

During Flyby 3, MESSENGER will specifically targets for detailed spectral analysis by the MASCS instrument. A summary of the scientific significance of these targets is summarized below. The accompanying movies illustrate the observing program that the spacecraft and instruments will execute just after closest approach. 'Flashes' indicate the 'image frames' from the camera that provides geological context for the MASCS observations.

Target	Description
A	An unnamed crater with unusual bright material on its floor.
B	An unnamed crater with a set of young ejecta rays that are light blue in the enhanced-color view.
C	Crater Lermontov. The bright yellowish color in the enhanced-color image and the irregularly shaped depressions on its floor may be evidence of past explosive volcanic activity.
D	North of crater Homer. An area with an interesting mix of both light blue ejecta and bright orange materials.
E	Near crater Titian. Enhanced-color images show a region of comparatively deep blue material that is dark and of a different composition than the majority of Mercury's surface.
F	Common plains material. This target resembles a type of material that covers much of Mercury.
G	An unnamed crater with an intriguing bright yellow-orange color in enhanced-color views.
H	Ray material from a spectacular rayed crater in Mercury's north. The ray material appears bright blue in enhanced color.
I	Crater Hemingway. Enhanced-color images show the crater has an orange interior and a highly contrasting dark blue central peak. Will be viewed by MASCS very obliquely.

Departure Observing Plan

