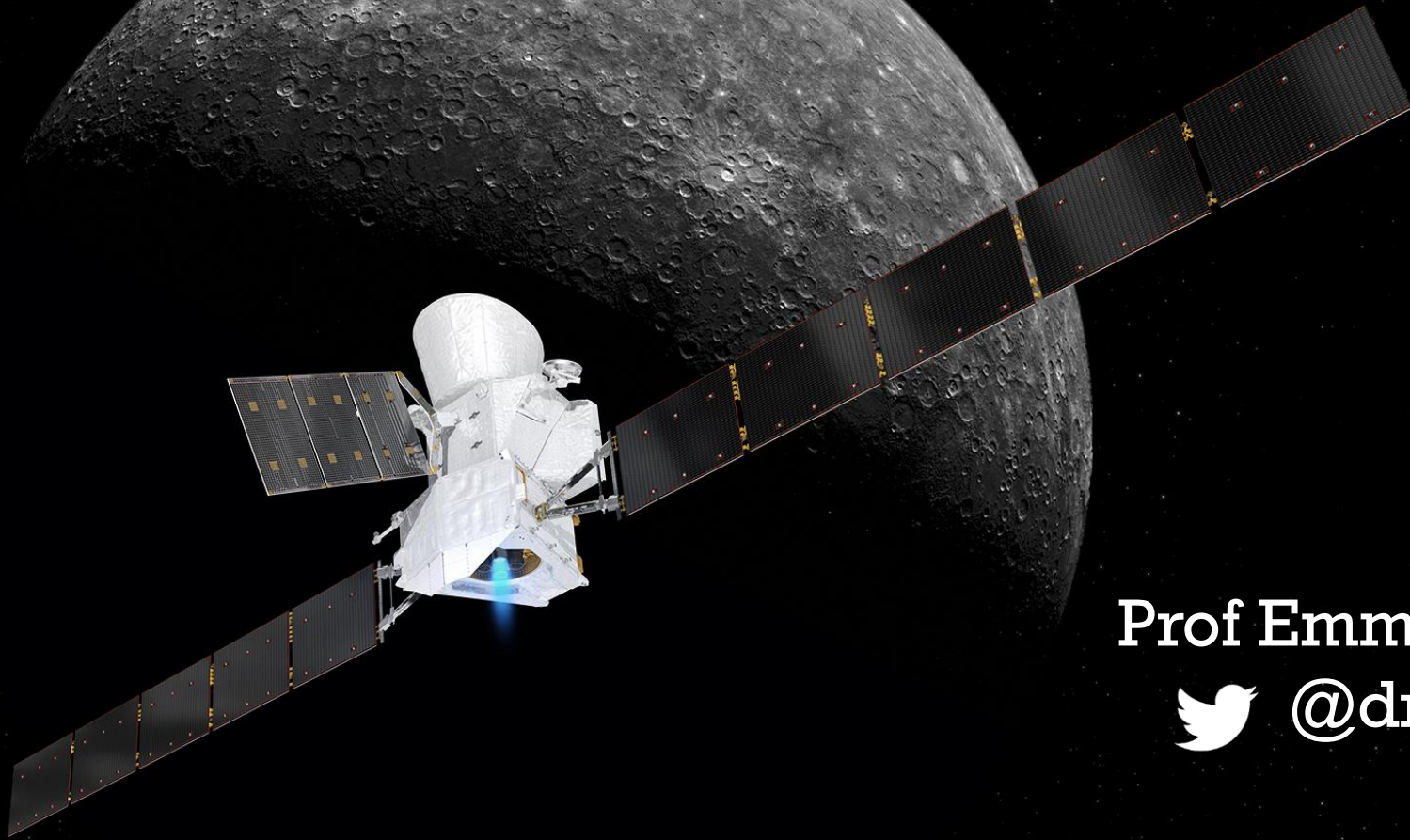


Mission to Mercury

14th Appleton Space Conference, December 2018

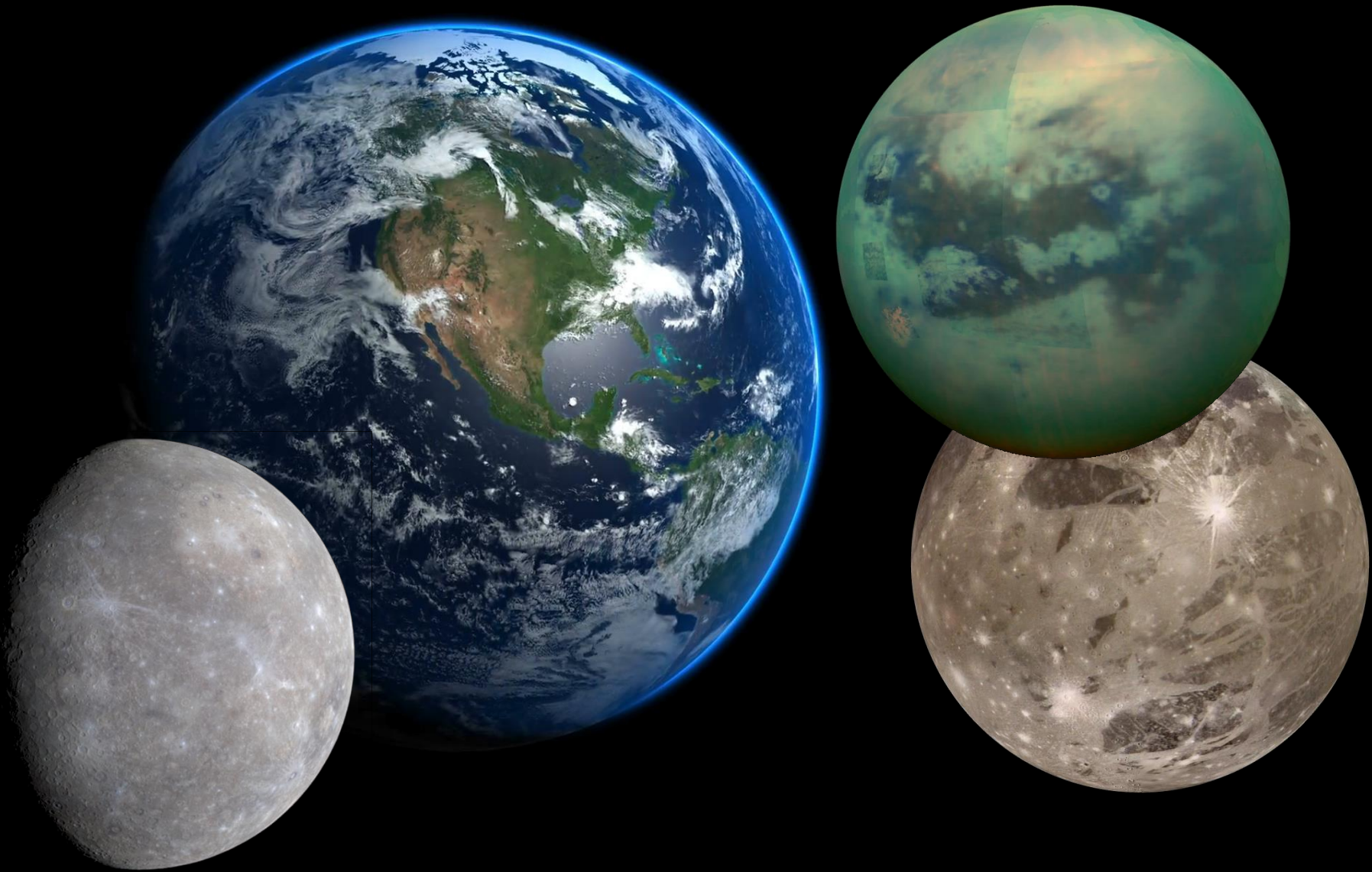


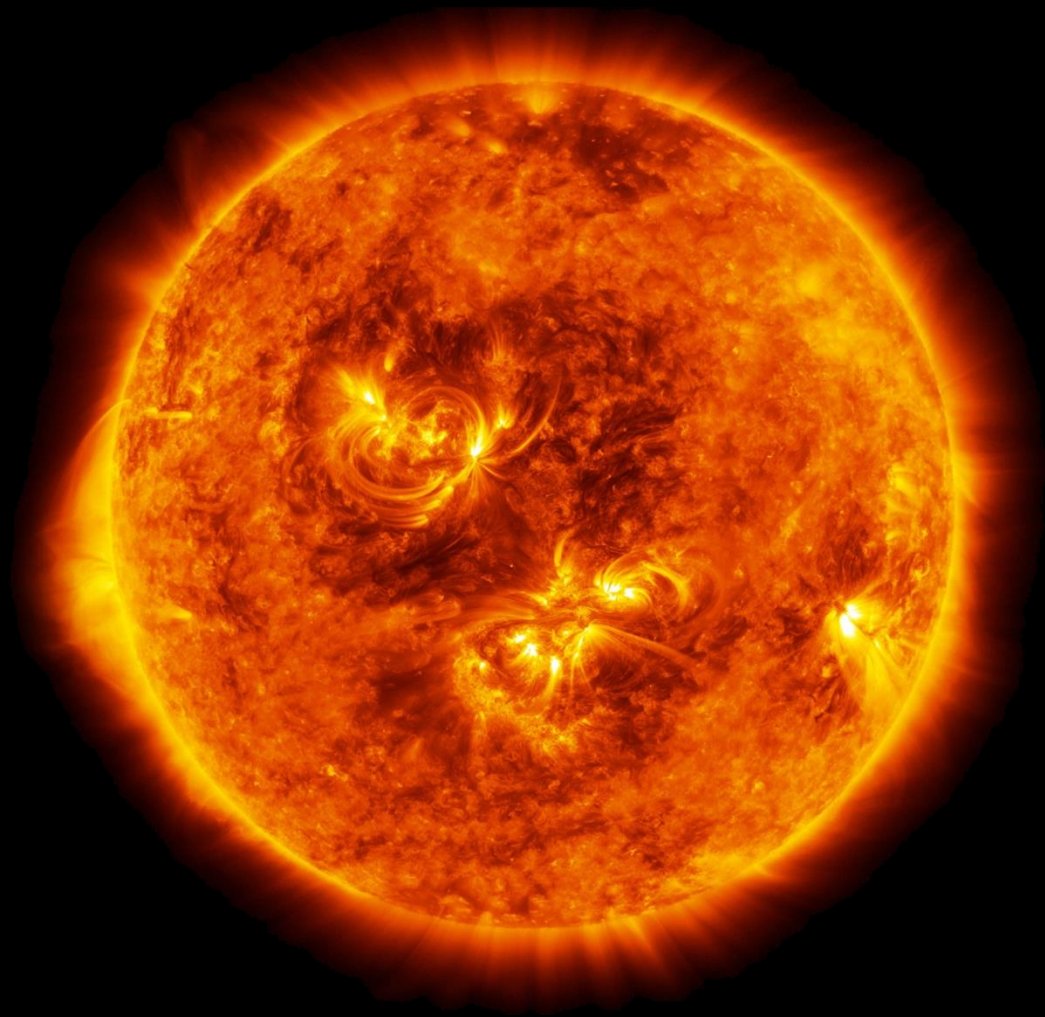
Prof Emma Bunce

 @drbuncen



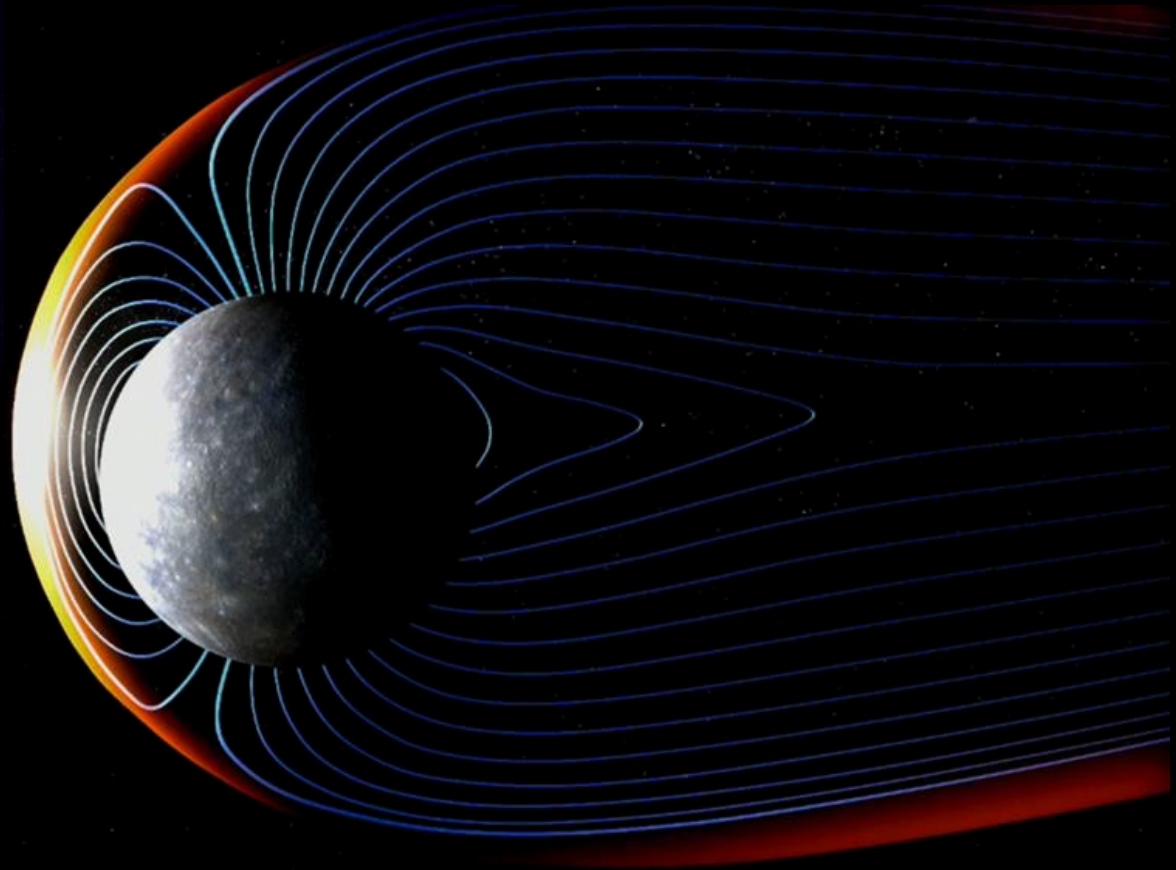
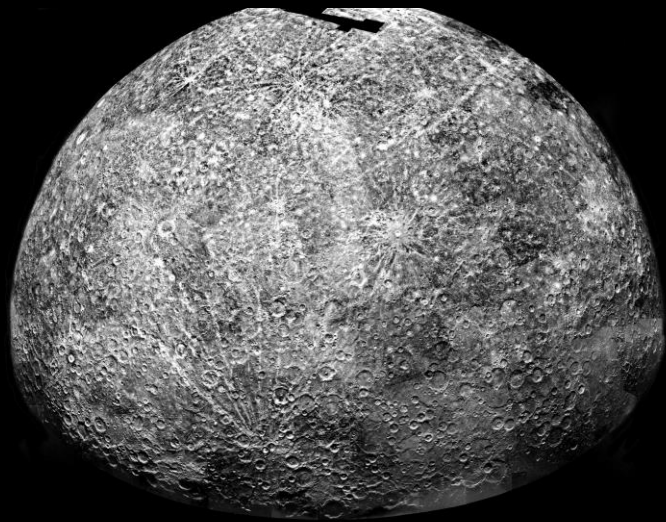
UNIVERSITY OF
LEICESTER

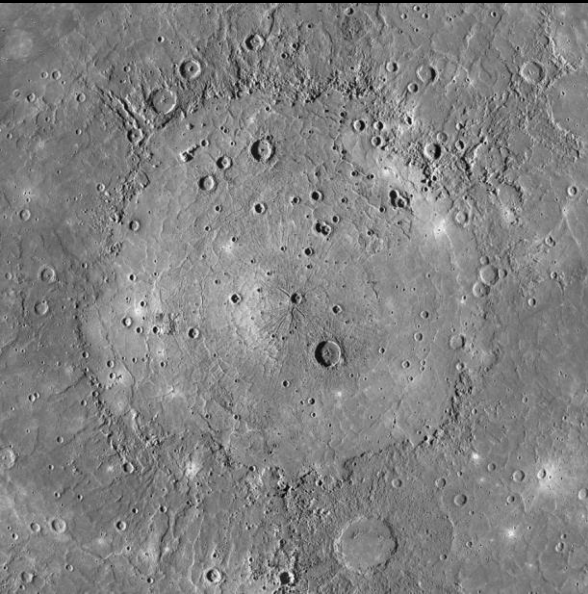




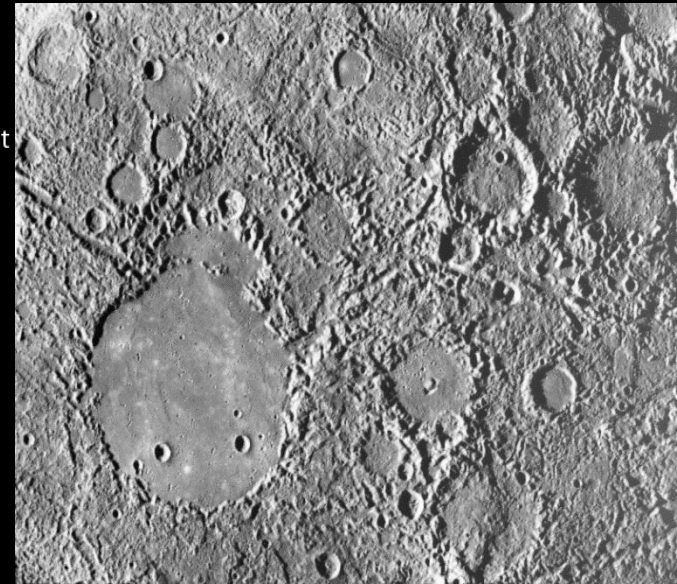
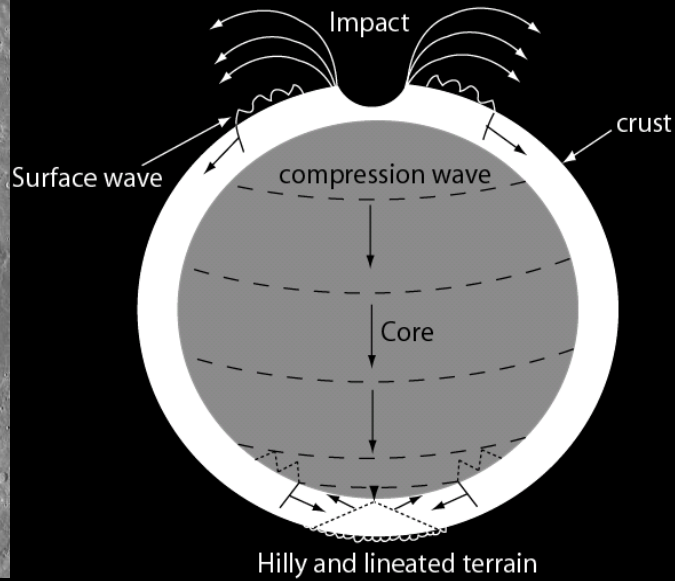


Mariner-10 flybys 1973-1975



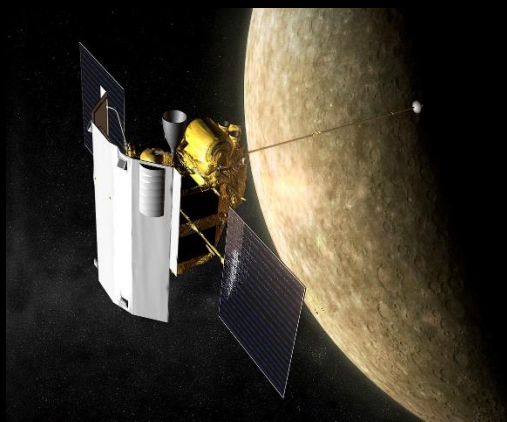


Caloris Basin

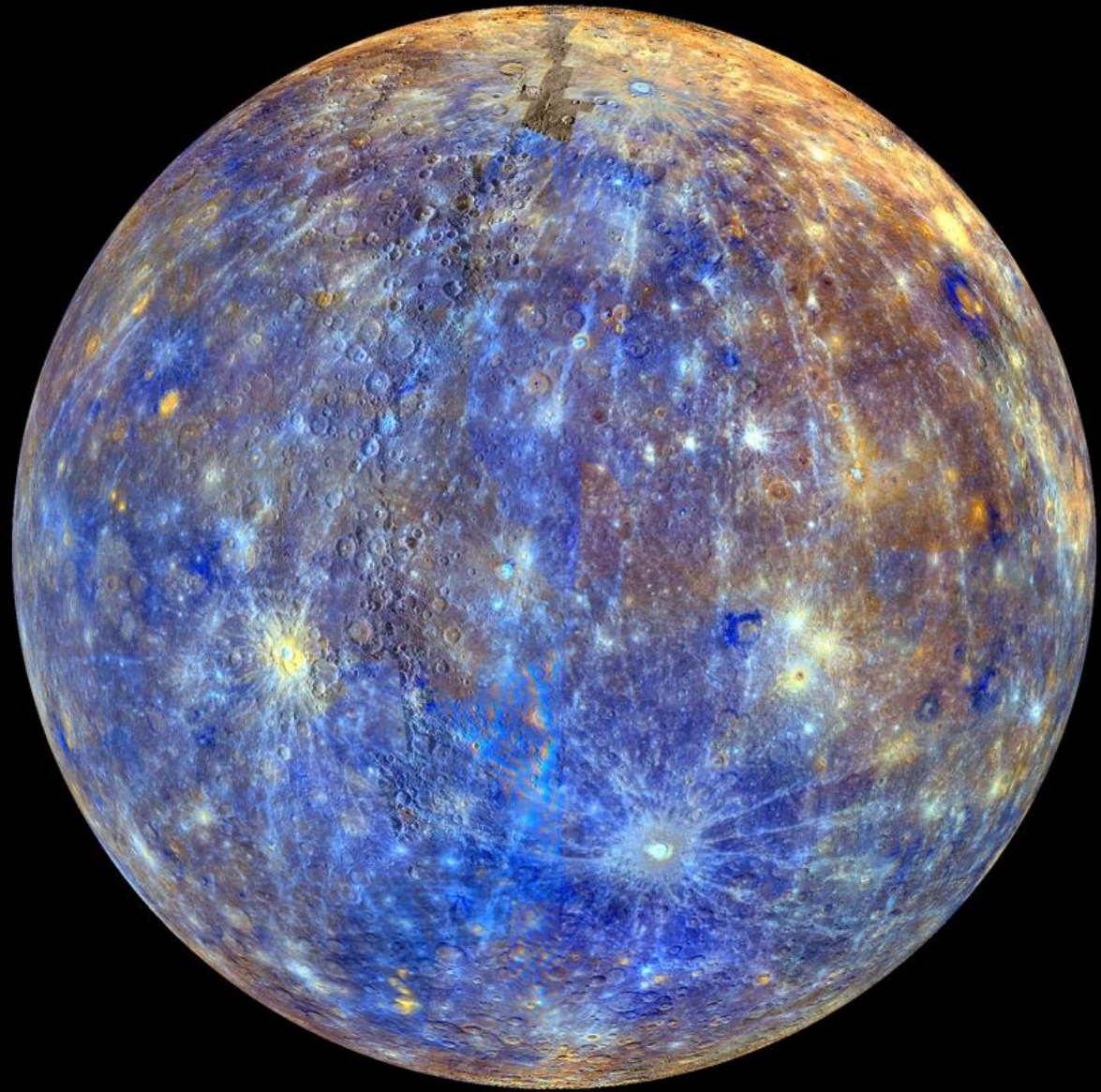


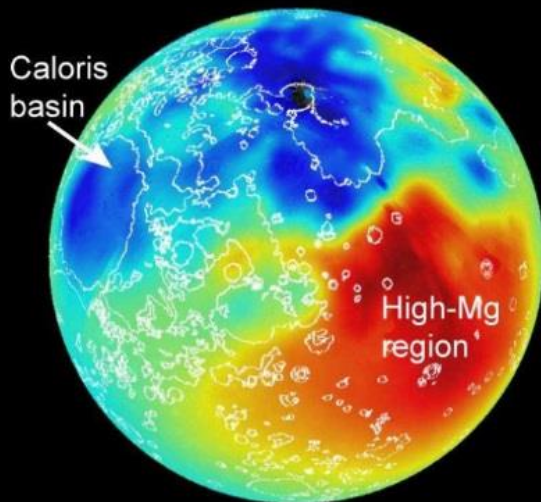
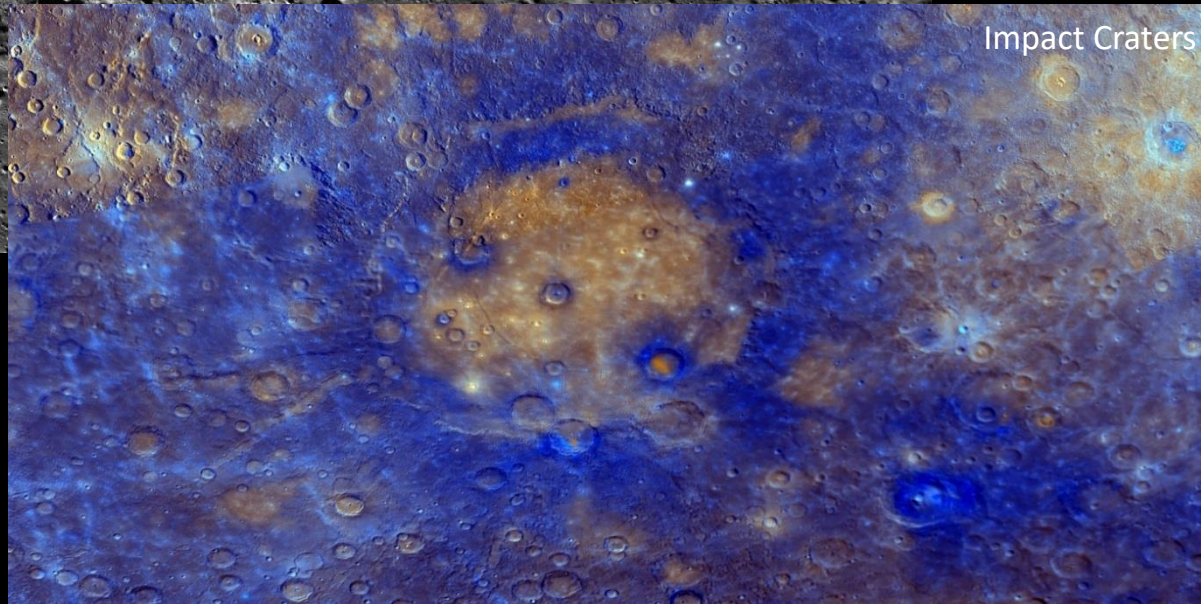
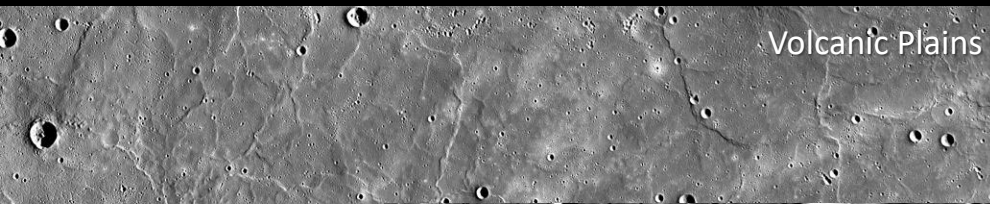
Antipodal terrain

Mariner-10 flybys 1973-1975



MESSENGER orbiter 2011-2015

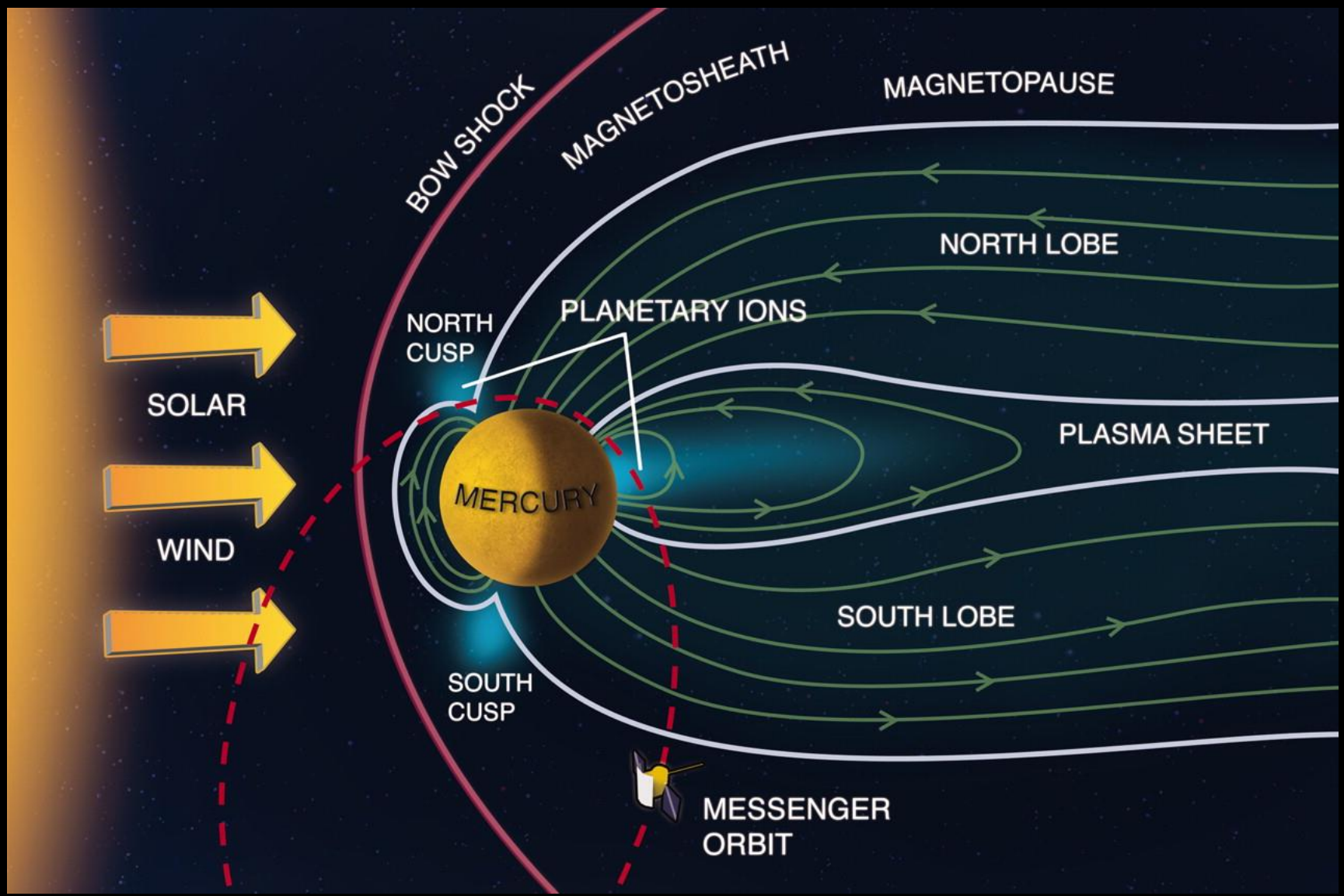




Credit: JHU/APL & NASA

MESSENGER orbiter 2011-2015

Credit: JHU/APL & NASA

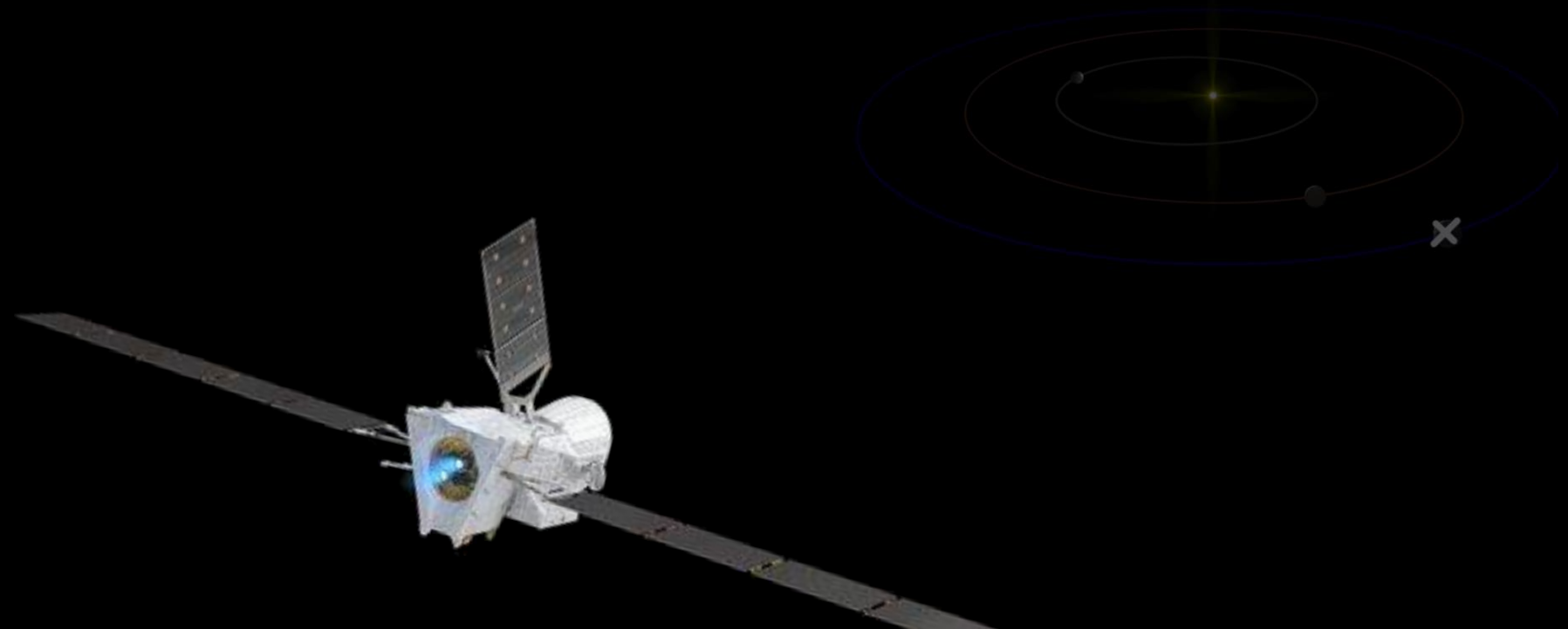


MESSENGER orbiter 2011-2015

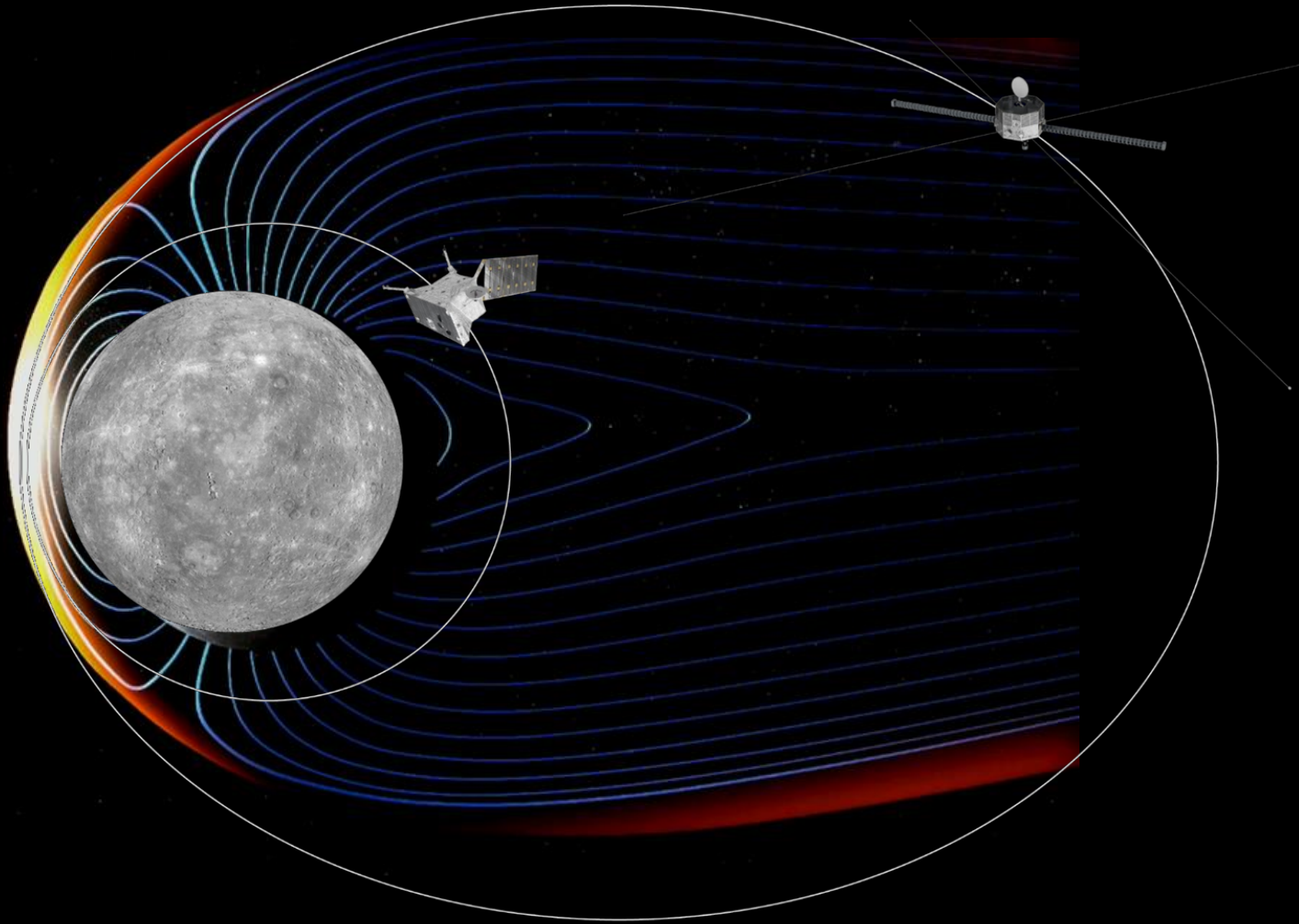


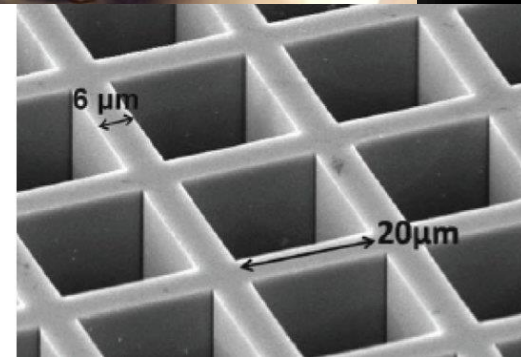
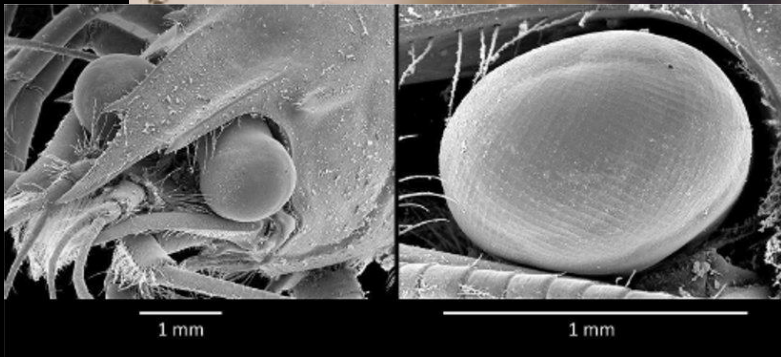
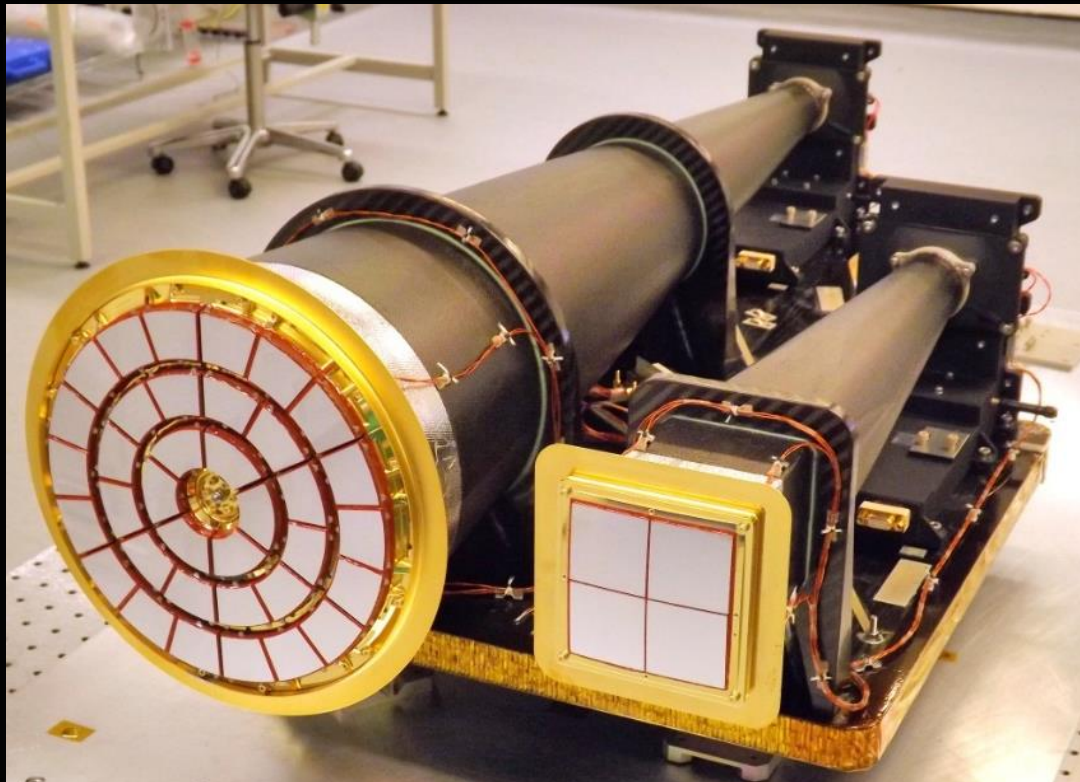
BepiColombo 2025-2026+

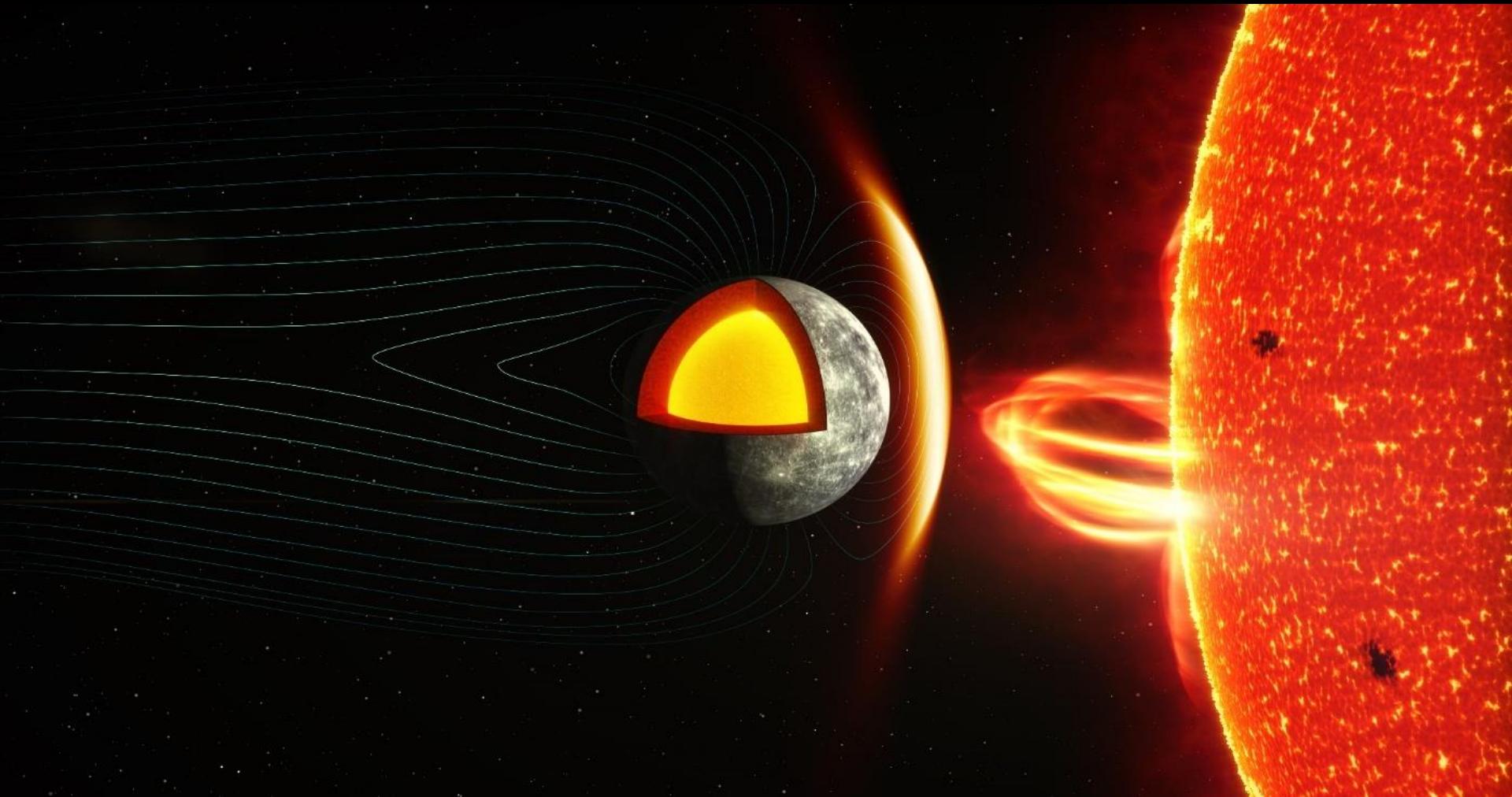


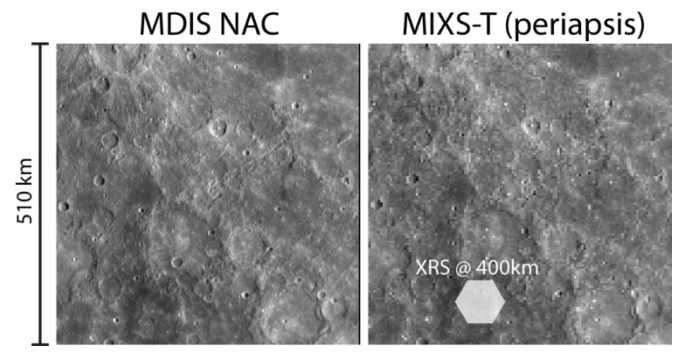
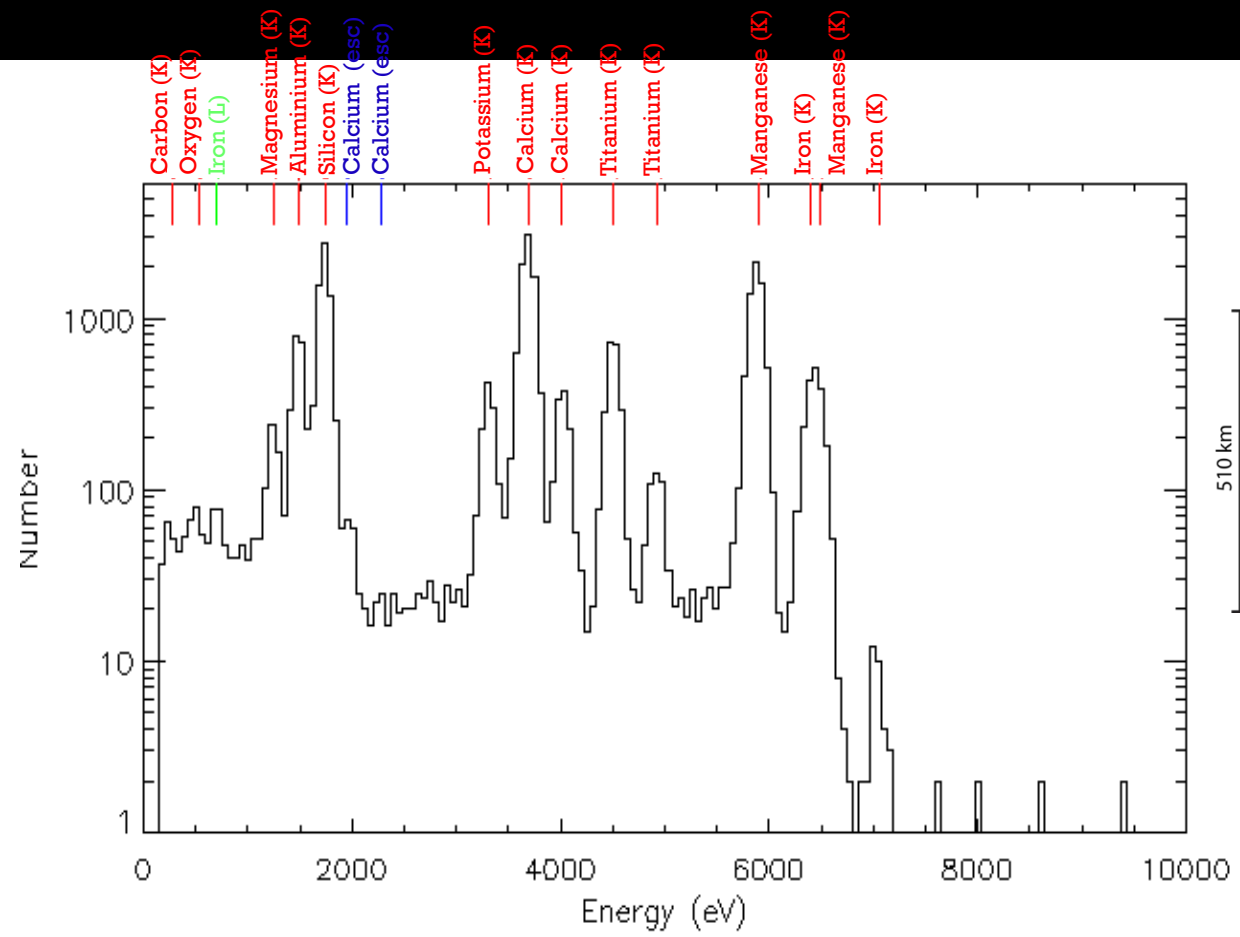
Launch window: 5 October – 29 November

Credits: Mercury: NASA/Johns Hopkins University Applied Physics Laboratory/Carnegie Institution of Washington; spacecraft: ESA/ATG medialab

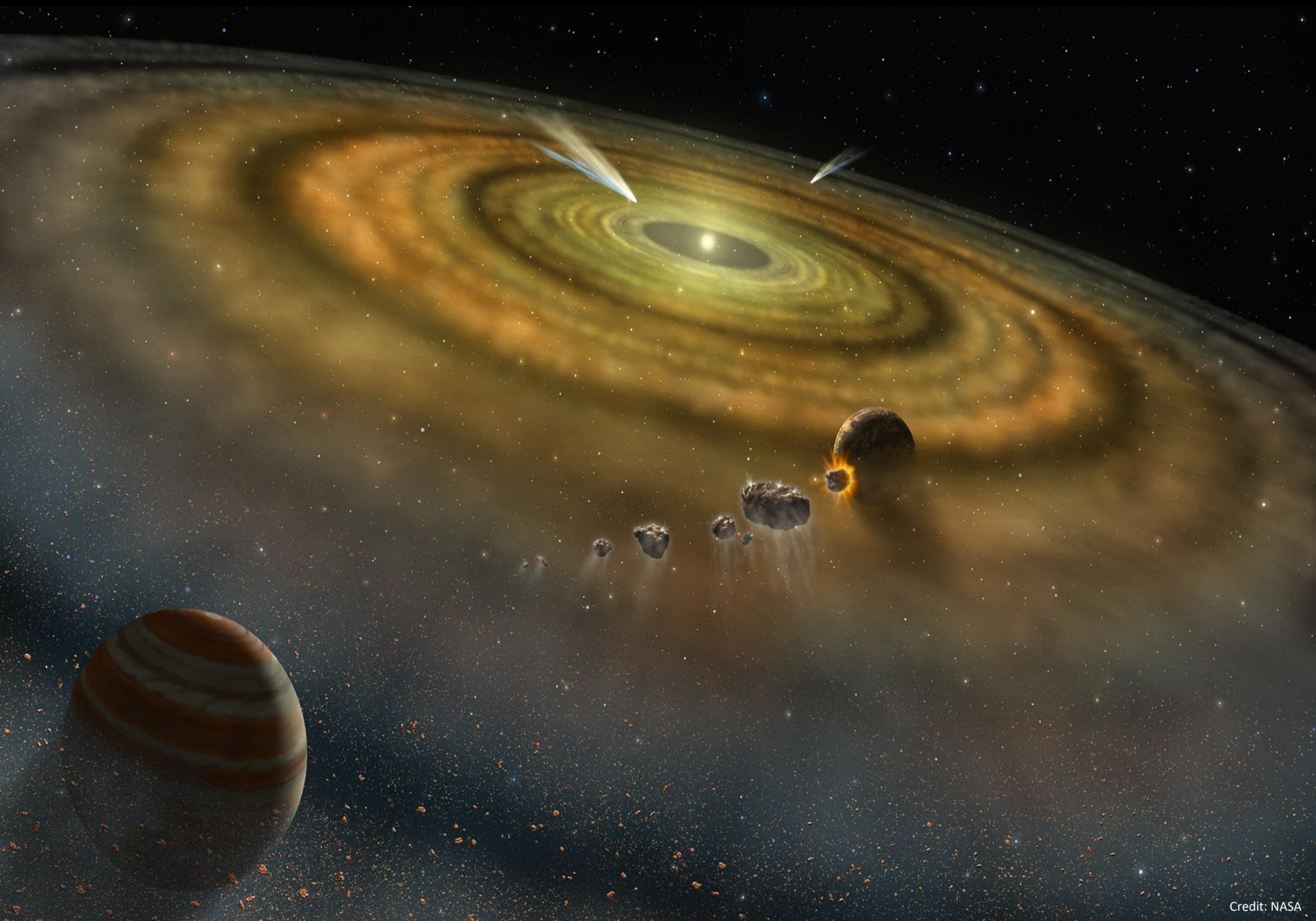


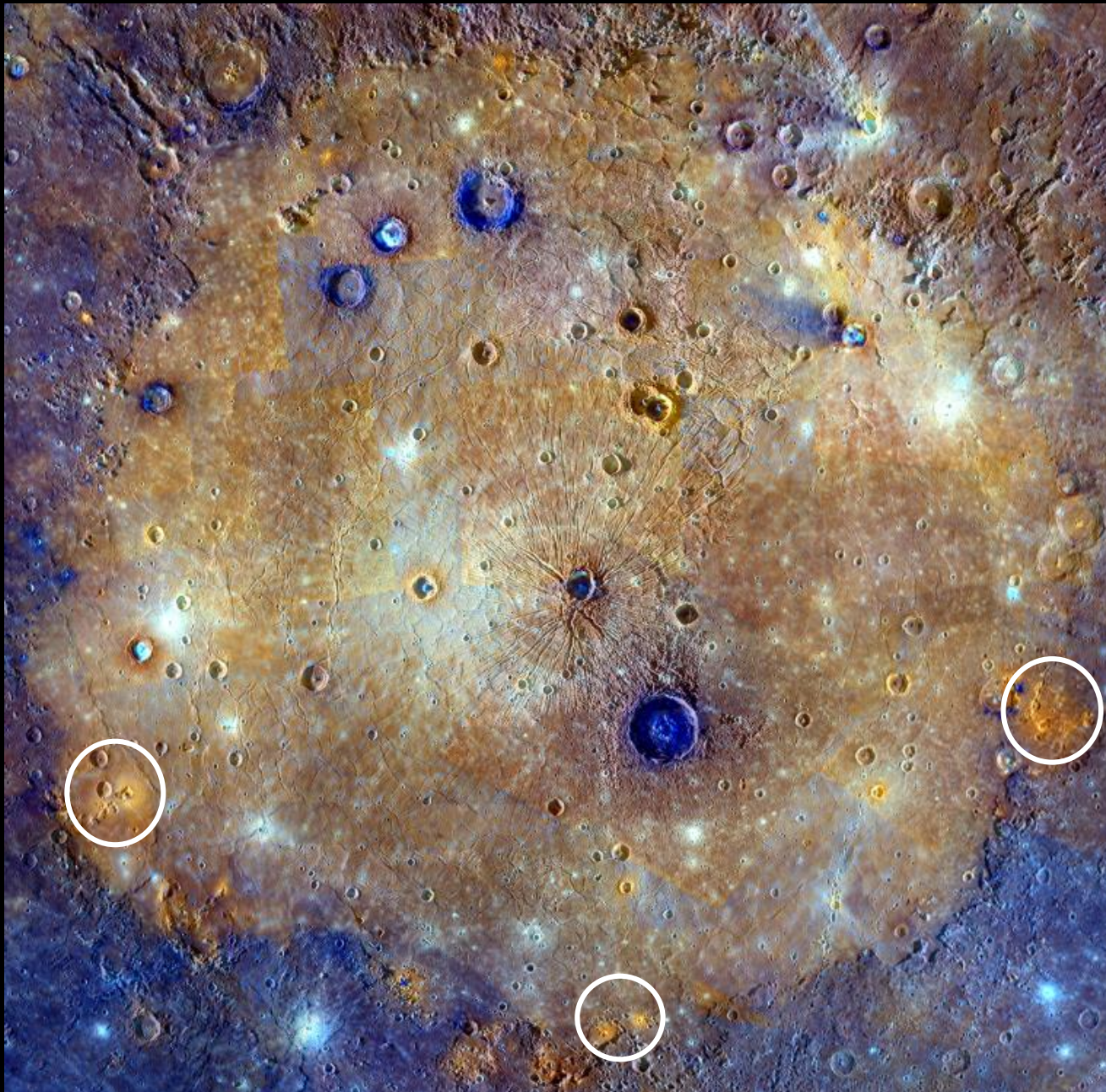




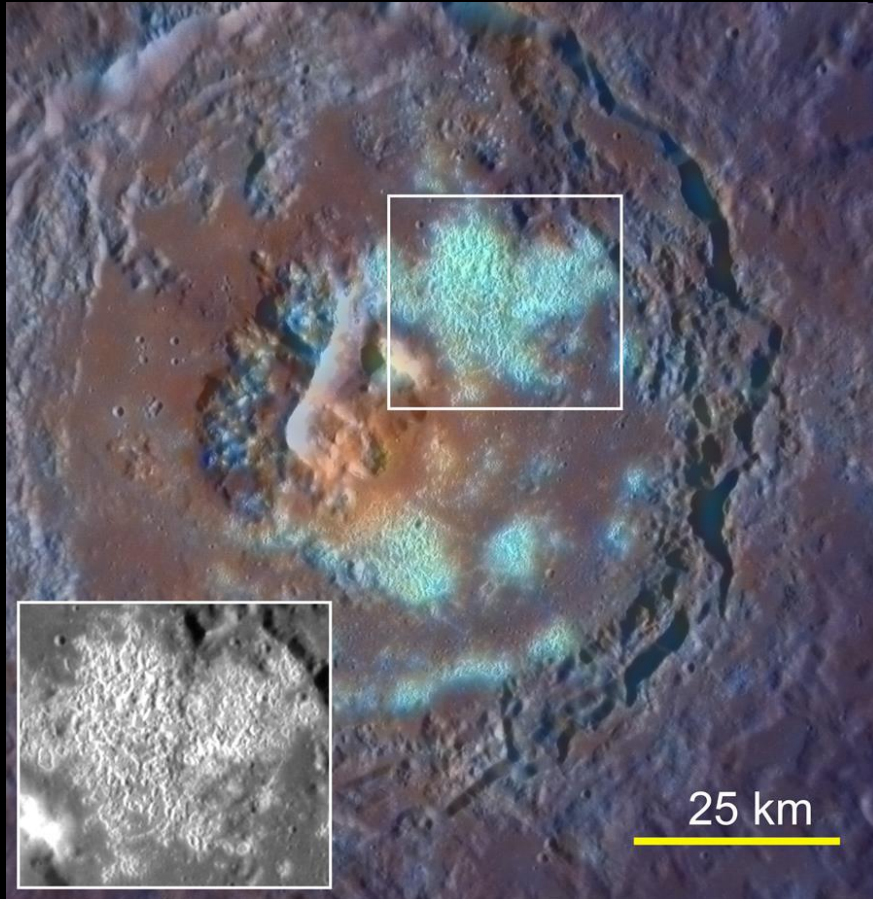


MIXS major elements – 0.5 keV to 7.5 keV

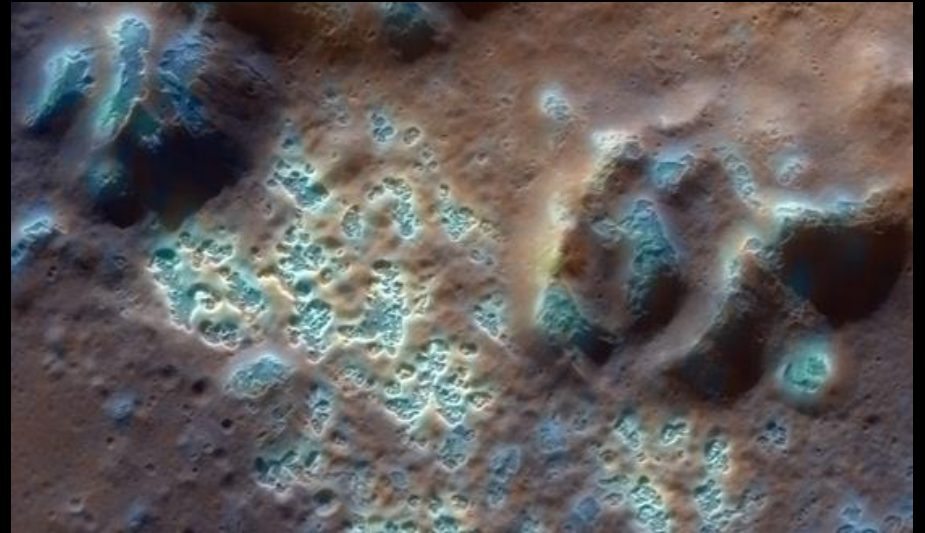


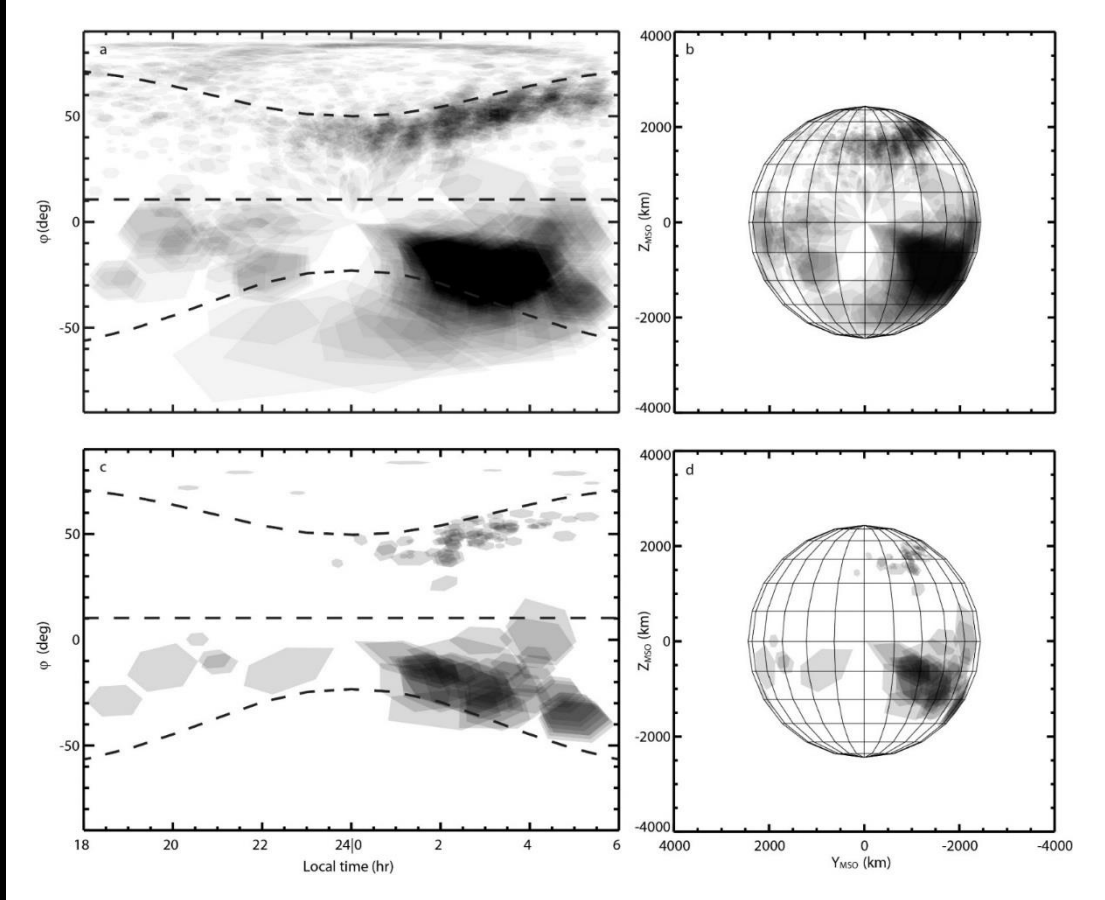
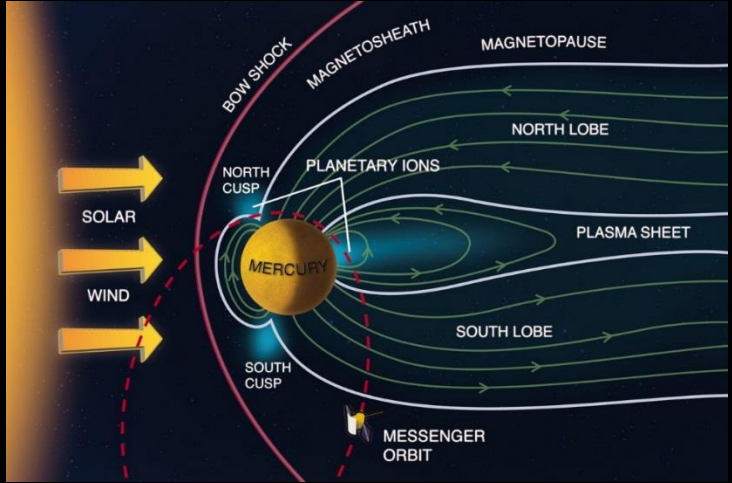


Explosive VOLCANIC vents



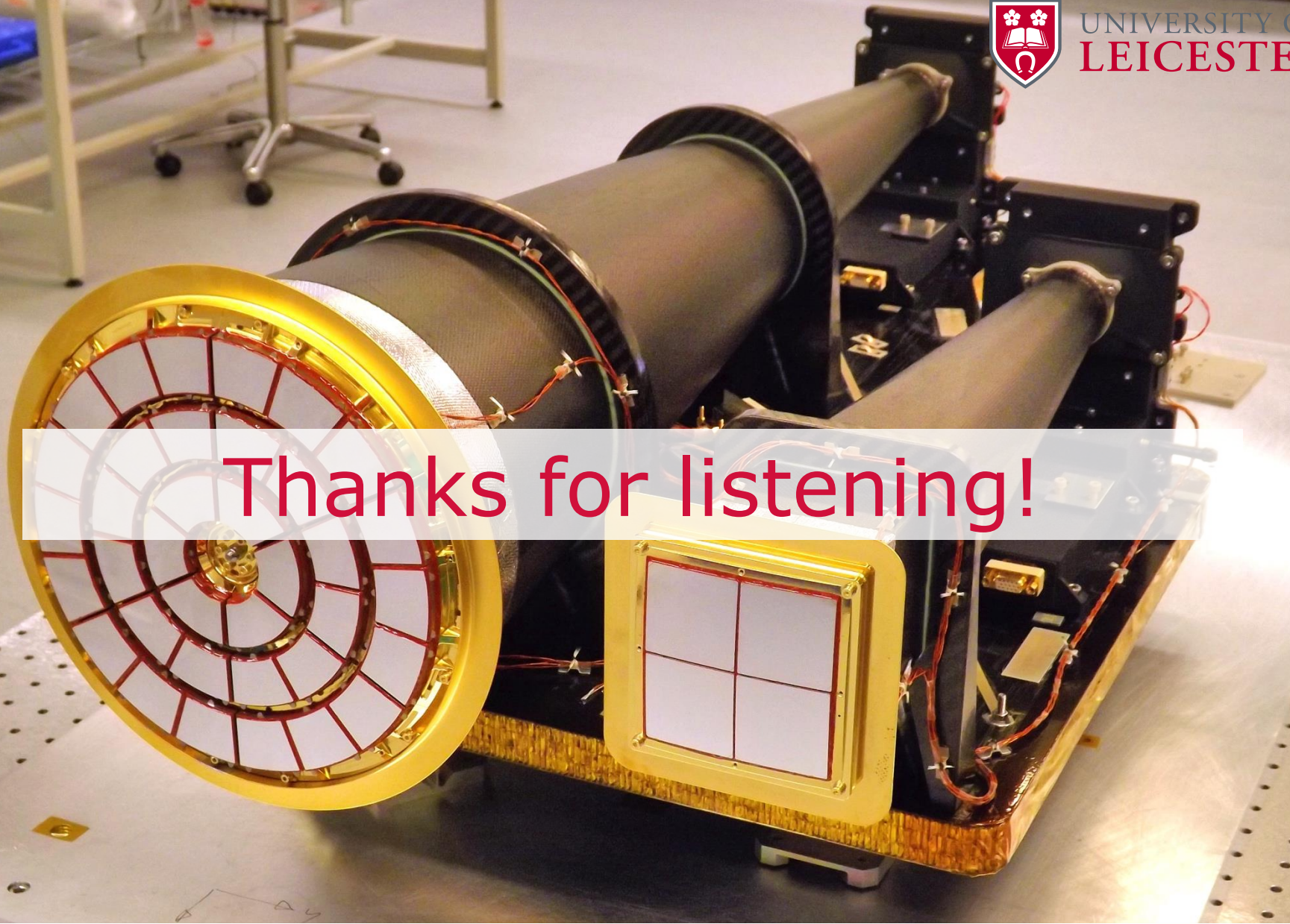
Volcanic Hollows





Launch success at 02:45 am (UK) on 20th October





Thanks for listening!