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**Ongoing and Upcoming Mission Highlights**

Key International and Policy Developments  
Near-Earth Object (NEO) Discovery  
NEO Characterization  
Deflection / Disruption Modeling & Testing  
Space Mission & Campaign Design  
Impact Effects & Consequences  
Disaster Management & Impact Response  
Public Education and Communication  
The Decision to Act: Political, Legal, Social, and Economic Aspects

**DART MISSION SPACE AND GROUND BASED ARCHIVED DATA PRODUCTS**

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**ABSTRACT**

On Sept 26, 2022 the DART spacecraft impacted with Dimorphos, the secondary asteroid in the Didymos binary asteroid system. Data products generated from cameras mounted on-board the DART and LICIACube spacecraft as well as from ground observatories were used to characterize the impact site and to determine the effectiveness of using a kinetic impactor for planetary defense. NASA's Planetary Data System (PDS) is used as the long-term archive for storing the data products. The data products to be archived include image products generated from the Didymos Reconnaissance and Asteroid Camera for Opnav (DRACO), hosted on the

DART spacecraft; products from the LICIACube Explorer Imaging for Asteroid (LEIA) and LICIACube Unit Key Explorer (LUKE) instruments hosted on the LICIACube spacecraft; and products generated by the Lowell, Magdalena Ridge, Las Cumbres, and Las Campanas ground observatories. Ancillary information in the form of Spacecraft, Planetary, Instrument, C-kernel, and Ephemeris (SPICE) kernels and radio science products will also be archived. Finally, shape models and derived data products created from the shape models will be part of the long-term archive.

Due to the short duration of the mission and the amount of data sources involved, standardization of the archive and data formats is implemented wherever possible. In addition, iteration with the PDS prior to formal data archive reviews was done to reduce the number of corrections needed prior to archive submission. Concurrently, emphasis on long-term usability by the worldwide planetary science community is the guideline driving organization and documentation of the archives. An overview of the product archives will be presented to highlight the data that will be available to the general scientific community along with their expected dates of availability. All of the archival data should be available online from the PDS by late July 2023.

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