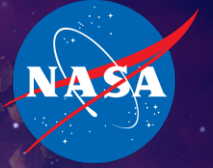


National Aeronautics and
Space Administration



EXPLORE SOLAR SYSTEM & BEYOND

SMALL SATELLITE MISSIONS FOR PLANETARY SCIENCE

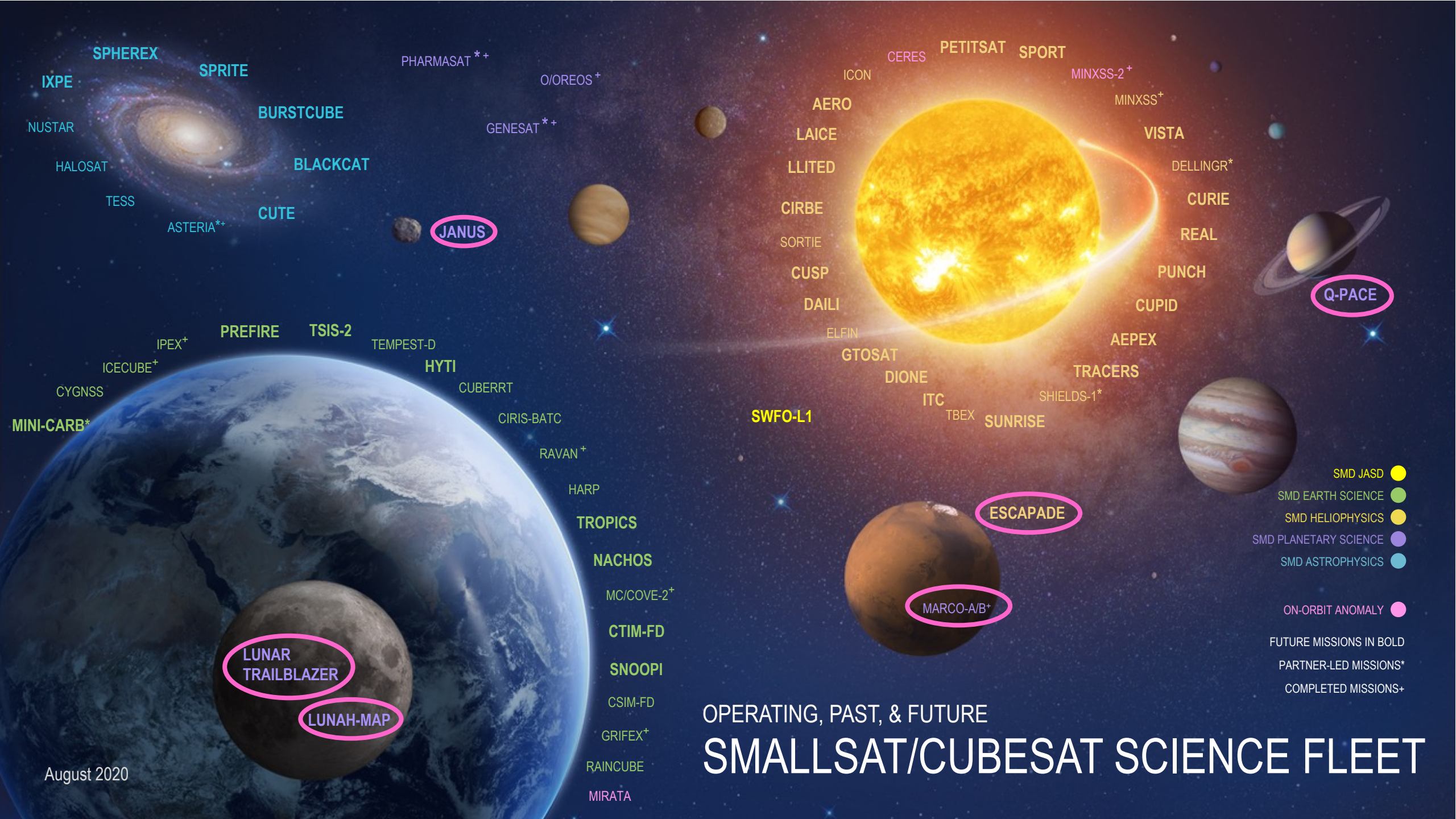
Carolyn R. Mercer, Ph.D.

Program Executive, Small Innovative Missions for Planetary Exploration (SIMPLEx)

34th Annual Small Satellite Conference

August 3, 2020

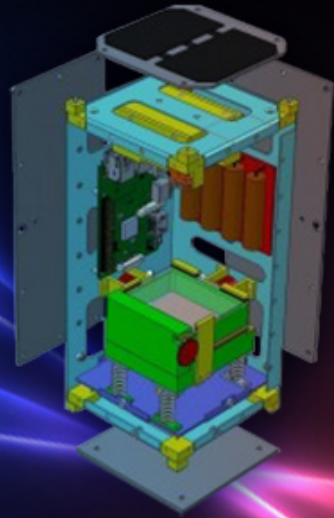
NASA Virtual Town Hall



August 2020

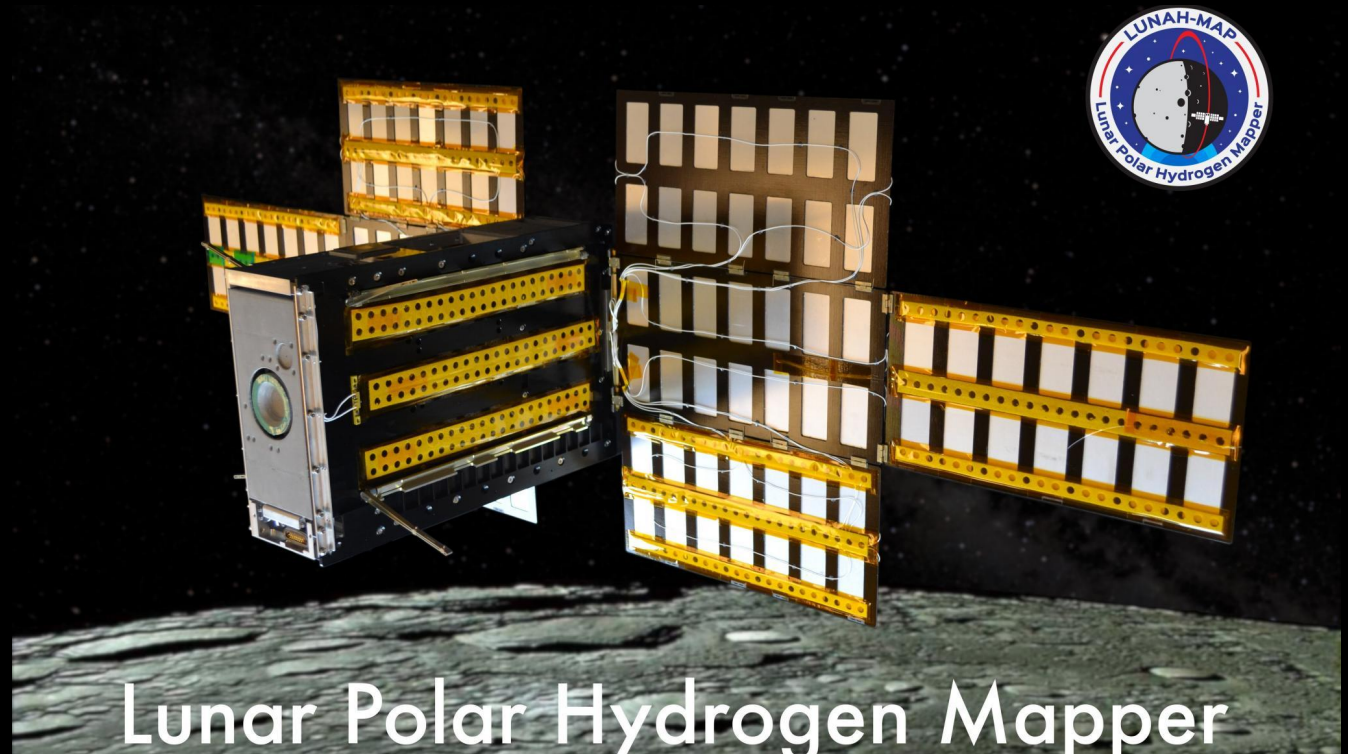
Small Innovative Missions for Planetary Exploration (SIMPLEx-1)

Q-PACE

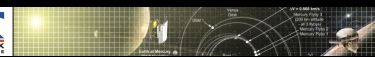


CubeSat Particle Aggregation
and Collision Experiment

University of Central Florida,
University of Arkansas,
Technical University of Braunschweig



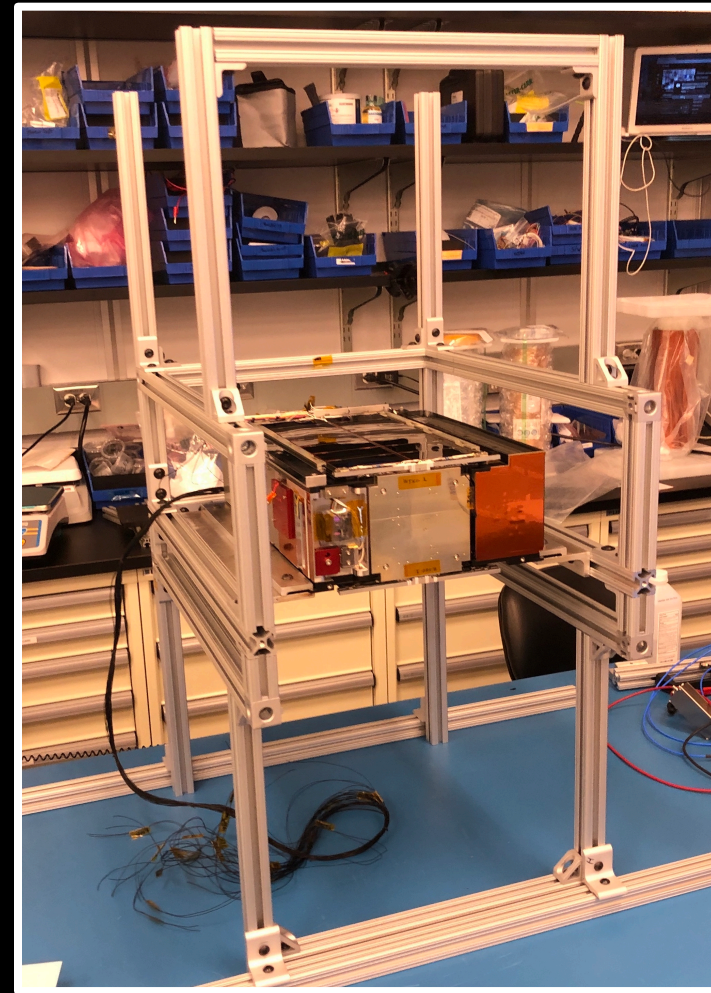
Lunar Polar Hydrogen Mapper



Small Innovative Missions for Planetary Exploration (SIMPLEx-1)

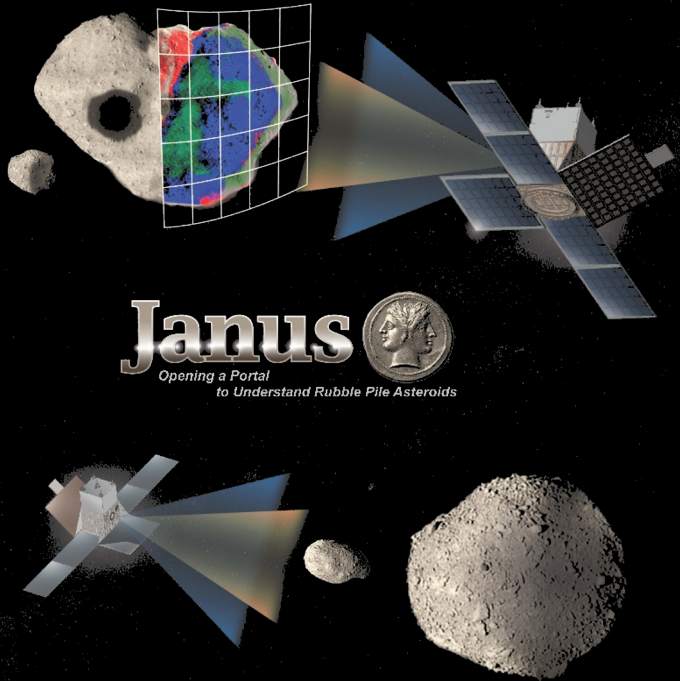


Q-PACE Launch on Virgin Orbit LauncherOne
No Earlier Than September 29, 2020

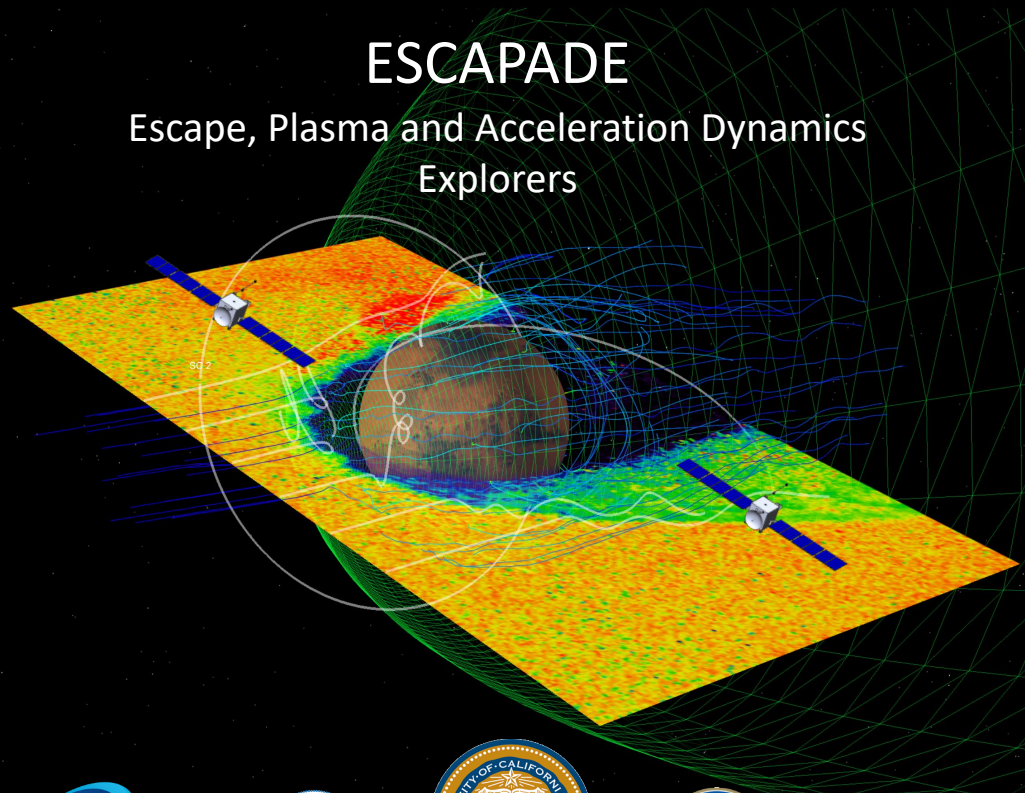


LunaH-Map Launch on Artemis-1
Delivery Required November 2020
Launch No Later Than November 2021

Small Innovative Missions for Planetary Exploration (SIMPLEx-2)



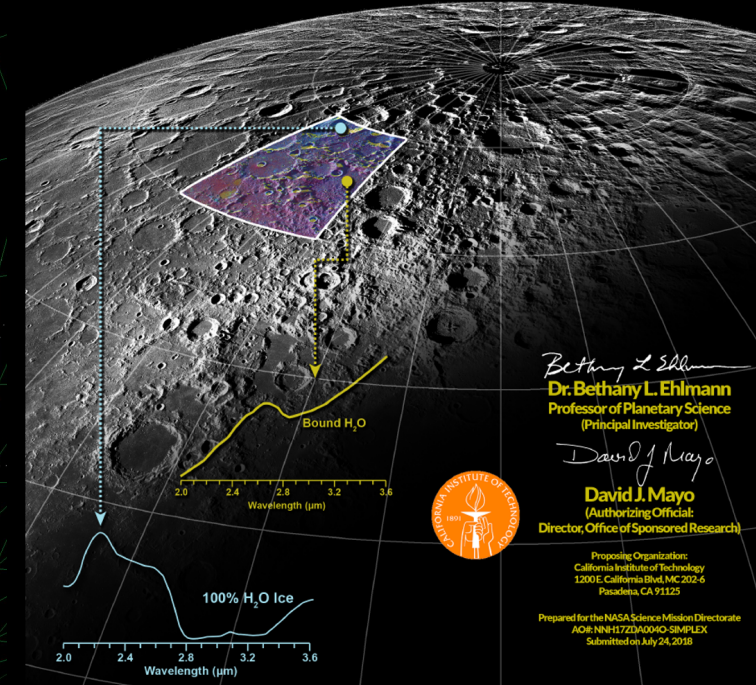
Janus supported by the
Planetary Science Division
PDR Held July 2020



ESCAPADE supported by the
Heliophysics Division
PDR August 2020

LUNAR TRAILBLAZER

A pioneering small satellite that investigates lunar water and lunar geology



Bethany L. Ehlmann
Dr. Bethany L. Ehlmann
Professor of Planetary Science
(Principal Investigator)

David J. Mayo
David J. Mayo
(Authorizing Official:
Director, Office of Sponsored Research)

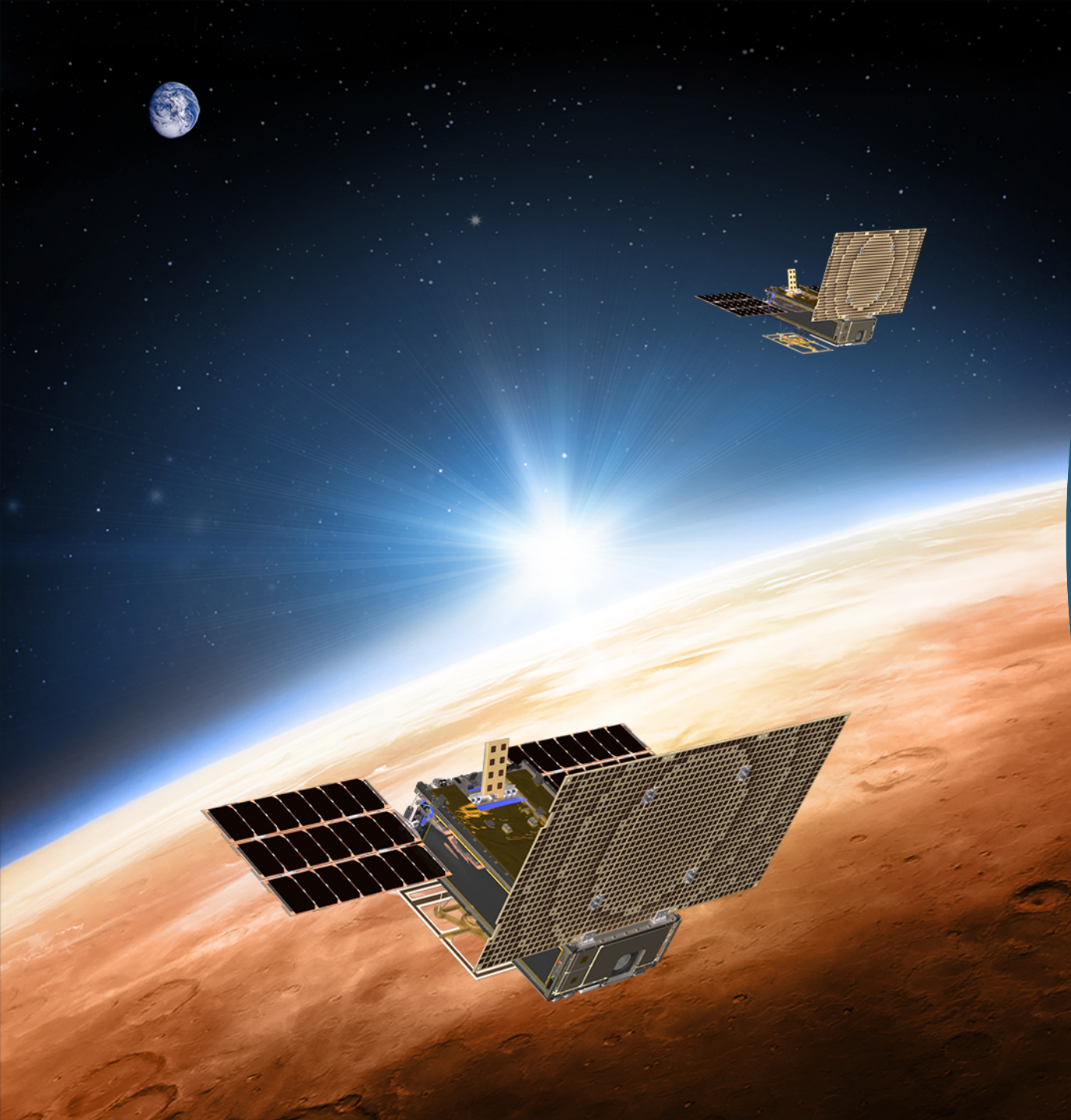
Proposing Organization:
California Institute of Technology
1200E California Blvd, MC 202-6
Pasadena, CA 91125

Prepared for the NASA Science Mission Directorate
ACR-NNH17Z00040-SB-FLEX
Submitted on July 24, 2018

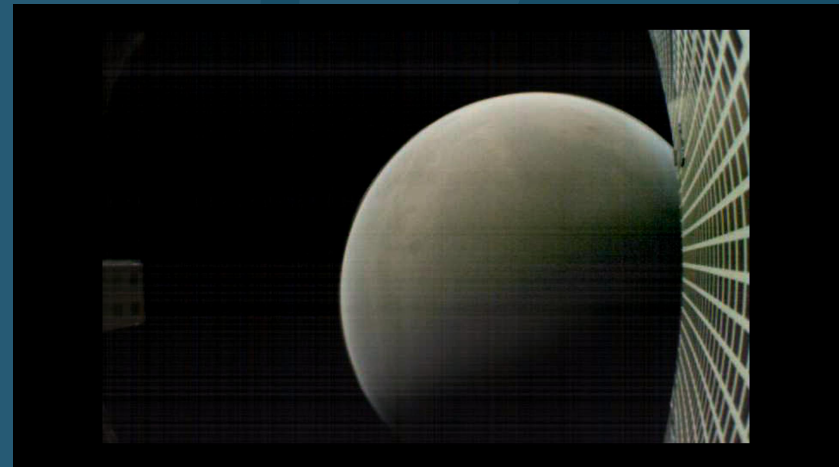
LOCKHEED MARTIN JPL APL UNIVERSITY OF ARIZONA NORTHERN ARIZONA UNIVERSITY BROWN PASADENA CITY COLLEGE UK SPACE

Science Team: PI - B. Ehlmann (Caltech) | DPI - R. Klima (APL) | Co-Is - N. Bowles (U. Oxford), J. Dickson (Caltech), C. Edwards (NAU), K. Donaldson-Hanna (U. Oxford), R. Green (JPL), M. House (PCC), C. Pieters (Brown U.), D. Thompson (JPL), D. Blaney (JPL)

Lunar Trailblazer supported by the
Exploration Science Strategy and Integration Office
PDR October 2020



MarCO Mars Cube One



Nov. 26, 2018 - MarCO image of Mars from about 4,700 miles away during its flyby



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