

Astronomy 110 Lab #1

Name: _____

Introduction to the Celestial Sphere

Before doing this lab, you should read the subsections titled "The Celestial Sphere" and "Celestial Coordinates" within section 0.1 of your textbook. You should also have installed the program ClassAction on your computer prior to the lab. We will be using two main animations in ClassAction for this lab. Your instructor will take you through another animation (***Azimuth/Altitude Demonstrator***) at the beginning of lab to get you familiar with *Local Celestial Coordinates*. To access the animations, Open ClassAction; click on *Coordinates and Motions*; Then click the *Animations* tab. Feel free to look around in other tabs/parts under *Coordinates and Motions* as well such as questions, images, outlines, and tables. You will find information that is useful for this lab.

The ClassAction animation titled ***Celestial-Equatorial (RA/Dec) Demonstrator*** will be most useful for answering questions 1 through 11 below. Move the star on the celestial sphere to explore the right ascension and declination of various points on the celestial sphere. You should also turn on (and off) the visibility of all labels.

In the following, as you fill-in the blanks, choices A-J may be used more than once.

Answers for 1-11: A) Eastward (9)

F) pole (2)

B) hours, minutes, seconds

C) equator(1)

H) degrees, arc minutes, arc

seconds(4)

D) 24 (11)

1) Meridian (1)

E) $+90^\circ$

1) -90° (5)

☉ **Ecliptic**

The earth's equator extended out into space intersects the celestial sphere in a circle called the celestial (1) C. The north and south poles of the earth extended out into space intersect the celestial sphere at points we call the north celestial (2) F and the south celestial (3) F.

We further add to our celestial sphere model, sets of circles are drawn on the celestial sphere just like we do on the earth for latitude and longitude. The circles, which are parallel to the celestial equator, like latitude circles on the earth, are called declination circles and they are marked off just as on the earth in units of (4) H from (5) J at the SCP through (6) G at the celestial equator (CE) to (7) E at the NCP.

The lines on the celestial sphere similar to longitude lines on the earth are called lines of right ascension (RA) and they are marked off in units of (8) hours starting with a line called the 0 hour RA line and gradually increasing in the (9) eastward direction. The 0 hour RA line runs through one of the two places where the Celestial Equator (CE) intersects with the (10) celestial equator. Right ascension increases all the way up to the (11) 24 hour RA line, which is equivalent to the 0 hour RA line.

Now, close the *Celestial-Equatorial (RA/Dec) Demonstrator* animation and turn

Answers To The Astronomy Lab Manual 110

Edward Landin



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A Manual of Laboratory Astronomy Harlan True Stetson, 1924 *The Review of Popular Astronomy*, 1922
Technical Reports Awareness Circular : TRAC., 1987-06 *The Publishers Weekly*, 1899 **Scientific and Technical Aerospace Reports**, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database
Publishers' Weekly, 1895 **The Publishers' Trade List Annual**, 1893 Introducing Environmental Learning on Wildlife Refuges Edward Landin, 1972 The American Bookseller, 1887 *Popular Science*, 1936-12 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

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