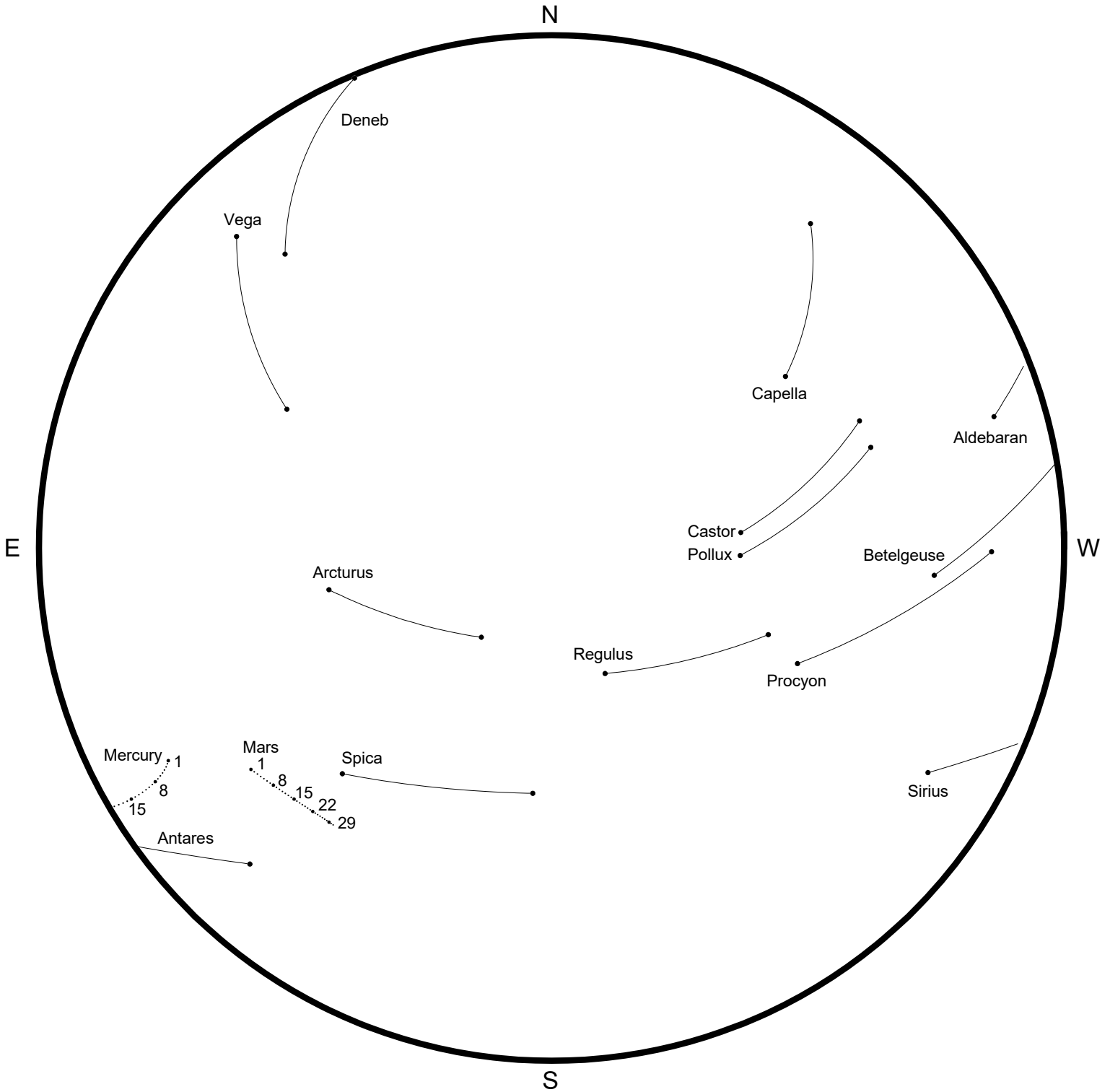


Planets and Bright Stars in Morning Mid-Twilight For December, 2019

This sky chart is drawn for latitude 40 degrees north,
but may be used in continental U.S. and southern Canada.



Morning mid-twilight occurs
when Sun is 9° below horizon.
Dec. 1: 47 minutes before sunrise.
15: 48 " " "
31: 47 " " "

Stereographic Projection
Map by Robert D. Miller