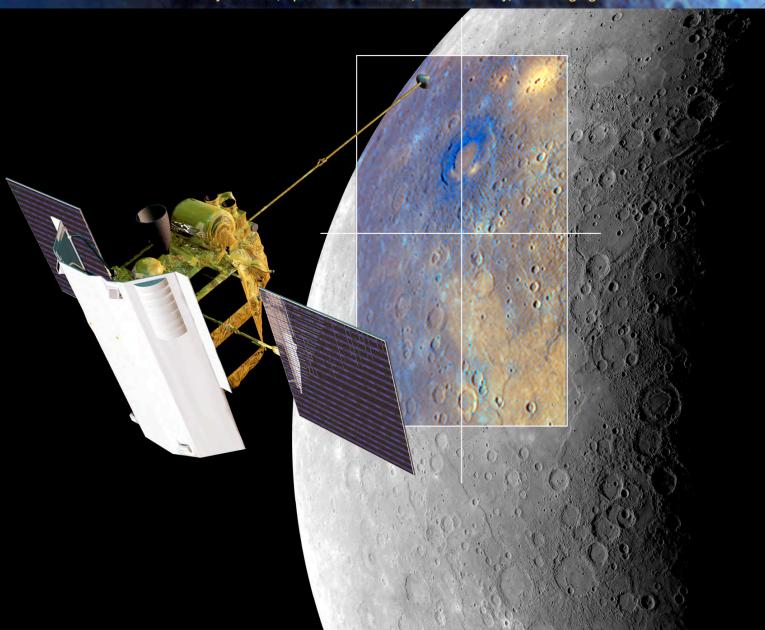








MESSENGER MErcury Surface, Space Environment, GEochemistry, and Ranging



It's not easy to become the first spacecraft to orbit Mercury

MESSENGER journeyed for >6 years, had 6 planetary flybys, and traveled > 4.7 billion miles!

MESSENGER's Journey to Mercury



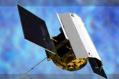


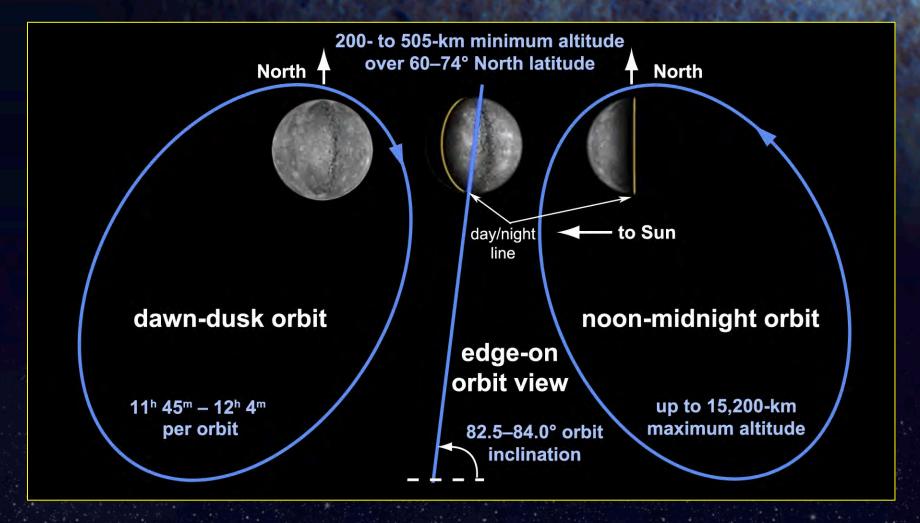






MESSENGER MErcury Surface, Space ENvironment, GEochemistry, and Ranging





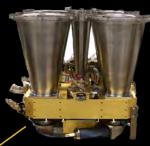
The planet is HOT! Spacecraft exposed to intense heat radiating from the planet when low over surface



Mercury Atmospheric and Surface Composition Spectrometer (MASCS)



Gamma-Ray Spectrometer (GRNS/GRS)



Mercury Laser Altimeter (MLA)



X-ray Spectrometer Solar Assembly (XRS/SAX)



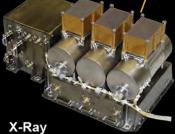
Fast Imaging Plasma Spectrometer (EPPS/FIPS)



Mercury Dual Imaging System (MDIS)



Energetic Particle Spectrometer (EPPS/EPS)



Spectrometer
Mercury Unit (XRS/MXU)



Data Processing Unit (DPU)



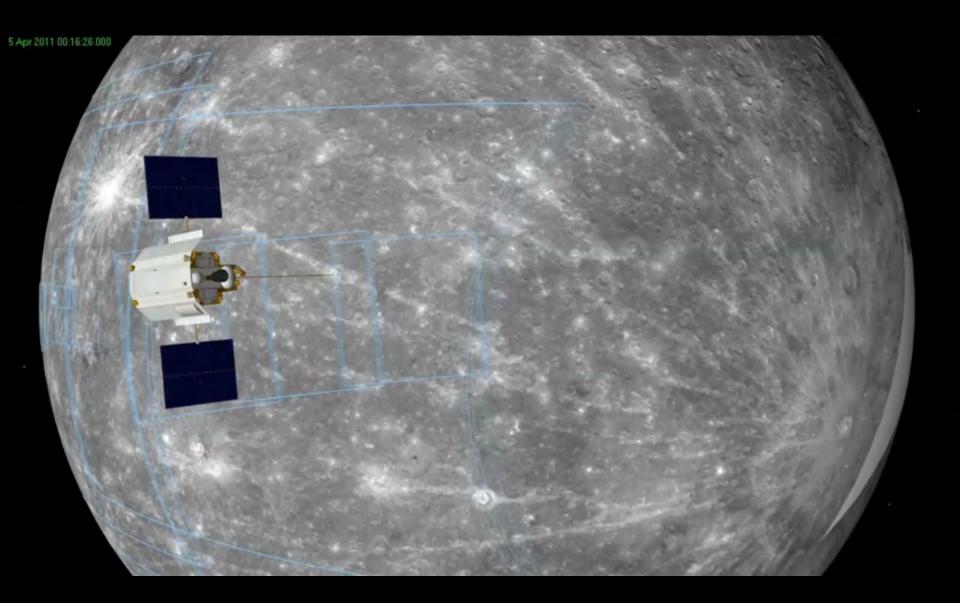
Magnetometer (MAG)
[at end of boom not shown]



Neutron Spectrometer (GRNS/NS)

MESSENGER's first flyby of Mercury January 14, 2008 First image downlinked





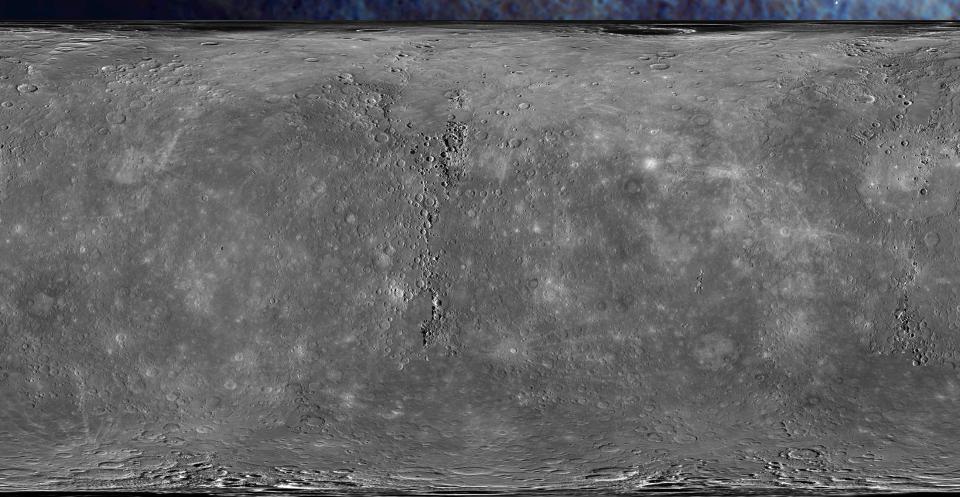






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MESSENGER

MErcury Surface, Space Environment, GEochemistry, and Ranging

