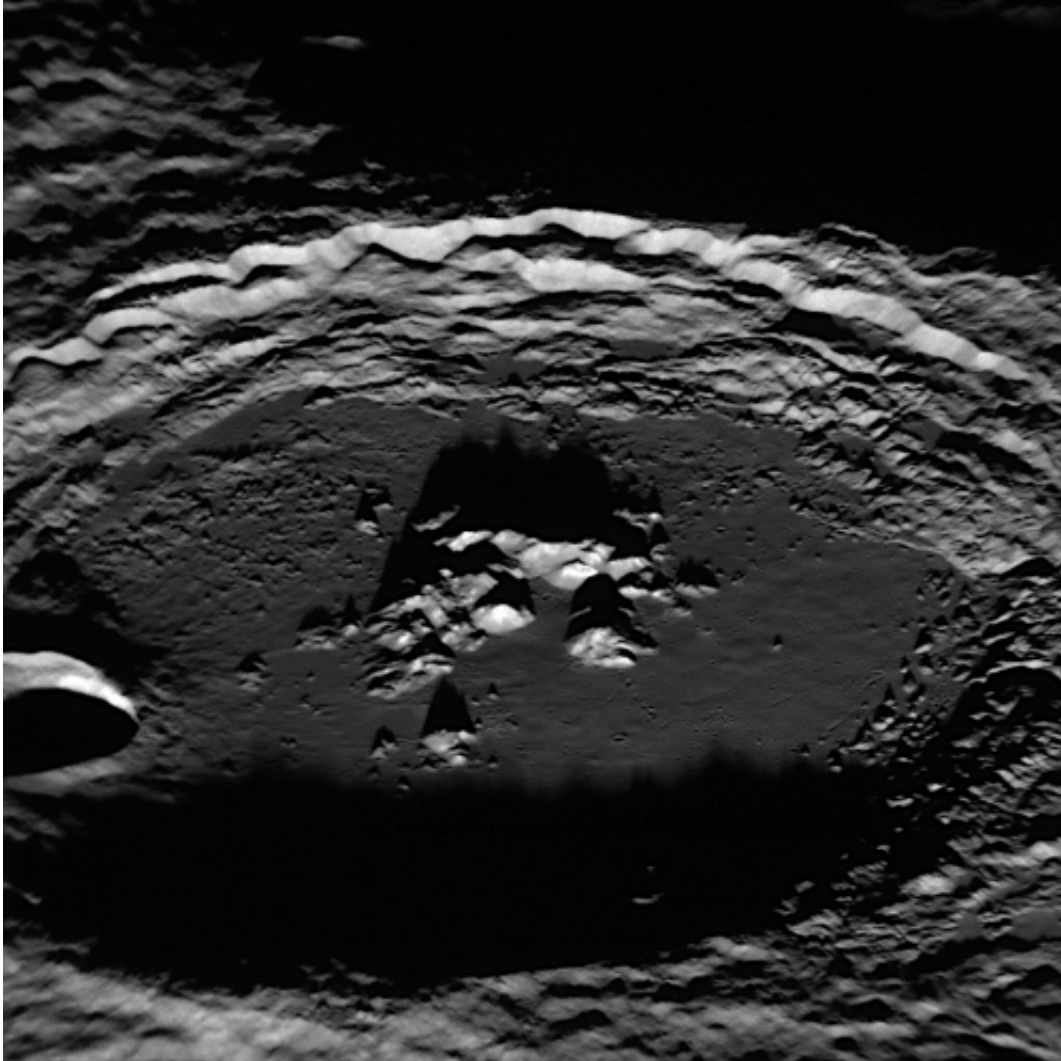


# Bright peaks, dark shadows

February 20 2012, by Jason Major

---



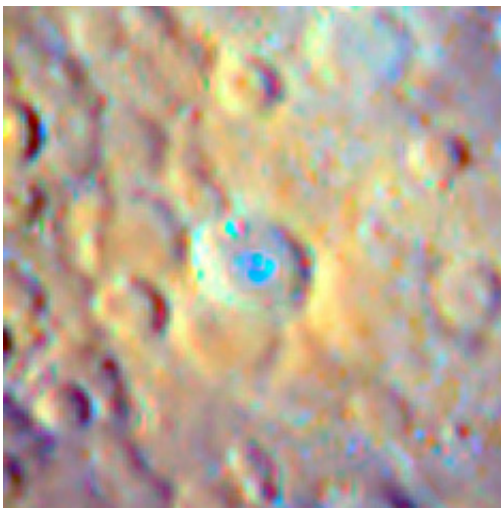
MESSENGER image of Mercury's Amaral crater

The 68-mile (109-km) -wide Amaral crater on Mercury reveals its

brightly-tipped central peaks in this image, acquired by NASA's MESSENGER spacecraft on Feb. 4, 2012. Long shadows are cast by the crater's peaks and rugged rim (north is to the left.)

The image was acquired as a high-resolution targeted observation with MESSENGER's Narrow-Angle Camera (NAC) on its Mercury Dual Imaging System (MDIS).

Amaral's bright peaks were first spotted during MESSENGER's first flyby of [Mercury](#) in Jan. 2008. With a smooth floor, visible ejecta and small secondary craters, Amaral appeared noticeably younger than the heavily cratered surface around it.



Amaral's "blue" peaks seen in a color-enhanced global image acquired Jan. 14, 2008.

Its central peaks also attracted astronomers' interest, as they were seen to possess a striking blue hue in color-enhanced images that likely indicates rocks with different composition from the surrounding surface.

Amaral's peaks resemble those of the slightly larger [crater](#) Eminescu, which is now known to contain recently-discovered features called hollows. It's not yet known if Amaral also contains hollows, but it's suspected that they may be present on the tips of the peaks.

The crater is named after Brazilian artist Tarsila do Amaral. She lived from 1886 to 1973 and is considered to be one of the leading Latin American modernist painters.

Source: [Universe Today](#)

Citation: Bright peaks, dark shadows (2012, February 20) retrieved 6 May 2024 from <https://phys.org/news/2012-02-bright-peaks-dark-shadows.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--