



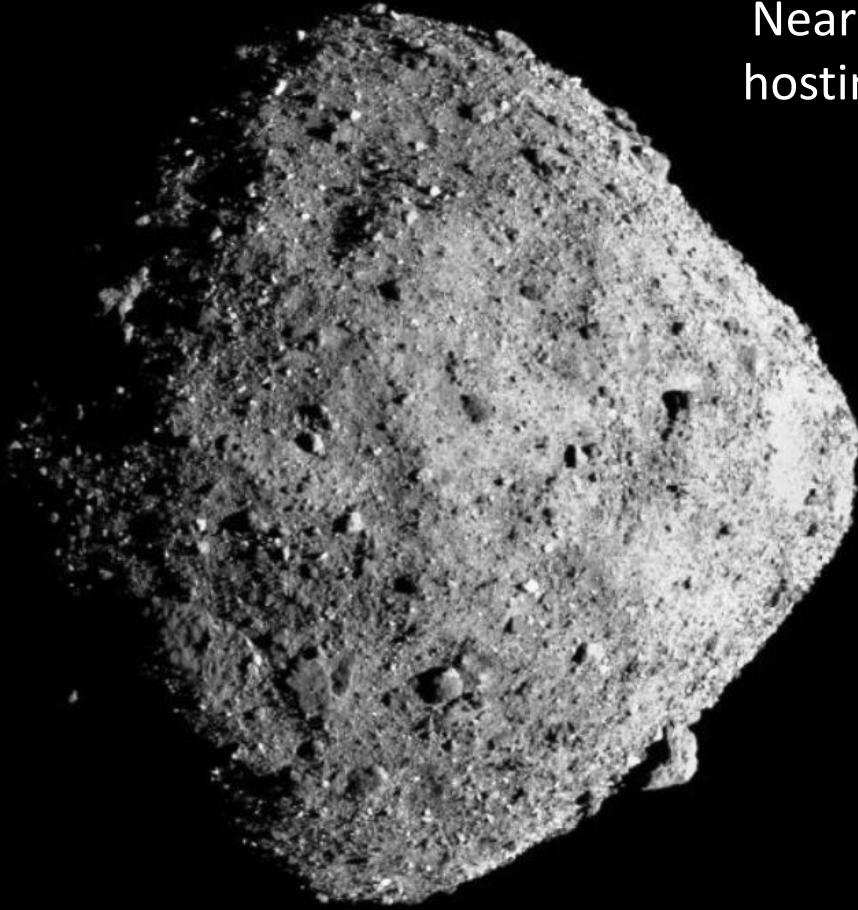
OSIRIS-REx

OSIRIS-REx = Origins,
Spectral Interpretation,
Resource Identification,
Security-Regolith Explorer



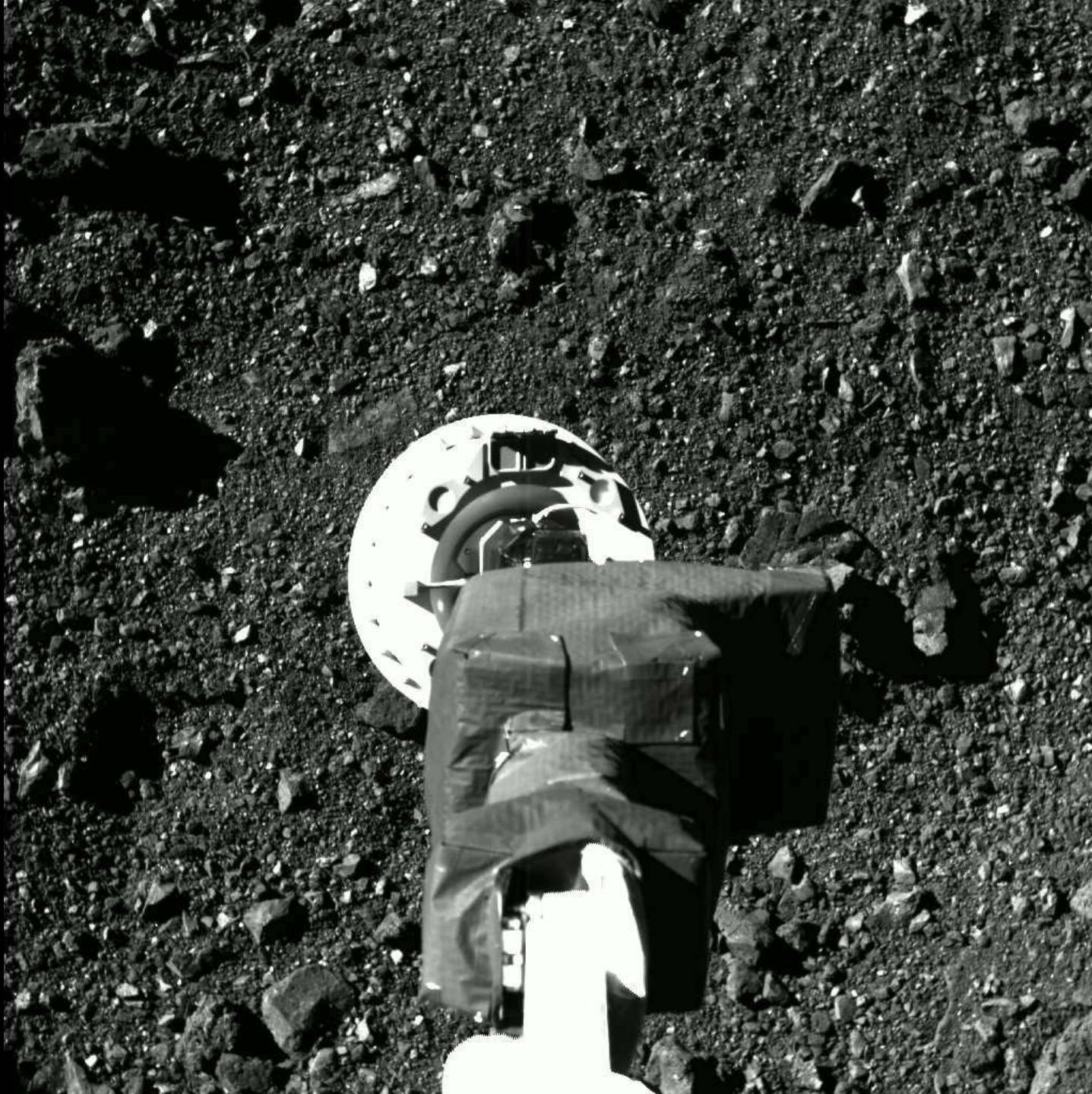
Asteroid Bennu

Near Earth asteroid selected based on its size and likelihood of hosting organic compounds that could be the building blocks of life for our Solar System





Launched on United Launch
Alliance Atlas V on September 8,
2016



Touch-and-go (TAG) sample collection:
October 20, 2020

Touch-and-go sample acquisition
mechanism (TAGSAM) head sunk into the
surface 48.8 cm and was then overflowing
with sample

Landing, Recovery, Environmental
Sampling for Contamination
Knowledge:
September 24, 2023





Initial Disassembly of Sample Return Capsule and
Connection of Nitrogen Flow to Sample Canister in
Temporary Cleanroom in Utah on Landing Day:
September 24, 2023





Transport on Nitrogen Flow from
Utah to Johnson Space Center in
Houston and Sample Canister
Placed in Nitrogen Glovebox:
September 25, 2023

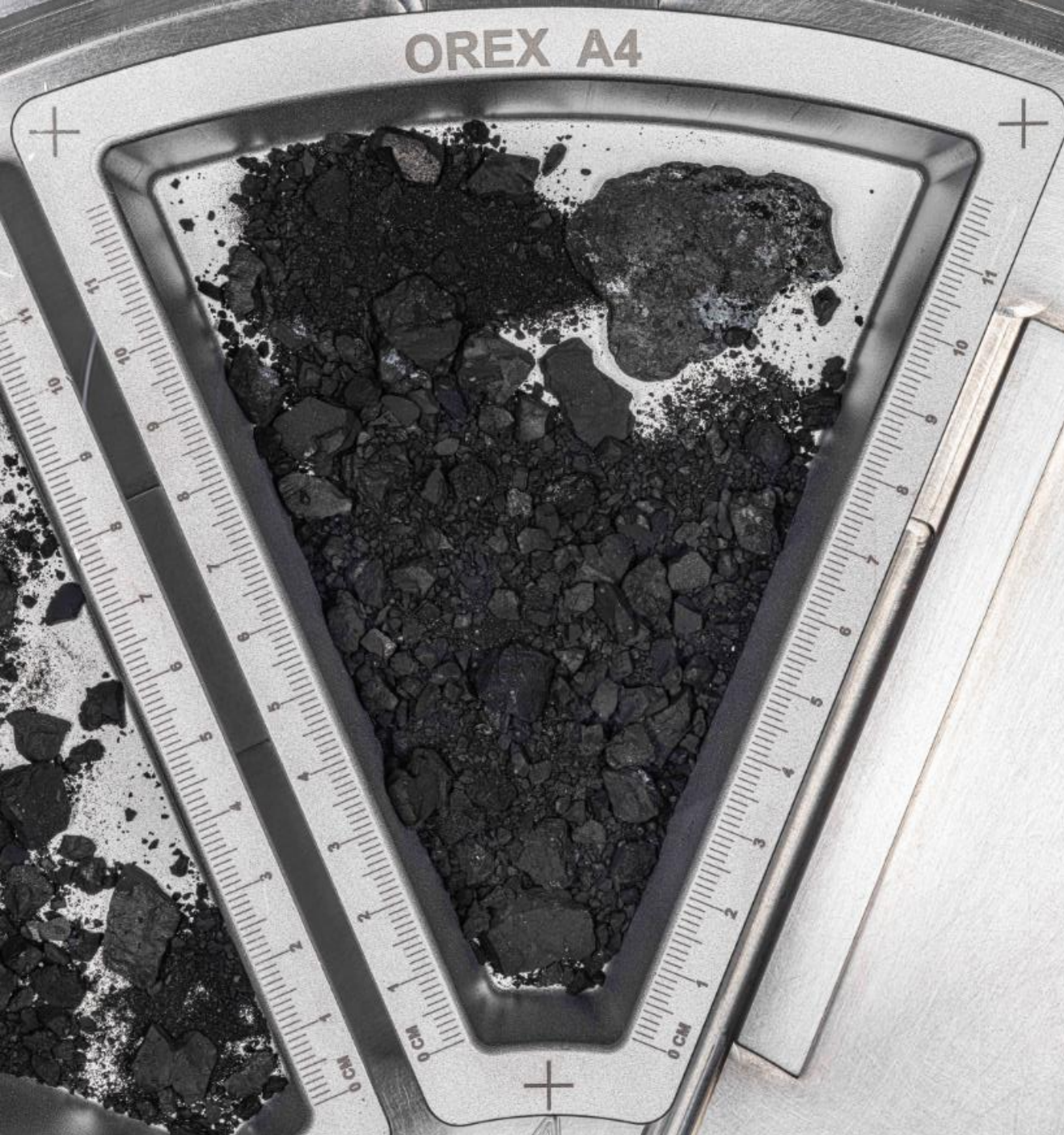
Sample Canister Opened in
Glovebox:
September 26, 2023





TAGSAM head removed from capture ring
and first look at the Contact Pads since
Bennu: October 4, 2023



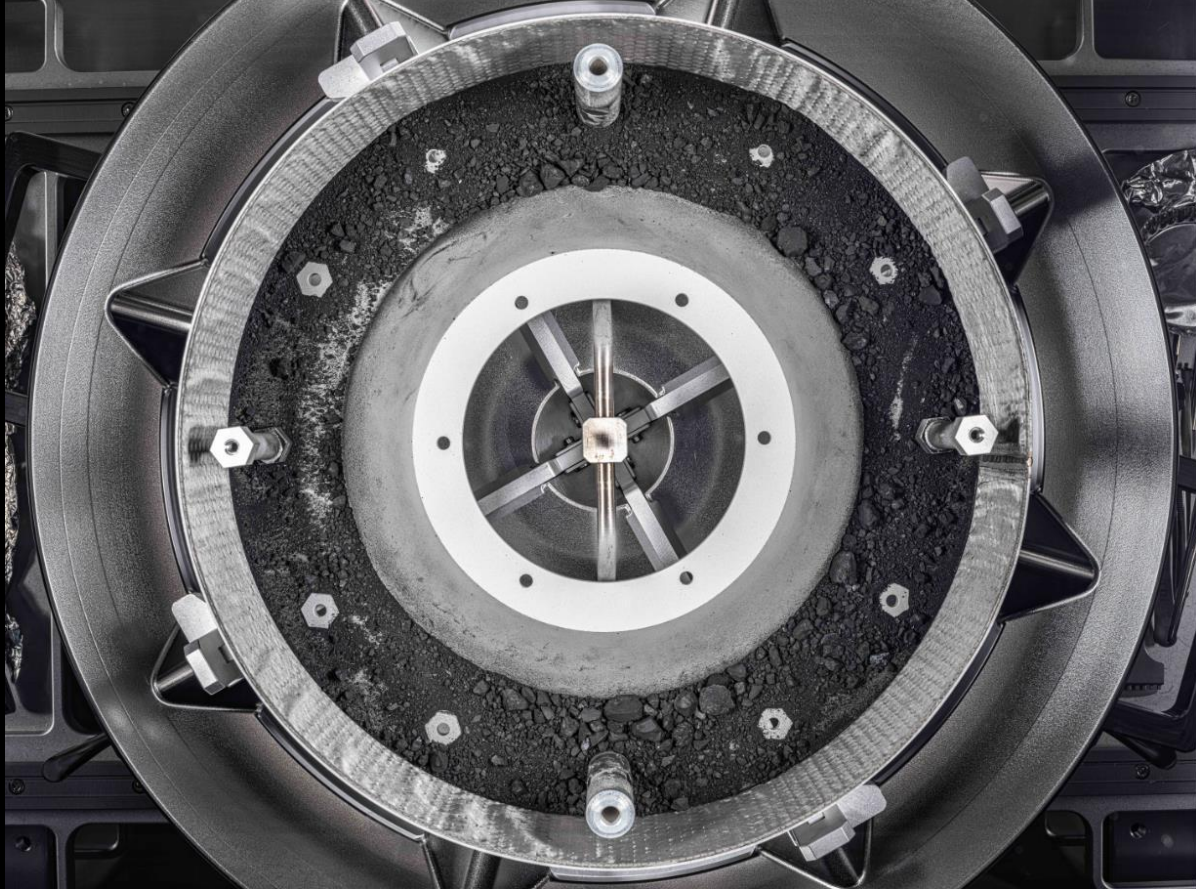


Over 70 g scooped from inside of TAGSAM with
stubborn fasteners still in place:
October 19, 2023

Proceeded with Characterization and Processing of
Removed Sample



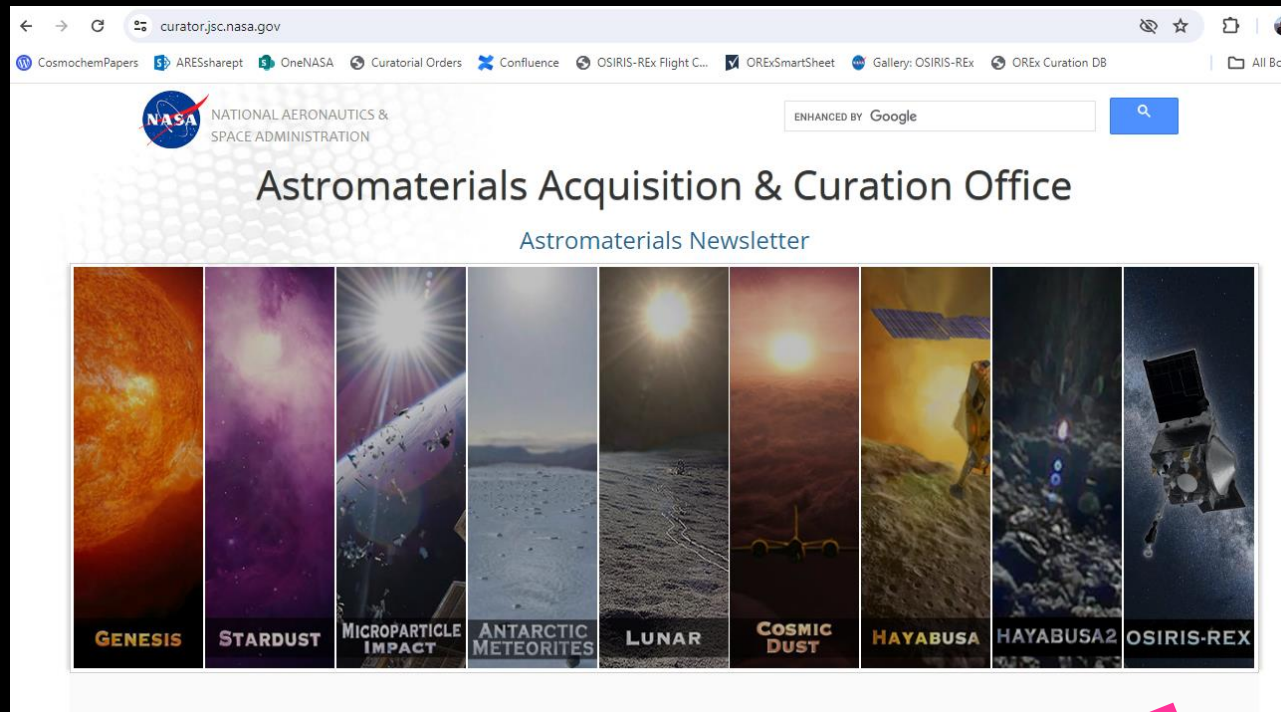
Stubborn fastener removal
January 10, 2024



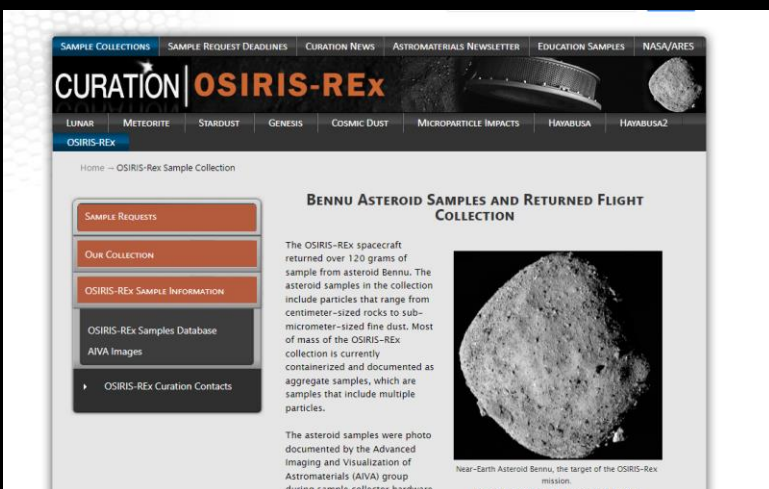


Sample poured out of TAGSAM head

Bulk Sample Reached 121.6 grams



OSIRIS-REx Sample Catalog Release: March 25, 2024



curator.jsc.nasa.gov



Latest Milestone!
Transfer OSIRIS-REx Samples to JAXA