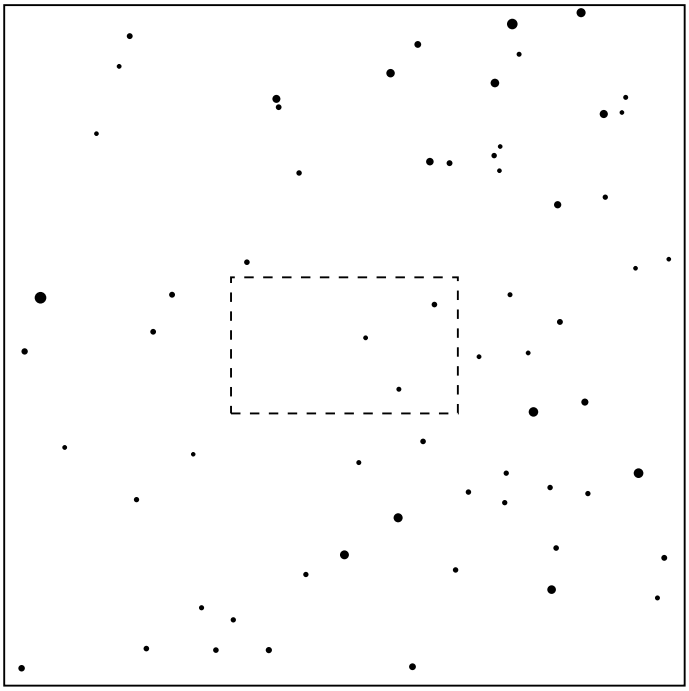
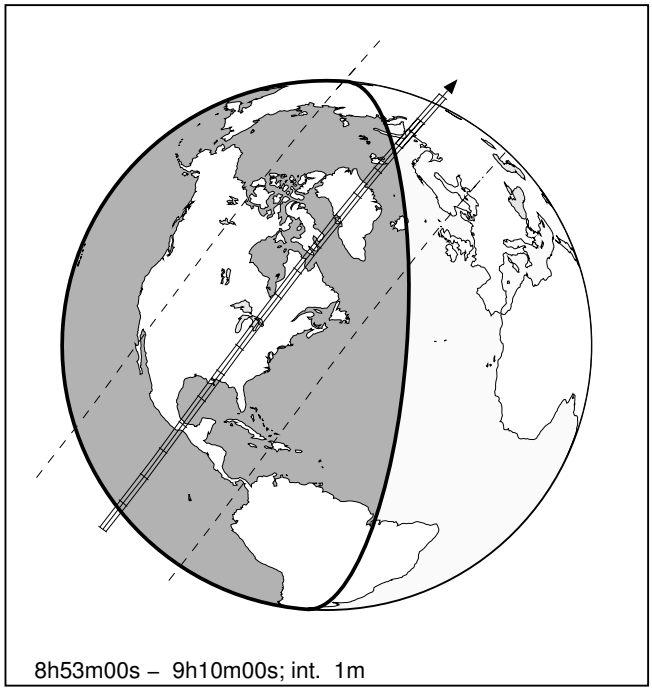
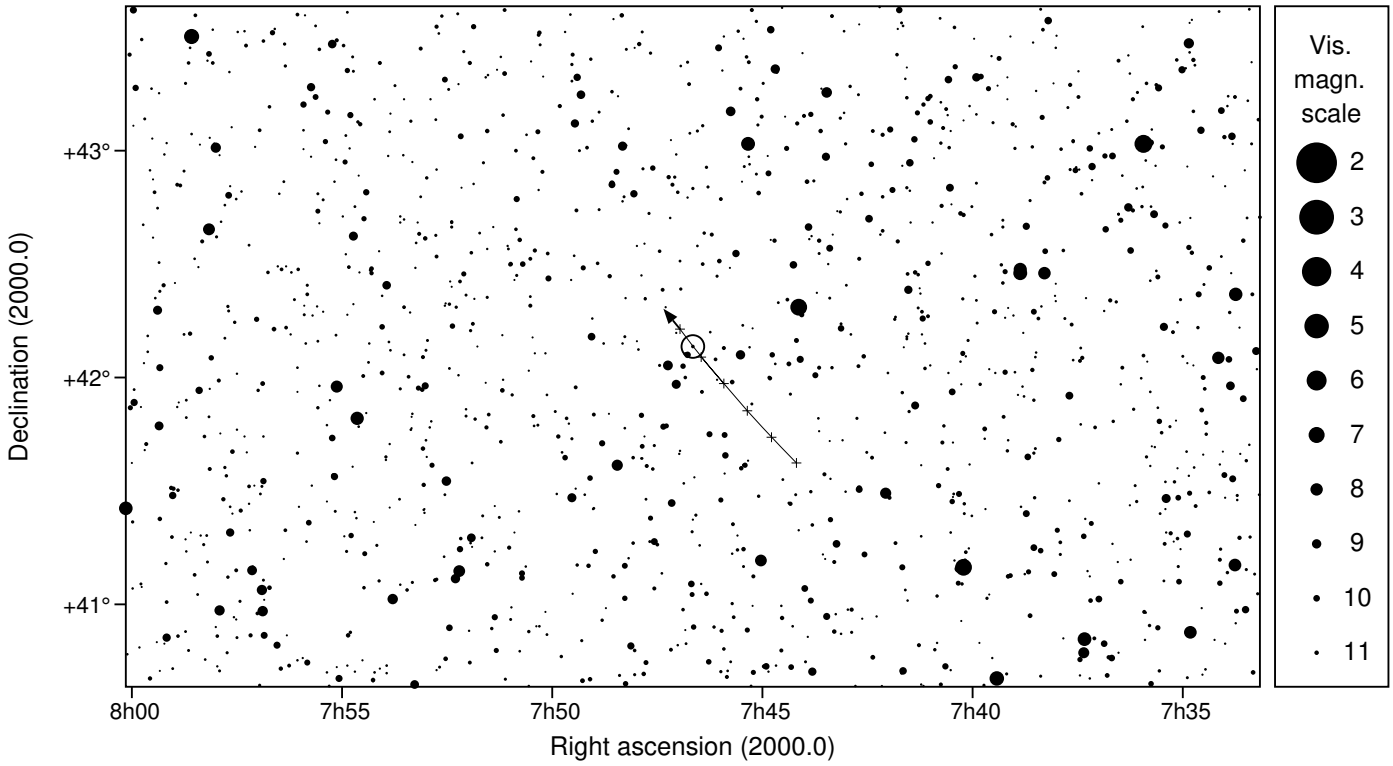
154 Bertha & TYC 2967–01009–1

2018 nov 2 $9^h\ 1.7^m$ U.T.

Planet:	a = 3.18, e = 0.09	**Star:**	Source cat. TGAS
V. mag. = 13.26	Diam. = 192.0 km = 0.09"	$\alpha = 7^h46^m39.466^s$	δ = +42°08'10.61"
μ = 23.04"/h	π = 3.15" Ref. = EG2016	Vmag = 11.46	Bmag = 12.95
Δm = 2.0	Max. dur. = 14.8s	Sun : 107°	Moon : 44° , 31%

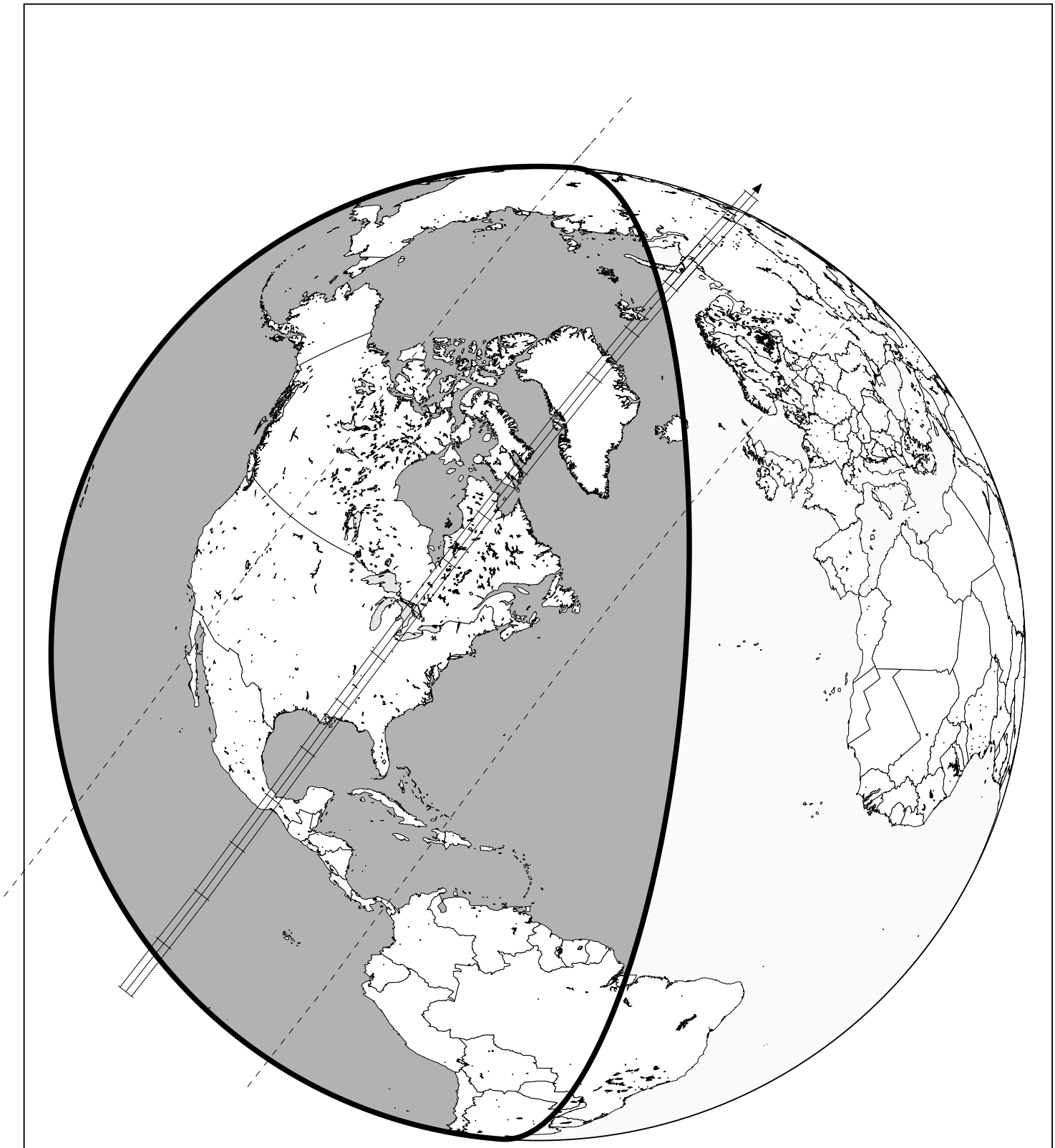






154 Bertha & TYC 2967−01009−1

2018 nov 2 9^h 1.7^m U.T.



8h53m00s − 9h10m00s; int. 1m