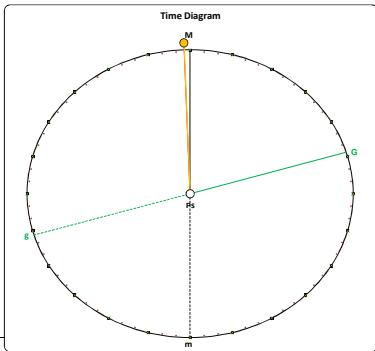


Total GHA  deg.  min.  
 DR Lo  deg.  min.   
 LHA  deg.  min.  
 DR Lat  deg.  min.   
 DEC  deg.  min.   
 Ho  deg.  min.  
 Hc  deg.  min.  
 a  n. mi.   
 Zn  deg. Z

SR via LOC, H.O. 229 & NASR Methods  
 Enter Body, Total GHA, DEC & Ho from the front of  
 ED SR 96a or ED SR 96b Sight Reduction Forms  
 Into Yellow Cells.  
 To Clear Data Cells Click On This Box

Body  Limb   
 Sight Number   
 Time Diagram = 15° Mark (Hour)  
 + 5° Mark (1/3 Hour)  
 Moon, Planet or Star   deg.  
 LHA of Aries  deg.  
 Date & Mean Time @ Greenwich  
   
 Calculated values needed for entry  
 on the ED SR 96a or ED SR 96b  
 Sight Reduction Forms  
 are shown in turquoise cells  
 West is Counterclockwise (CCW)  
 East is Clockwise (CW)  
 O marks South Pole (Ps)  
 M--Ps is Upper Branch of Observer's Meridian  
 m--Ps is Lower Branch of Observer's Meridian  
 G--Ps is the Upper Branch of Greenwich Meridian  
 g--Ps is the Lower Branch of Greenwich Meridian  
 On the Time Diagram the Sun  
 is Positioned by GHA  
 The Time Diagram shows the  
 Apparent Sun



Steps for Nautical Almanac Sight Reduction  
 Intercept & Azimuth by NASR method  
 DR Lat  deg.  min.   
 DR Lo  deg.  min.   
 Total GHA  deg.  min.  
 Asm Lo  deg.  min.   
 Asm Lat  deg.  Asm LHA  deg.  
 A  deg.  min. Z<sub>i</sub>  deg.  
 B  deg.  min.  
 DEC  deg.  min.   
 F  deg.  min.  
 A\*  deg. F\*  deg.

Use SR 96 worksheet to check data on the front  
 of ED SR96a & ED SR 96b Sight Reduction Forms

LHA  deg.  
 DR Lat  deg.  
 DEC  deg.  
 Hc  deg.

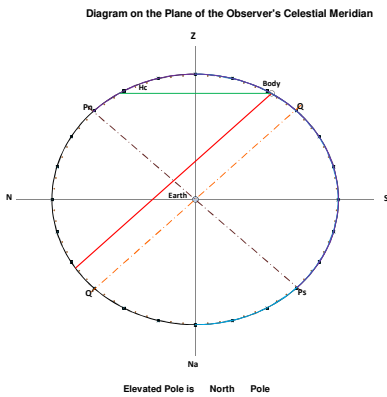
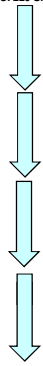
Sight Reduction -- Intercept and Azimuth  
 by the LAW of COSINES METHOD  
 EP Lat  deg.  min.   
 EP Lo  deg.  min.

Data for the body  shown in the  
 lavender cells in this box was calculated by the "Nav Bodies" worksheet.  
 The value of Hc shown in cells C14 & E14 should agree with the value of Hc shown here  
 within ±0.3 arc minutes. Hc  deg.  min.

Data for checking back of USPS ED SR 96a Form  
 & CLS 96 Plotting Sheet

H  deg.  min. P  deg. Z<sub>i</sub>  deg.  
 Corr 1  min. ← { F  P\*  }  
 Corr 2  min. ← { A\*  Z<sub>i</sub>\*  }  
 Hc  deg.  min.  
 Ho  deg.  min. Z     
 AP to NASR LOP distance  n. mi.  Zn  deg.  
 Intercept • LOP Crossing Lat  deg.  min.   
 Intercept • LOP Crossing Lo  deg.  min.   
 DR to NASR LOP Distance  n. mi.  Zn  deg.  
 DR\_EP Lat  deg.  min.   
 DR\_EP Lo  deg.  min.  Ψ  min.  
 Click on this box to solve for DR\_EP Lat & DR\_EP Lo

Scroll Down to Rows 61 through 94 for data  
 needed to check back of USPS ED SR96b Form  
 "H.O. PUB NO. 229 Sight Reduction"



Observer's Latitude  deg.  min.   
 Observer's Meridian  deg.  min.   
 GHA of Sun  deg.  min.  
 SUN Zn  deg.  
 LHA of Body  deg.  min.  
 DEC of Body  deg.  min.   
 Hc of Body  deg.  min.  
 Celestial Horizon N ——— S  
 Celestial Equator G ——— G'  
 Polar Axis Pn ——— Ps  
 Declination of Body ——— Hc  
 West is in Front & East is Behind the Plane of the Observer's Meridian  
 Prime Vertical Circle Z ——— Na  
 Hour Circle of a Body West of Observer ———  
 Hour Circle of a Body East of Observer ———  
 Vertical Circle of a Body West of Observer ———  
 Vertical Circle of a Body East of Observer ———  
 Observer's Celestial Meridian ■ 15° Mark + 5° Mark

