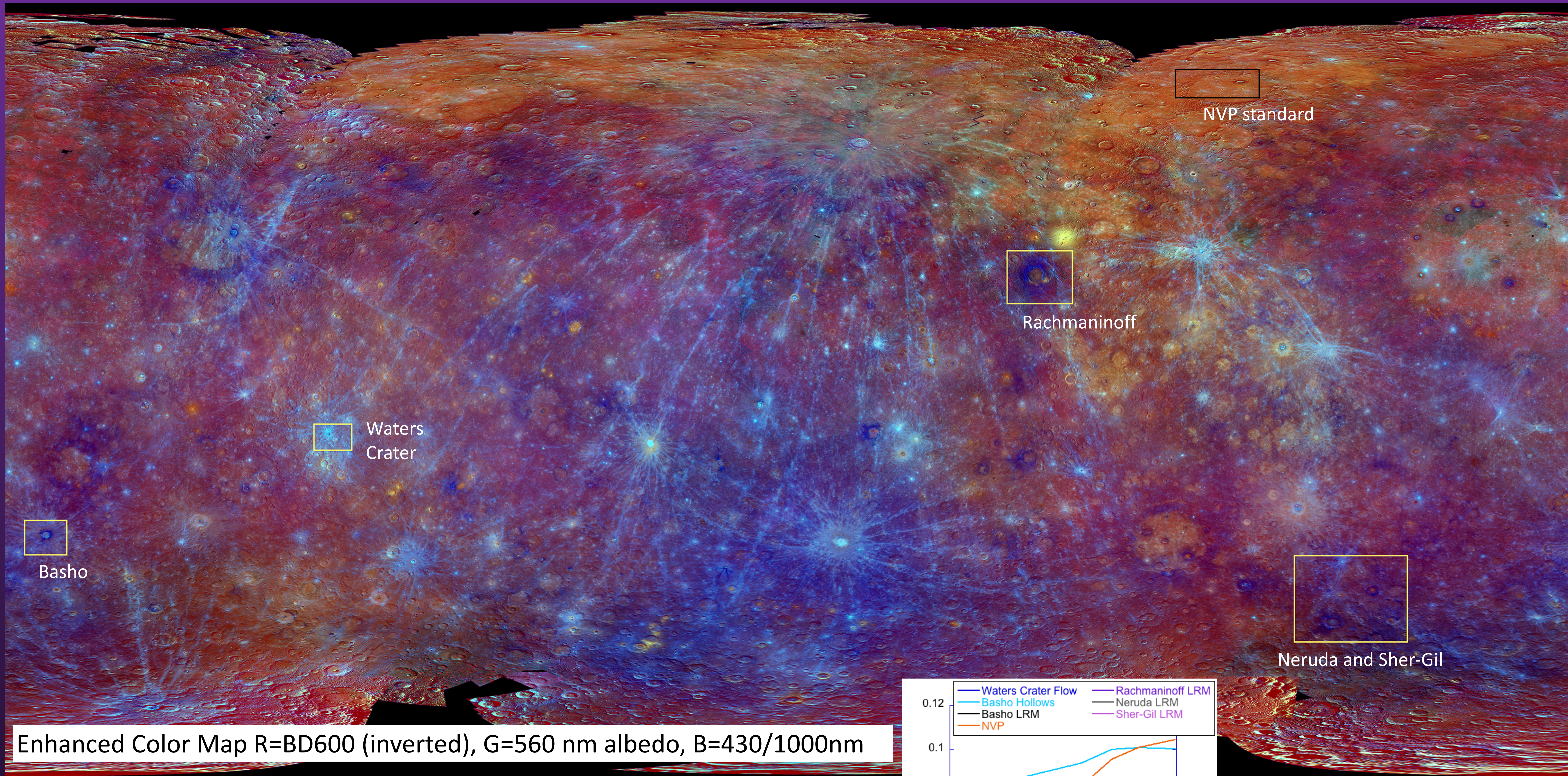


Examining Localized Occurrences of Low-Reflectance Material on Mercury

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LRM deposits are correlated with the 600-nm broad absorption band depth. However, this band depth, as calculated, highlights fresher, bluer sloped material as well as potentially stronger, narrower bands.

The broad 600 nm band depth, in combination with slope and albedo, can be used to create a color composite that is similarly effective to the PCA-derived composite, but that is directly relatable to spectral properties (and potential causes).

Waters crater is a truly unique flow, with spectral properties so far undetected elsewhere on Mercury

Future work will examine these regions and the high resolution color images in more detail, to determine the relationship of the Waters flow to Mercurian compositional/color units.

Is the 600-nm feature associated with carbon, or does the carbon simply darken and the curvature come from hollows developing in it?

