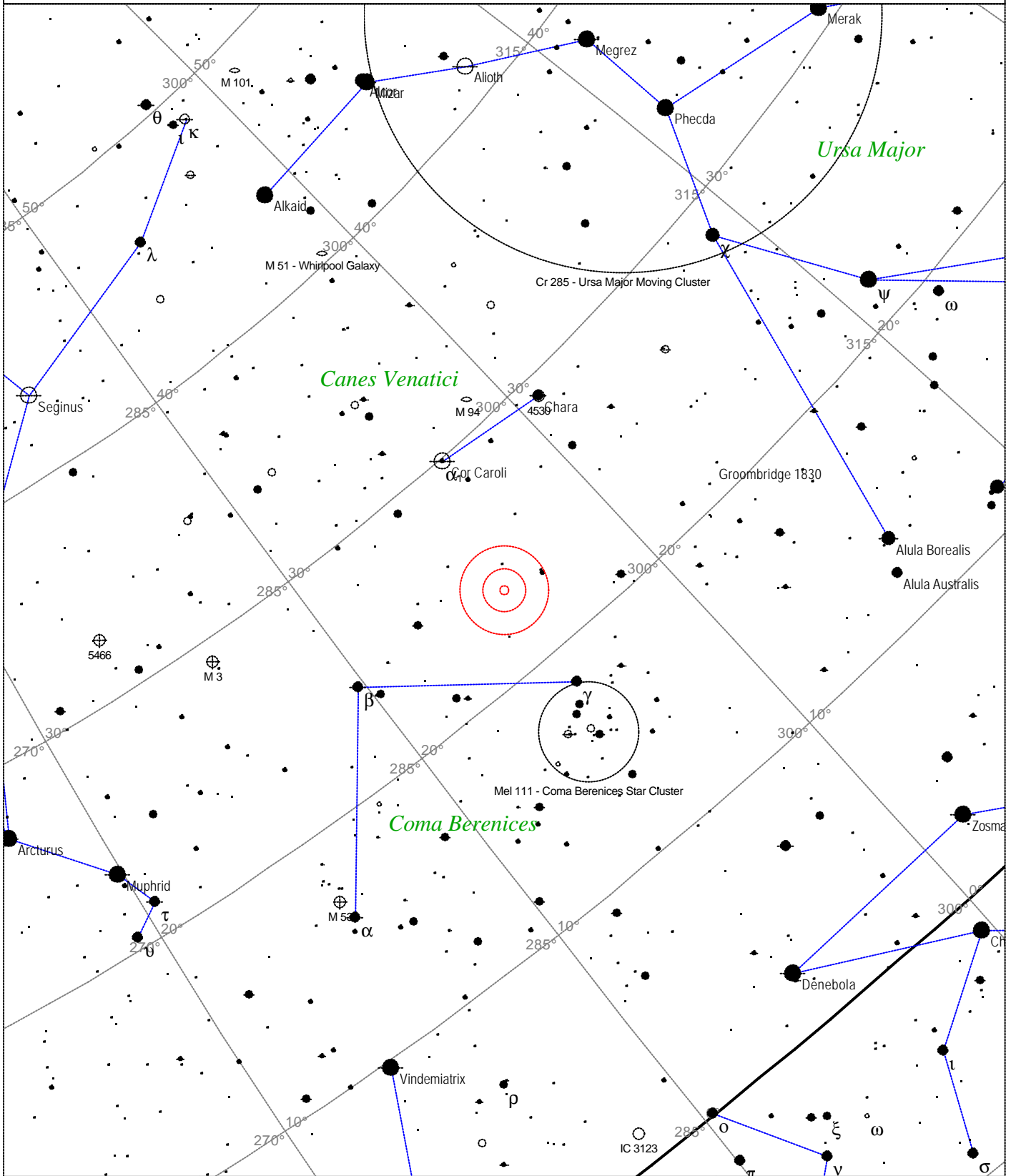


# Caldwell 32 - NGC 4631



<p><b>STARS</b></p> <ul style="list-style-type: none"> <li>● &lt;3</li> <li>● 3.5</li> <li>● 4</li> <li>● 4.5</li> <li>● 5</li> <li>● 5.5</li> </ul>	<p><b>SYMBOLS</b></p> <ul style="list-style-type: none"> <li>● Multiple star</li> <li>○ Variable star</li> <li>☄ Comet</li> <li>☉ Galaxy</li> <li>□ Bright nebula</li> <li>◻ Dark nebula</li> <li>⊕ Globular cluster</li> <li>○ Open cluster</li> <li>♁ Planetary nebula</li> <li>☄ Quasar</li> <li>△ Radio source</li> <li>✕ X-ray source</li> <li>○ Other object</li> </ul>	<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