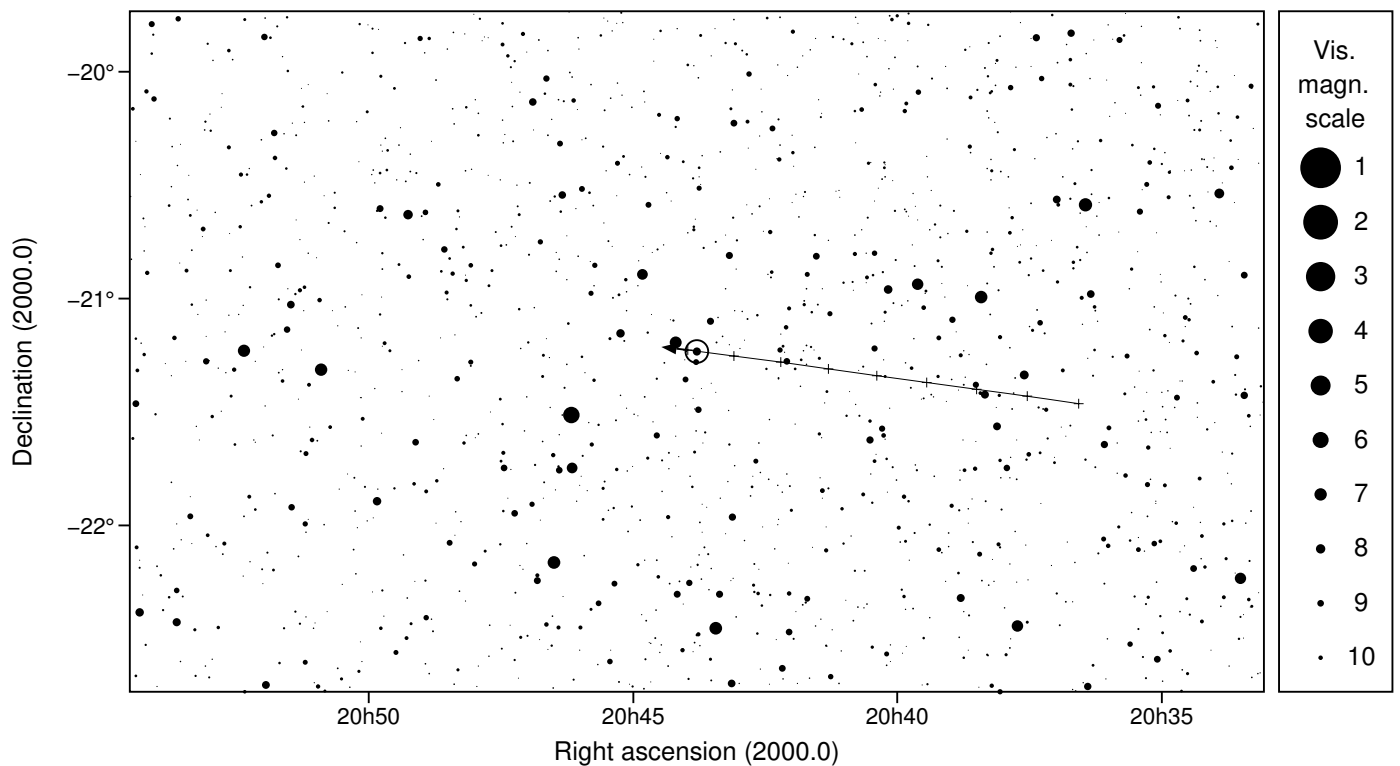
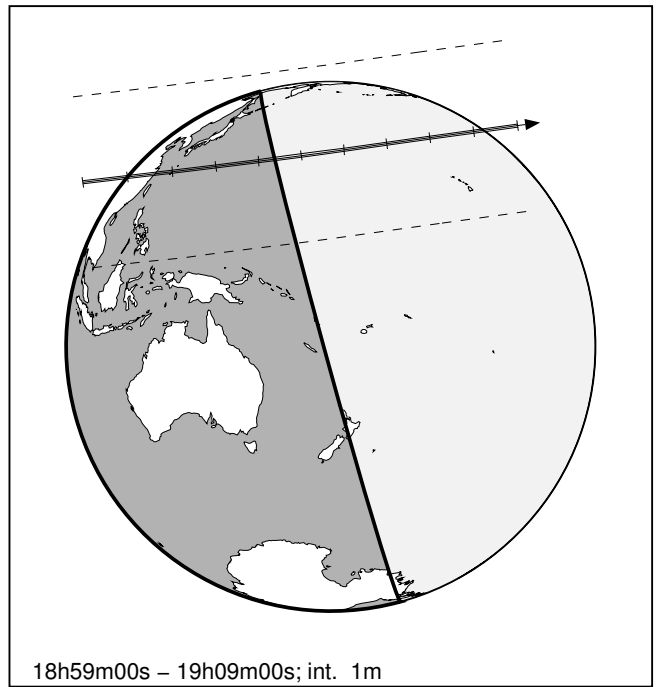
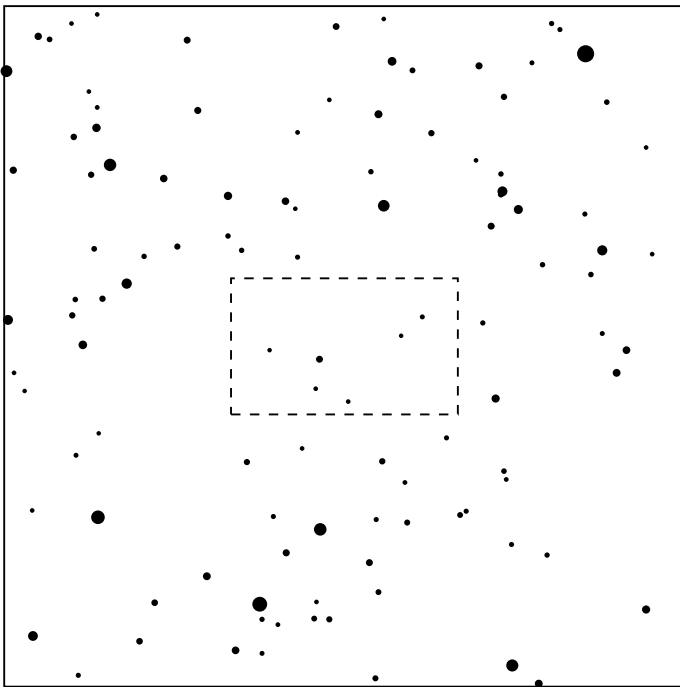


# 447 Valentine & HIP 102310

2022 apr 26 19<sup>h</sup> 4.1<sup>m</sup> U.T.

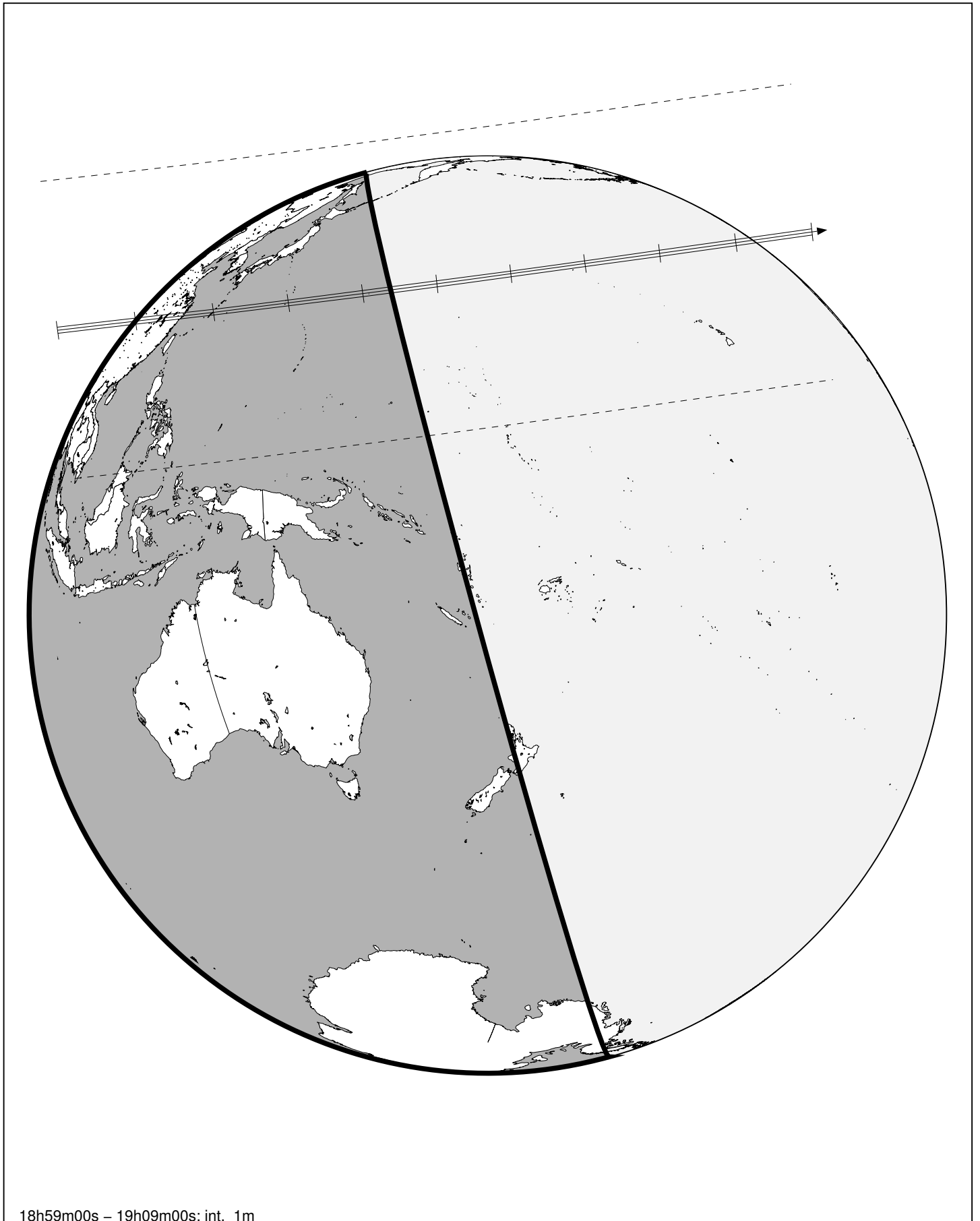
**Planet:** a = 2.99, e = 0.04  
 V. mag. = 14.66 Diam. = 82.0 km = 0.04"  
 $\mu$  = 30.68"/h  $\pi$  = 3.07" Ref. = EG2020  
 $\Delta m$  = 6.2 Max. dur. = 4.6s

**Star:** Source cat. GDR2a  
 $\alpha$  = 20<sup>h</sup>43<sup>m</sup>47.731<sup>s</sup>  $\delta$  = -21°14'00.37"  
 Vmag = 8.42 Bmag = 8.59  
 Sun : 88° Moon : 40° , 17%



# 447 Valentine & HIP 102310

2022 apr 26 19<sup>h</sup> 4.1<sup>m</sup> U.T.



18h59m00s – 19h09m00s; int. 1m