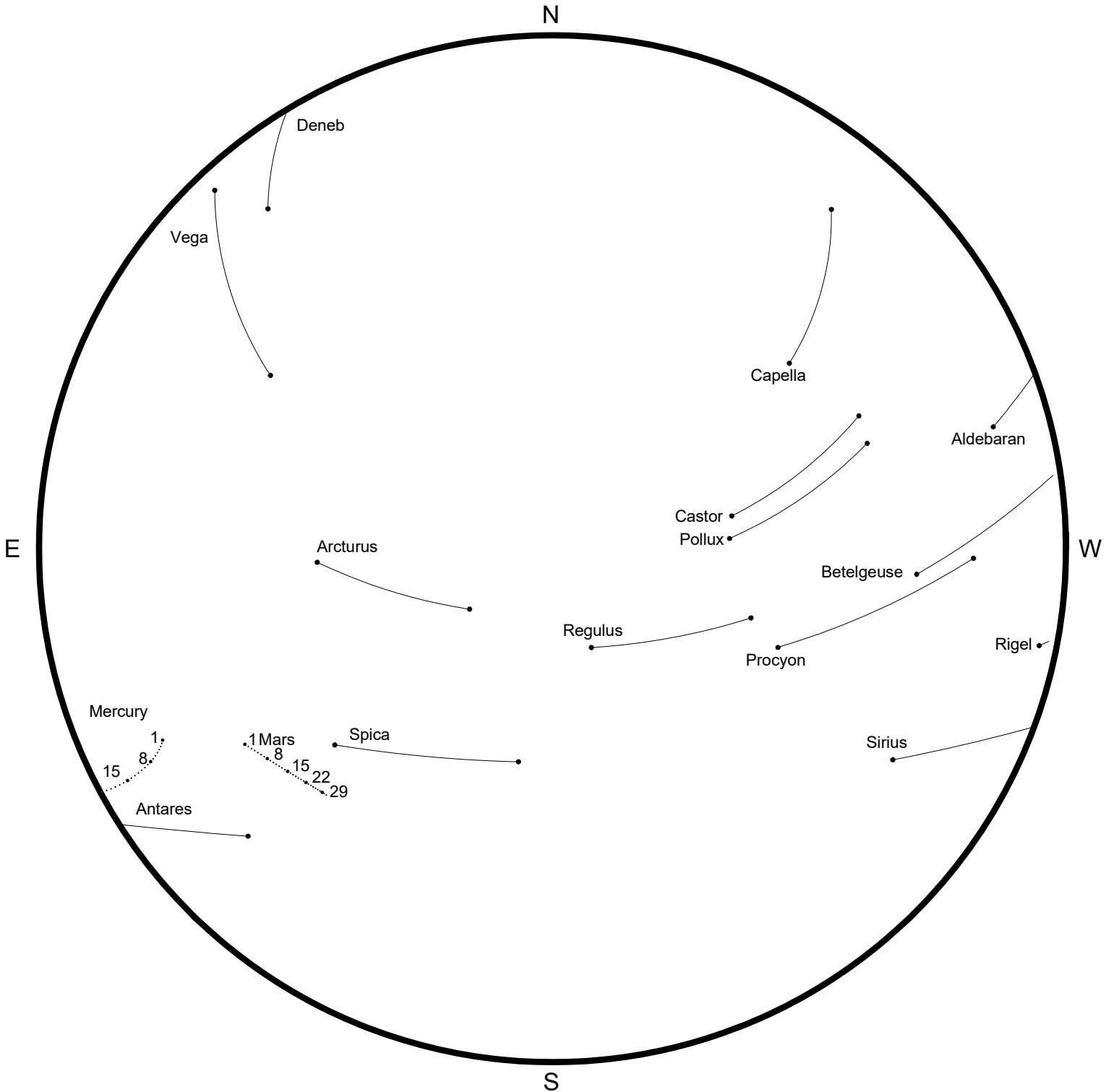


# Planets and Bright Stars in Morning Mid-Twilight For December, 2019

This sky chart is drawn for latitude 34 degrees north,  
but may be used in southern U.S. and northern Mexico.



Morning mid-twilight occurs  
when Sun is 9° below horizon.  
Dec. 1: 43 minutes before sunrise.  
15: 43 " " "  
31: 44 " " "

Stereographic Projection  
Map by Robert D. Miller