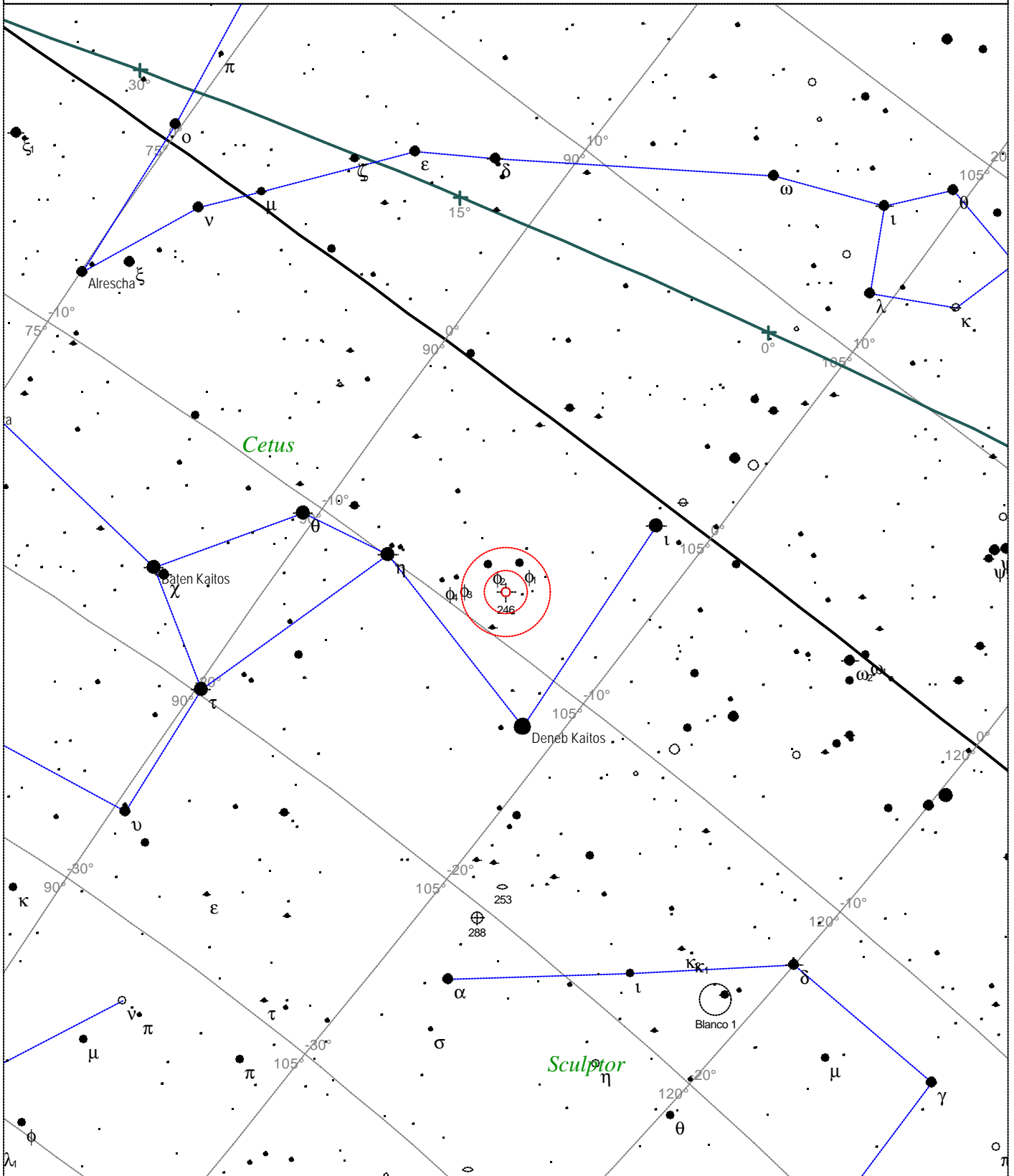
Caldwell 55 - Saturn Nebula



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊠ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 55 - NGC 7009</i> Popular name: Saturn Nebula Type of object: Planetary nebula Magnitude: 8.3 Size: 25.0" Right ascension: 21h 4m 20s Declination: -11° 21' 11" Constellation: Aquarius</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 21h04m20s Dec: -11° 21' Field: 45.0°	Julian Day: 2452530.3196

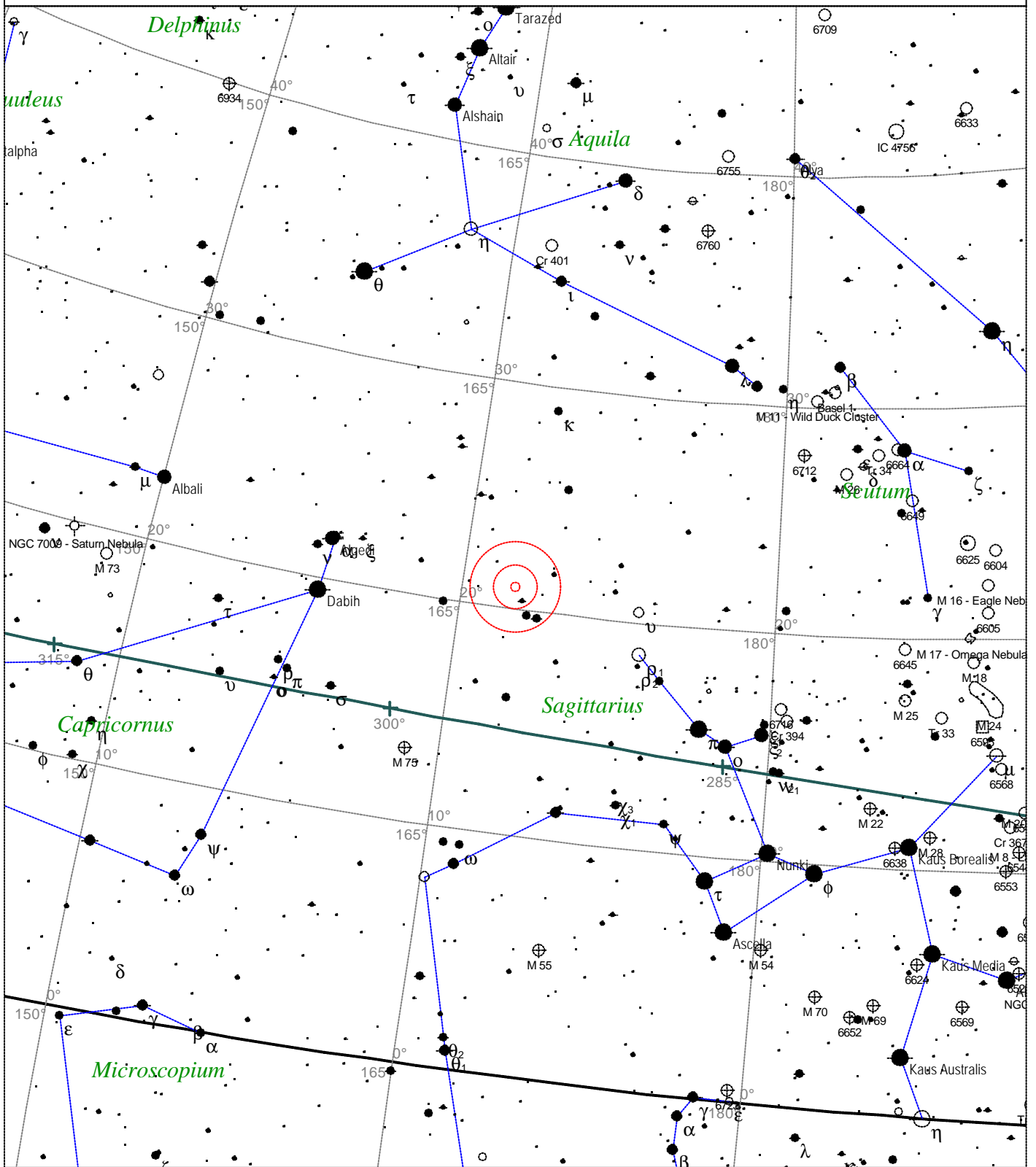
Caldwell 56 - NGC 246



<p>STARS</p> <ul style="list-style-type: none"> ● <3 · 6 ● 3.5 · 6.5 ● 4 · >7 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 56 - NGC 246</i> <i>Type of object: Planetary nebula</i> <i>Magnitude: 8.0</i> <i>Size: 3.8'</i> <i>Right ascension: 0h 47m 12s</i> <i>Declination: -11° 51' 22"</i> <i>Constellation: Cetus</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 0h47m12s Dec: -11° 51' Field: 45.0°	Julian Day: 2452530.3196

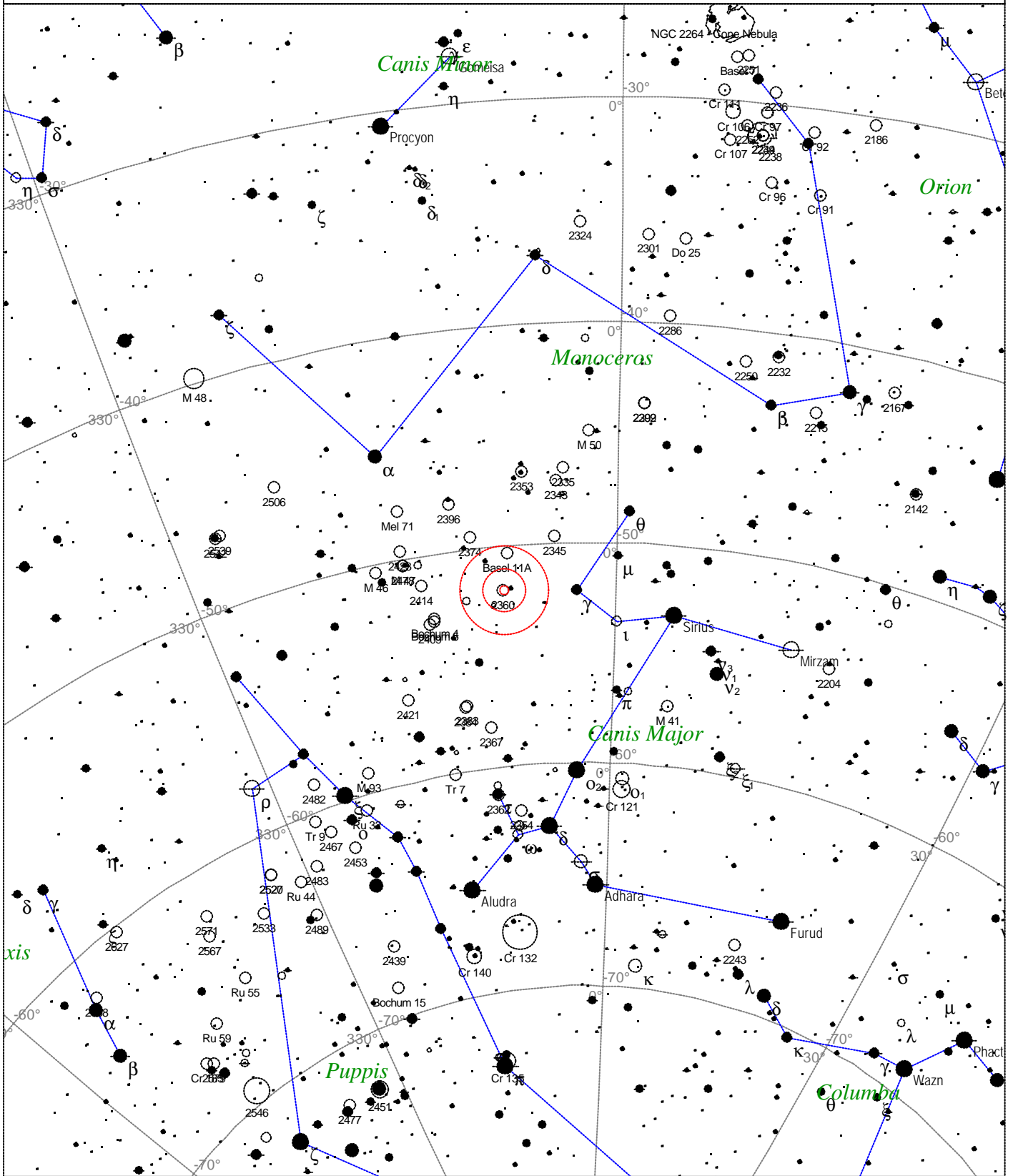
Caldwell 57 - Barnard's Galaxy



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 57 - NGC 6822 Popular name: Barnard's Galaxy Type of object: Galaxy Magnitude: 9.3 Surface brightness: 15.0 mag/sq arcmin Size: 15.4'x14.2' Position angle: 5° Right ascension: 19h 45m 5s</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 19h45m05s Dec: -14° 48' Field: 45.0° Julian Day: 2452530.3196

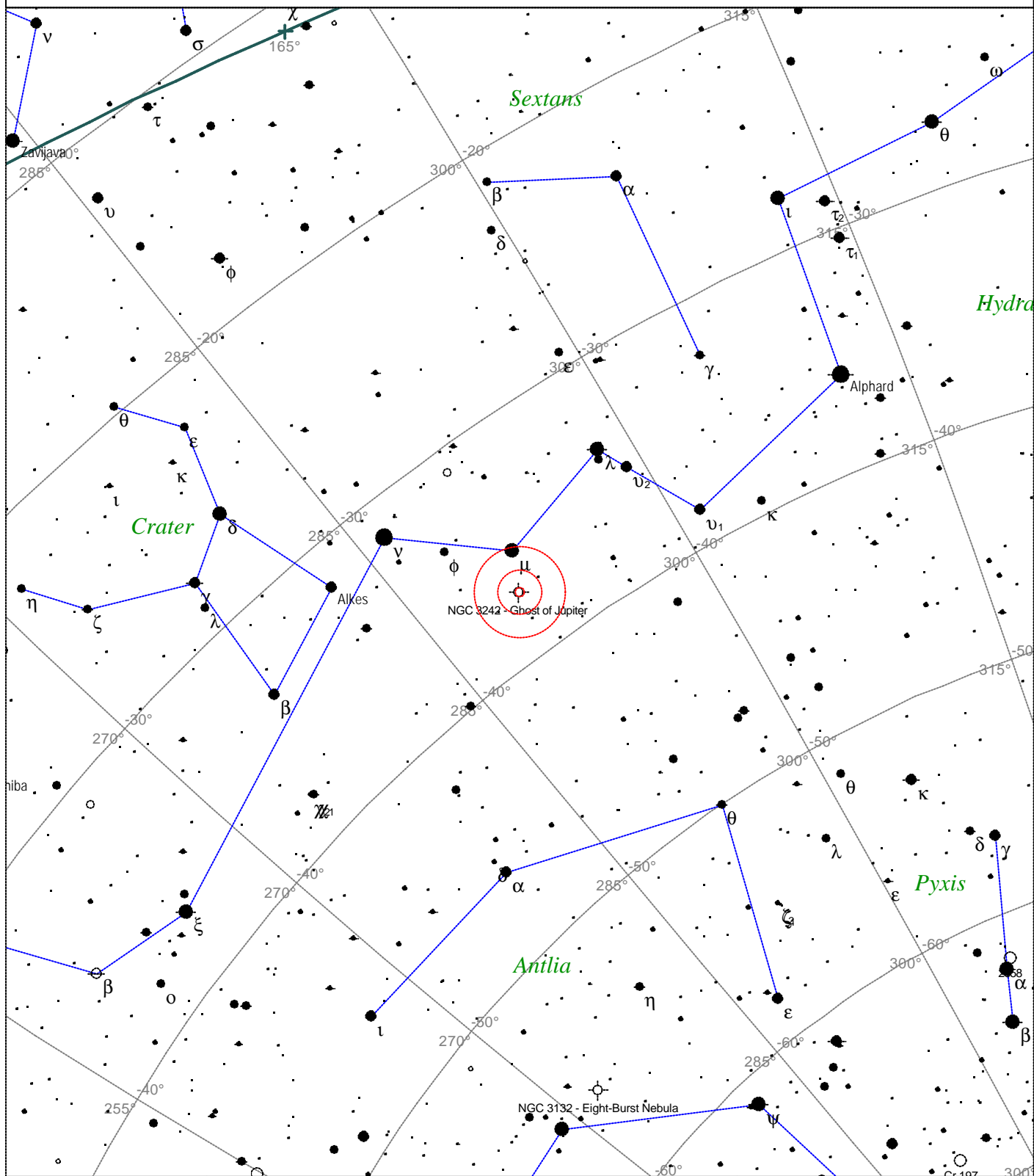
Caldwell 58 - NGC 2360



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 58 - NGC 2360</i> Type of object: Open cluster Magnitude: 7.2 Size: 13.0' Right ascension: 7h 17m 49s Declination: -15° 38' 30" Constellation: Canis Major</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 7h17m49s Dec: -15° 38' Field: 45.0°	Julian Day: 2452530.3196

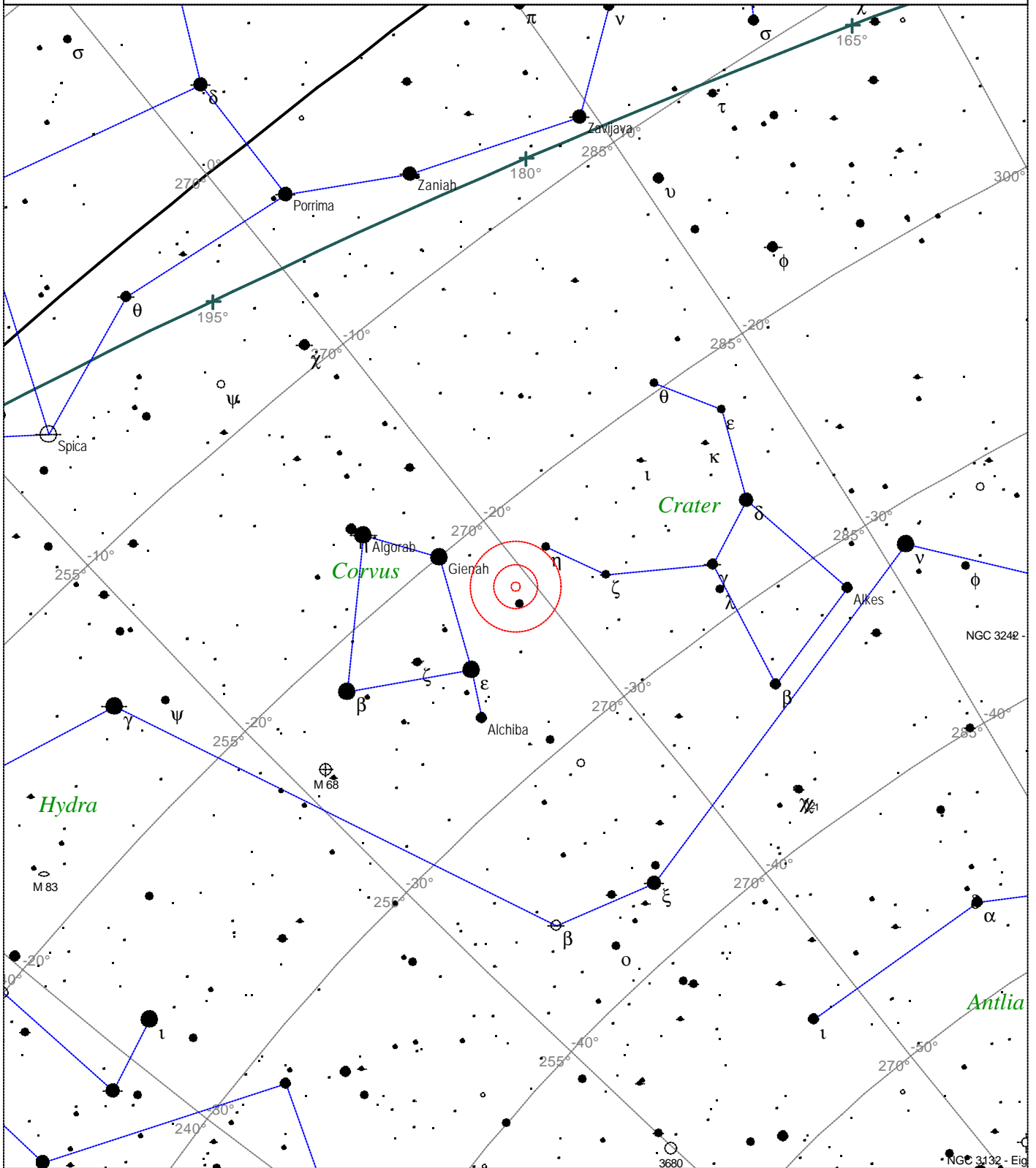
Caldwell 59 - Ghost of Jupiter



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 59 - NGC 3242 Popular name: Ghost of Jupiter Type of object: Planetary nebula Magnitude: 8.6 Size: 16.0" Right ascension: 10h 24m 52s Declination: -18° 39' 6" Constellation: Hydra</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 10h24m52s Dec: -18° 39' Field: 45.0° Julian Day: 2452530.3196

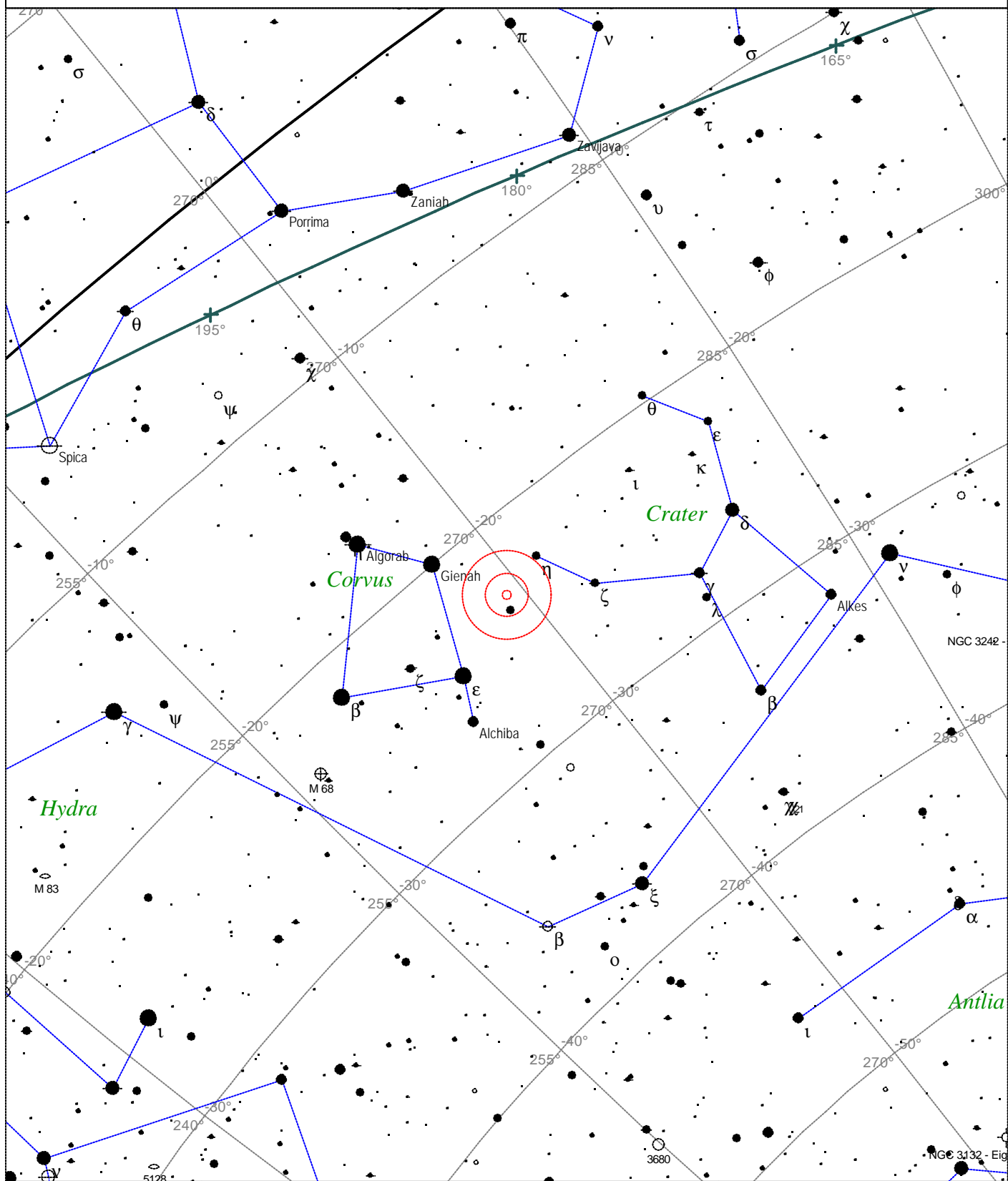
Caldwell 60 - Ringtail Galaxy



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 60 - NGC 4038</i> <i>Popular name: Ringtail Galaxy</i> <i>Type of object: Galaxy</i> <i>Magnitude: 10.9</i> <i>Surface brightness: 12.8 mag/sq arcmin</i> <i>Size: 3.4'x2.0'</i> <i>Position angle: 80°</i> <i>Right ascension: 12h 1m 59s</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 12h01m59s Dec: -18° 52' Field: 45.0°	Julian Day: 2452530.3196

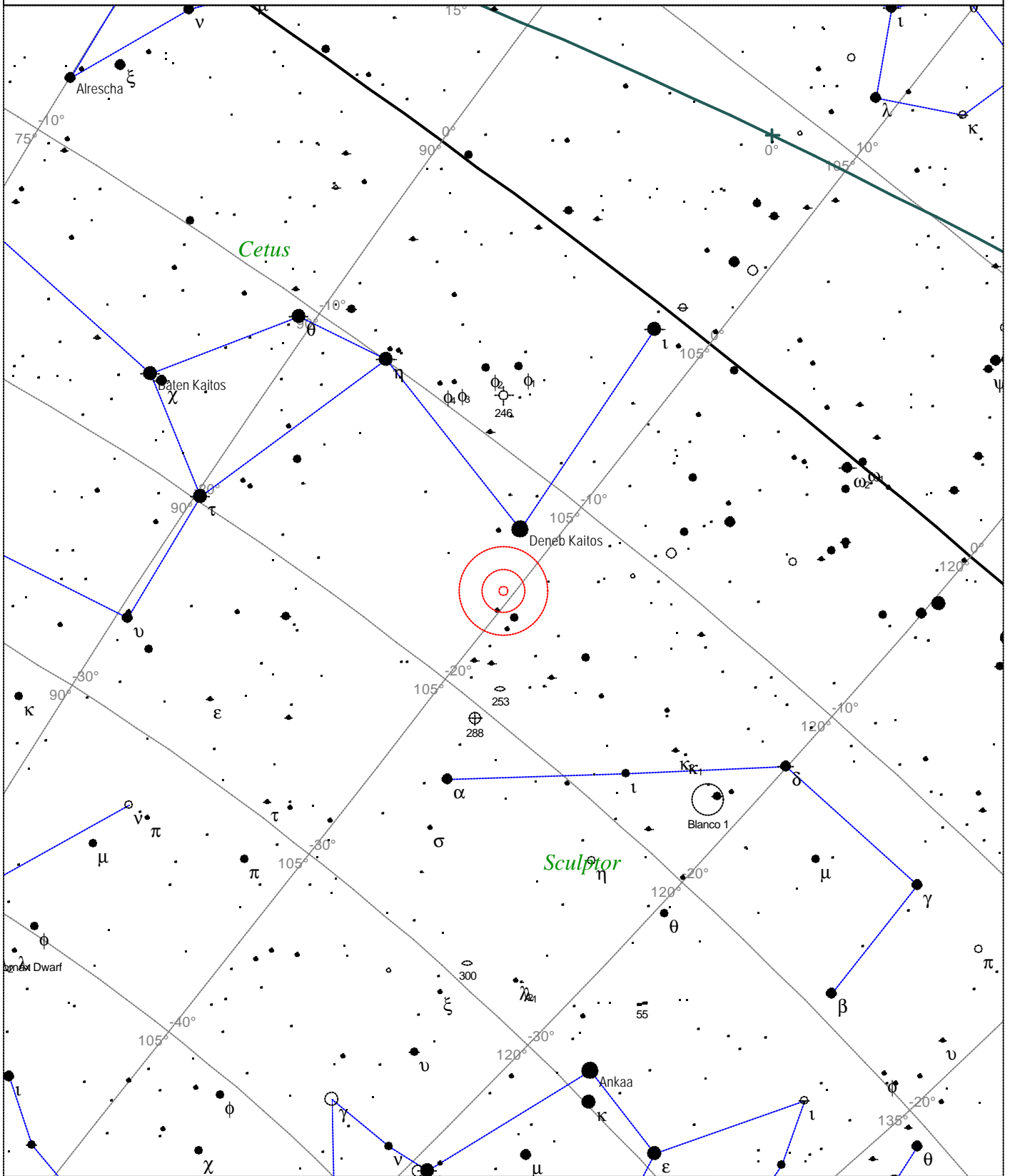
Caldwell 61 - NGC 4039



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 61 - NGC 4039</i> Type of object: Galaxy Magnitude: 11.0 Surface brightness: 13.1 mag/sq arcmin Size: 3.3'x1.7' Position angle: 55° Right ascension: 12h 2m 0s Declination: -18° 53' 51"</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 12h02m00s Dec: -18° 53' Field: 45.0°	Julian Day: 2452530.3196

Caldwell 62 - NGC 247



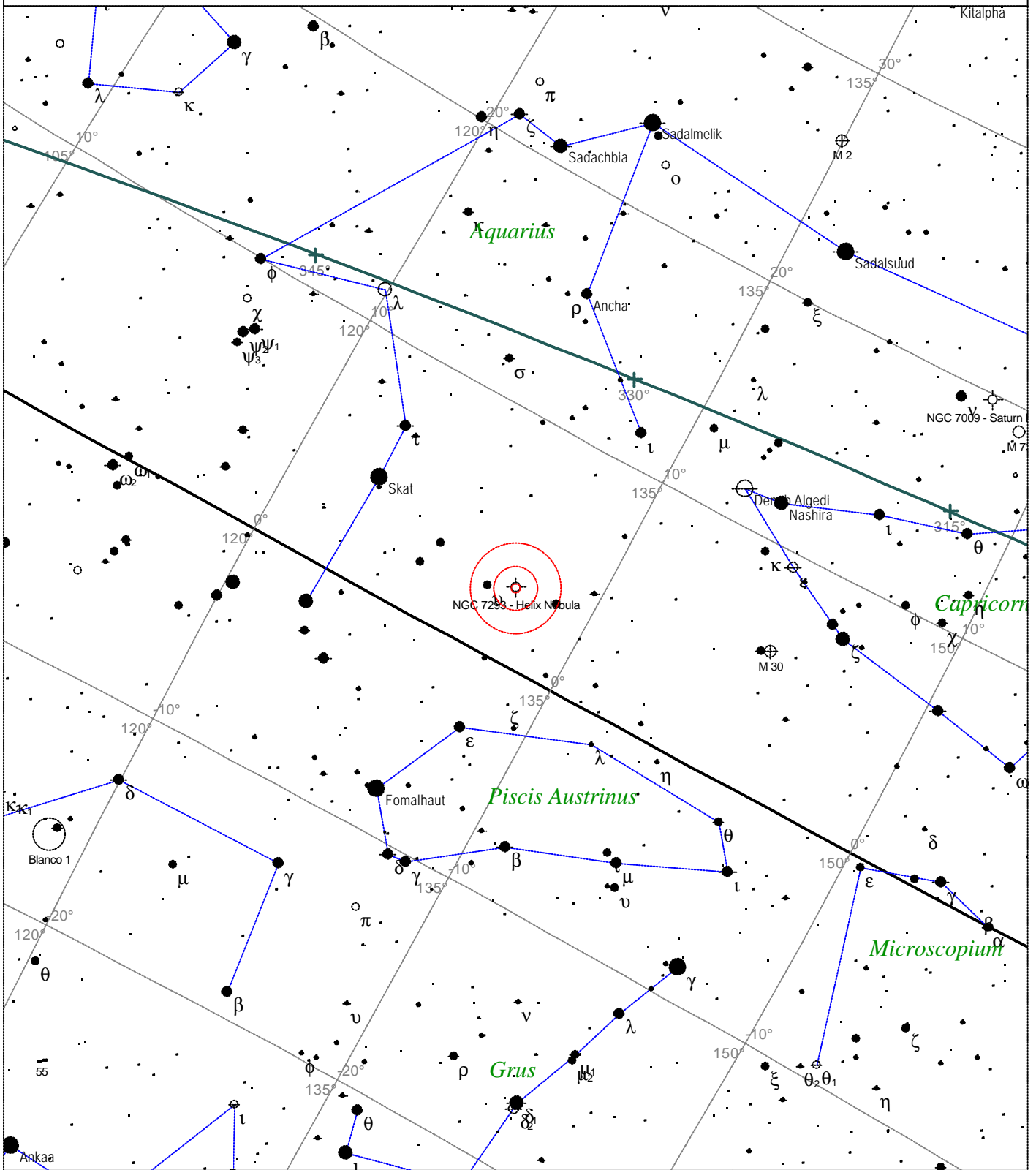
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 62 - NGC 247</i> Type of object: Galaxy Magnitude: 9.6 Surface brightness: 14.0 mag/sq arcmin Size: 21.0'x5.6' Position angle: 174° Right ascension: 0h 47m 17s Declination: -20° 44' 41"</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 0h47m17s Dec: -20° 44' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

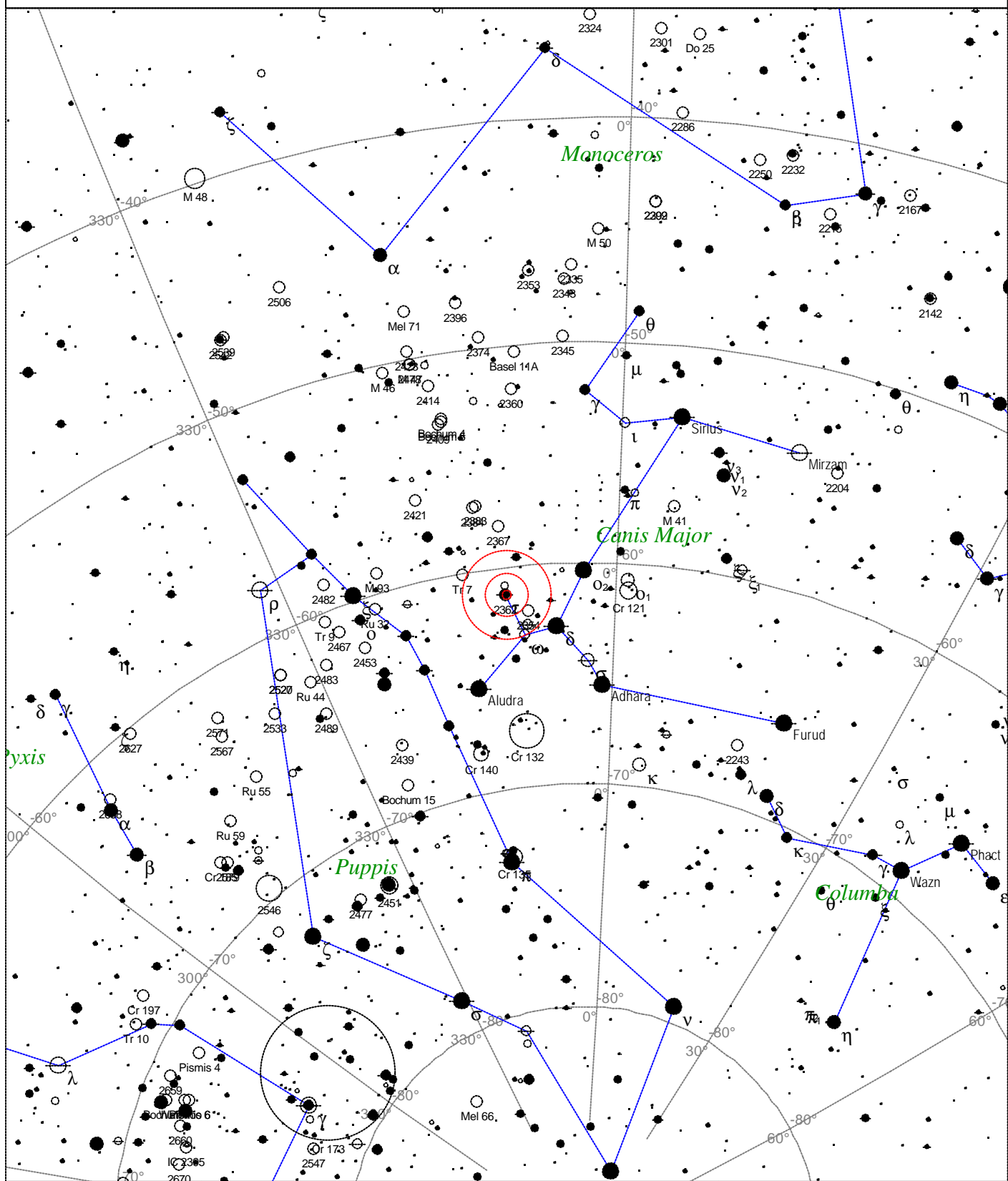
Caldwell 63 - Helix Nebula



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 63 - NGC 7293</i> Popular name: <i>Helix Nebula</i> Type of object: <i>Planetary nebula</i> Magnitude: 6.5 Size: 12.8' Right ascension: 22h 29m 48s Declination: -20° 49' 24" Constellation: <i>Aquarius</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 22h29m48s Dec: -20° 49' Field: 45.0°	Julian Day: 2452530.3196

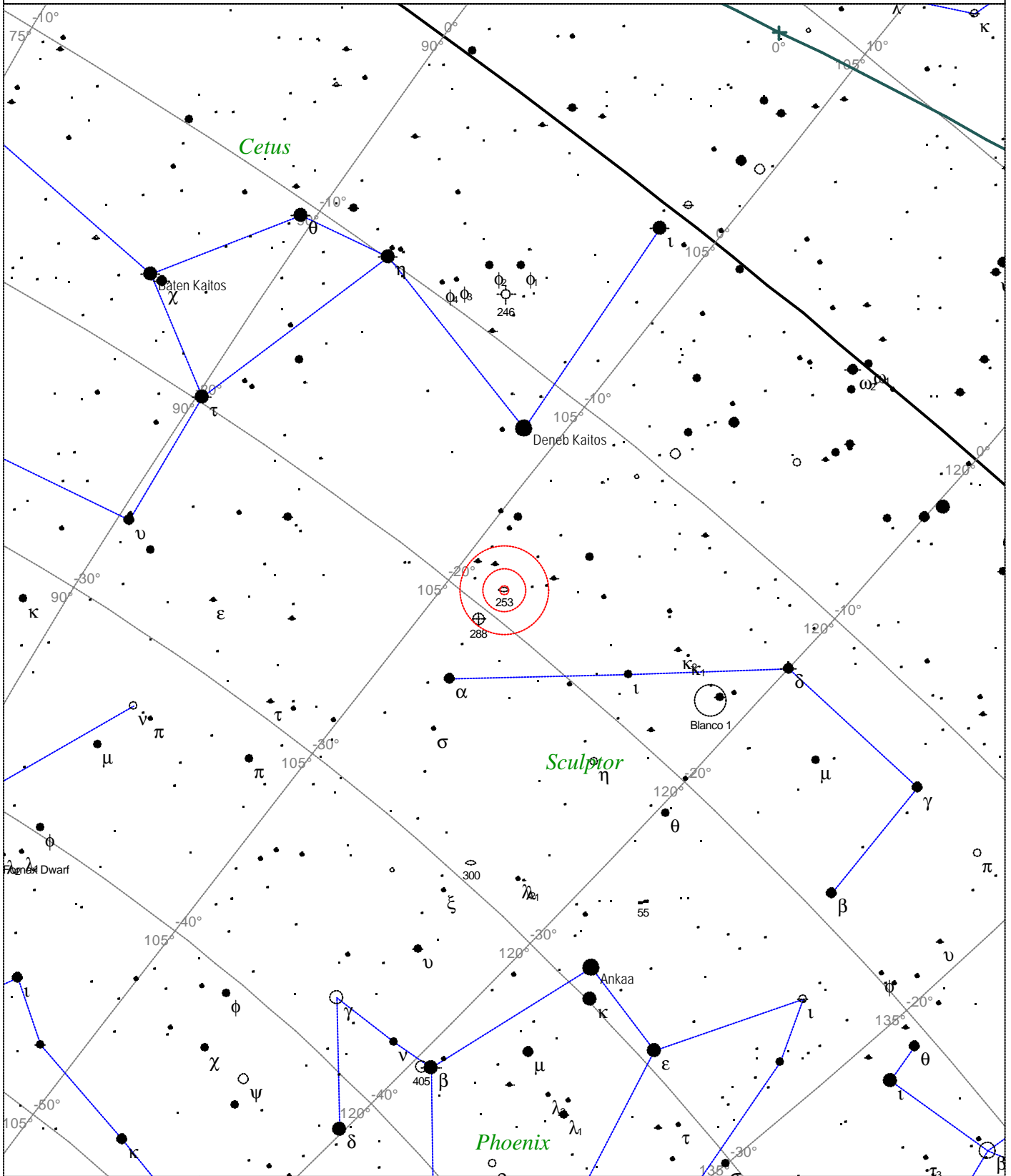
Caldwell 64 - NGC 2362



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 64 - NGC 2362</i> <i>Type of object: Open cluster</i> <i>Magnitude: 4.1</i> <i>Size: 8.0'</i> <i>Right ascension: 7h 18m 47s</i> <i>Declination: -24° 57' 14"</i> <i>Constellation: Canis Major</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 7h18m47s Dec: -24° 57' Field: 45.0°	Julian Day: 2452530.3196

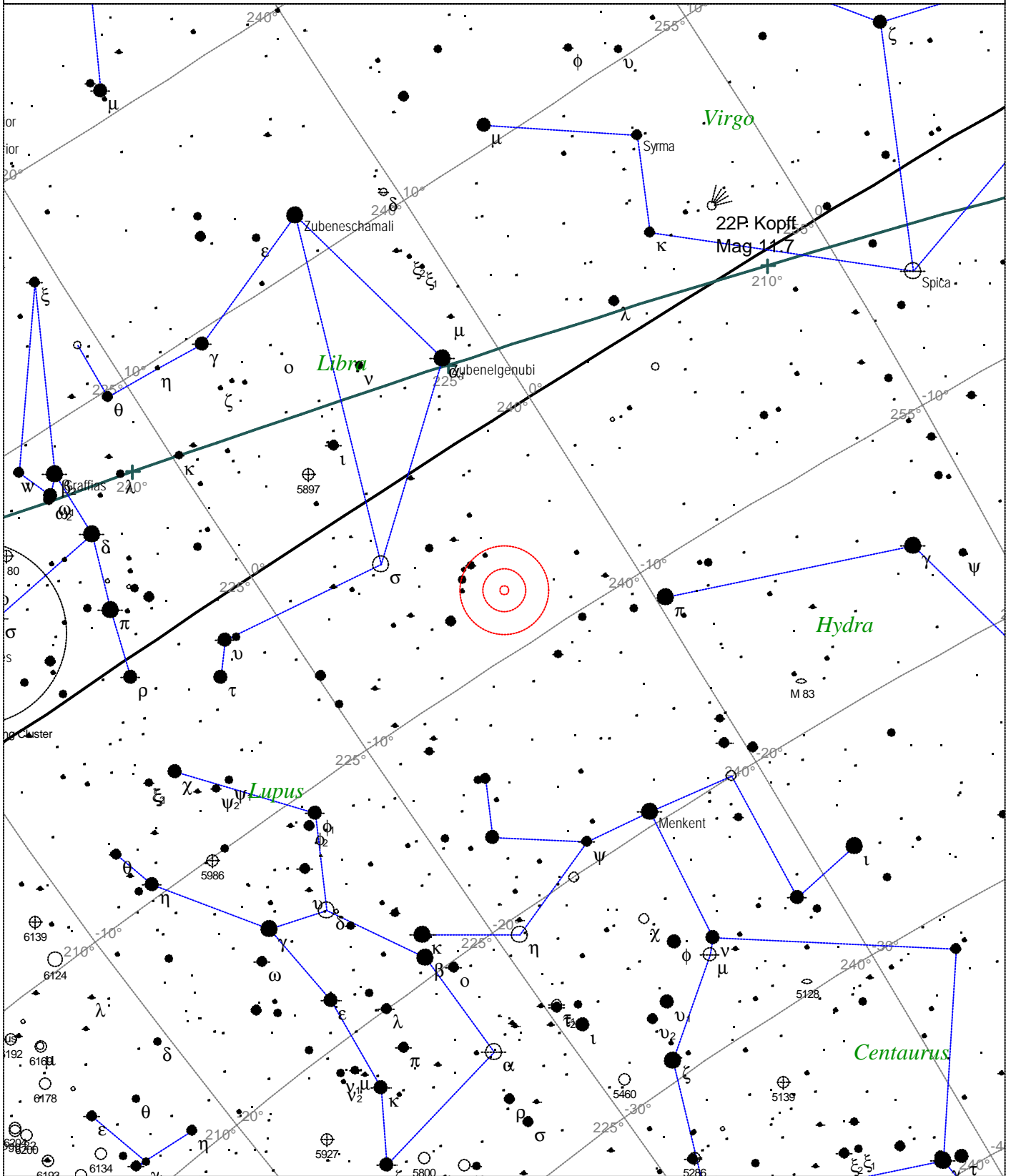
Caldwell 65 - NGC 253



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 65 - NGC 253</i> Type of object: Galaxy Magnitude: 8.0 Surface brightness: 12.4 mag/sq arcmin Size: 26.4'x6.0' Position angle: 52° Right ascension: 0h 47m 41s Declination: -25° 16' 19"</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 0h47m41s Dec: -25° 16' Field: 45.0° Julian Day: 2452530.3196

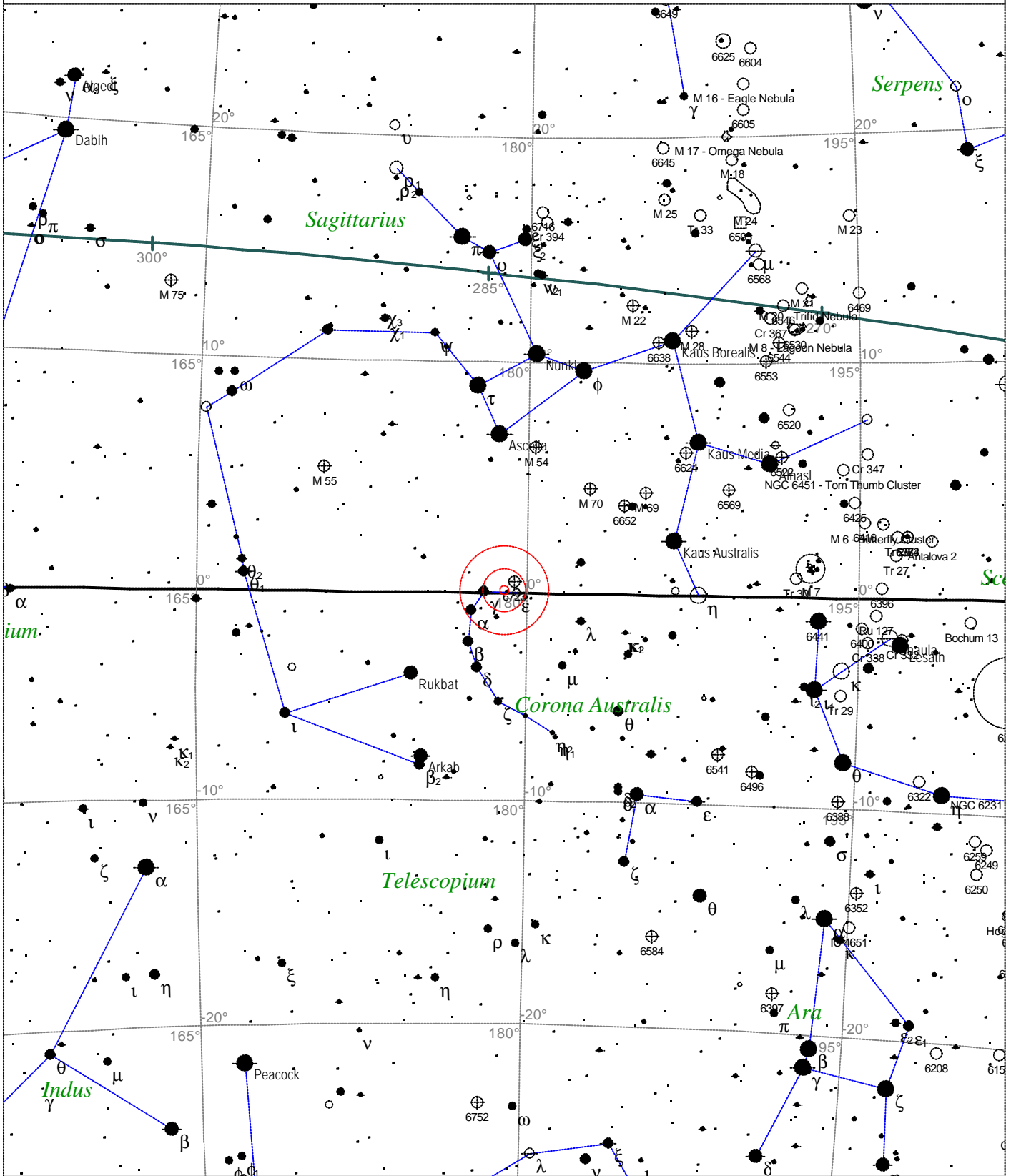
Caldwell 66 - NGC 5694



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 66 - NGC 5694</i> <i>Type of object: Globular cluster</i> <i>Magnitude: 10.2</i> <i>Size: 2.2'</i> <i>Right ascension: 14h 39m 44s</i> <i>Declination: -26° 32' 56"</i> <i>Constellation: Hydra</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 14h39m44s Dec: -26° 32' Field: 45.0°	Julian Day: 2452530.3196

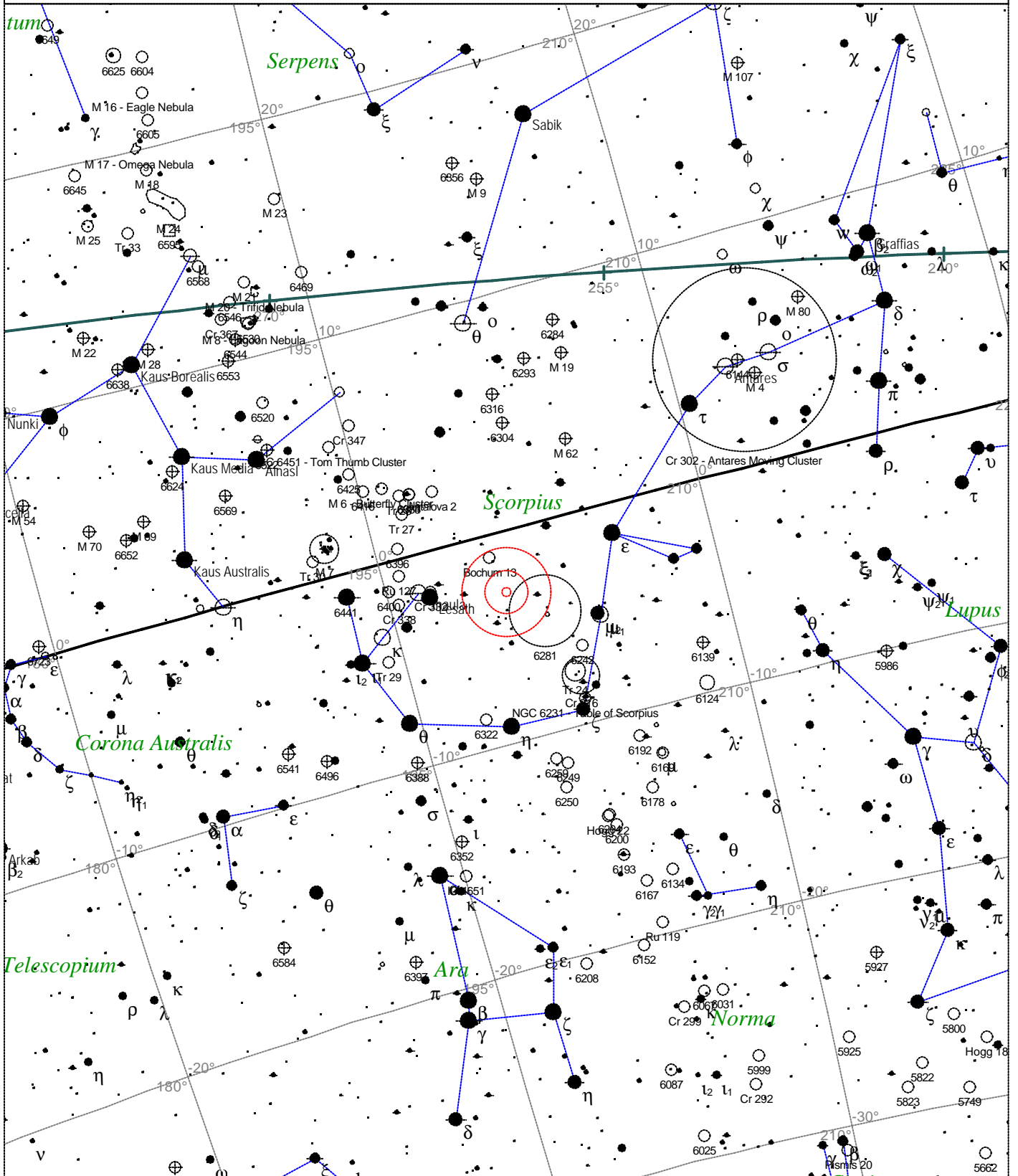
Caldwell 68 - NGC 6729



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 68 - NGC 6729</i> Type of object: Bright nebula Size: 25.0'x20.0' Right ascension: 19h 2m 6s Declination: -36° 57' 22" Constellation: Corona Australis</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 19h02m06s Dec: -36° 57' Field: 45.0° Julian Day: 2452530.3196

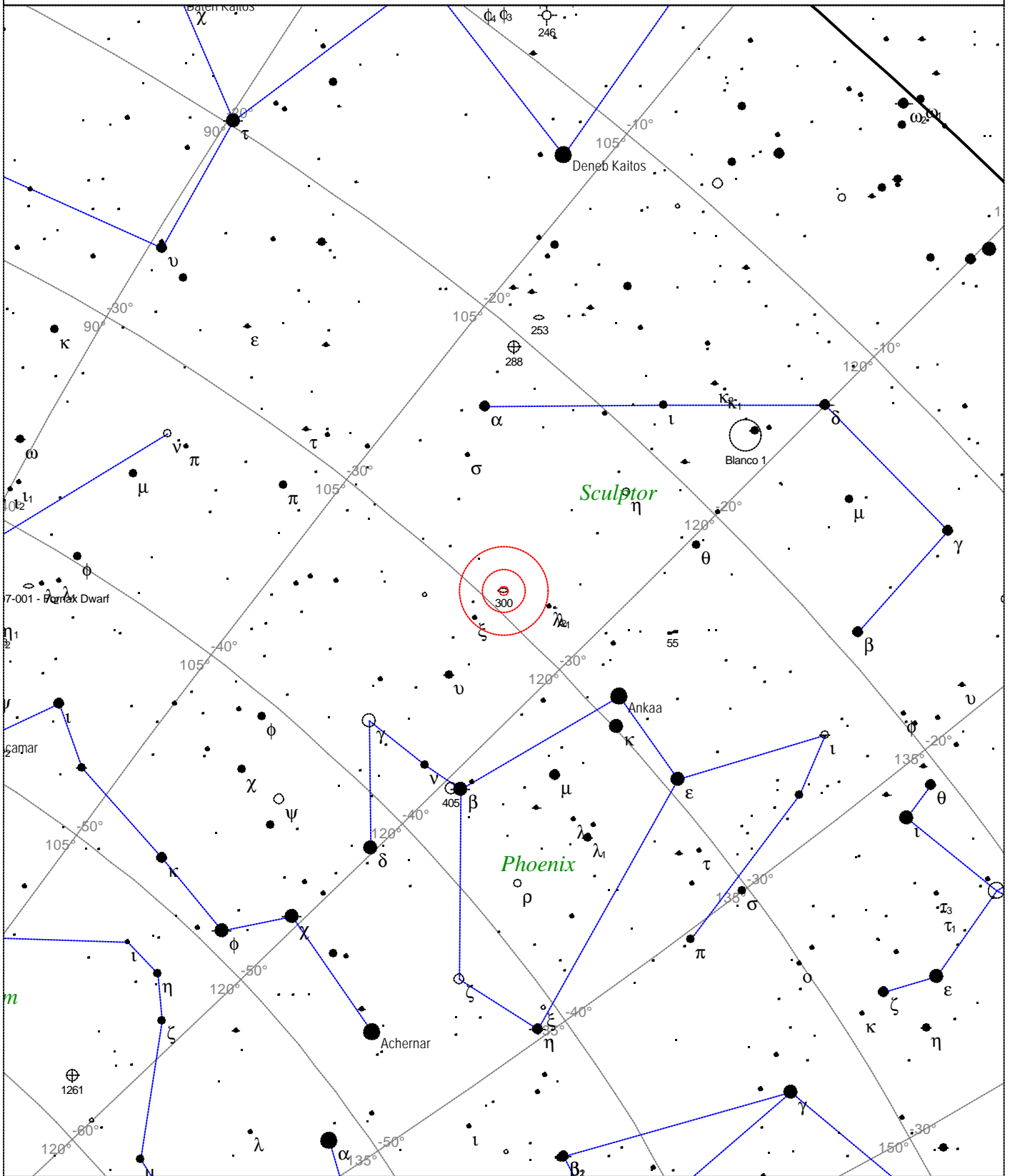
Caldwell 69 - Bipolar Nebula



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 69 - NGC 6302 Popular name: Bipolar Nebula Type of object: Planetary nebula Magnitude: 13.0 Size: 48.0" Right ascension: 17h 13m 54s Declination: -37° 6' 32" Constellation: Scorpius</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 17h13m54s Dec: -37° 06' Field: 45.0° Julian Day: 2452530.3196

Caldwell 70 - NGC 300



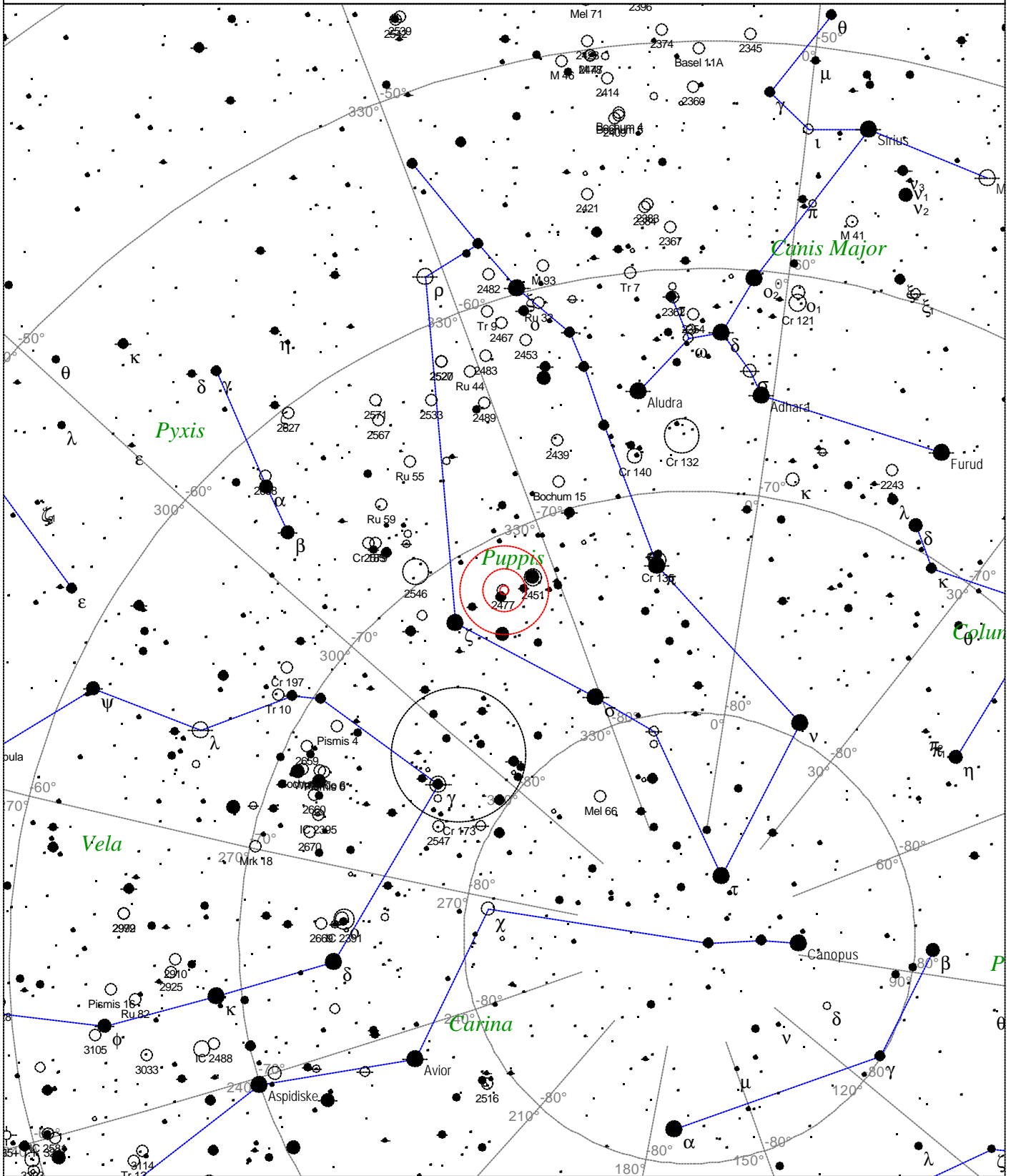
STARS		SYMBOLS			Caldwell 70 - NGC 300 Type of object: Galaxy Magnitude: 8.8 Surface brightness: 14.0 mag/sq arcmin Size: 19.3'x13.3' Position angle: 111° Right ascension: 0h 55m 2s Declination: -37° 40' 7"
● <3	· 6	● Multiple star	◻ Dark nebula	△ Radio source	
● 3.5	· 6.5	○ Variable star	⊕ Globular cluster	× X-ray source	
● 4	· >7	☄ Comet	○ Open cluster	○ Other object	
● 4.5		☉ Galaxy	♁ Planetary nebula		
● 5		◻ Bright nebula	☉ Quasar		
● 5.5					

Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 0h55m02s Dec: -37° 40' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

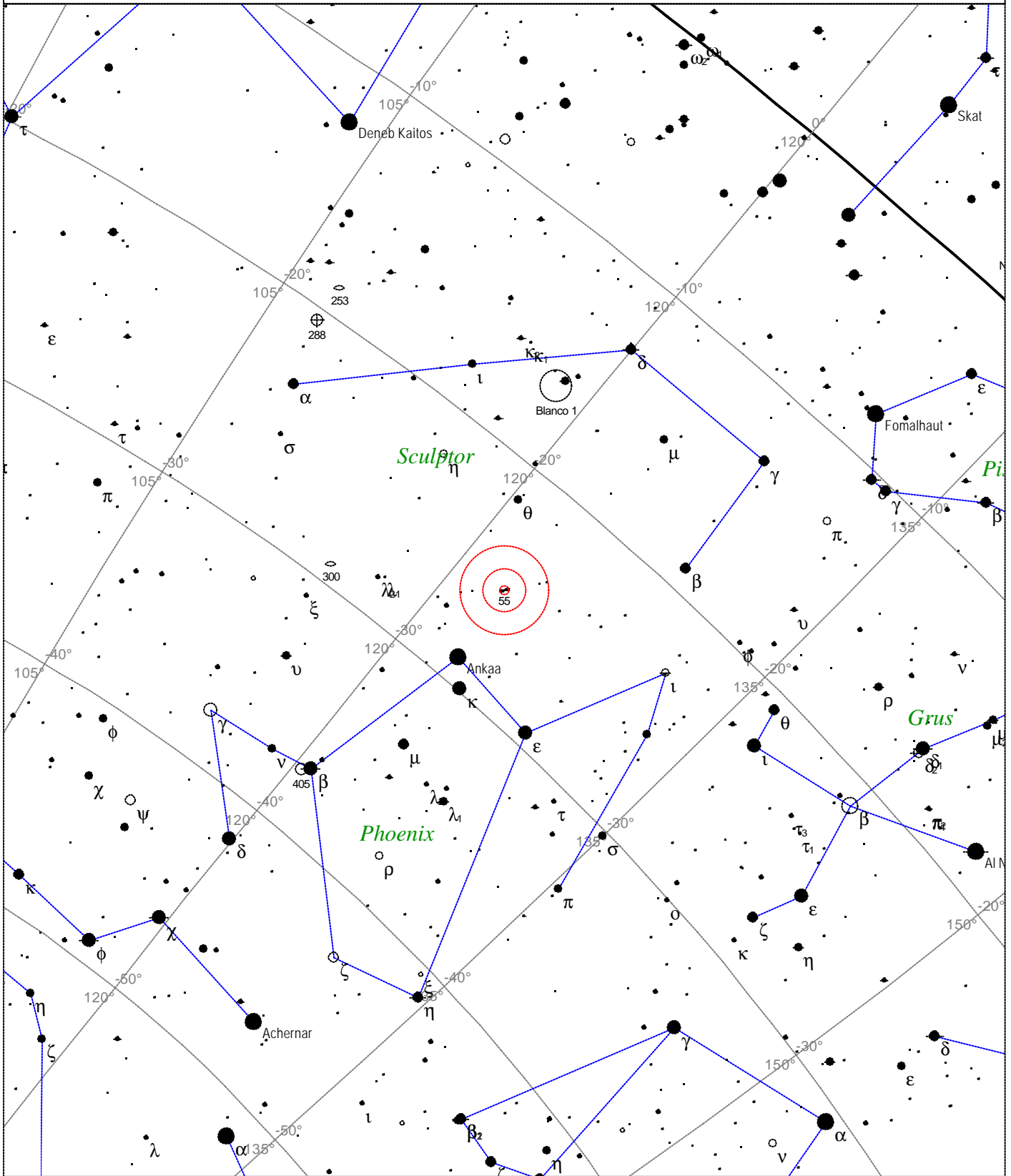
Caldwell 71 - NGC 2477



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 71 - NGC 2477</i> Type of object: Open cluster Magnitude: 5.0 Size: 20.0' Right ascension: 7h 52m 14s Declination: -38° 32' 4" Constellation: Puppis</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 7h52m14s Dec: -38° 32' Field: 45.0° Julian Day: 2452530.3196

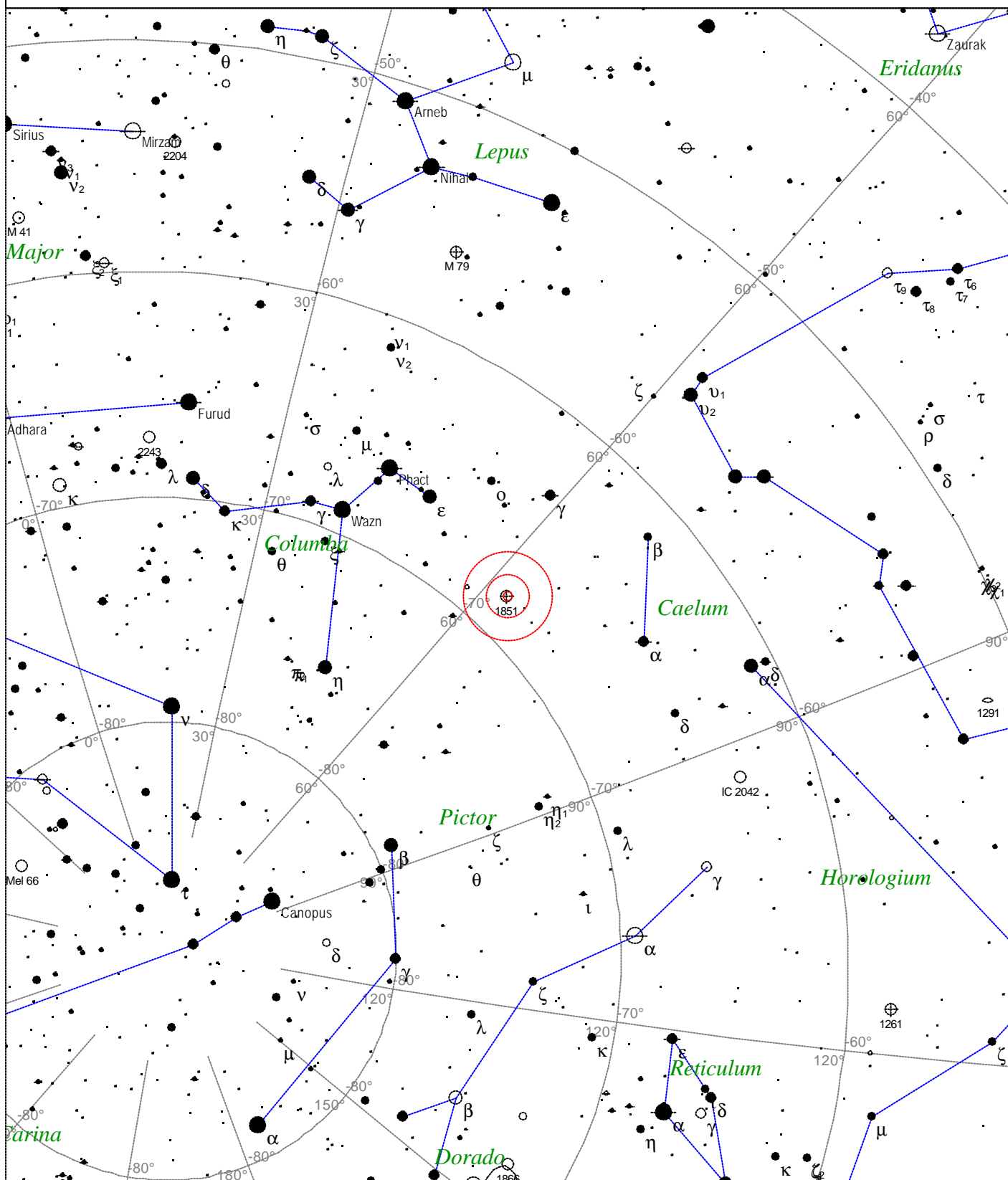
Caldwell 72 - NGC 55



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☄ Quasar △ Radio source ✕ X-ray source ○ Other object 	<p><i>Caldwell 72 - NGC 55</i> Type of object: Galaxy Magnitude: 8.4 Surface brightness: 12.9 mag/sq arcmin Size: 31.2x5.9' Position angle: 108° Right ascension: 0h 15m 17s Declination: -39° 12' 15"</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 0h15m17s Dec: -39° 12' Field: 45.0°	Julian Day: 2452530.3196

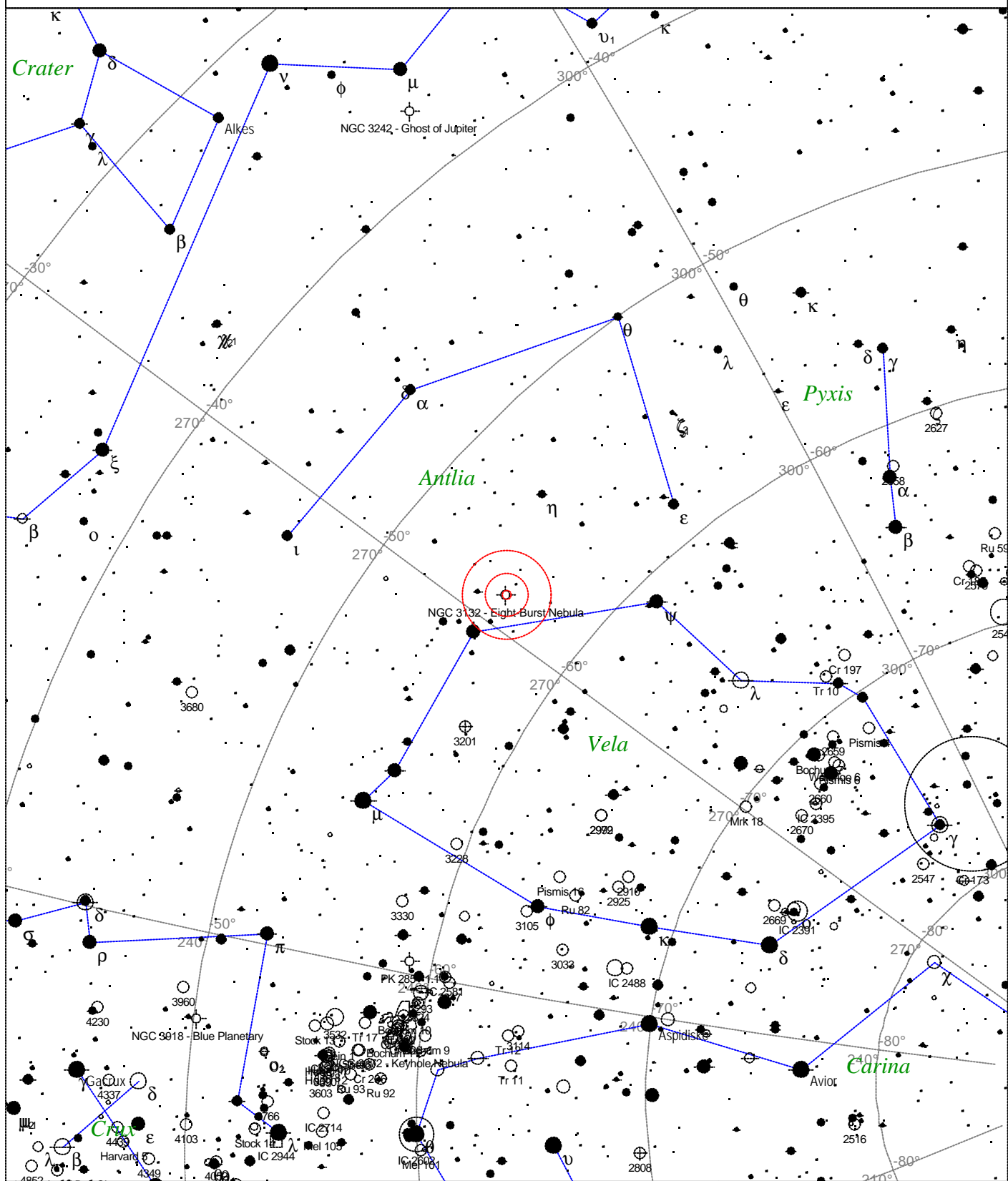
Caldwell 73 - NGC 1851



STARS	SYMBOLS			Caldwell 73 - NGC 1851 Type of object: Globular cluster Magnitude: 7.1 Size: 11.0' Right ascension: 5h 14m 11s Declination: -40° 2' 19" Constellation: Columba
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 • 6 • 6.5 • >7 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar 	<ul style="list-style-type: none"> △ Radio source ✕ X-ray source ○ Other object 	

Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 5h14m11s Dec: -40° 02' Field: 45.0° Julian Day: 2452530.3196

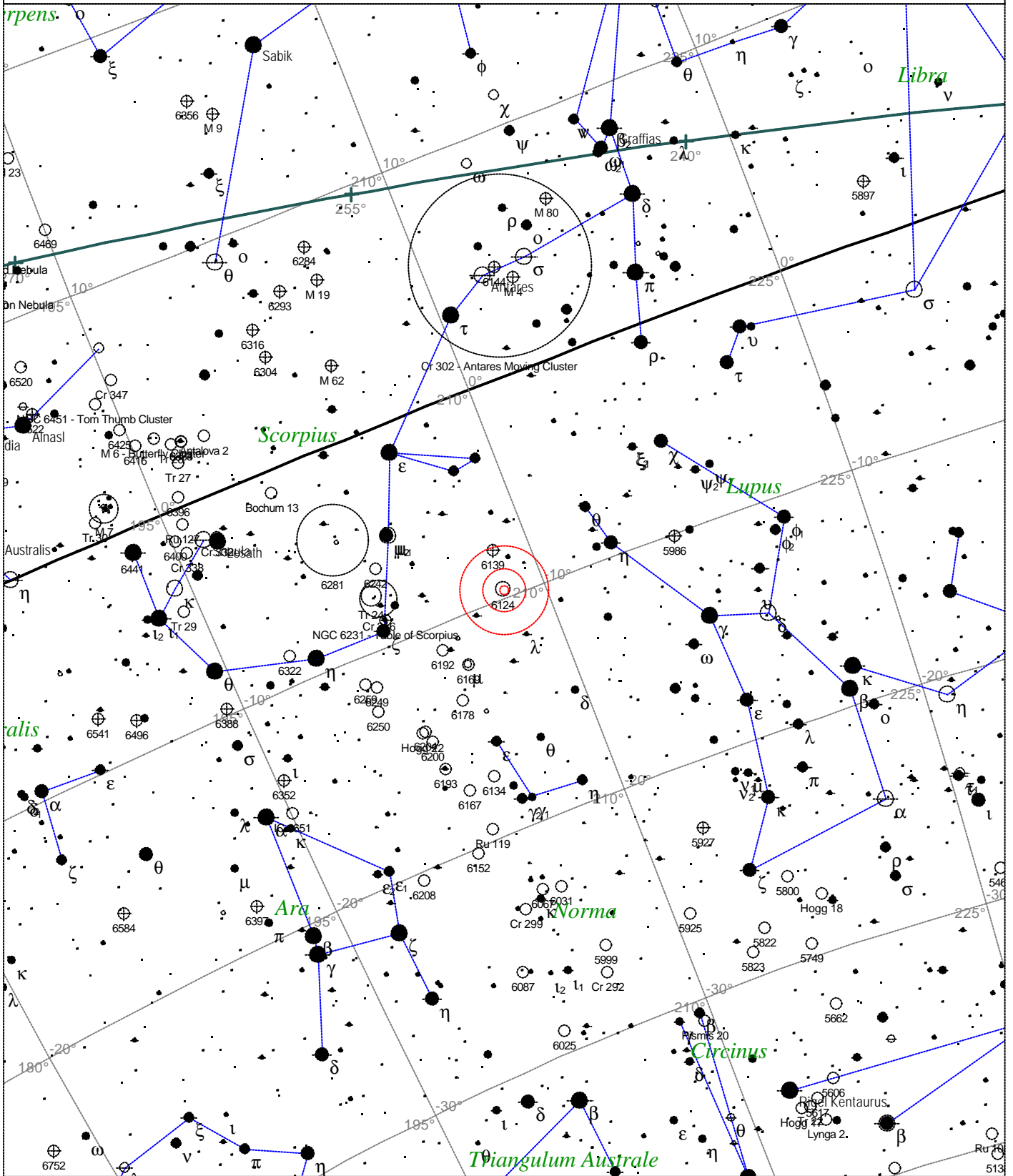
Caldwell 74 - NGC 3132



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 74 - NGC 3132</i> <i>Popular name: Eight-Burst Nebula</i> <i>Type of object: Planetary nebula</i> <i>Magnitude: 8.0</i> <i>Size: 48.0"</i> <i>Right ascension: 10h 7m 6s</i> <i>Declination: -40° 26' 43"</i> <i>Constellation: Vela</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 10h07m06s Dec: -40° 26' Field: 45.0°	Julian Day: 2452530.3196

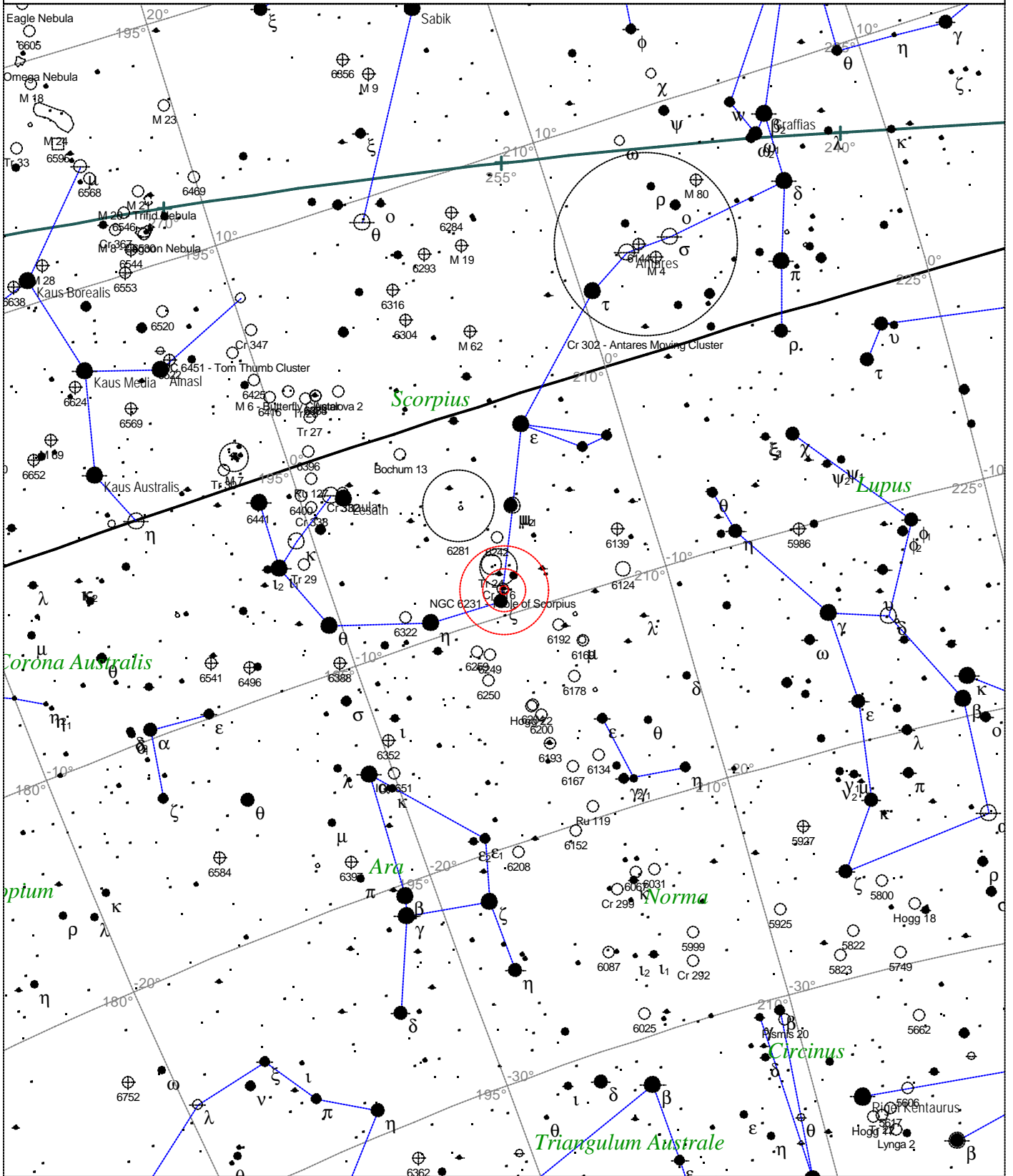
Caldwell 75 - NGC 6124



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 75 - NGC 6124</i> <i>Type of object: Open cluster</i> <i>Magnitude: 5.0</i> <i>Size: 39.0'</i> <i>Right ascension: 16h 25m 29s</i> <i>Declination: -40° 39' 41"</i> <i>Constellation: Scorpius</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 16h25m29s Dec: -40° 39' Field: 45.0°	Julian Day: 2452530.3196

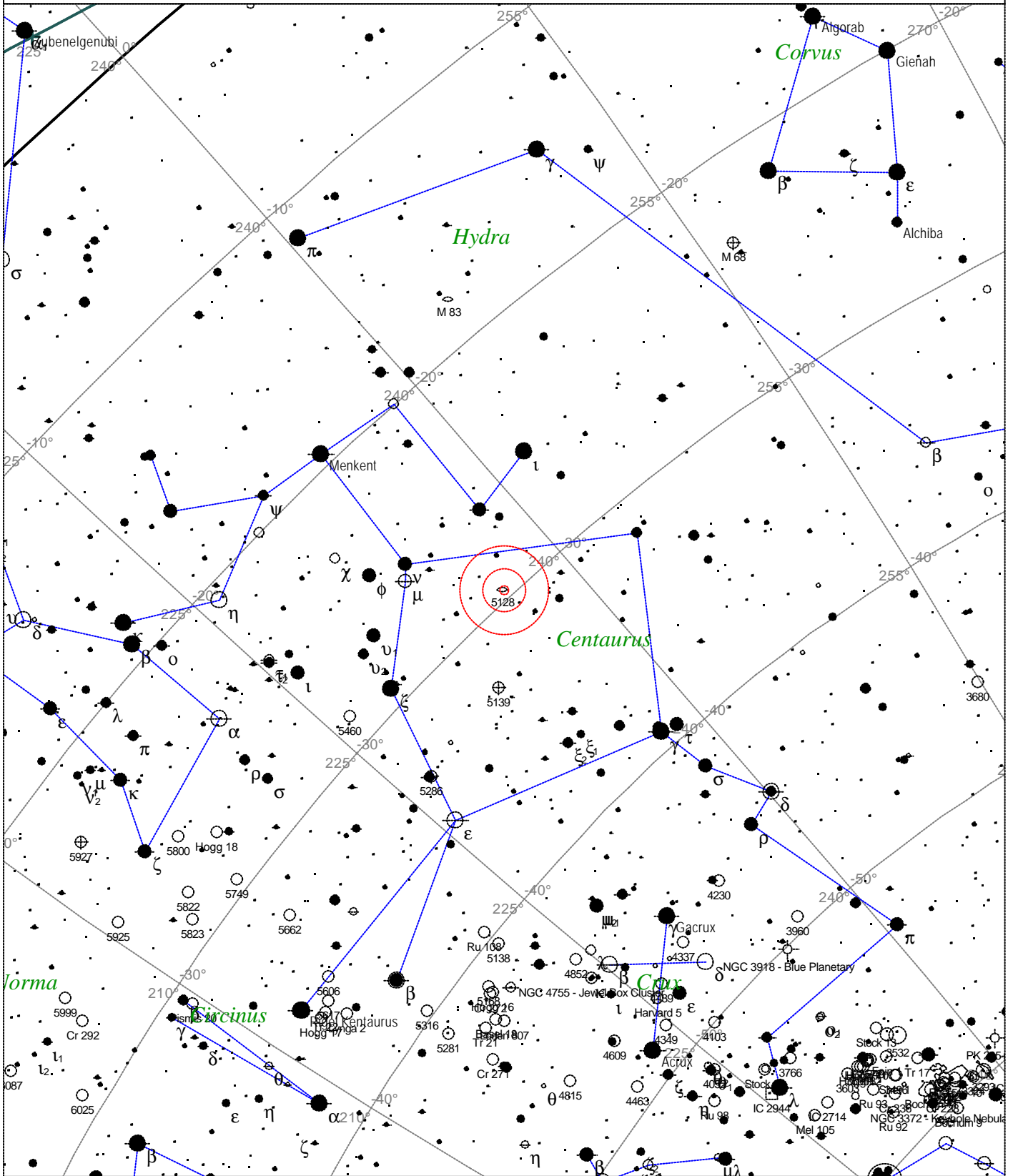
Caldwell 76 - NGC 6231



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 76 - NGC 6231</i> <i>Popular name: Table of Scorpius</i> <i>Type of object: Open cluster</i> <i>Magnitude: 2.0</i> <i>Size: 15.0'</i> <i>Right ascension: 16h 54m 21s</i> <i>Declination: -41° 49' 50"</i> <i>Constellation: Scorpius</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 16h54m21s Dec: -41° 49' Field: 45.0°	Julian Day: 2452530.3196

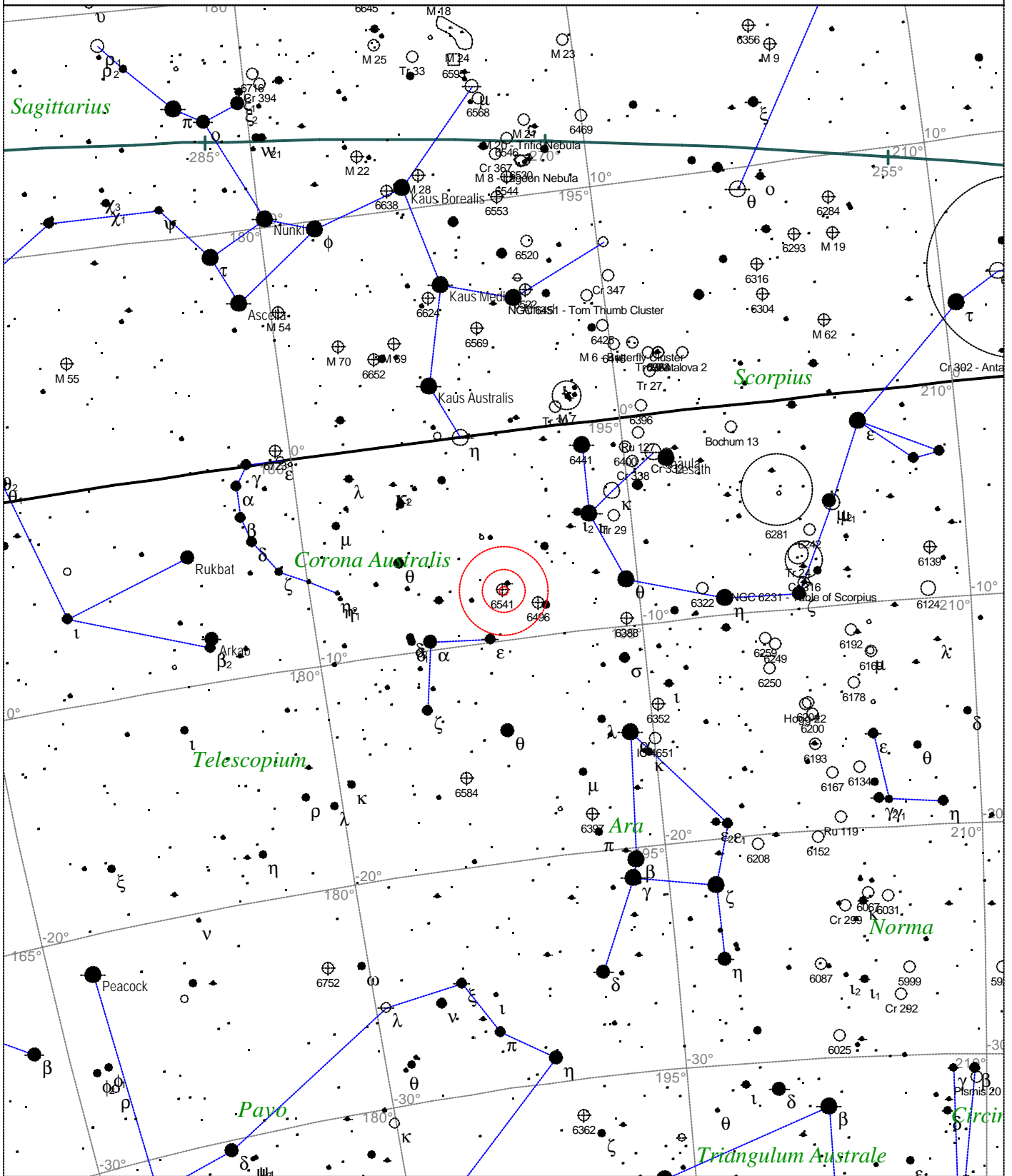
Caldwell 77 - NGC 5128



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 77 - NGC 5128</i> Type of object: Galaxy Magnitude: 7.6 Surface brightness: 13.6 mag/sq arcmin Size: 27.6'x20.5' Position angle: 35° Right ascension: 13h 25m 36s Declination: -43° 1' 46"</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 13h25m36s Dec: -43° 01' Field: 45.0° Julian Day: 2452530.3196

Caldwell 78 - NGC 6541



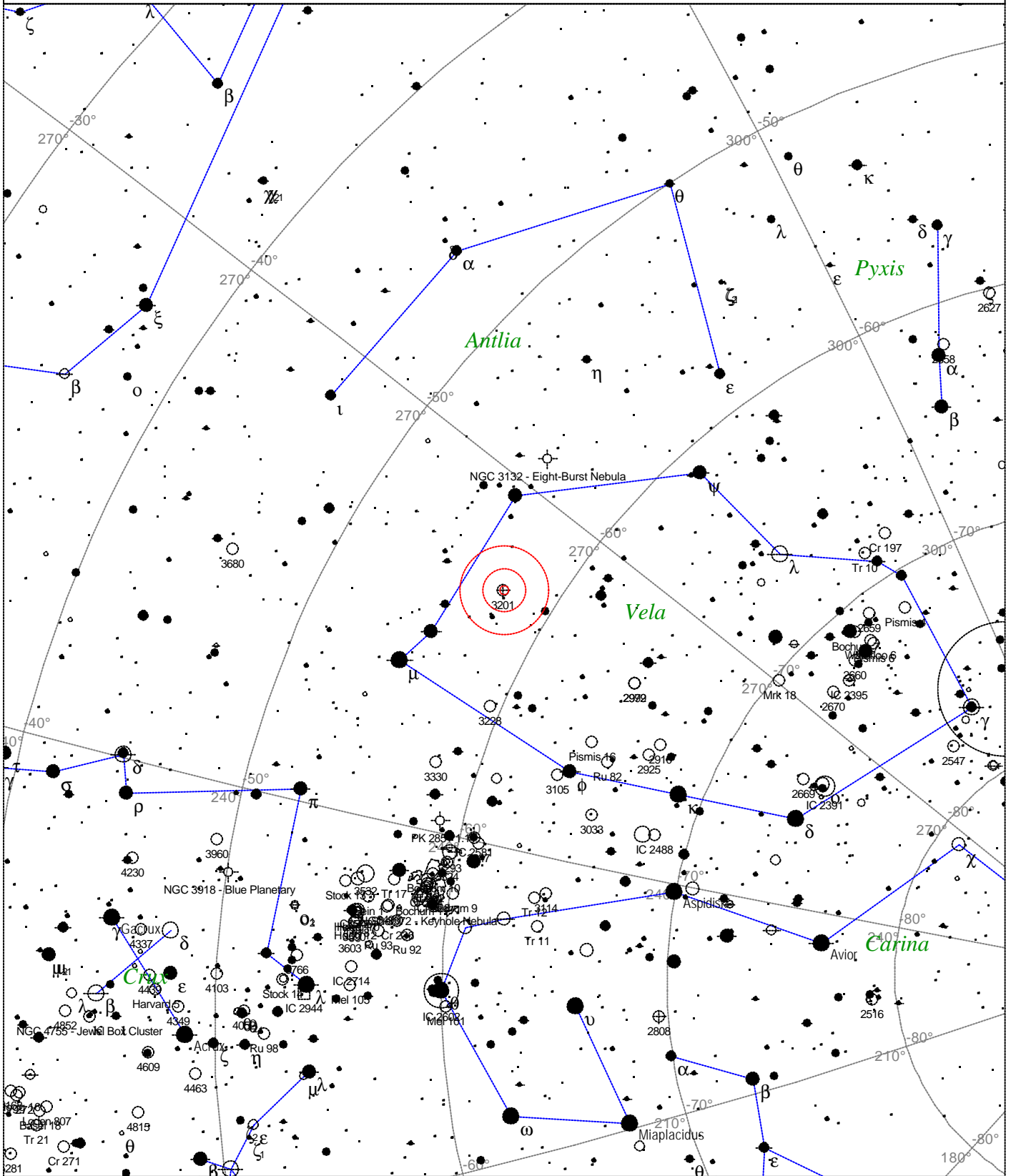
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 78 - NGC 6541</i> Type of object: Globular cluster Magnitude: 6.3 Size: 13.1' Right ascension: 18h 8m 13s Declination: -43° 42' 50" Constellation: Corona Australis</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 18h08m13s Dec: -43° 42' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

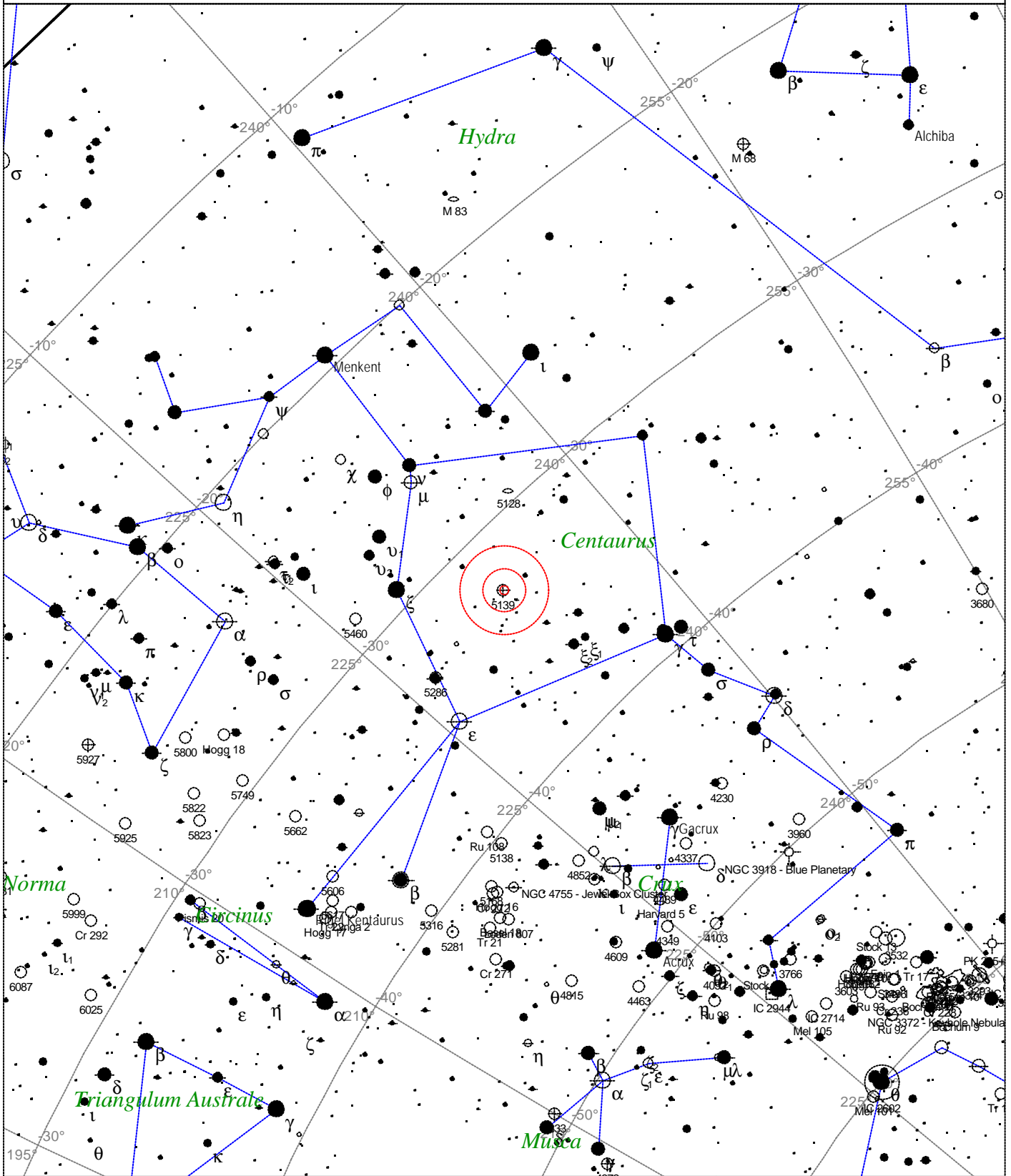
Caldwell 79 - NGC 3201



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 79 - NGC 3201</i> Type of object: Globular cluster Magnitude: 6.8 Size: 18.2' Right ascension: 10h 17m 41s Declination: -46° 25' 12" Constellation: Vela</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 10h17m41s Dec: -46° 25' Field: 45.0°	Julian Day: 2452530.3196

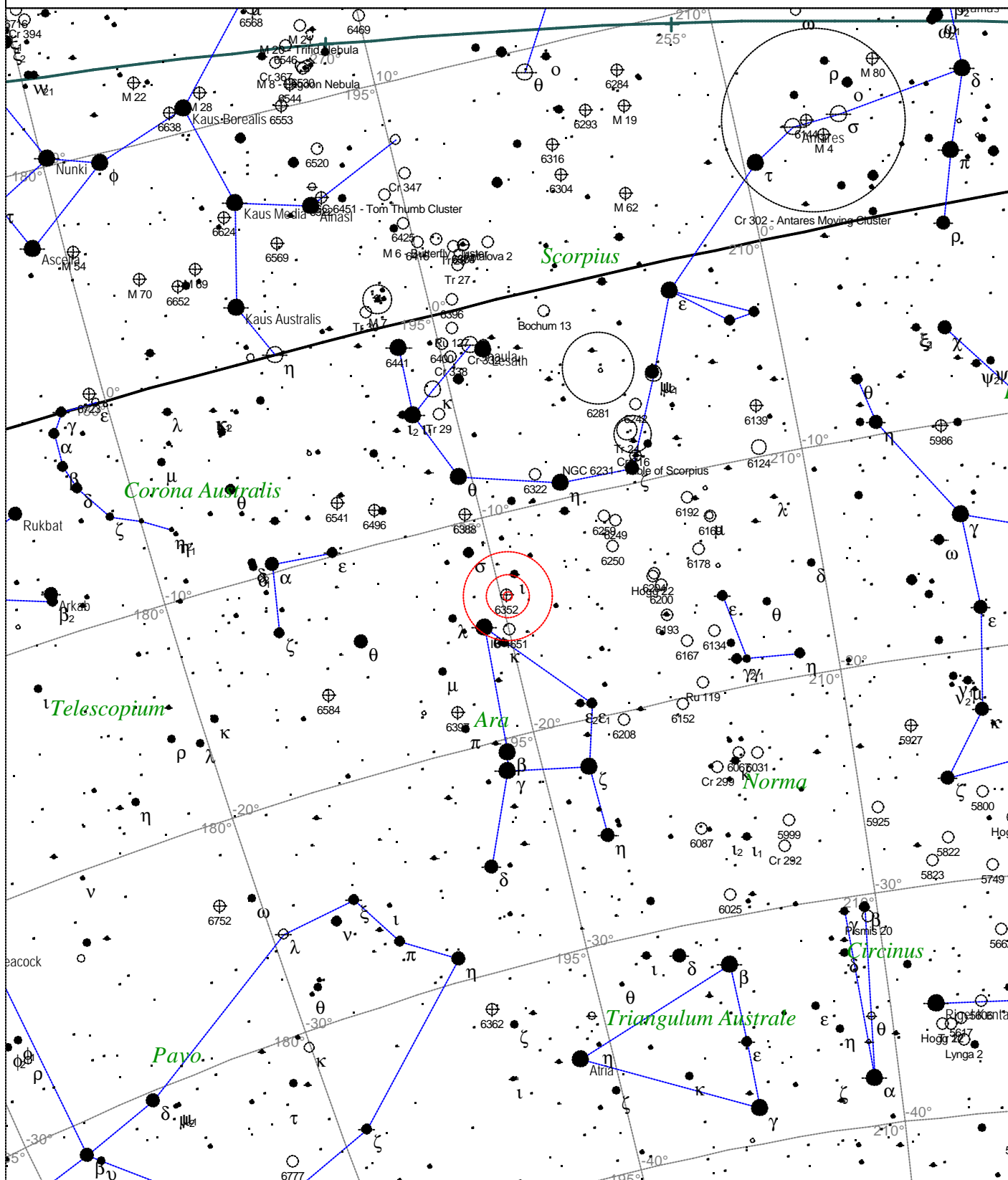
Caldwell 80 - NGC 5139



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ☉ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 80 - NGC 5139</i> Type of object: Globular cluster Magnitude: 3.7 Size: 36.3' Right ascension: 13h 26m 54s Declination: -47° 29' 40" Constellation: Centaurus</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 13h26m54s Dec: -47° 29' 40" Field: 45.0°	Julian Day: 2452530.3196

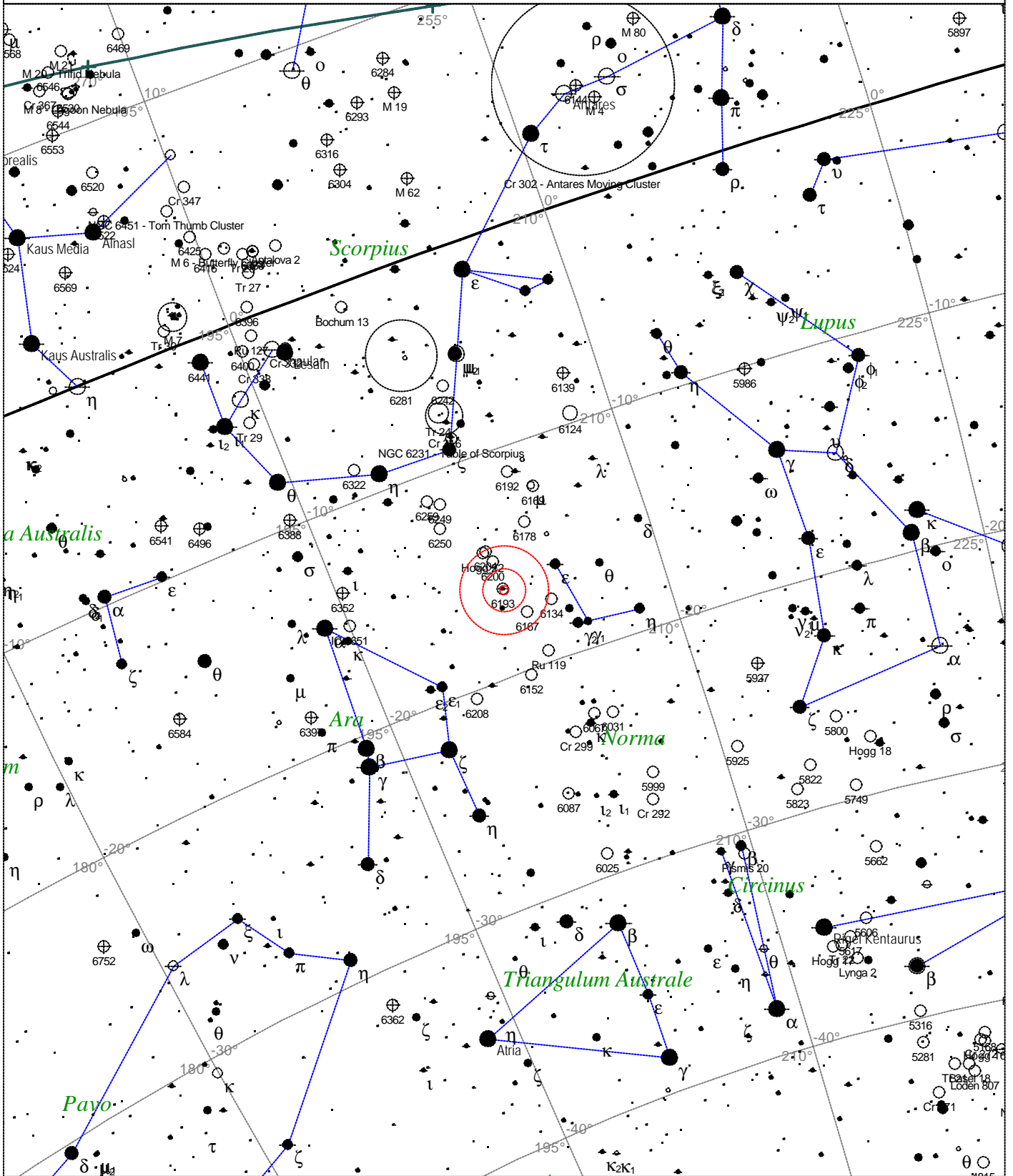
Caldwell 81 - NGC 6352



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ☉ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 81 - NGC 6352</i> Type of object: Globular cluster Magnitude: 8.0 Size: 7.1' Right ascension: 17h 25m 40s Declination: -48° 25' 41" Constellation: Ara</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 17h25m40s Dec: -48° 25' Field: 45.0° Julian Day: 2452530.3196

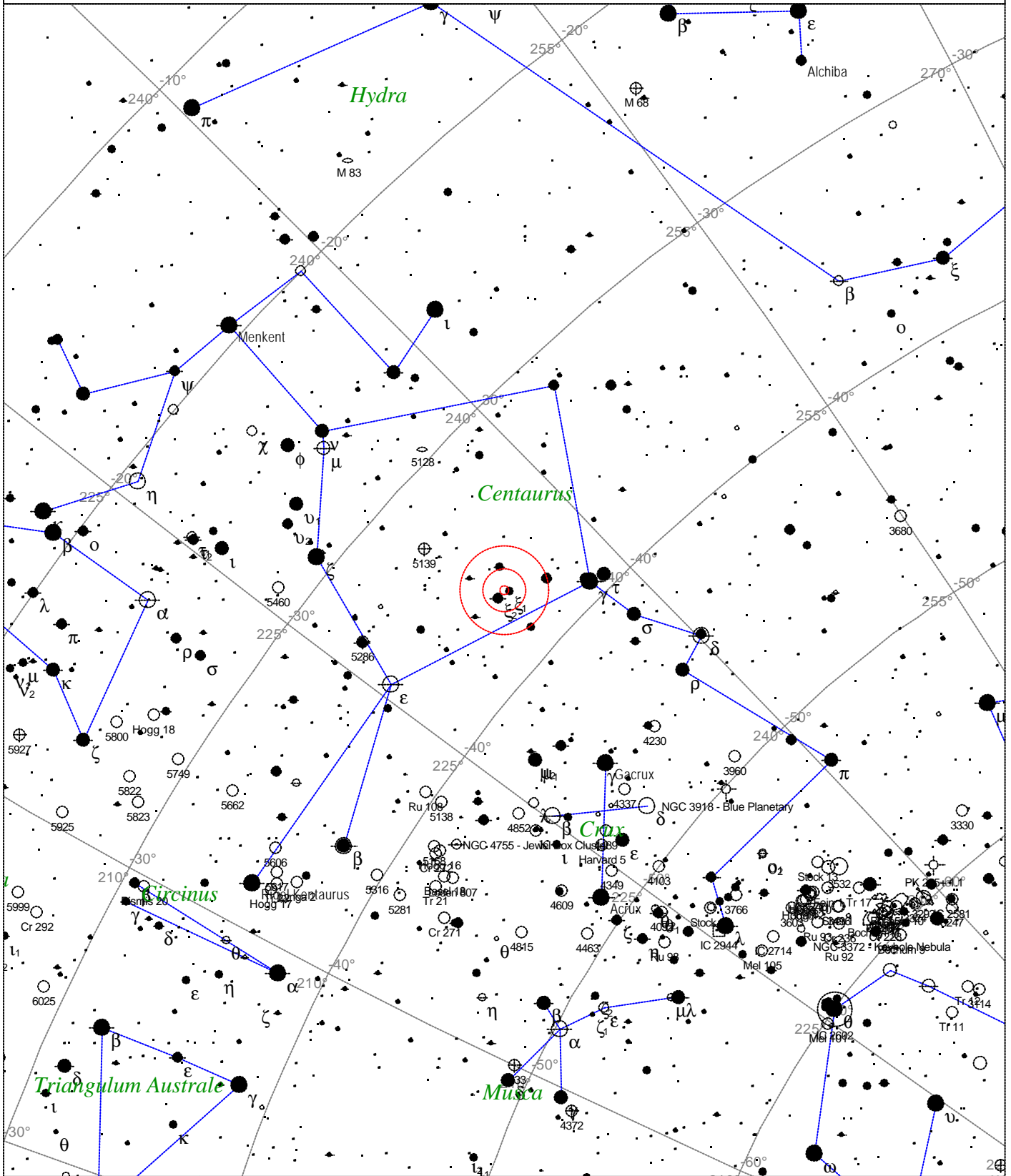
Caldwell 82 - NGC 6193



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 82 - NGC 6193 Type of object: Open cluster Magnitude: 5.0 Size: 15.0' Right ascension: 16h 41m 30s Declination: -48° 46' 13" Constellation: Ara</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 16h41m30s Dec: -48° 46' Field: 45.0° Julian Day: 2452530.3196

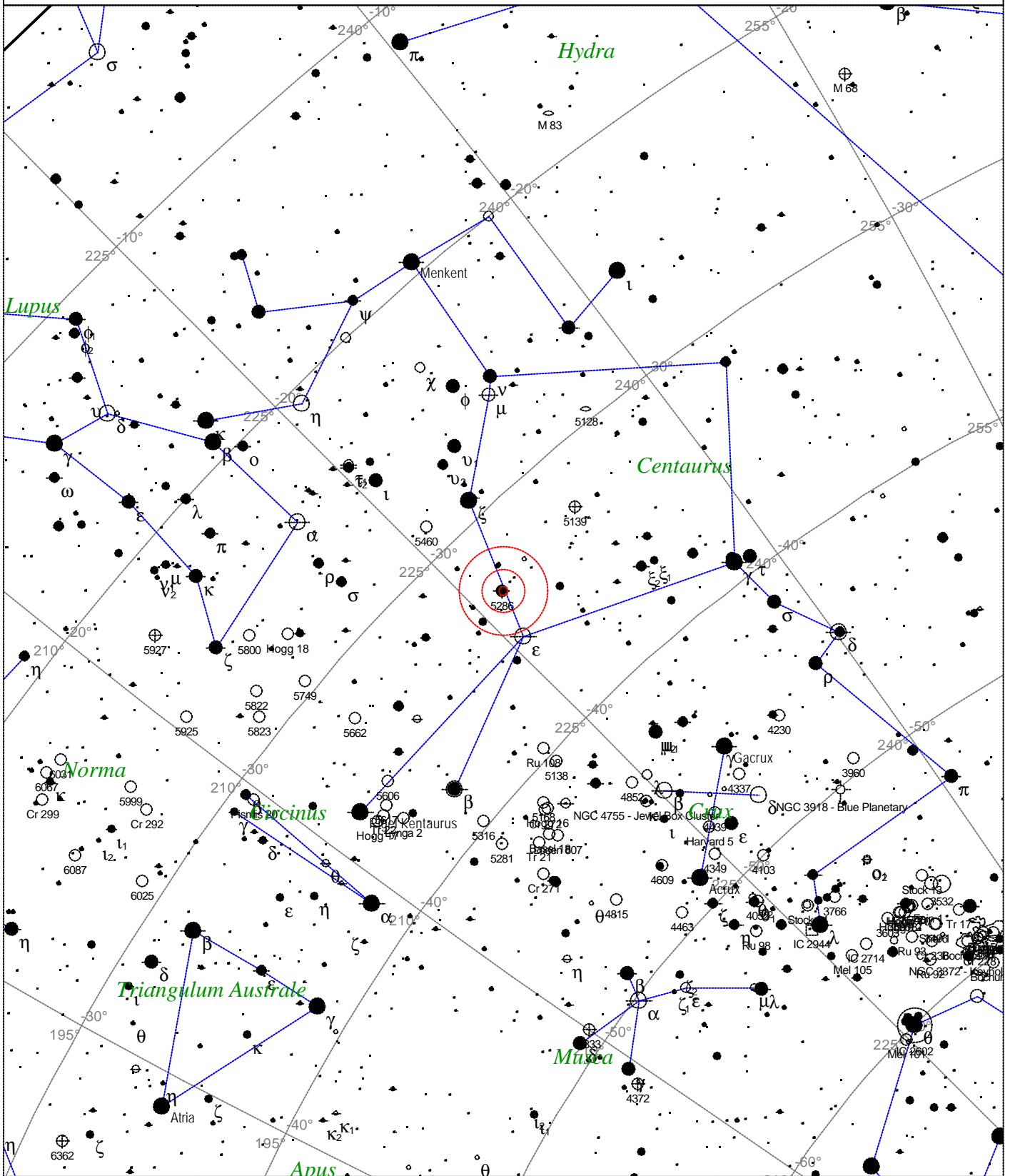
Caldwell 83 - NGC 4945



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 83 - NGC 4945</i> Type of object: Galaxy Magnitude: 9.3 Surface brightness: 13.6 mag/sq arcmin Size: 19.8'x4.0' Position angle: 43° Right ascension: 13h 5m 32s Declination: -49° 28' 36"</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 13h05m32s Dec: -49° 28' Field: 45.0°	Julian Day: 2452530.3196

Caldwell 84 - NGC 5286



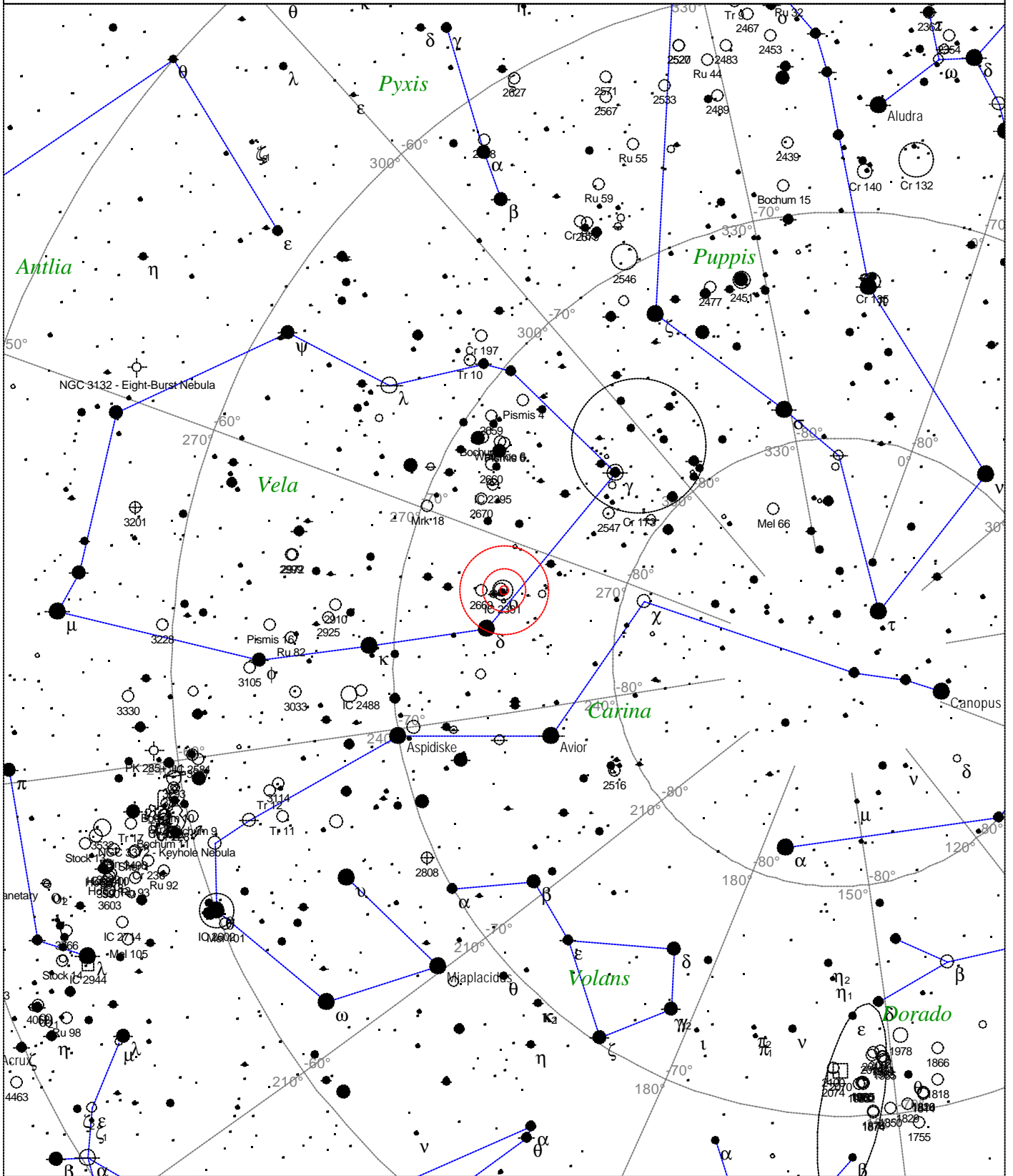
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 84 - NGC 5286</i> <i>Type of object: Globular cluster</i> <i>Magnitude: 7.3</i> <i>Size: 9.1'</i> <i>Right ascension: 13h 46m 34s</i> <i>Declination: -51° 23' 12"</i> <i>Constellation: Centaurus</i></p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 13h46m34s Dec: -51° 23' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

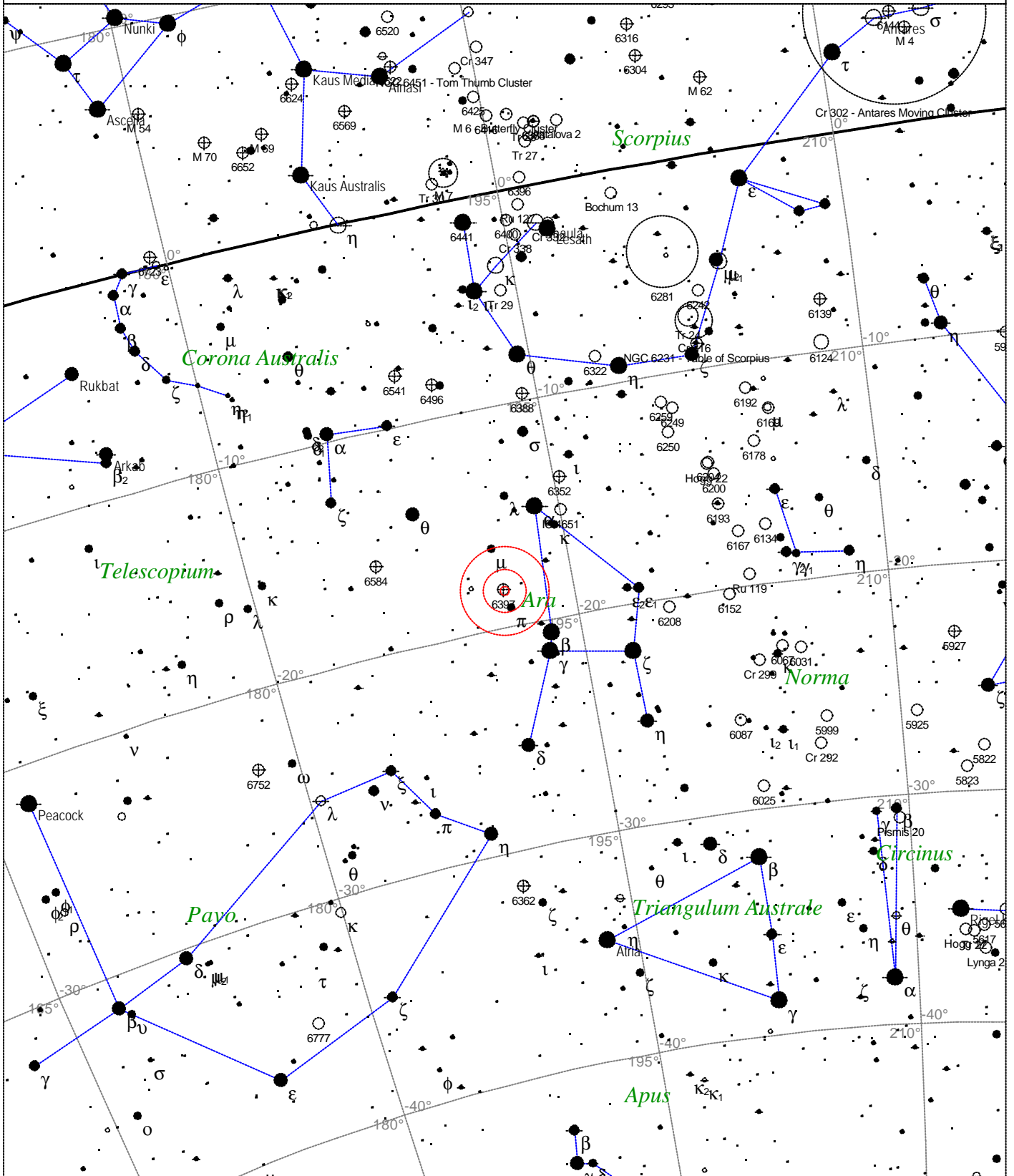
Caldwell 85 - IC 2391



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 85 - IC 2391</i> <i>Type of object: Open cluster</i> <i>Magnitude: 2.5</i> <i>Size: 60.0'</i> <i>Right ascension: 8h 39m 37s</i> <i>Declination: -52° 54' 54"</i> <i>Constellation: Vela</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 8h39m37s Dec: -52° 54' Field: 45.0°	Julian Day: 2452530.3196

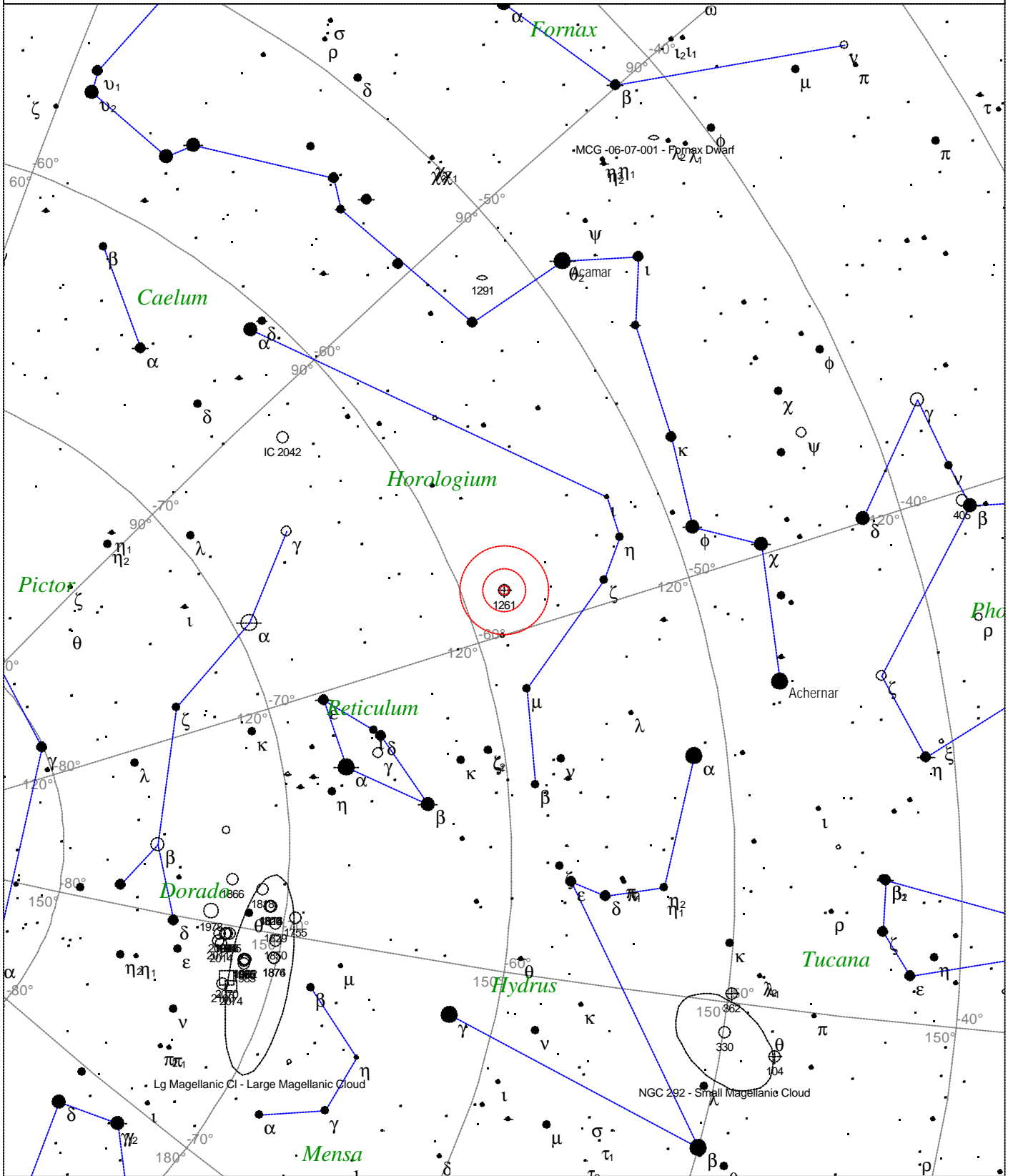
Caldwell 86 - NGC 6397



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source ✕ X-ray source ○ Other object 	<p><i>Caldwell 86 - NGC 6397</i> Type of object: Globular cluster Magnitude: 5.7 Size: 25.0' Right ascension: 17h 40m 53s Declination: -53° 40' 43" Constellation: Ara</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 17h40m53s Dec: -53° 40' Field: 45.0°	Julian Day: 2452530.3196

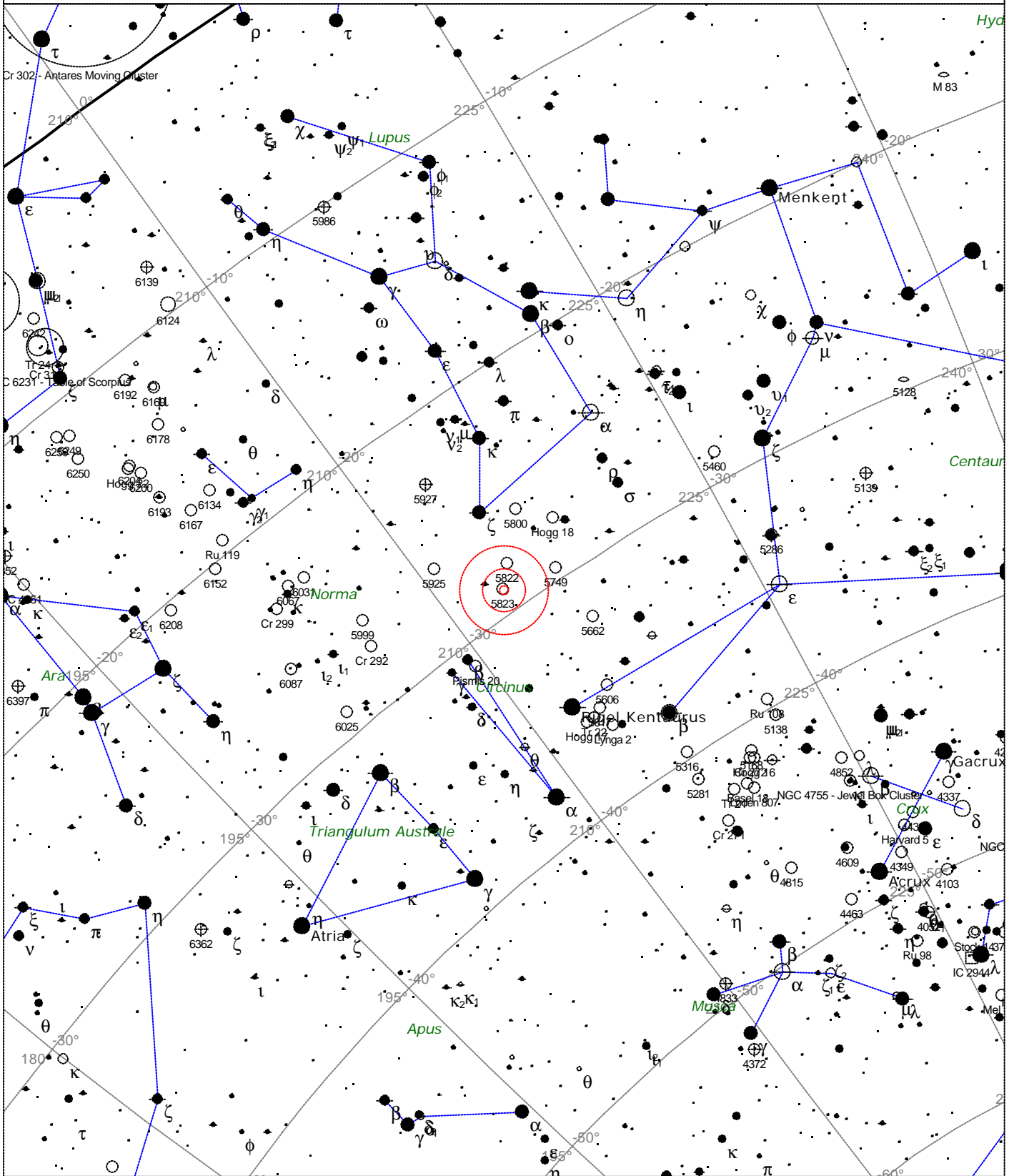
Caldwell 87 - NGC 1261



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 87 - NGC 1261</i> <i>Type of object: Globular cluster</i> <i>Magnitude: 8.3</i> <i>Size: 6.9'</i> <i>Right ascension: 3h 12m 21s</i> <i>Declination: -55° 12' 9"</i> <i>Constellation: Horologium</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 3h12m21s Dec: -55° 12' Field: 45.0°	Julian Day: 2452530.3196

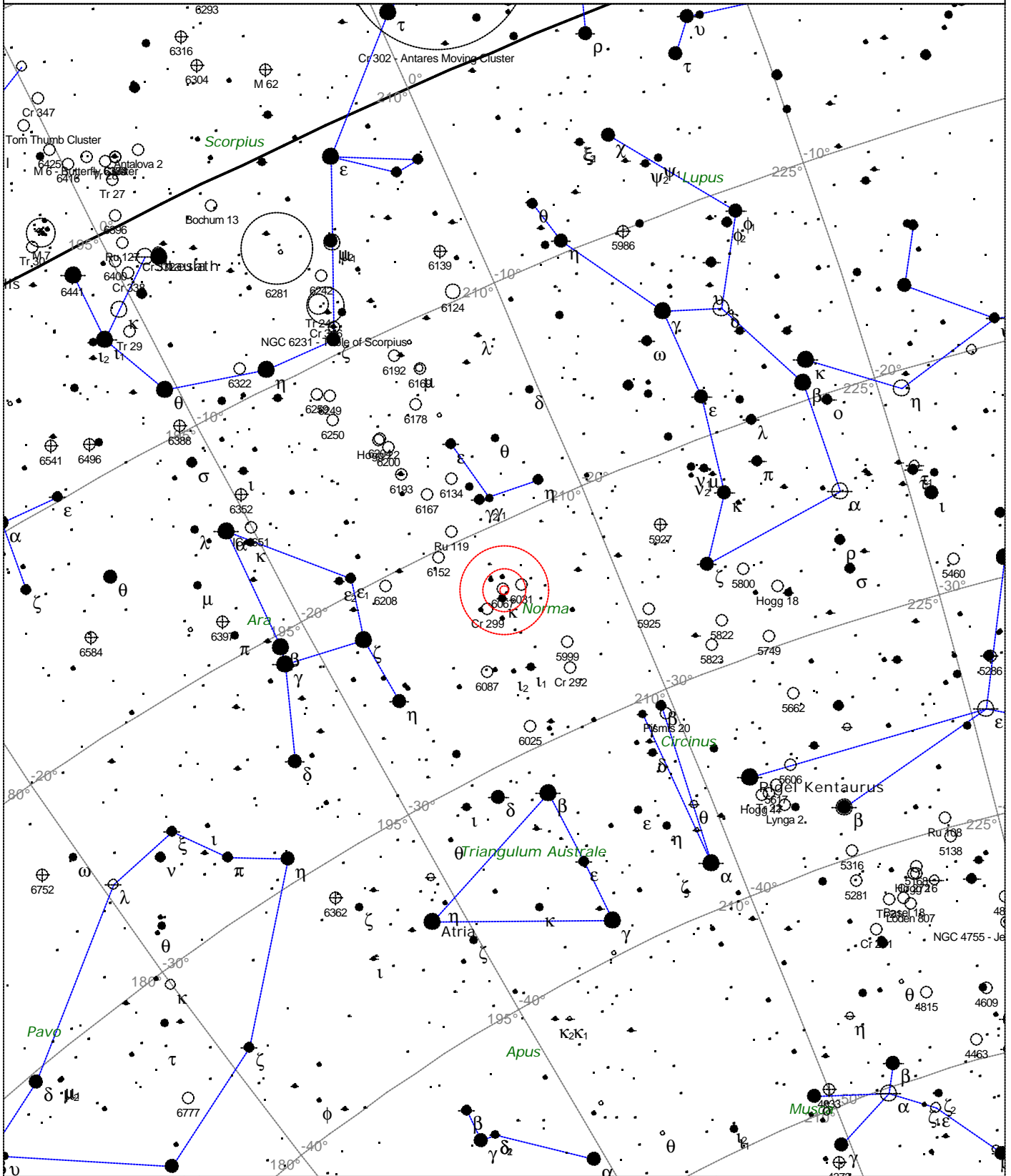
Caldwell 88 - NGC 5823



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 88 - NGC 5823</i> <i>Type of object: Open cluster</i> <i>Magnitude: 7.0</i> <i>Size: 12.0'</i> <i>Right ascension: 15h 5m 40s</i> <i>Declination: -55° 36' 57"</i> <i>Constellation: Circinus</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 15h05m40s Dec: -55° 36' Field: 45.0°	Julian Day: 2452530.3196

Caldwell 89 - NGC 6067



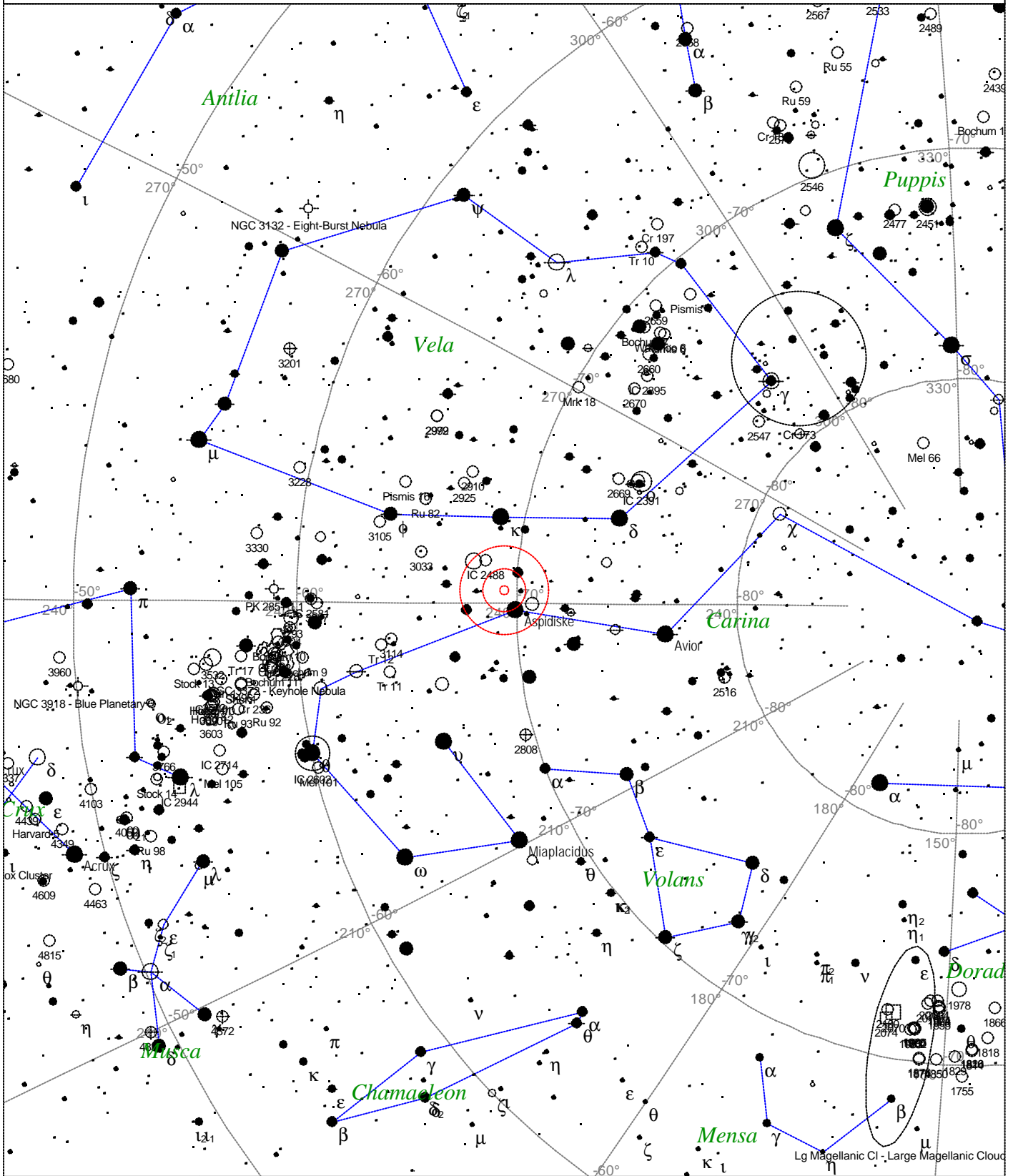
STARS		SYMBOLS			Caldwell 89 - NGC 6067 Type of object: Open cluster Magnitude: 5.0 Size: 14.0' Right ascension: 16h 13m 21s Declination: -54° 13' 42" Constellation: Norma
● <3	· 6	● Multiple star	◻ Dark nebula	△ Radio source	
● 3.5	· 6.5	○ Variable star	⊕ Globular cluster	× X-ray source	
● 4	· >7	☄ Comet	○ Open cluster	○ Other object	
● 4.5		☄ Galaxy	♁ Planetary nebula		
● 5		◻ Bright nebula	☄ Quasar		
● 5.5					

Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 16h13m21s Dec: -54° 13' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

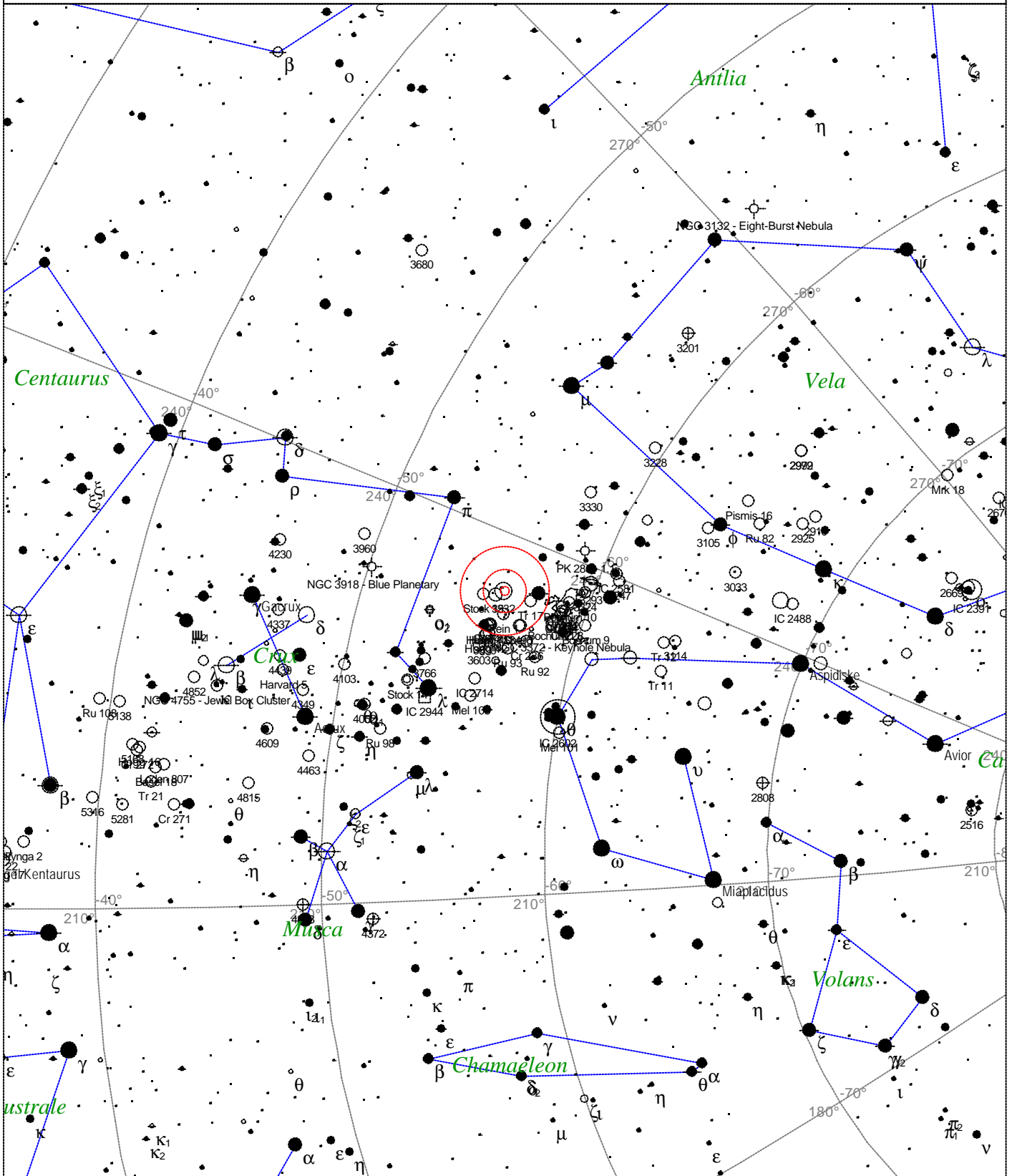
Caldwell 90 - NGC 2867



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 90 - NGC 2867</i> <i>Type of object: Planetary nebula</i> <i>Magnitude: 10.0</i> <i>Size: 12.0"</i> <i>Right ascension: 9h 21m 27s</i> <i>Declination: -58° 19' 5"</i> <i>Constellation: Carina</i></p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 9h21m27s Dec: -58° 19' Field: 45.0° Julian Day: 2452530.3196

Caldwell 91 - NGC 3532



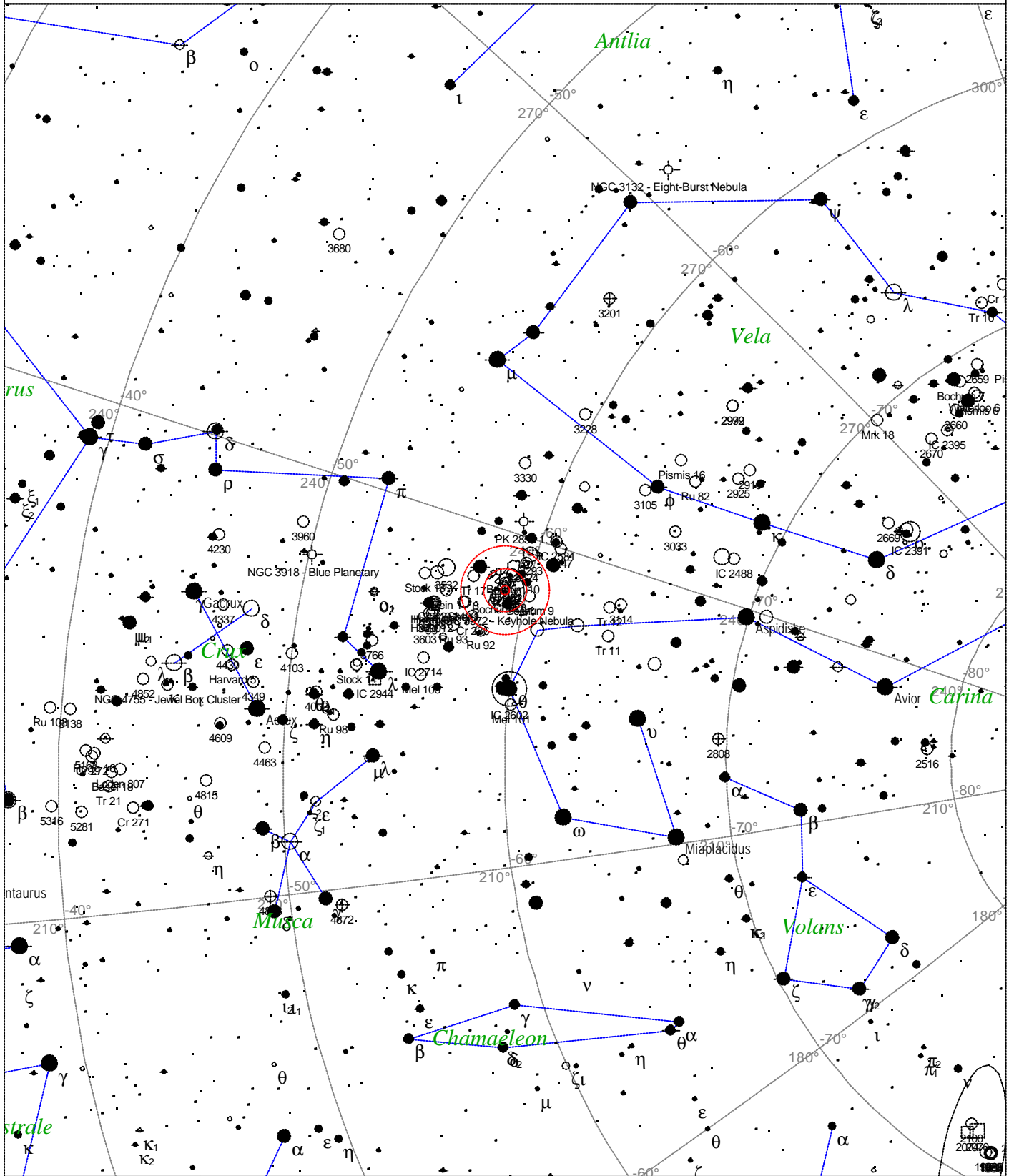
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☒ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 91 - NGC 3532</i> Type of object: Open cluster Magnitude: 3.0 Size: 50.0' Right ascension: 11h 5m 42s Declination: -58° 45' 52" Constellation: Carina</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 11h05m42s Dec: -58° 45' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

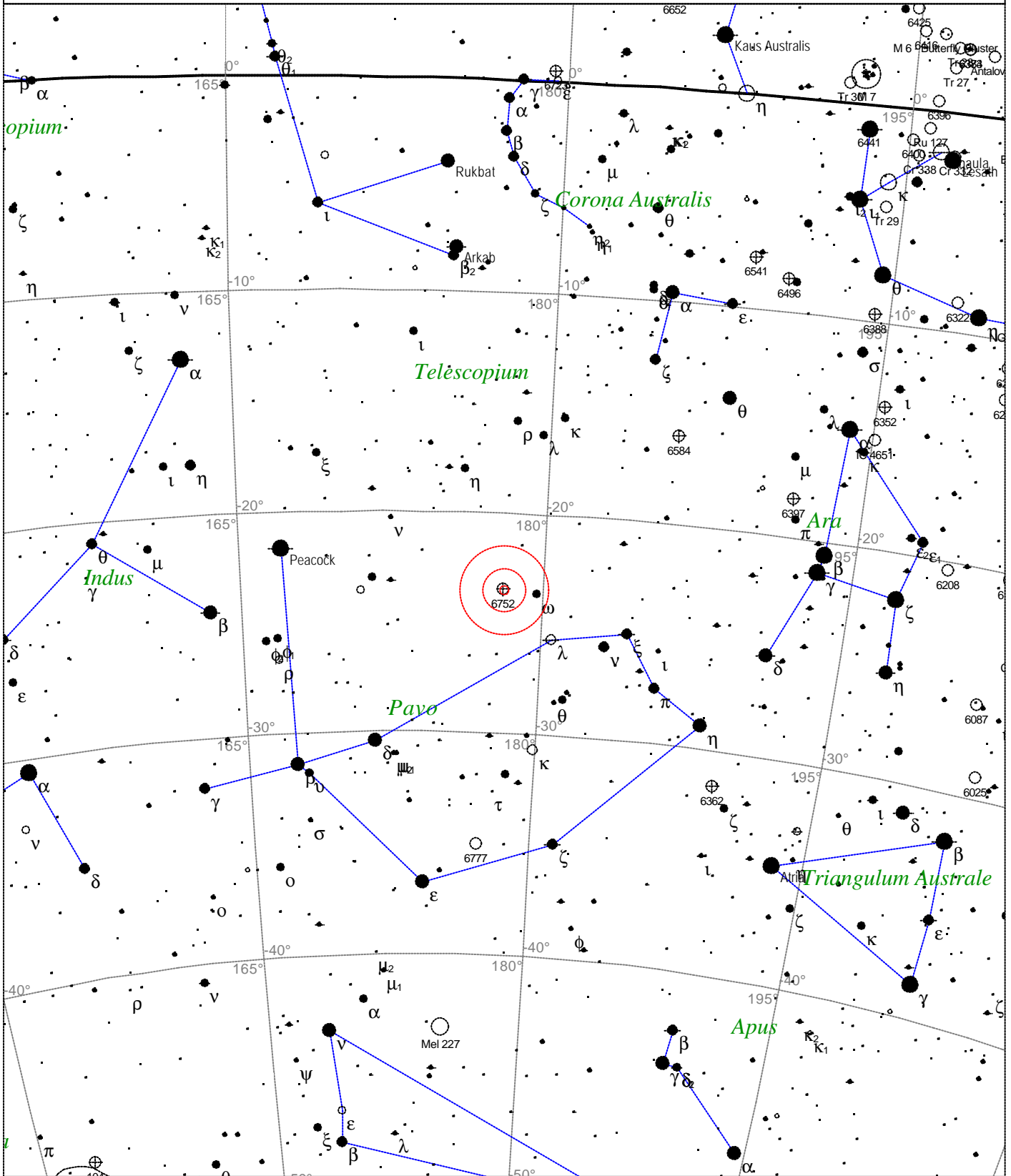
Caldwell 92 - Eta Carinae Nebula



STARS	SYMBOLS			Caldwell 92 - NGC 3372 - Eta Carinae Nebula Popular name: Keyhole Nebula Type of object: Bright nebula Magnitude: 3.0 Size: 120.0' Right ascension: 10h 45m 11s Declination: -59° 52' 38" Constellation: Carina
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar 	<ul style="list-style-type: none"> △ Radio source × X-ray source ○ Other object 	

Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 10h45m11s Dec: -59° 52' Field: 45.0° Julian Day: 2452530.3196

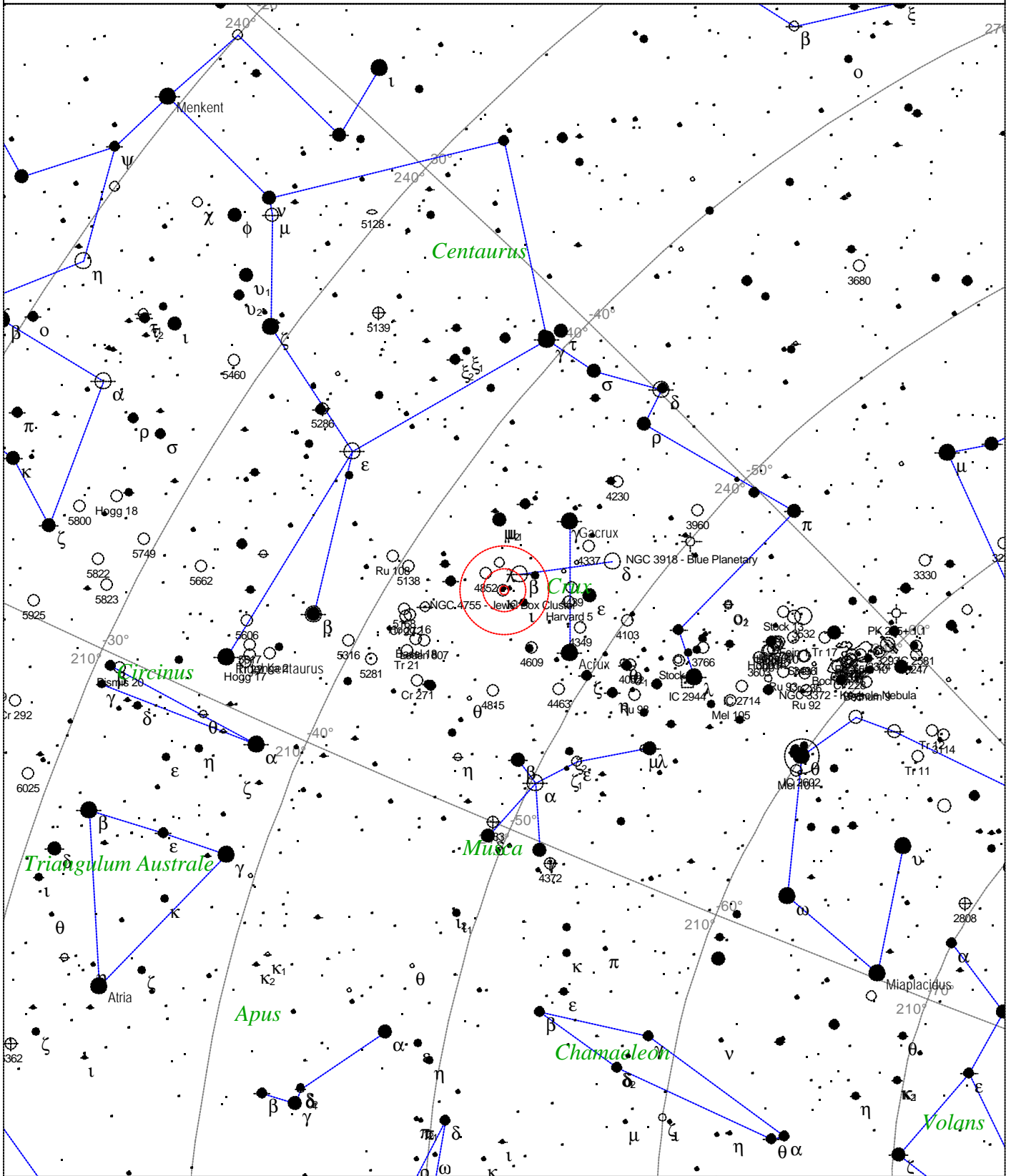
Caldwell 93 - NGC 6752



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 93 - NGC 6752</i> Type of object: Globular cluster Magnitude: 5.4 Size: 20.4' Right ascension: 19h 11m 6s Declination: -59° 58' 54" Constellation: Pavo</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 19h11m06s Dec: -59° 58' Field: 45.0° Julian Day: 2452530.3196

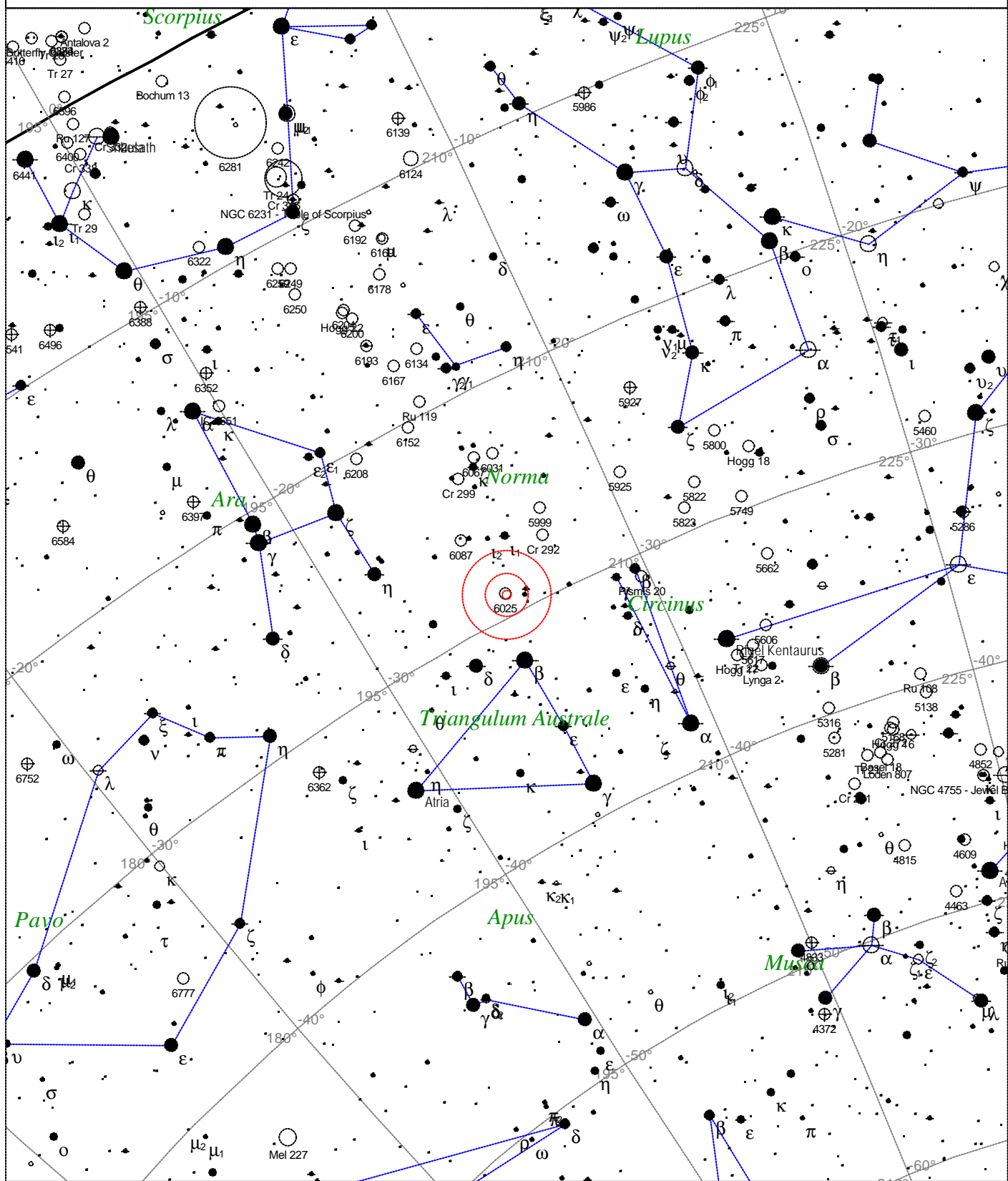
Caldwell 94 - Jewel Box Cluster



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source ✕ X-ray source ○ Other object 	<p>Caldwell 94 - NGC 4755 Popular name: Jewel Box Cluster Type of object: Open cluster Magnitude: 4.0 Size: 10.0' Right ascension: 12h 53m 43s Declination: -60° 22' 12" Constellation: Crux</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 12h53m43s Dec: -60° 22' Field: 45.0° Julian Day: 2452530.3196

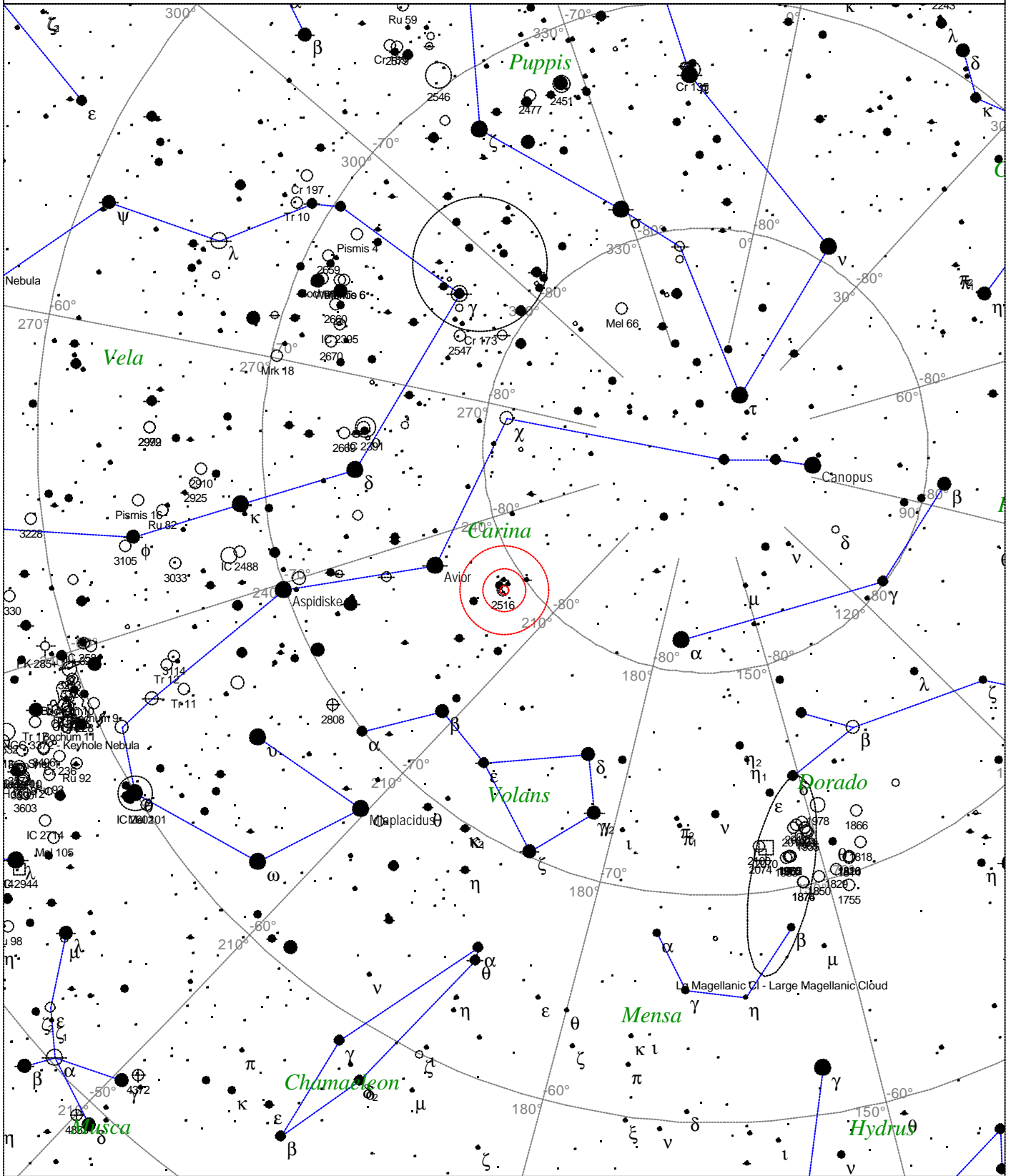
Caldwell 95 - NGC 6025



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source ✕ X-ray source ○ Other object 	<p><i>Caldwell 95 - NGC 6025</i> Type of object: Open cluster Magnitude: 5.0 Size: 14.0' Right ascension: 16h 3m 29s Declination: -60° 26' 31" Constellation: Triangulum Australe</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 16h03m29s Dec: -60° 26' Field: 45.0° Julian Day: 2452530.3196

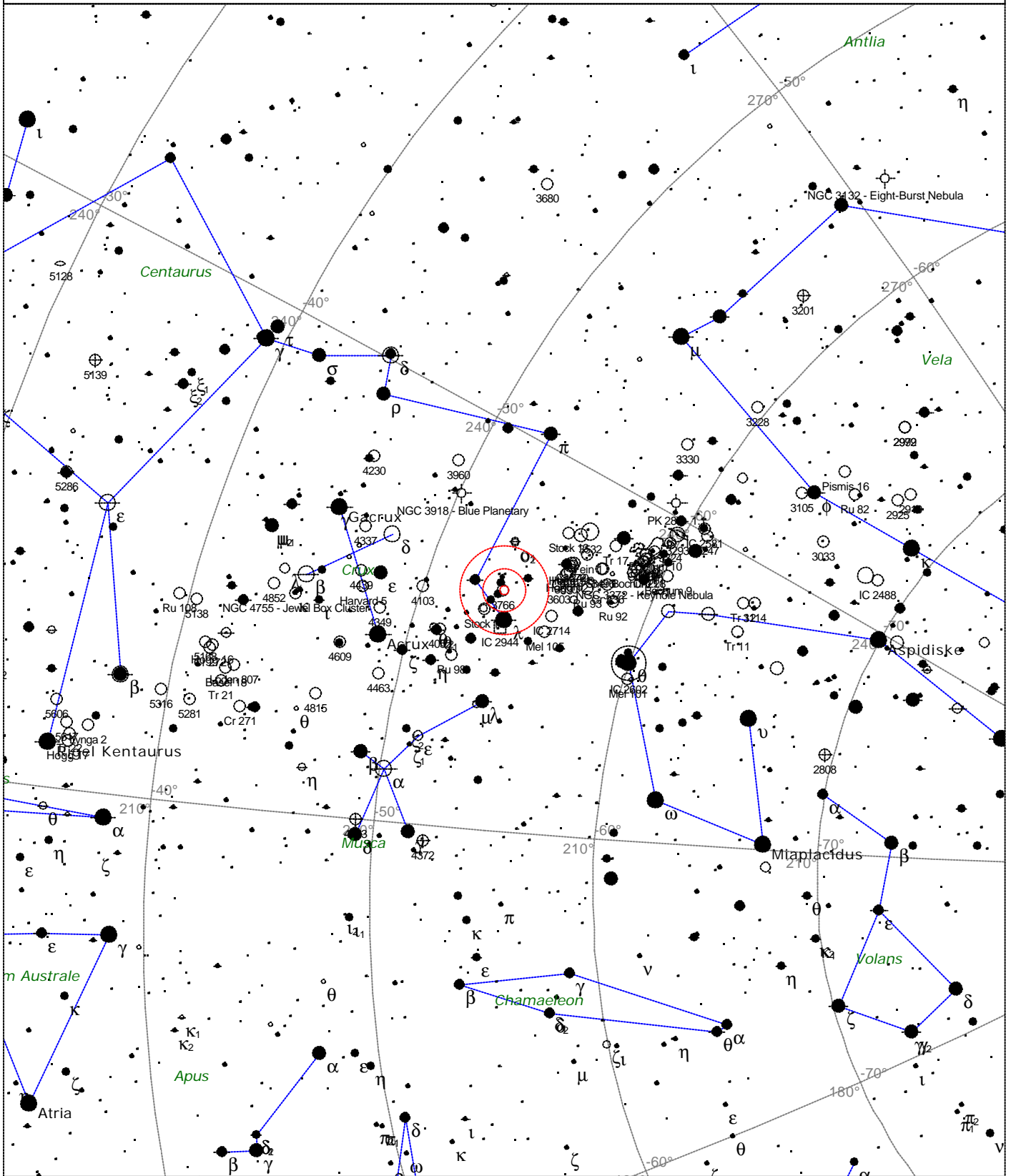
Caldwell 96 - NGC 2516



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊠ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 96 - NGC 2516</i> <i>Type of object: Open cluster</i> <i>Magnitude: 3.0</i> <i>Size: 21.0'</i> <i>Right ascension: 7h 58m 8s</i> <i>Declination: -60° 45' 16"</i> <i>Constellation: Carina</i></p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 7h58m08s Dec: -60° 45' Field: 45.0°	Julian Day: 2452530.3196

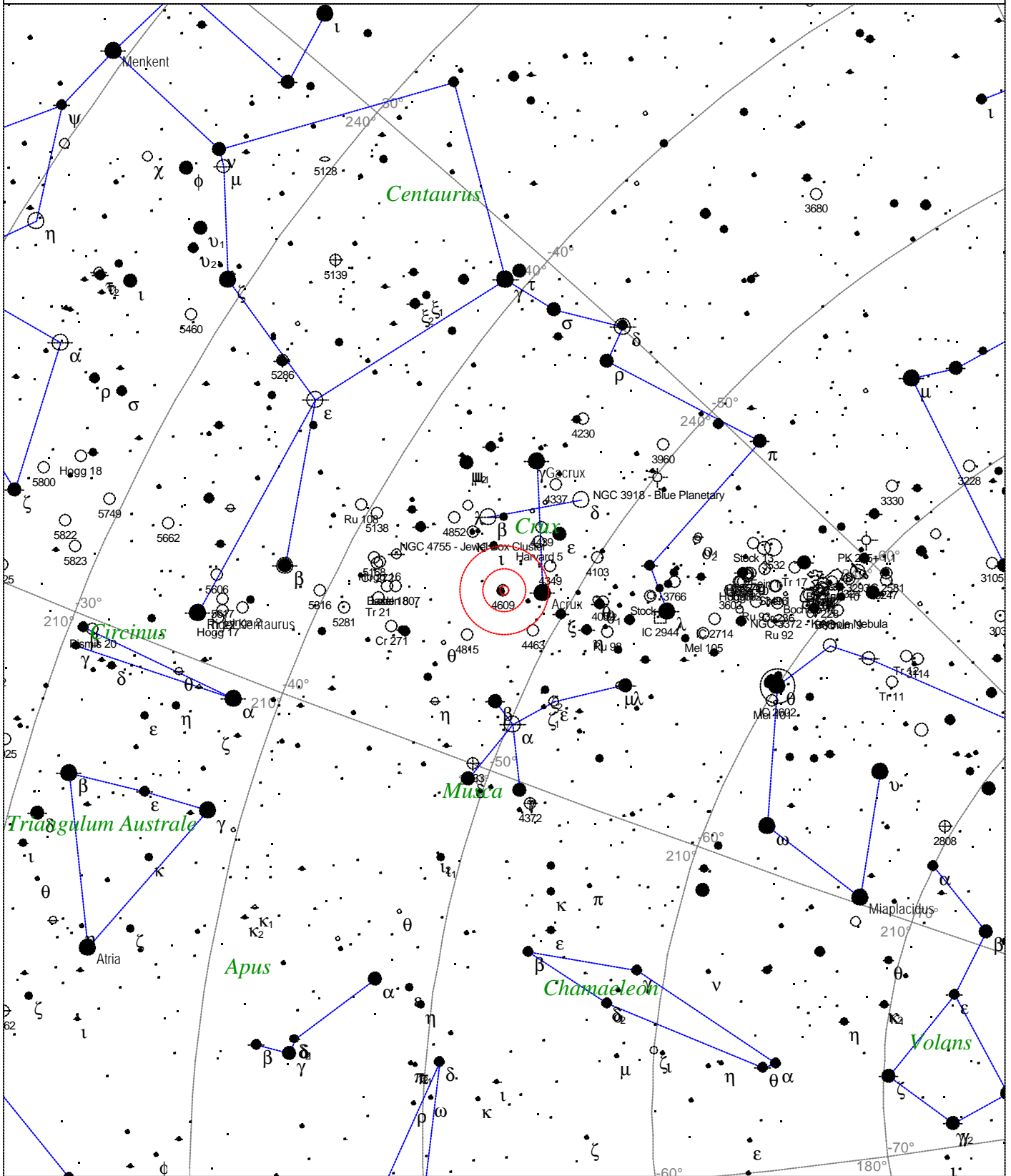
Caldwell 97 - NGC 3766



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 97 - NGC 3766 Type of object: Open cluster Magnitude: 5.0 Size: 14.0' Right ascension: 11h 36m 18s Declination: -61° 37' 20" Constellation: Centaurus</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 11h36m18s Dec: -61° 37' Field: 45.0° Julian Day: 2452530.3196

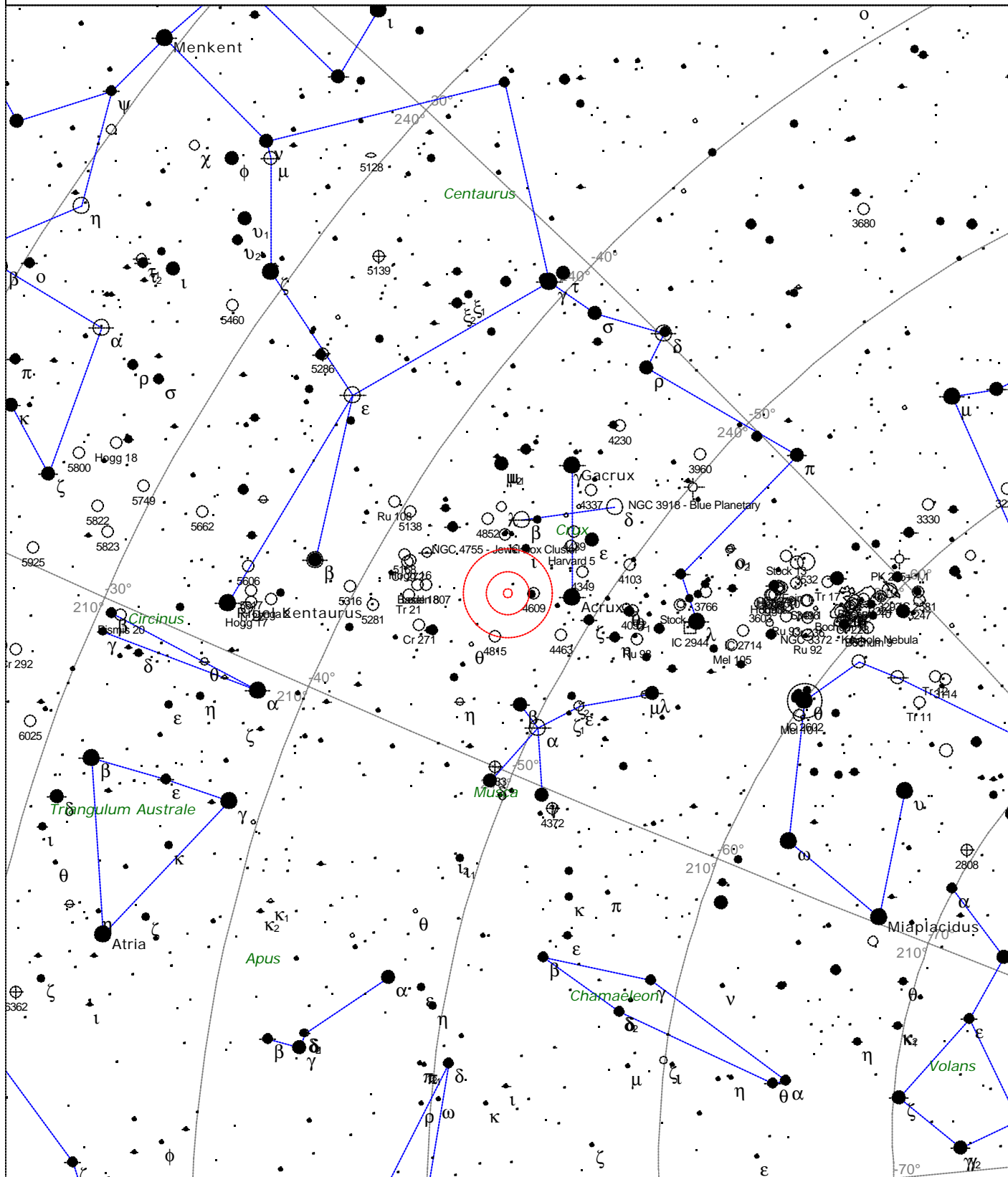
Caldwell 98 - NGC 4609



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 ● 6 ● 6.5 ● >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☄ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 98 - NGC 4609</i> Type of object: Open cluster Magnitude: 6.0 Size: 5.0' Right ascension: 12h 42m 25s Declination: -63° 0' 28" Constellation: Crux</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 12h42m25s Dec: -63° 00' Field: 45.0°	Julian Day: 2452530.3196

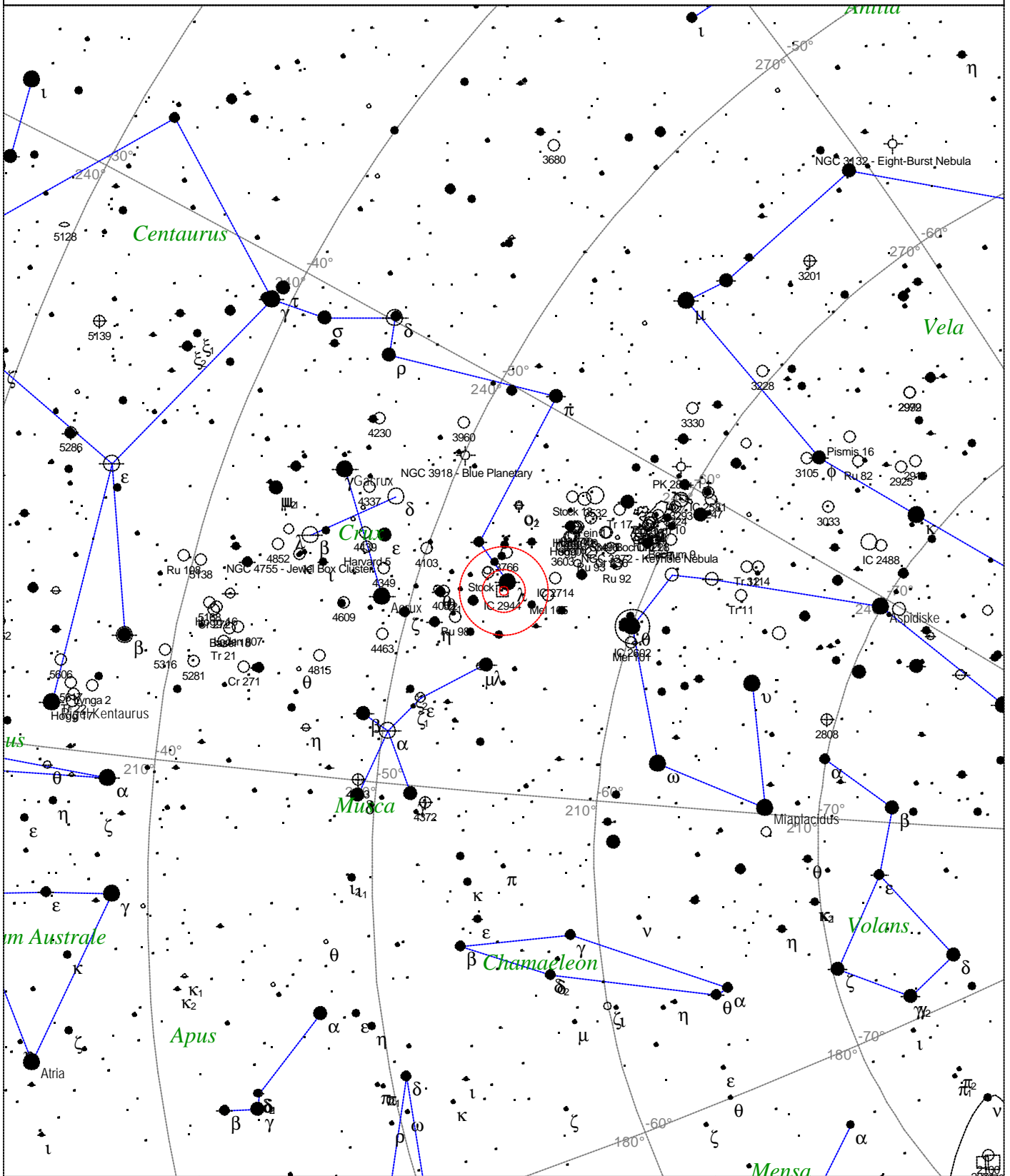
Caldwell 99 - Coalsack



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☾ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 99 - Coalsack</i> <i>Type of object: Dark nebula</i> <i>Size: 400.0'</i> <i>Right ascension: 12h 53m 6s</i> <i>Declination: -63° 0' 50"</i> <i>Constellation: Crux</i></p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 12h53m06s Dec: -63° 00' Field: 45.0° Julian Day: 2452530.3196

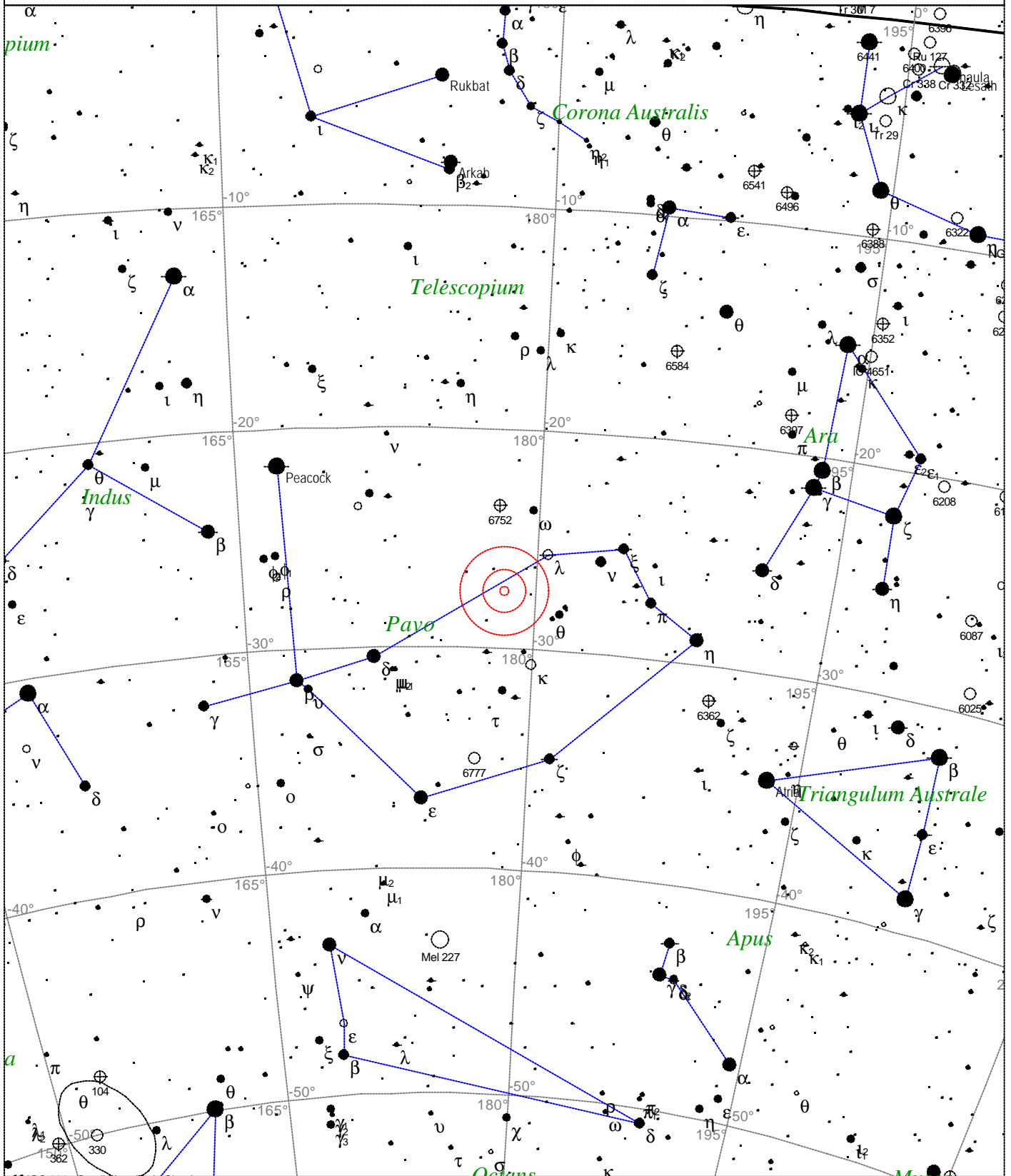
Caldwell 100 - IC 2944



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 100 - IC 2944 Type of object: Bright nebula Magnitude: 4.5 Size: 35.0' Right ascension: 11h 37m 57s Declination: -63° 21' 58" Constellation: Centaurus</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 11h37m57s Dec: -63° 21' Field: 45.0°	Julian Day: 2452530.3196

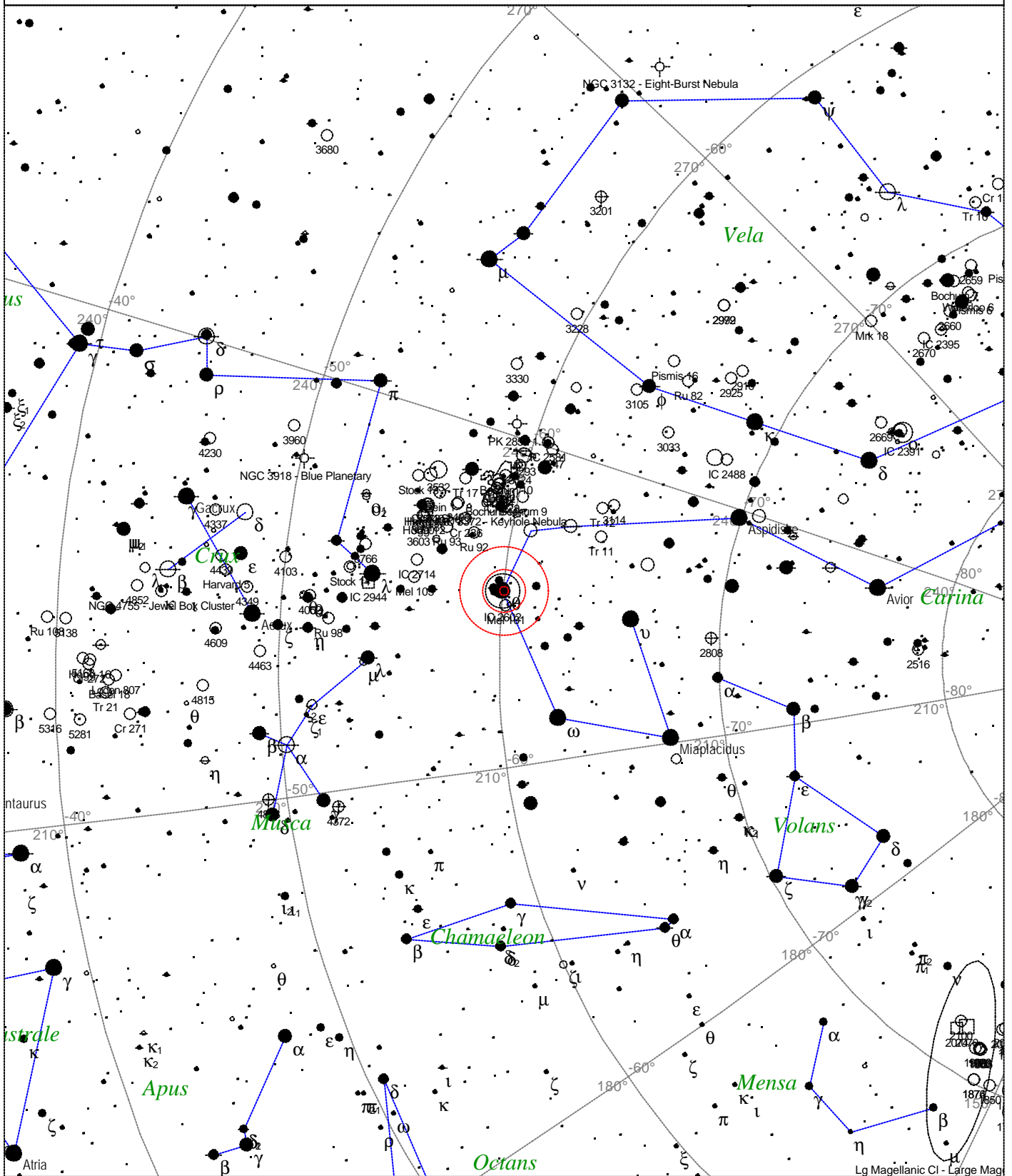
Caldwell 101 - NGC 6744



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 101 - NGC 6744</i> Type of object: Galaxy Magnitude: 9.1 Surface brightness: 13.8 mag/sq arcmin Size: 20.2'x13.2' Position angle: 15° Right ascension: 19h 10m 1s Declination: -63° 51' 26"</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 19h10m01s Dec: -63° 51' Field: 45.0° Julian Day: 2452530.3196

Caldwell 102 - IC 2602



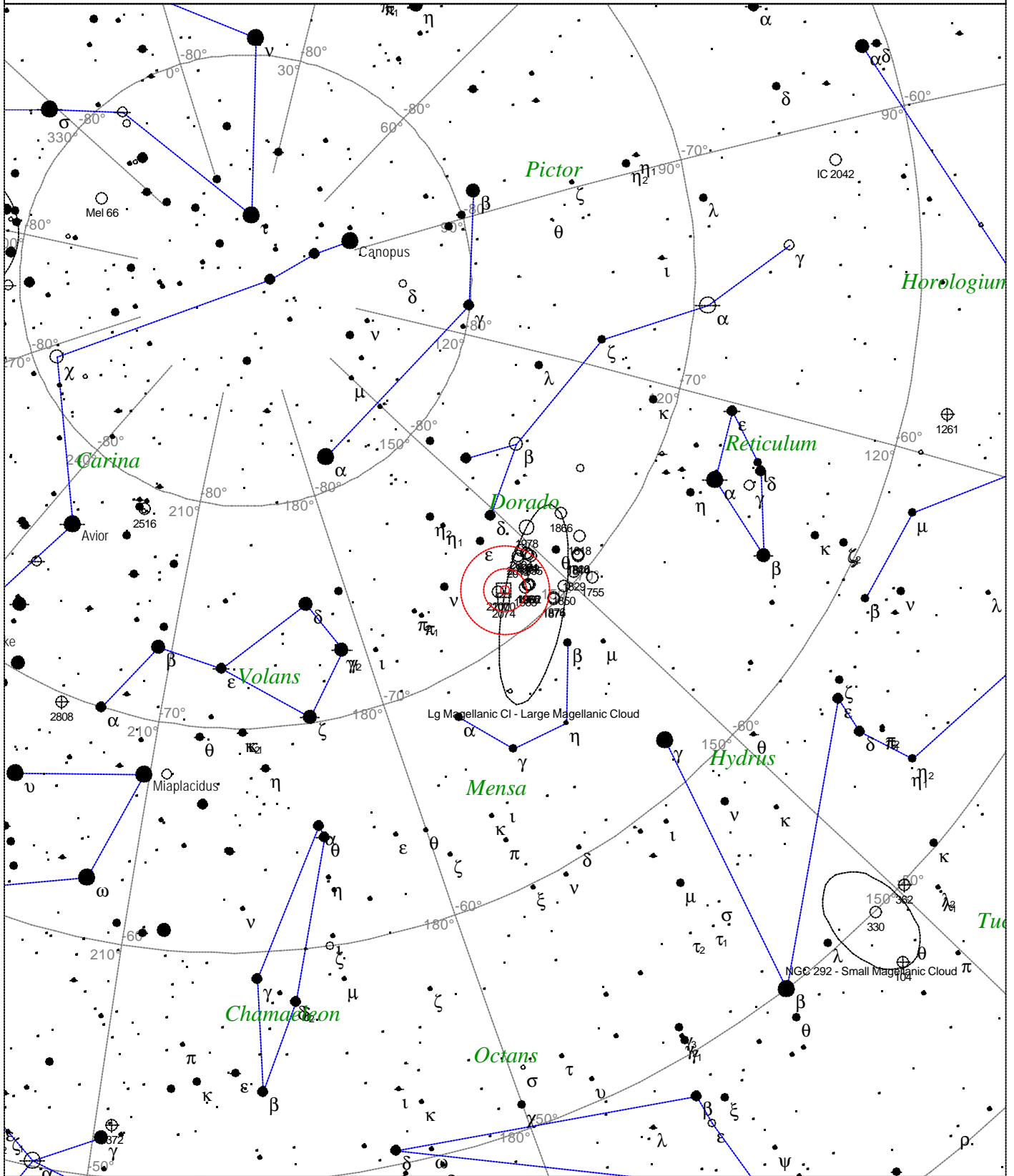
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ☄ Quasar △ Radio source × X-ray source ○ Other object 	<p>Caldwell 102 - IC 2602 Type of object: Open cluster Magnitude: 1.9 Size: 100.0' Right ascension: 10h 42m 58s Declination: -64° 24' 17" Constellation: Carina</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 10h42m58s Dec: -64° 24' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

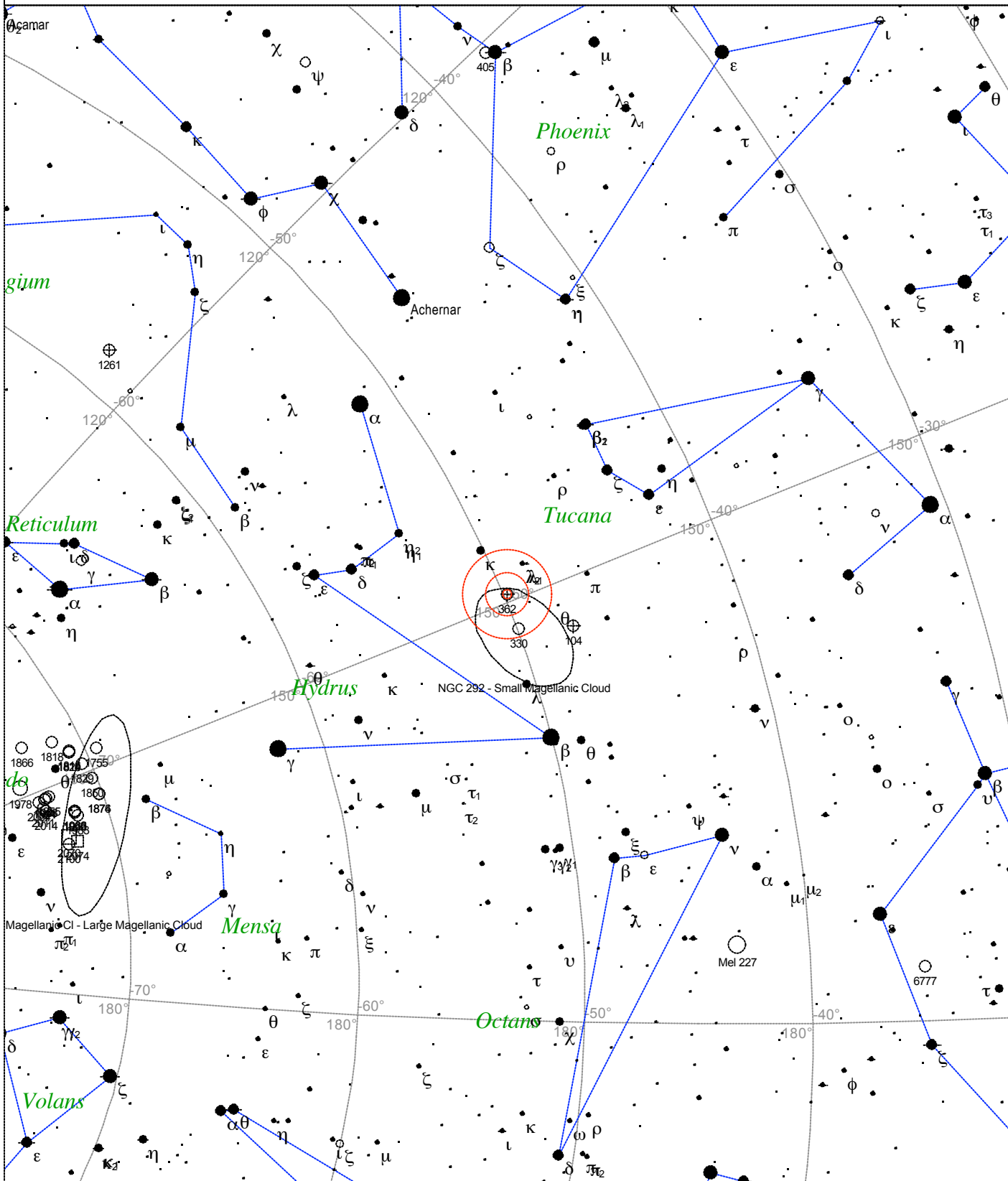
Caldwell 103 - NGC 2070



<p>STARS</p> <ul style="list-style-type: none"> ● <math><3</math> · 6 ● 3.5 · 6.5 ● 4 · >7 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 103 - NGC 2070</i> Type of object: Bright nebula Magnitude: 5.0 Size: 40.0' Right ascension: 5h 38m 37s Declination: -69° 5' 11" Constellation: Dorado</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 5h38m37s Dec: -69° 05' Field: 45.0° Julian Day: 2452530.3196

Caldwell 104 - NGC 362



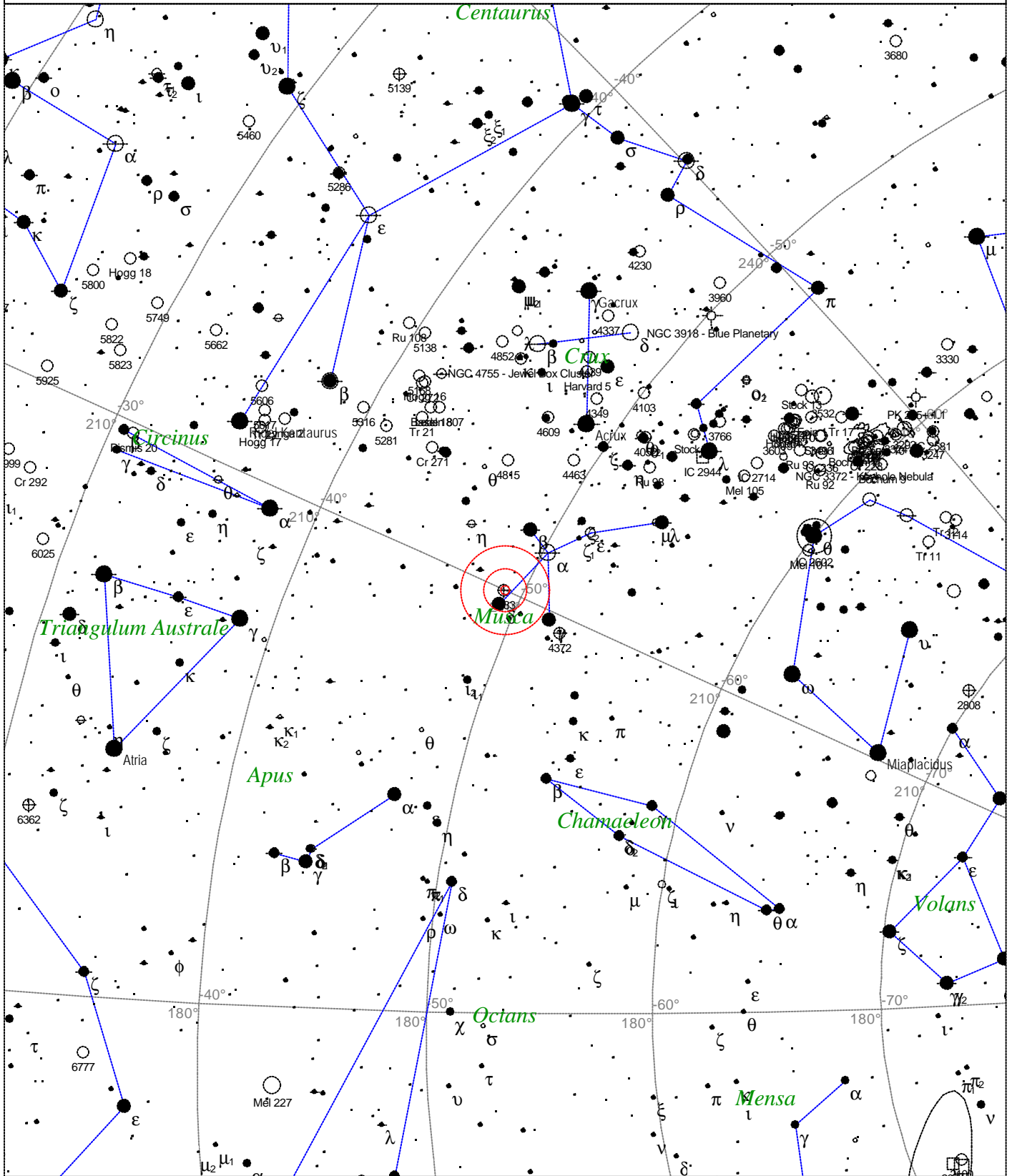
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 104 - NGC 362</i> <i>Type of object: Globular cluster</i> <i>Magnitude: 6.4</i> <i>Size: 12.9'</i> <i>Right ascension: 1h 3m 23s</i> <i>Declination: -70° 49' 57"</i> <i>Constellation: Tucana</i></p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 1h03m23s Dec: -70° 49' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

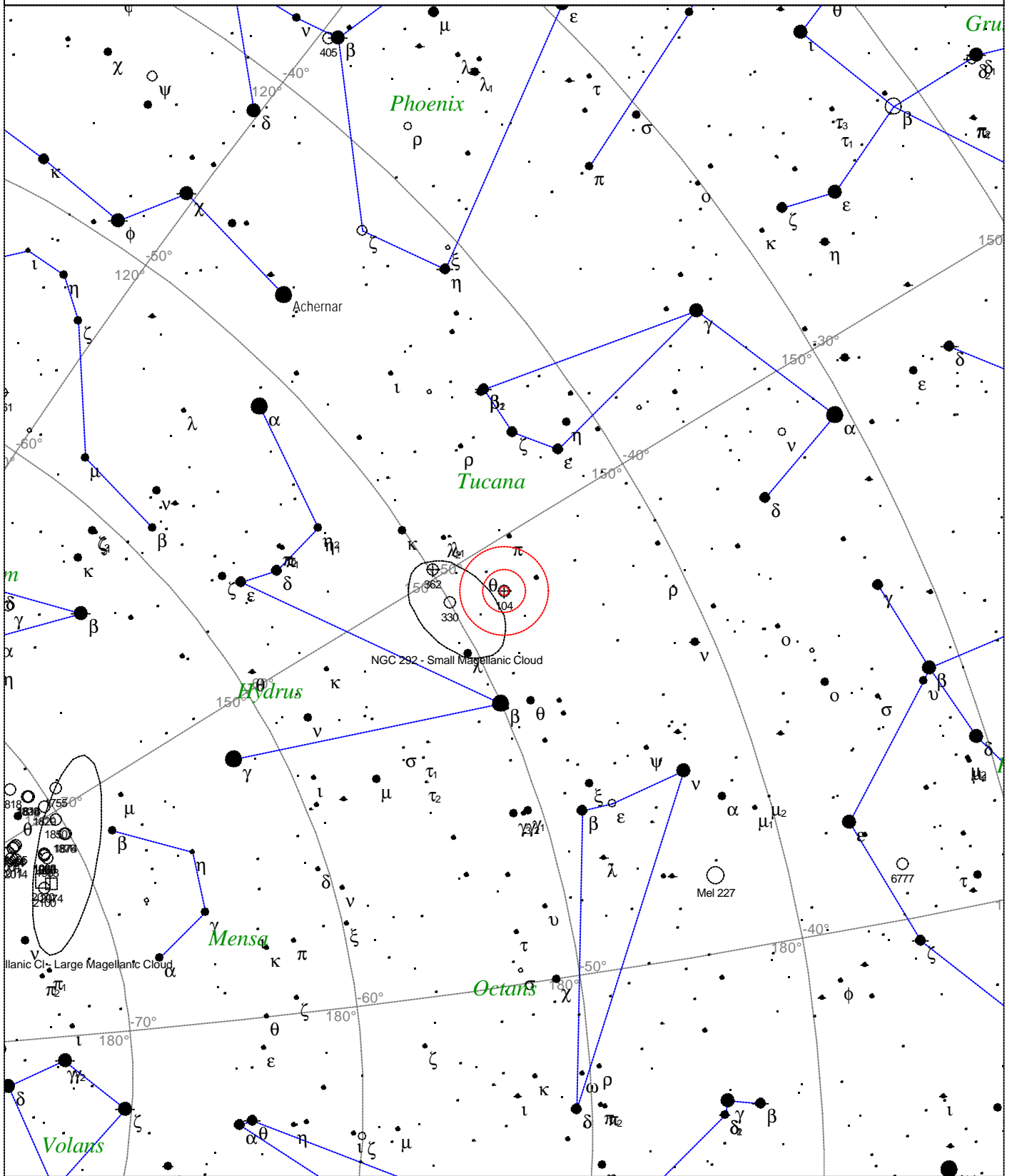
Caldwell 105 - NGC 4833



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ⊞ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 105 - NGC 4833</i> Type of object: Globular cluster Magnitude: 6.9 Size: 13.5' Right ascension: 12h 59m 41s Declination: -70° 53' 21" Constellation: Musca</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 12h59m41s Dec: -70° 53' Field: 45.0° Julian Day: 2452530.3196

Caldwell 106 - NGC 104



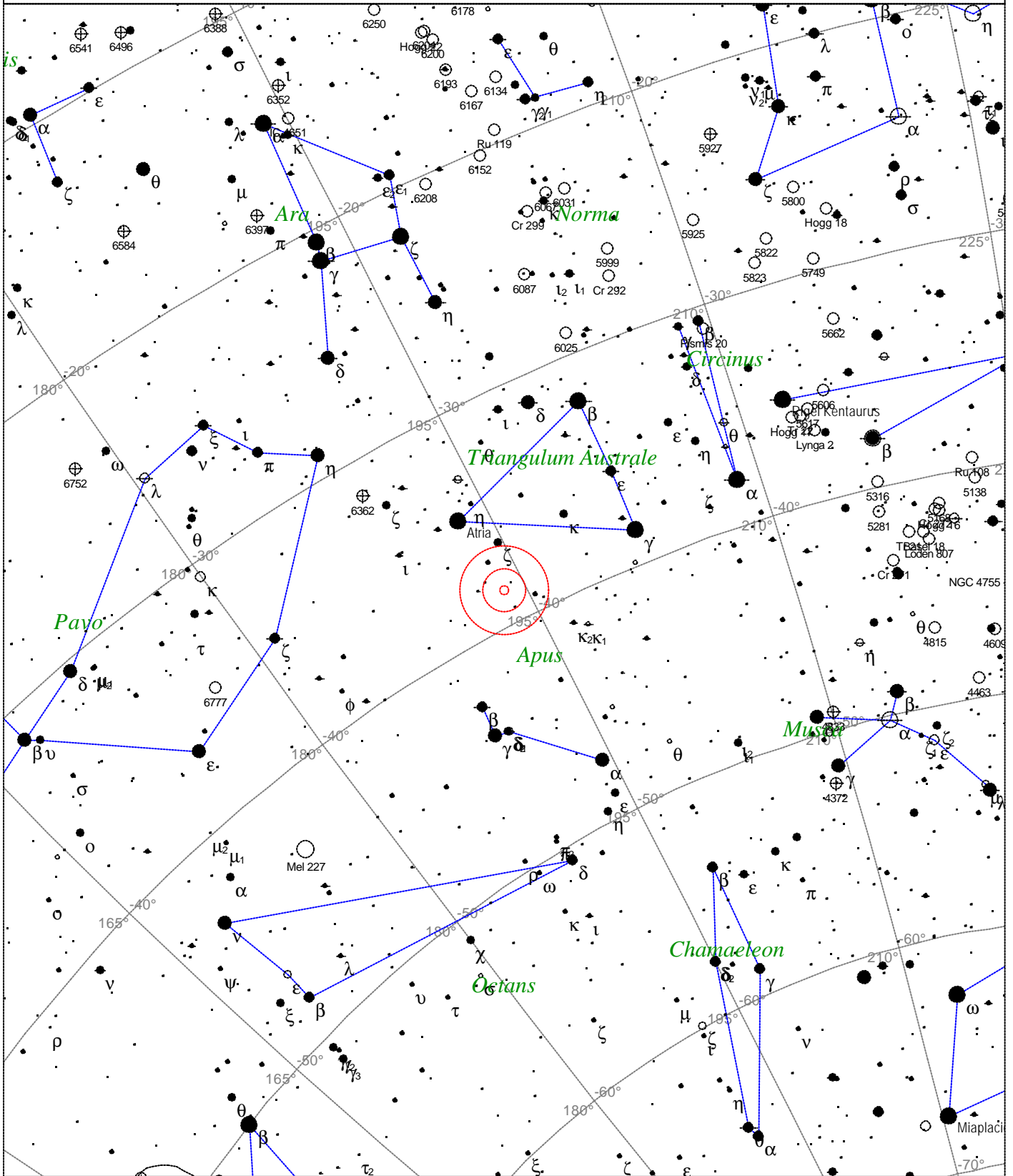
<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☐ Galaxy ☐ Bright nebula ☐ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☉ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 106 - NGC 104</i> Type of object: Globular cluster Magnitude: 4.0 Size: 30.0' Right ascension: 0h 24m 16s Declination: -72° 3' 56" Constellation: Tucana</p>
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Local Time: 19:40:11 12-Sep-2002
 Location: 53° 27' 0" N 2° 31' 0" W

UTC: 19:40:11 12-Sep-2002
 RA: 0h24m16s Dec: -72° 03' Field: 45.0°

Sidereal Time: 18:56:39
 Julian Day: 2452530.3196

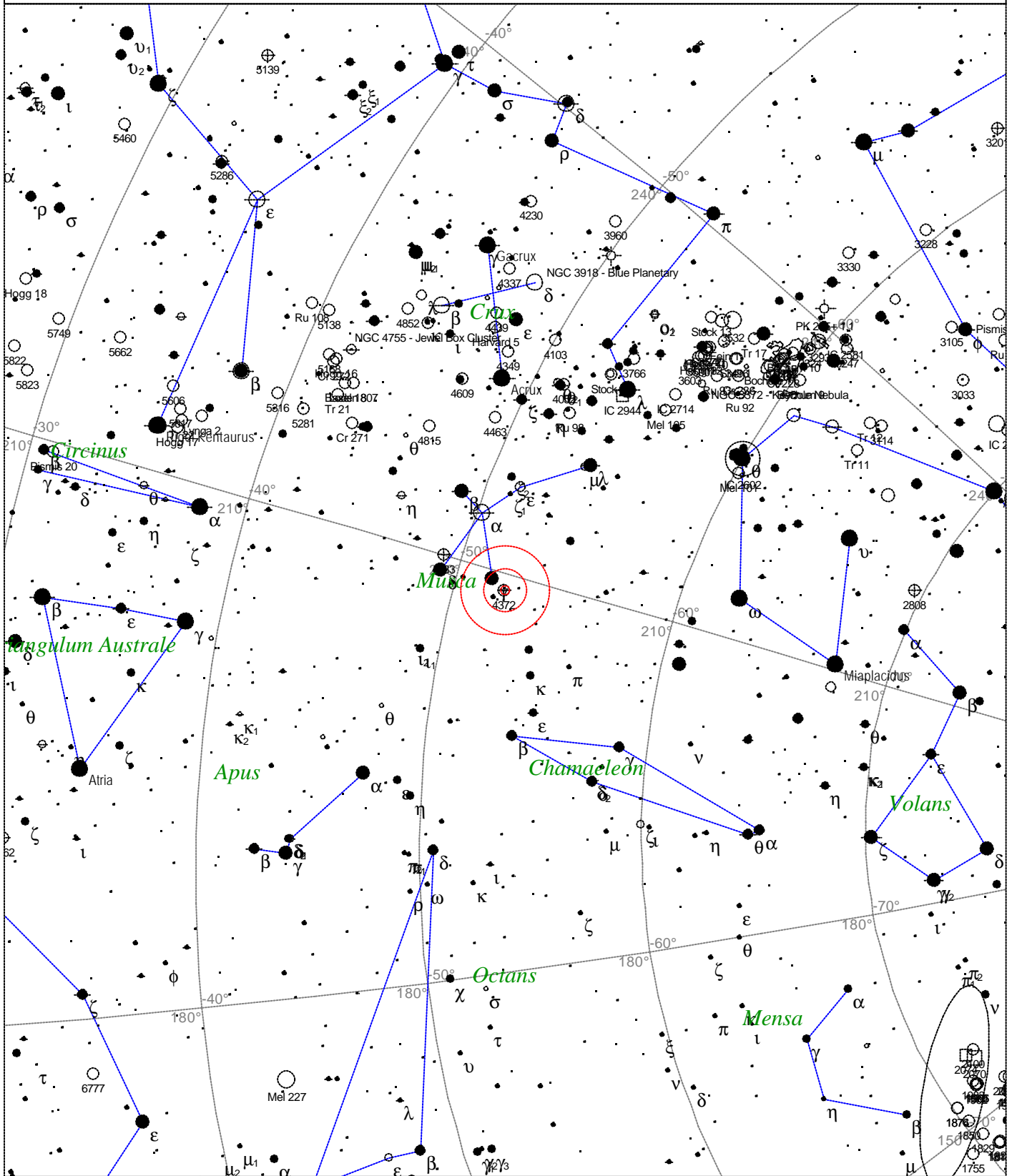
Caldwell 107 - NGC 6101



STARS	SYMBOLS			Caldwell 107 - NGC 6101 Type of object: Globular cluster Magnitude: 9.2 Size: 10.7' Right ascension: 16h 26m 4s Declination: -72° 12' 43" Constellation: Apus
<ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula 	<ul style="list-style-type: none"> □ Dark nebula ⊕ Globular cluster ○ Open cluster ♁ Planetary nebula ☄ Quasar 	<ul style="list-style-type: none"> △ Radio source ✕ X-ray source ○ Other object 	

Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 16h26m04s Dec: -72° 12' Field: 45.0°	Julian Day: 2452530.3196

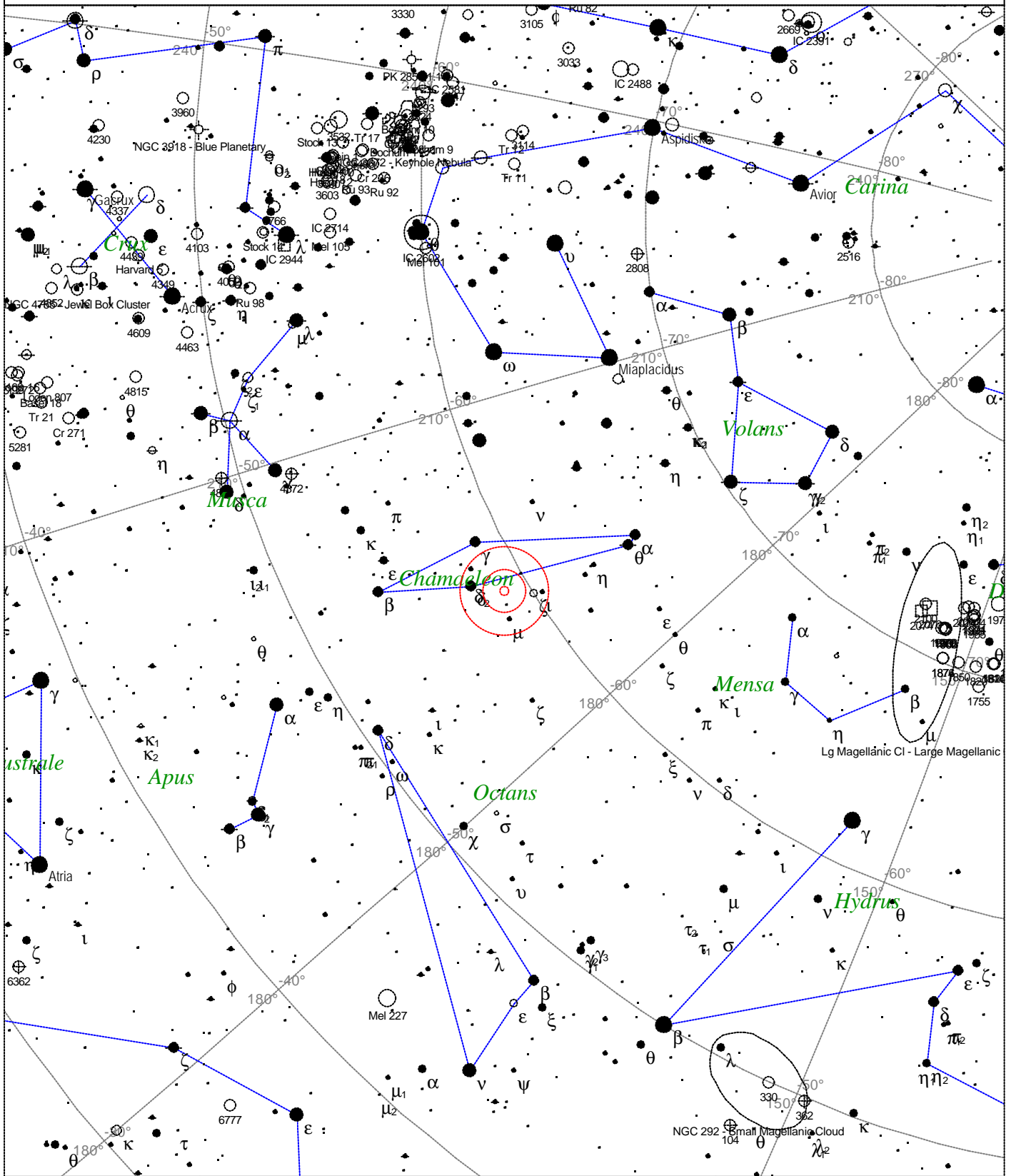
Caldwell 108 - NGC 4372



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 · 6 · 6.5 · >7 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☉ Galaxy □ Bright nebula □ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 108 - NGC 4372</i> Type of object: Globular cluster Magnitude: 7.2 Size: 18.6' Right ascension: 12h 25m 49s Declination: -72° 40' 23" Constellation: Musca</p>
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Local Time: 19:40:11 12-Sep-2002	UTC: 19:40:11 12-Sep-2002	Sidereal Time: 18:56:39
Location: 53° 27' 0" N 2° 31' 0" W	RA: 12h25m49s Dec: -72° 40' Field: 45.0°	Julian Day: 2452530.3196

Caldwell 109 - NGC 3195



<p>STARS</p> <ul style="list-style-type: none"> ● <3 ● 3.5 ● 4 ● 4.5 ● 5 ● 5.5 	<p>SYMBOLS</p> <ul style="list-style-type: none"> ● Multiple star ○ Variable star ☄ Comet ☾ Galaxy □ Bright nebula ◻ Dark nebula ⊕ Globular cluster ○ Open cluster ⊕ Planetary nebula ⊗ Quasar △ Radio source × X-ray source ○ Other object 	<p><i>Caldwell 109 - NGC 3195</i> Type of object: Planetary nebula Magnitude: 10.0 Size: 48.0"x30.0" Right ascension: 10h 9m 11s Declination: -80° 52' 5" Constellation: Chamaeleon</p>
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Local Time: 19:40:11 12-Sep-2002 UTC: 19:40:11 12-Sep-2002 Sidereal Time: 18:56:39
 Location: 53° 27' 0" N 2° 31' 0" W RA: 10h09m11s Dec: -80° 52' Field: 45.0° Julian Day: 2452530.3196