

# 20 Massalia & PPMX 5990440

2017 dec 19 13<sup>h</sup>43.9<sup>m</sup> U.T.

**Planet:**  $a = 2.41, e = 0.14$   
 V. mag. = 8.37    Diam. = 151.0 km = 0.19"  
 $\mu = 37.38''/h$      $\pi = 8.04''$     Ref. = EG2015

**Star:**    Source cat. PPMX  
 $\alpha = 5^h39^m16.527^s$      $\delta = +22^\circ11'10.36''$   
 Vmag = 12.34    mag =

$\Delta m = 0.0$     Max. dur. = 18.3s    Sun : 177°    Moon : 163°, 2%

