

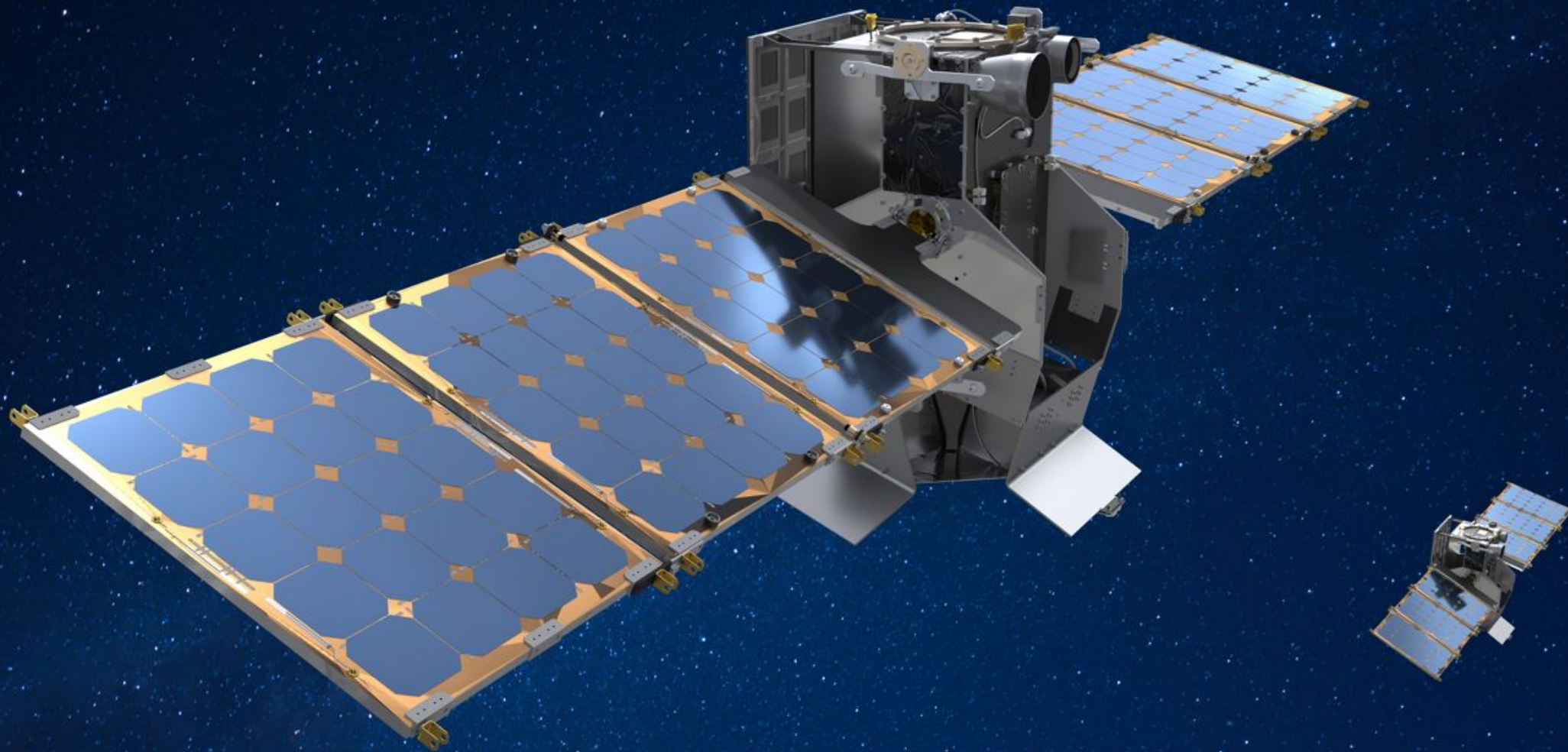
Janus: Launch of a NASA SmallSat Mission to Near-Earth Binary Asteroids

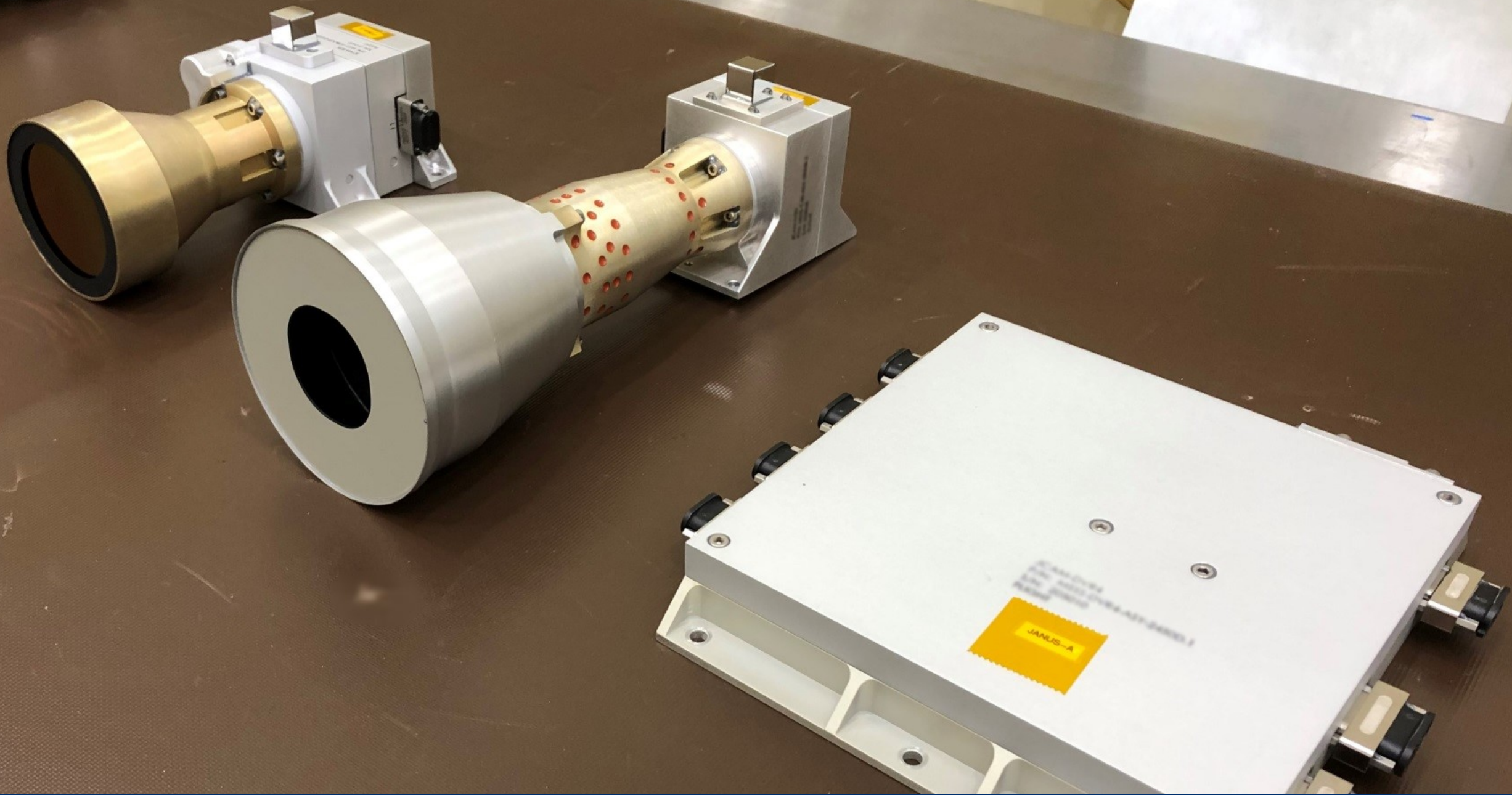
AIAA/USU Small Satellite Conference, August 2022

Joseph Shoer, Joshua B. Hopkins, Edward B. Bierhaus, Daniel Brack, Thomas C. McCaa, Kristian Waldorff, Michael Skeen, Susan Linch, Michael Stevens, Estelle Church, Joshua Wood, Jay McMahon and Daniel Scheeres

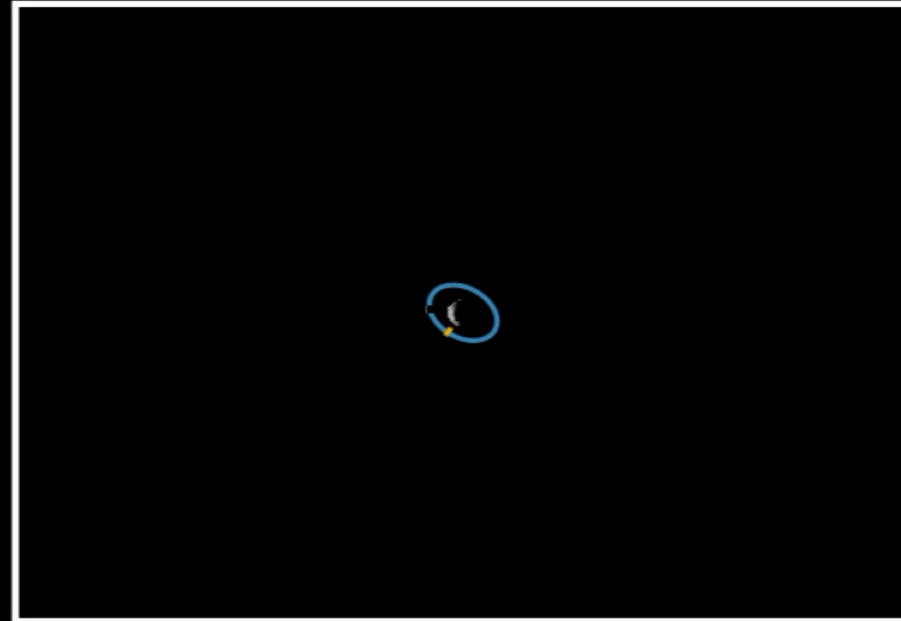


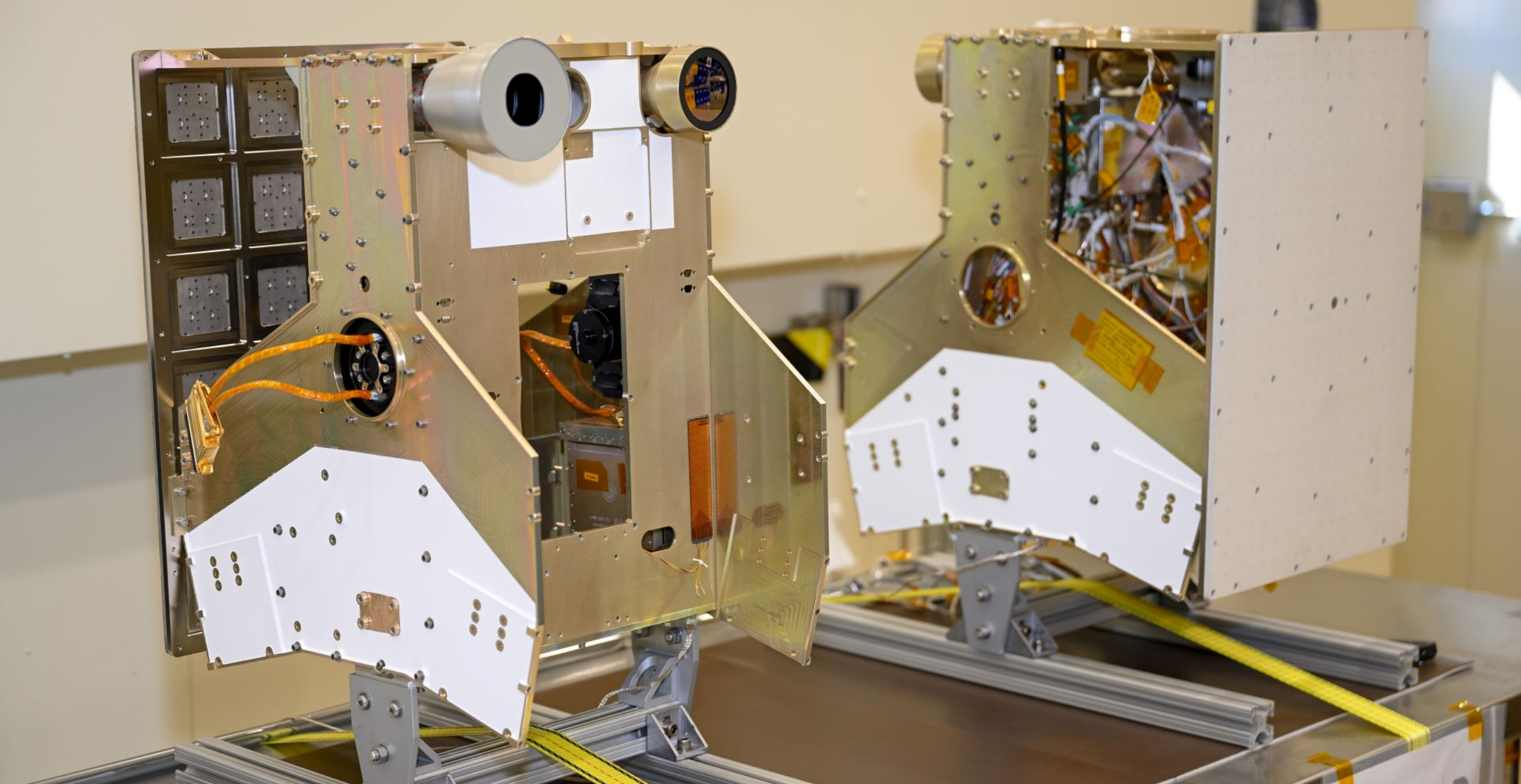




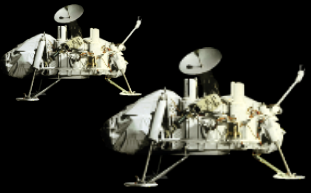


2026-03-22 22:47:29
CA -200.0 seconds
Range to primary: 1097.0 km
Range to secondary: 1098.1 km
Phase angle: 113.2 deg

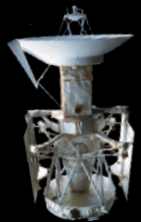




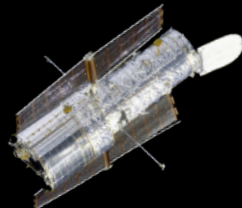




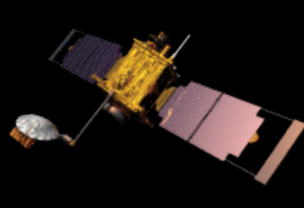
Viking 1 & 2
1976



Magellan
1989



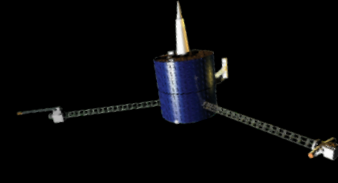
Hubble
1989



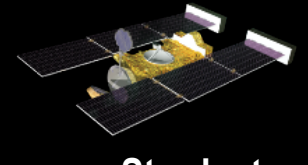
Mars Global Surveyor
1996



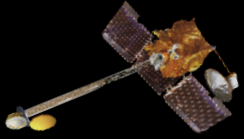
Cassini Propulsion
1997



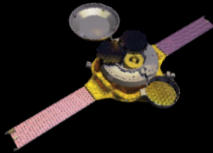
Lunar Prospector
1998



Stardust
1999



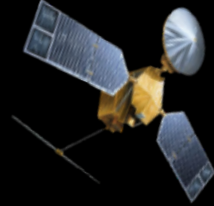
Mars Odyssey
2001



Genesis
2001



Spitzer
2003



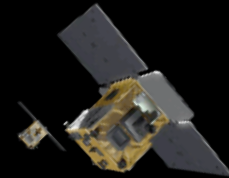
Mars Reconnaissance Orbiter
2005



Phoenix
2007



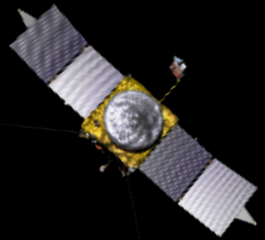
Juno
2011



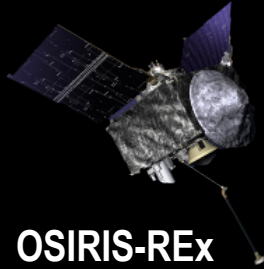
GRAIL A & B
2011



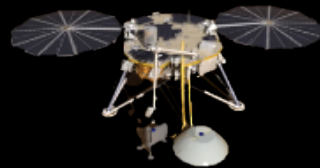
MSL Aeroshell
2011



MAVEN
2013



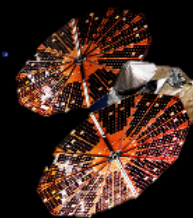
OSIRIS-REx
2016



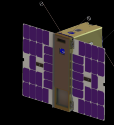
InSight
2018



Perseverance Aeroshell
2020



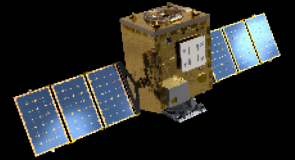
Lucy
2021



LunIR
2022



Janus A&B
2022



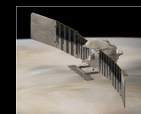
Lunar Trailblazer
2023



Dragonfly Aeroshell
2027



DAVINCI
2028



VERITAS
2028



Mars Sample Return Elements
2028





