

IMAP Transfer Trajectory Initial State



- The initial launch vehicle release state provided in the table below is representative of IMAP launch vehicle release point for L1 transfer
- This is a single reference state intended to only be used to facilitate common comparative design of IMAP ride-share proposals
- IMAP is the primary payload; the launch date and transfer conditions will be designed and adjusted to meet the needs of the IMAP mission
 - IMAP will be released prior to secondary payloads
 - Launch period dates will change depending on final IMAP schedule
- IMAP L1 transfer state will vary due to launch date changes and the selected launch vehicle
 - Dependent on launch date, the transfer trajectory insertion (TTI) will occur either after the ascending node (in order to enter a class I L1 orbit) or after the descending node (to enter a class II L1 orbit)
 - The state below is for a transfer that will enter a class I orbit at L1

Post Launch Vehicle Transfer Trajectory Insertion (TTI)

- State representative of a nominal IMAP release at the beginning of the current planned launch period
- Transfers to class I orbit at L1 (Actual release launch date dependent)

Date (mm/dd/yyyy)	10/1/2024
UTC (hh:mm:ss)	12:42:17
C3 (km ² /s ²)	-0.665
Cartesian state (km, km/s, EME2000)	[6104.326, 2403.702, 66.367, -3.254397, 8.119686, 6.657585]