



Trajectory

Launch Details		
Launch date	August 3, 2042	
C ₃	39.1 km²/s²	
Launch window flexibility	±10 days; up to +3 C ₃	
Mission duration	Cruise: 14.7 years Science: 3 years	
Cruise trajectory	Earth-Venus-Venus-Earth- Jupiter-Neptune	
Neptune Orbital Insertion Delta-V	2,018 m/s	



Tour Details		
Science flybys	22	
Max. velocity of Triton flybys	~4.6 km/s	
Initial Time between Triton flybys	6 - 23 weeks	
Time between flybys after all DSMs	2 - 6 weeks	
Spacecraft end of life	Neptune entry disposal	
Total DV	2,795 m/s	
Tour DV	199 m/s	
Disposal DV	100 m/s	
Mission deterministic DV	2,475 m/s	
Mission statistical DV	220 m/s (140+30+50)	



Pre-Decisional Information - For Planning and Discussion Purposes Only