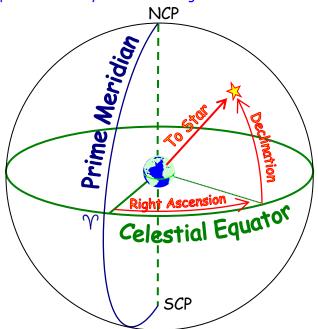
Celestial Coordinates

I. RIGHT ASCENSION AND DECLINATION

A way to locate a point on the sky is to use its right ascension and declination:



DECLINATION (Dec or d): Measures the angle north or south of the celestial equator \pm 0° to 90° Celestial Latitude ... parallels of declination DEGREES, ARCMINUTES, ARCSECONDS: 0° 0' 0" to 90° 0' 0"

RIGHT ASCENSION (RA or a): Measures the angle east of the prime meridian from 0h to 24h Celestial Longitude ... great circles of right ascension HOURS, MINUTES, SECONDS: 0^h 0^m 0^s to 23^h 59^m 59^s

On your celestial globe

\star identify the **celestial equator** and find the **hours of right ascension** markings

*identify the prime meridian and find the degrees of declination markings

¹²Using the RA and Dec markings, identify the stars located at the following coordinates. Use Appendix 2 in the *Peterson Field Guide* to confirm these and find the Bayer designation.

RA	DEC	STAR NAME	CONSTELLATION	BAYER DESIGNATION
6h 45m	- 16° 43'	Sirius	Canis Major	β СМа
18h 37m	+ 38° 47'	Vega	Lyra	a Lyr
5h 15m	- 8° 12'	Rigel	Orion	β Ori
7h 39m	+ 5° 14	Procyon	Canis Minor	αCMi
6h 24m	- 52° 41'	Canopus	Carina	α Car

Look up in Appendix 2 (in order of RA)

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¹⁸On BOTH charts from the Field Guide, use colored pencils to **highlight and label** the

lines of 0^h, 6^h, 12^h and 18^h
circles of 0°, +20°, +50°,
-20°, and -50°.

¹⁰Also highlight and label the stars listed on the flip side of this sheet.

⁴In what constellation is the point 21^h, +20°? (Use the Atlas Chart, look at constellation boundaries!)

Velpecula

(Use your field guide to read the numbers since these are very small!)

