

Howard Astronomical League



October 15th, 2015

Introductions

Name and first modern
eyepiece used on the Watson
Telescope?

- A) TeleVue Nagler 26mm
- B) Meade 24mm UWA
- C) Pentax 10mm XW
- D) Explore Scientific 14mm 82°





Upcoming club activities

Star Parties and public outreach!

Public Star Party

October 24

Members Only

November 7

Chaos Fall Star Party

October 12-18

“You are missing it or you are not here right now”

Public Partnership

Evening Under the Stars

Howard County Central Library

October 21

6-9 PM

Star Storytelling: Our Constellations

October 21

11-11:30 AM

\$3

Family Fridays at the NatureSphere

November 6

6:30 – 7:30 PM

8 – 9 PM

\$6

FYI

**Daylight Savings Time Ends
November 1**

Fall Back



**Member's
astrophotos and
sketches**

Mike Krauss



Andy Vogel



Andy Vogel



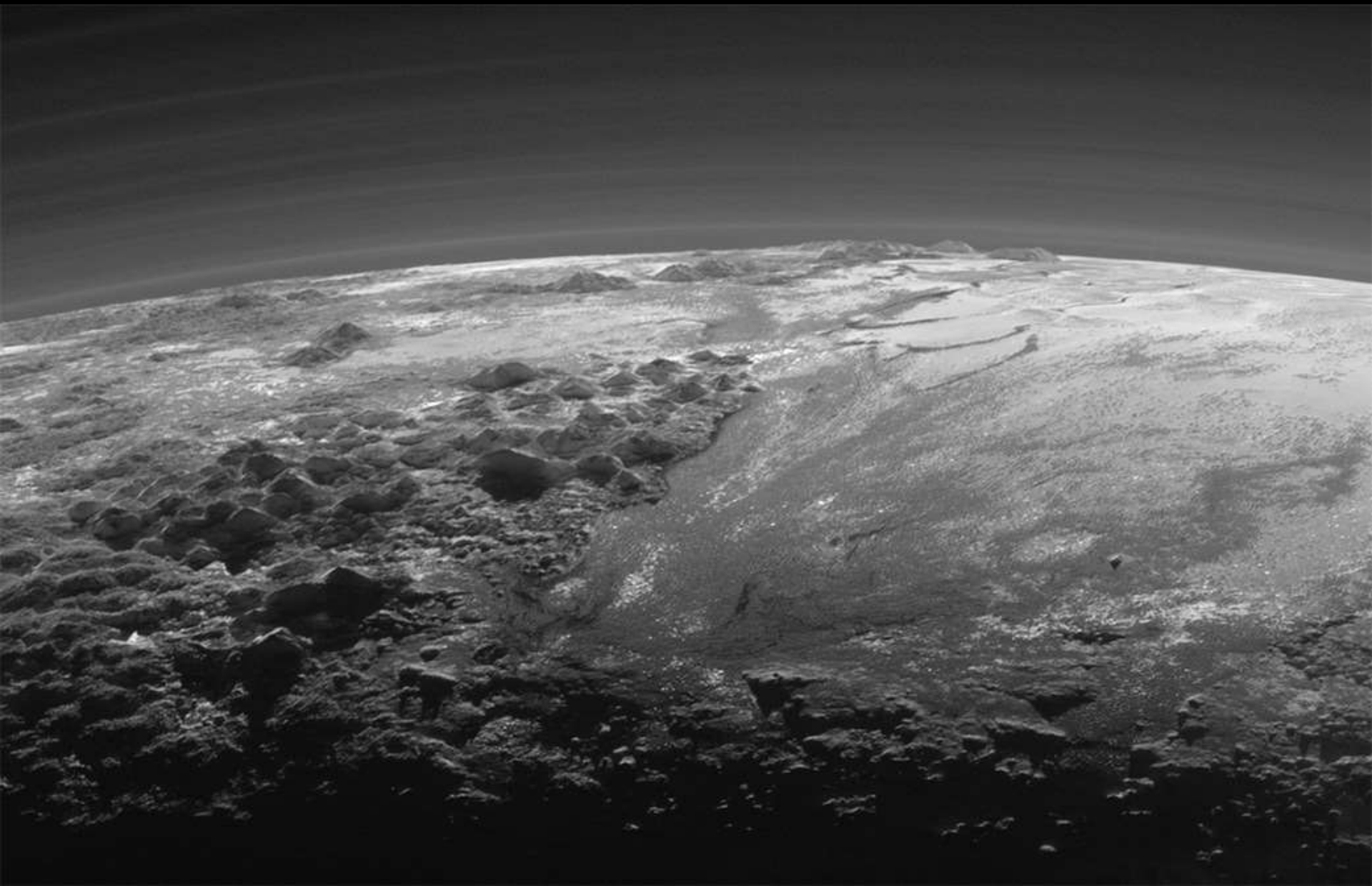
Victor Sanchez



Victor Sanchez NGC 253



New Horizon's Pluto

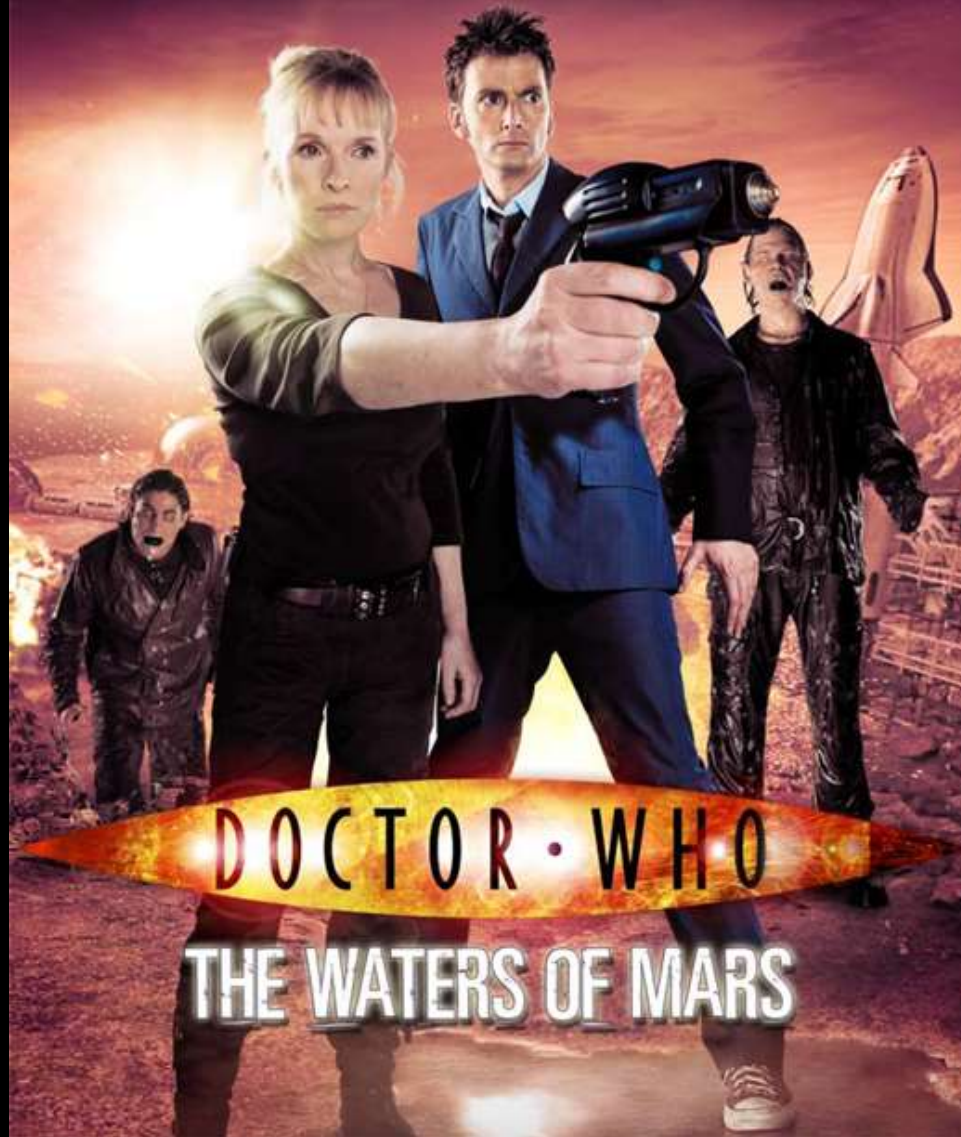


New Horizon's Pluto





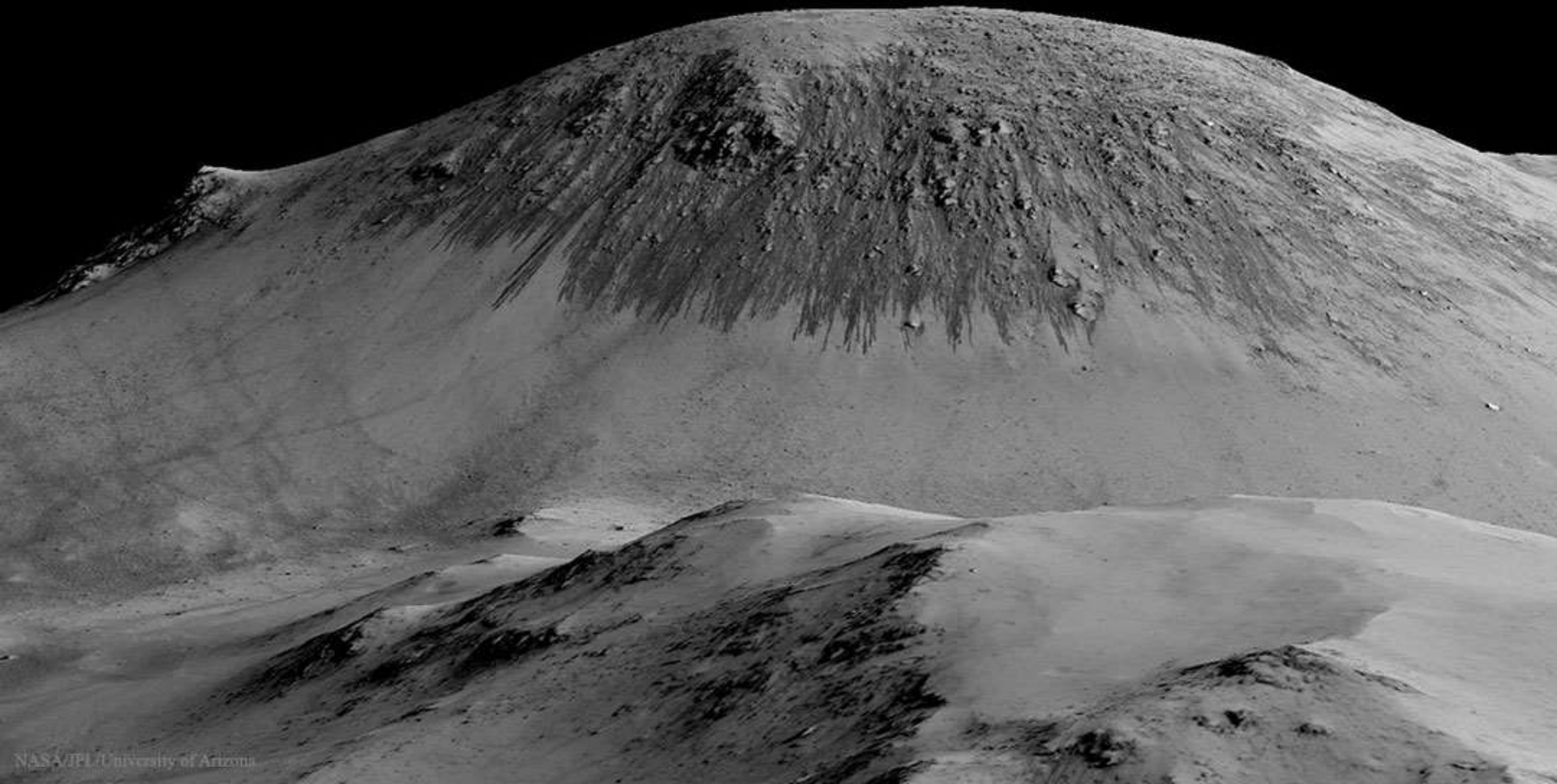
DON'T DRINK THE WATER. DON'T EVEN TOUCH IT. NOT ONE DROP...



DOCTOR • WHO

THE WATERS OF MARS

APOD September 30, 2015



CTAs Needed

Certified Telescope Assistants is the next step for training.

Ceres: The Other Minor Planet

By

Bob Prokop



CERES

(The Other Minor Planet)







“Between Jupiter and Mars,
I place a planet!”



Johannes Kepler, 1596



$$a = (4 + n) / 10$$

where $n = 0, 3, 6, 12, 24, 48, \dots$

and the Earth's semi-major axis is 10

$$0.4 - 0.39$$

$$0.7 - 0.72$$

$$1.0 - 1.00$$

$$1.6 - 1.52$$

$$2.8 - \text{????}$$

$$5.2 - 5.2$$

$$10.0 - 9.6$$

$$19.6 - 19.2$$



0.4 – 0.39

0.7 – 0.72

1.0 – 1.00

1.6 – 1.52

2.8 – 2.77

5.2 – 5.2

10.0 – 9.6

19.6 – 19.2



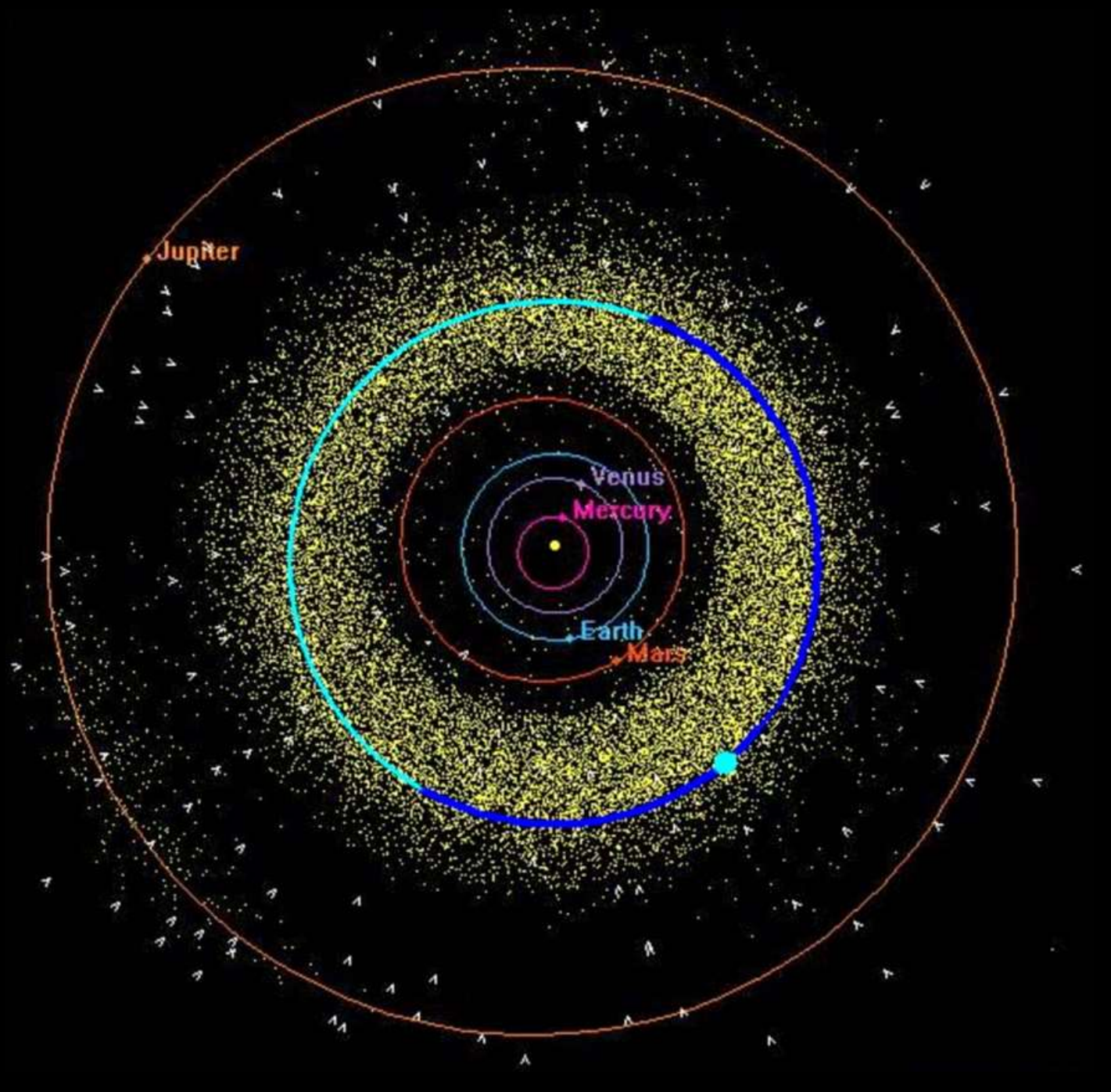
1801 - Ceres

1801 - Pallas

1804 - Juno

1807 - Vesta

1845-55 - 33 More!



Jupiter

Venus

Mercury

Earth

Mars

Perihelion – 2.56 AU

Aphelion – 2.98 AU

Year – 4.6 Earth Years

Diameter – 588 miles

Day – 9 hours

Cerean Year – 4447.7 days

Apparent Magnitude – 6.64 to 9.34

Angular Diameter – 0.85" to 0.34"





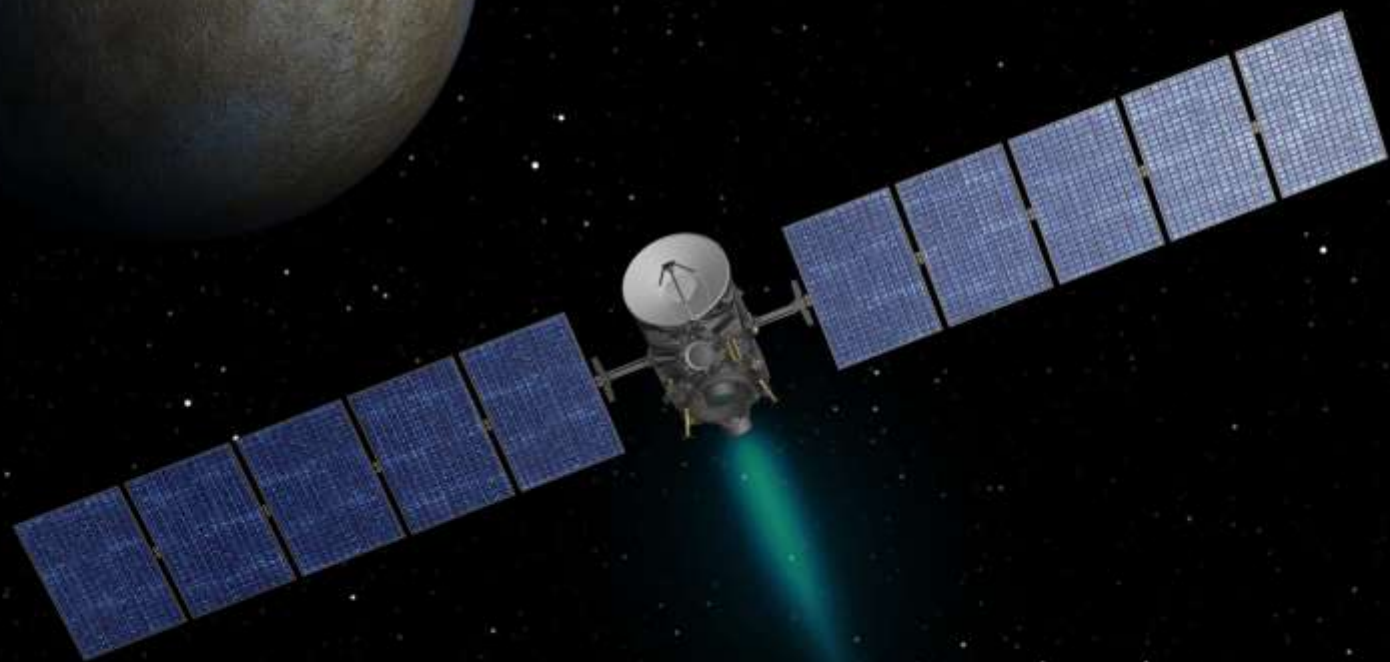
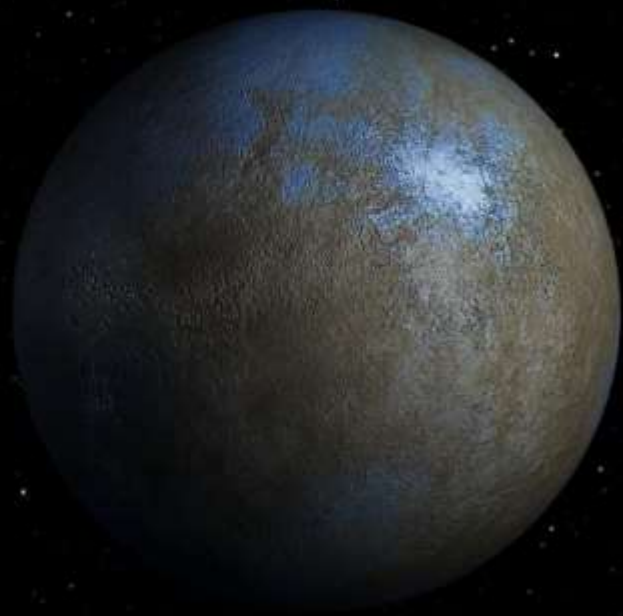


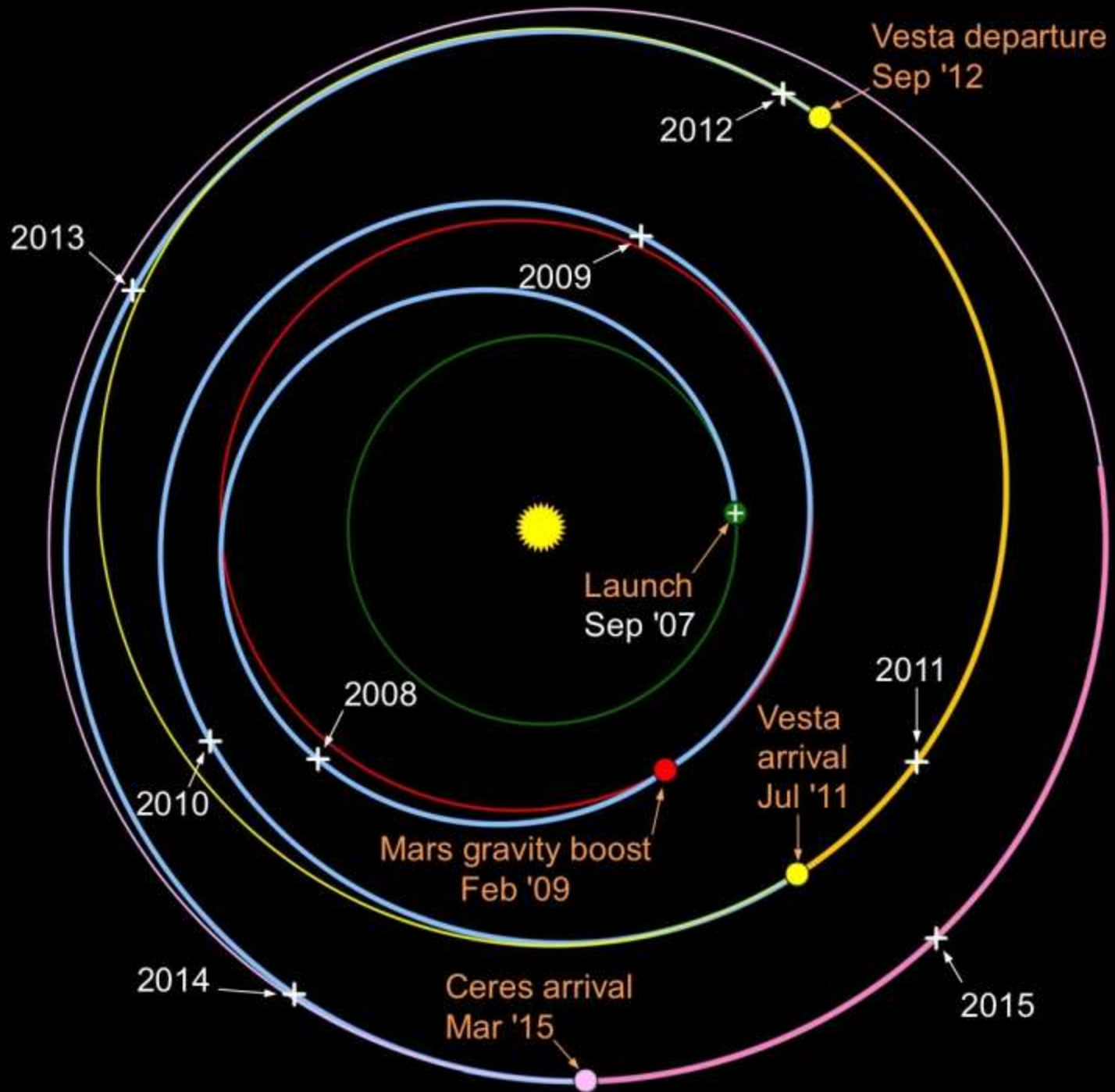


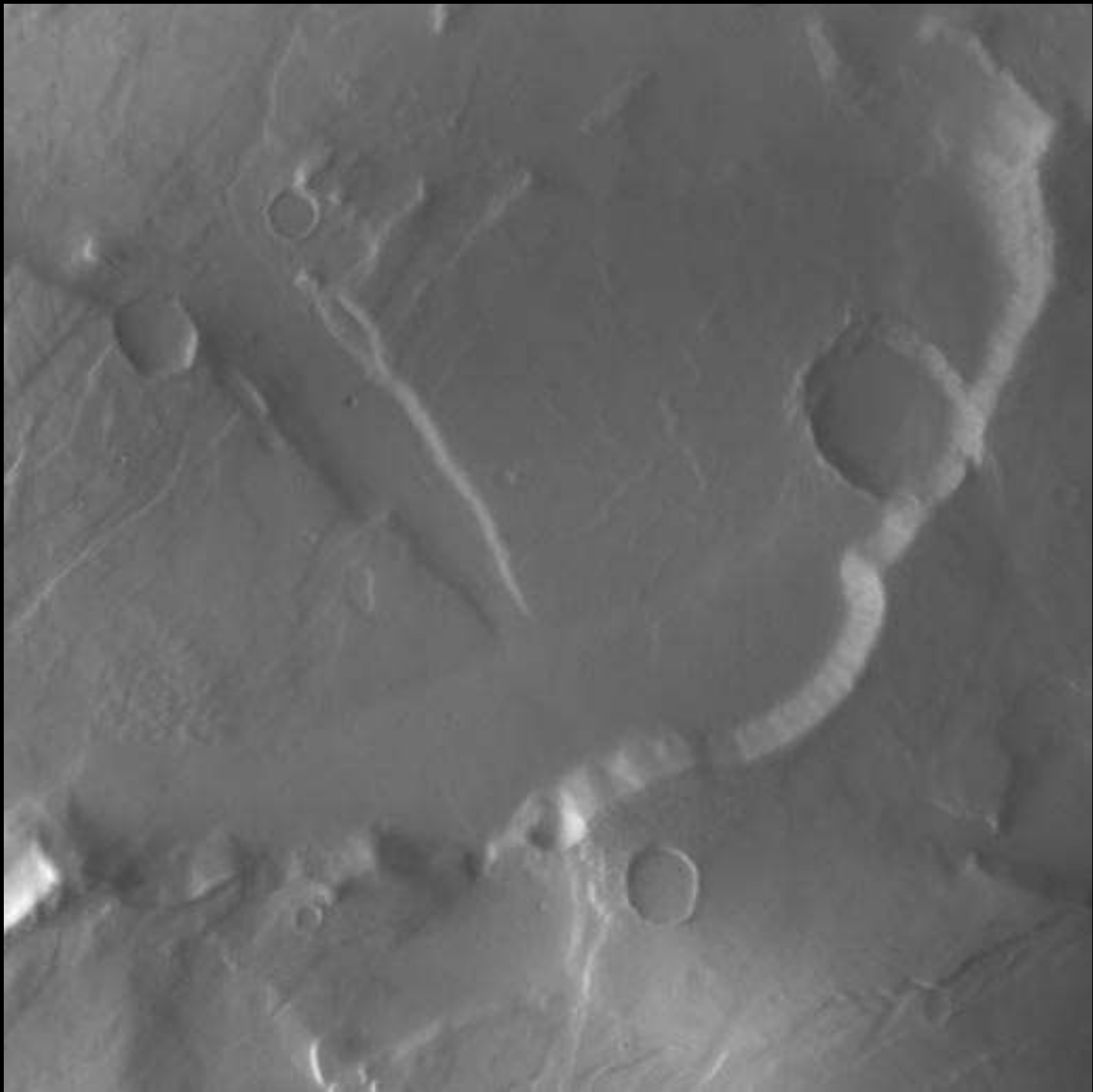




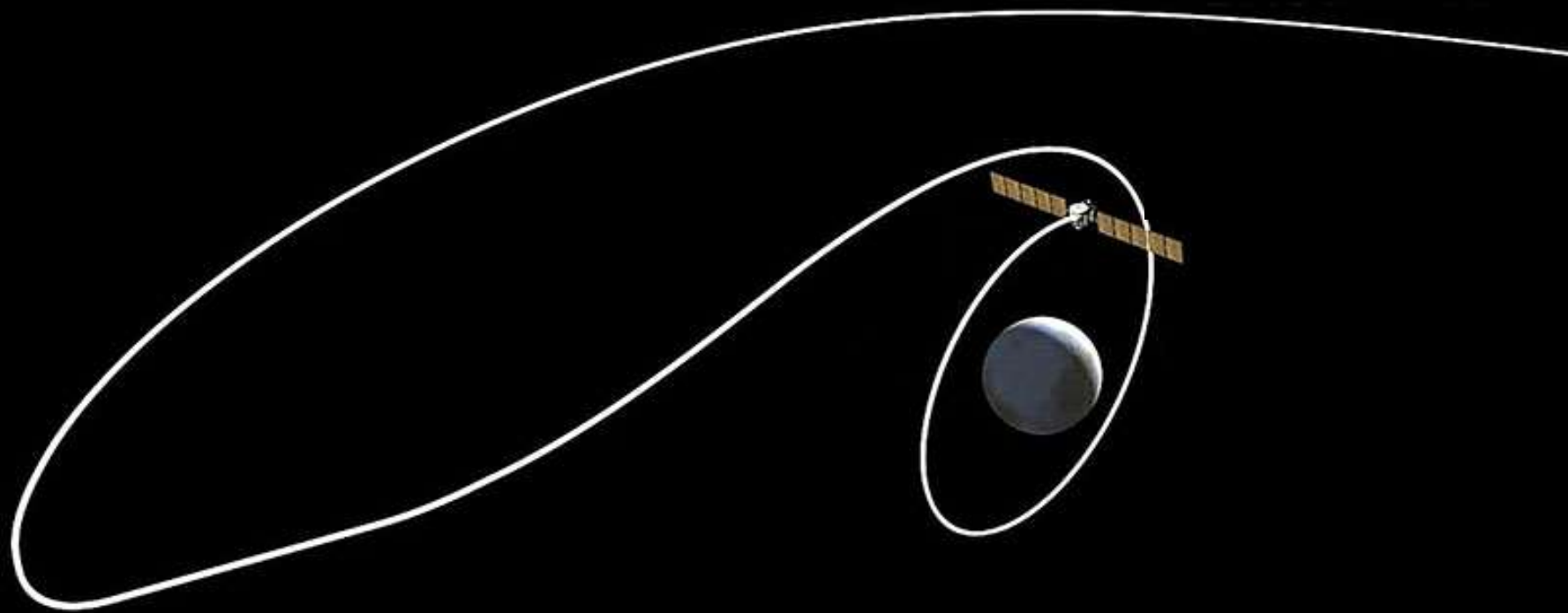




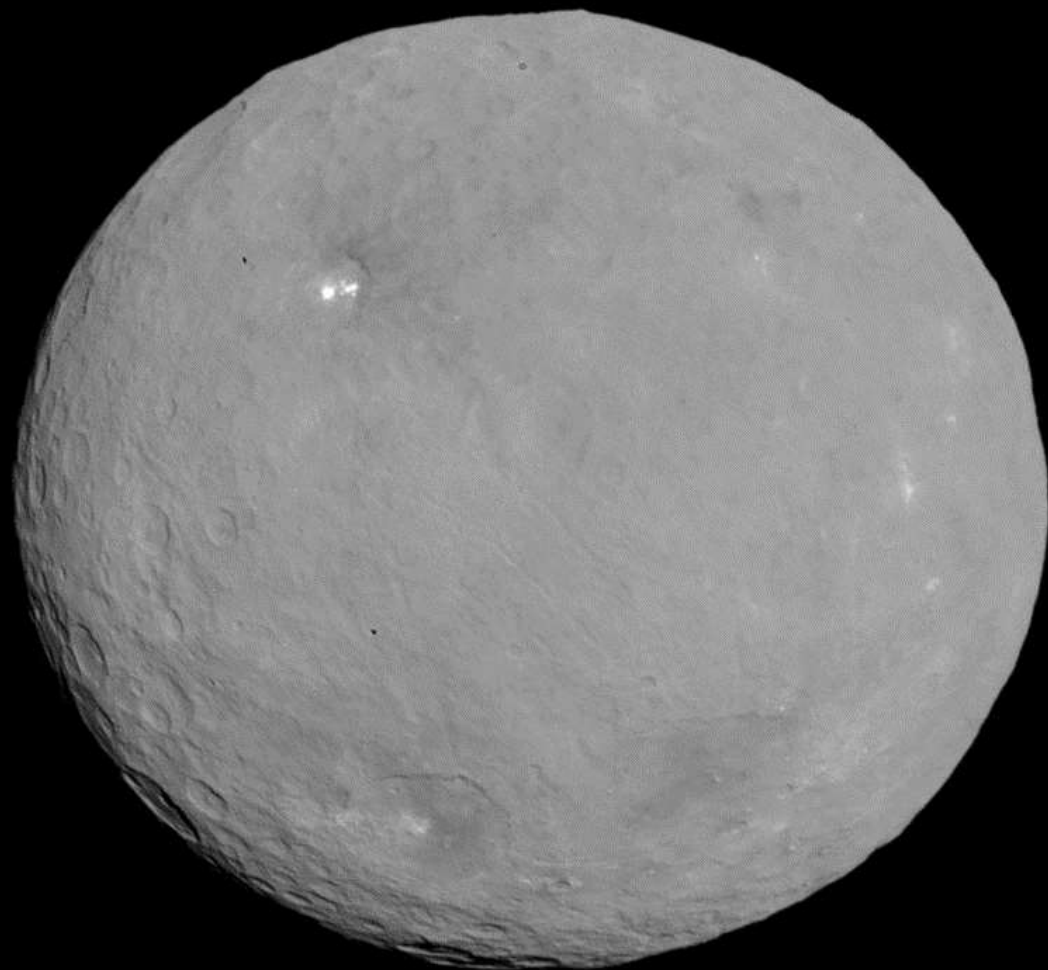






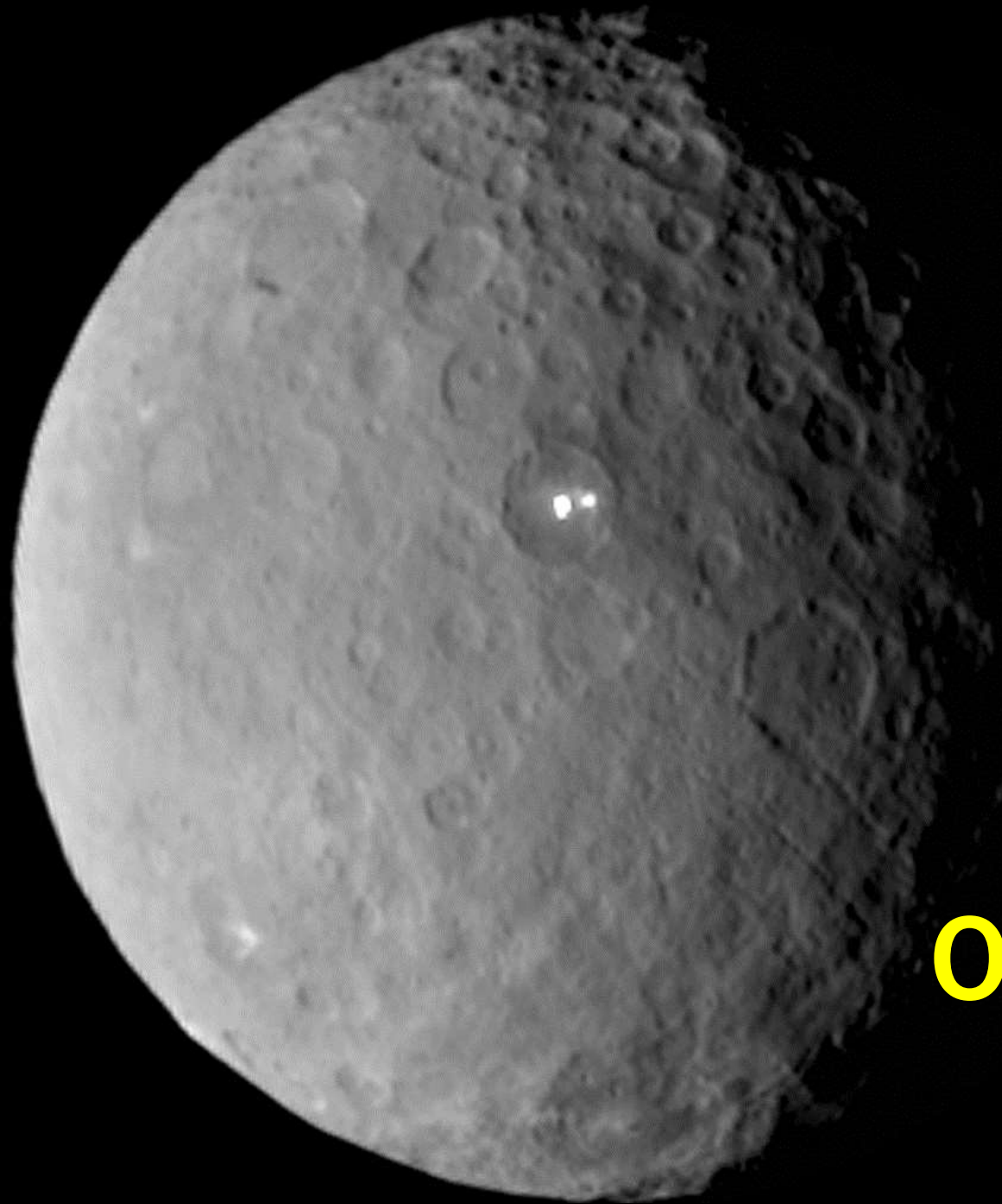












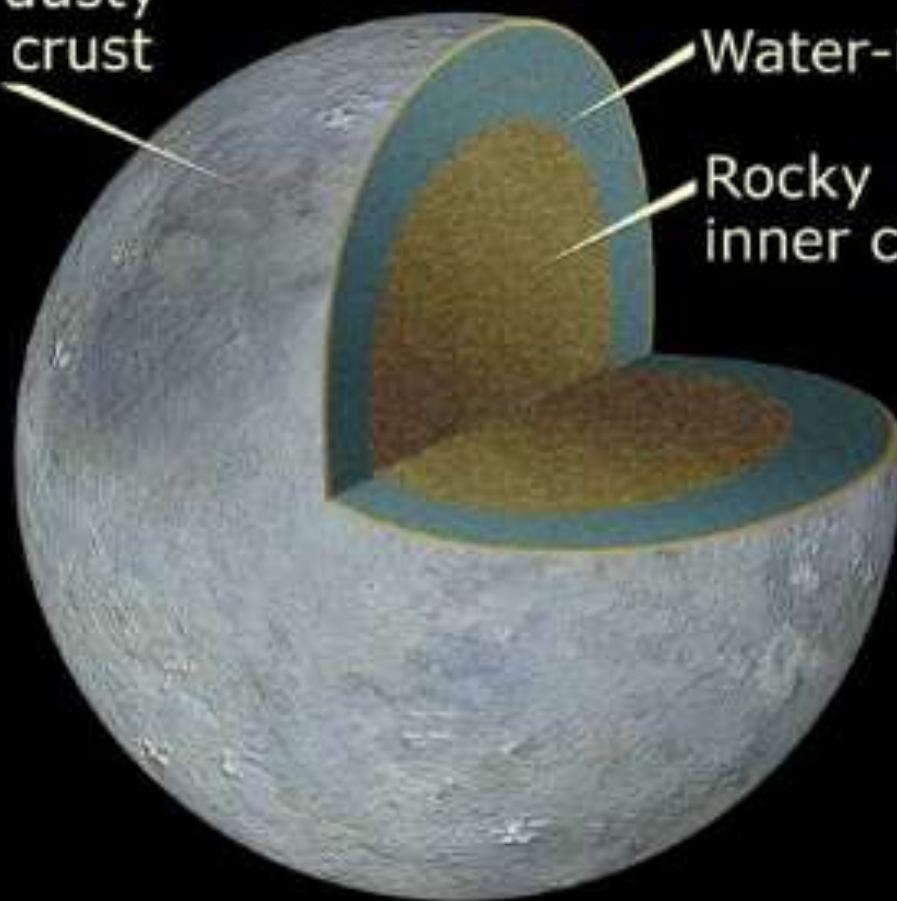
OCCATOR

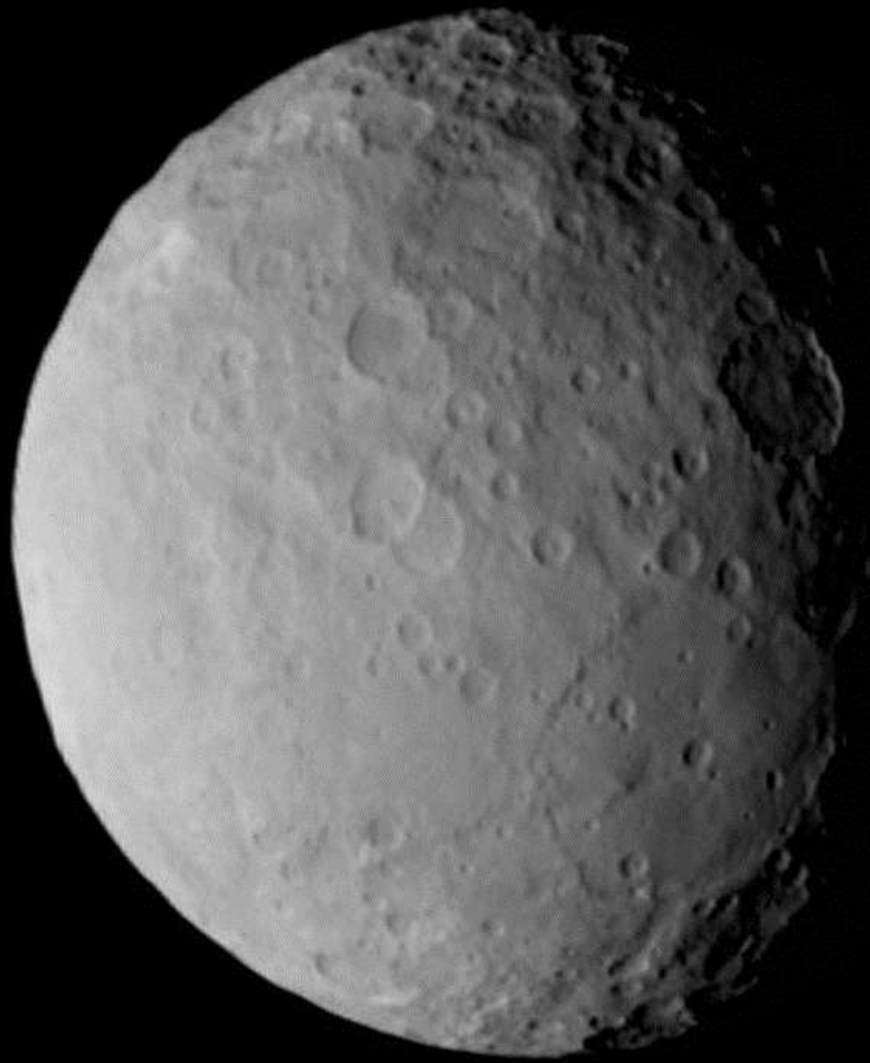
Ceres' layers

Thin, dusty
outer crust

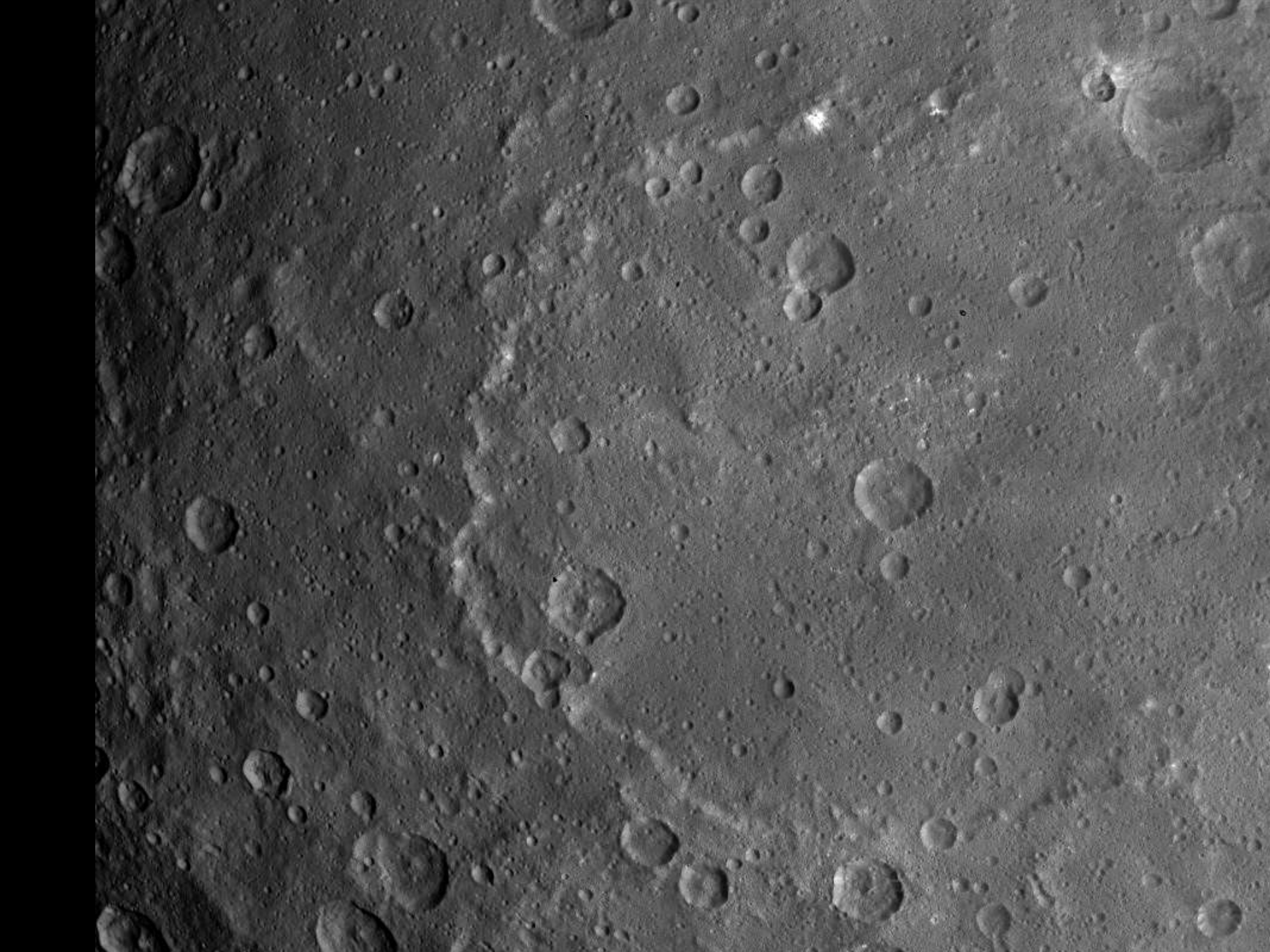
Water-ice layer

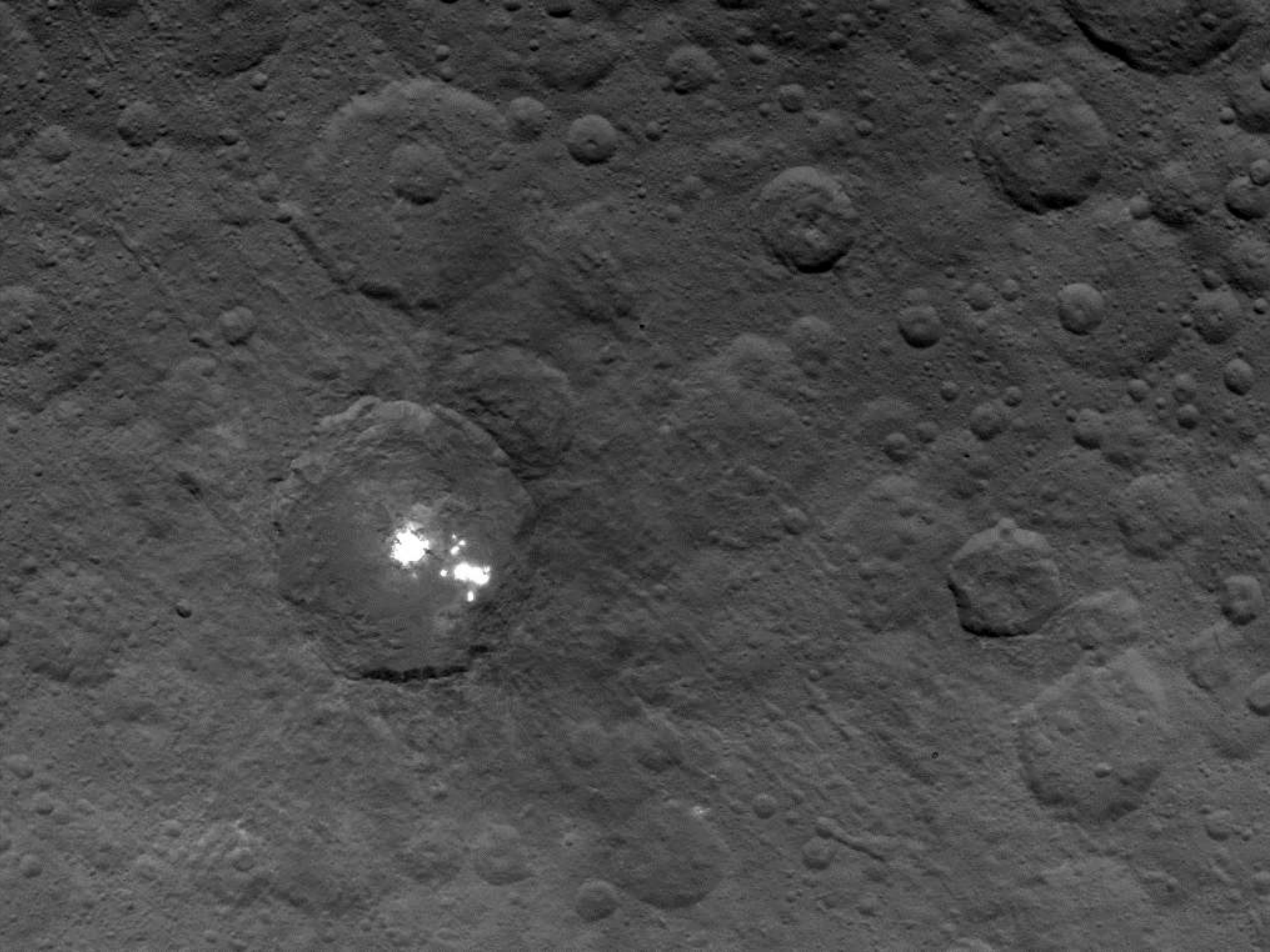
Rocky
inner core

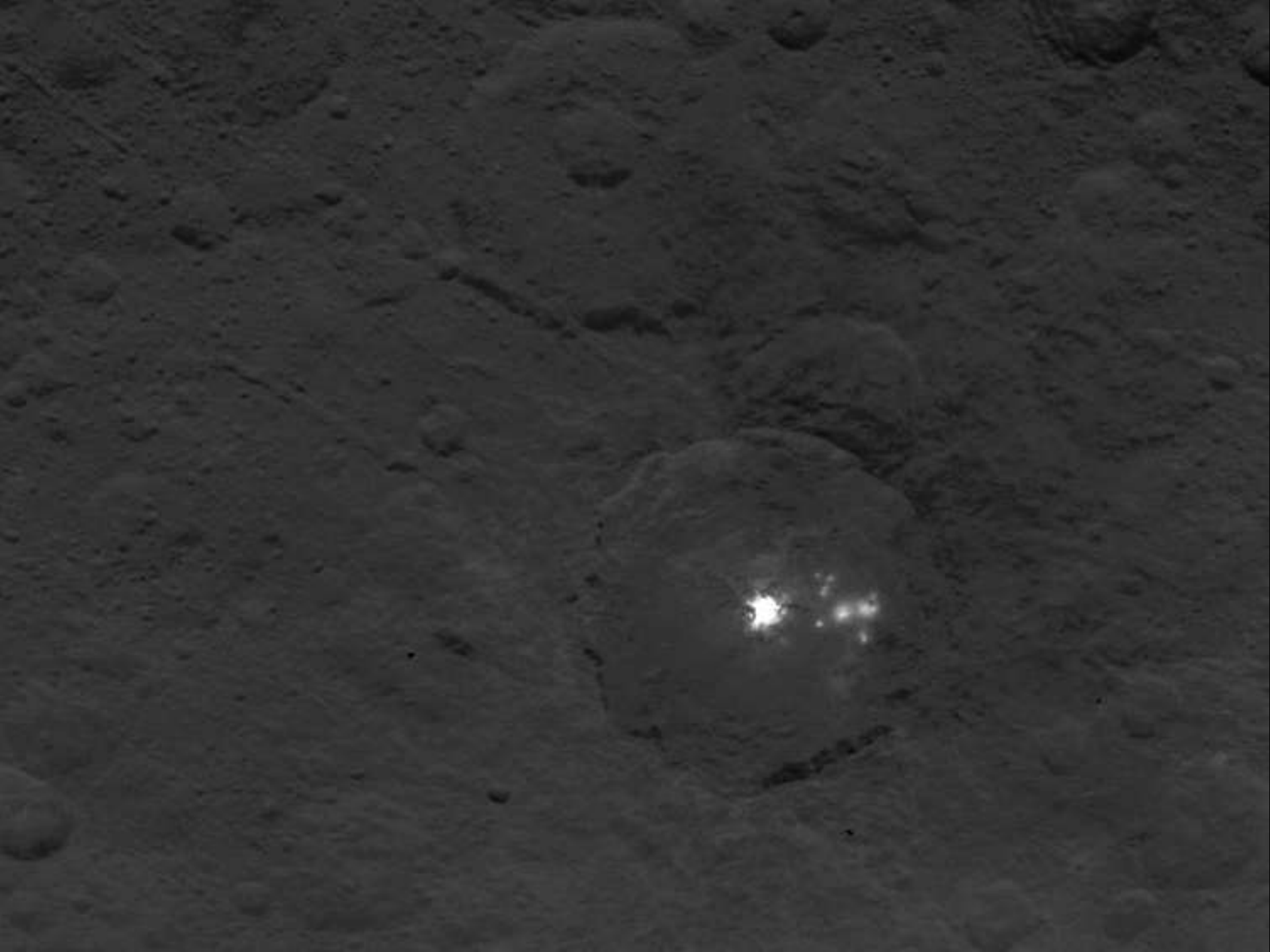


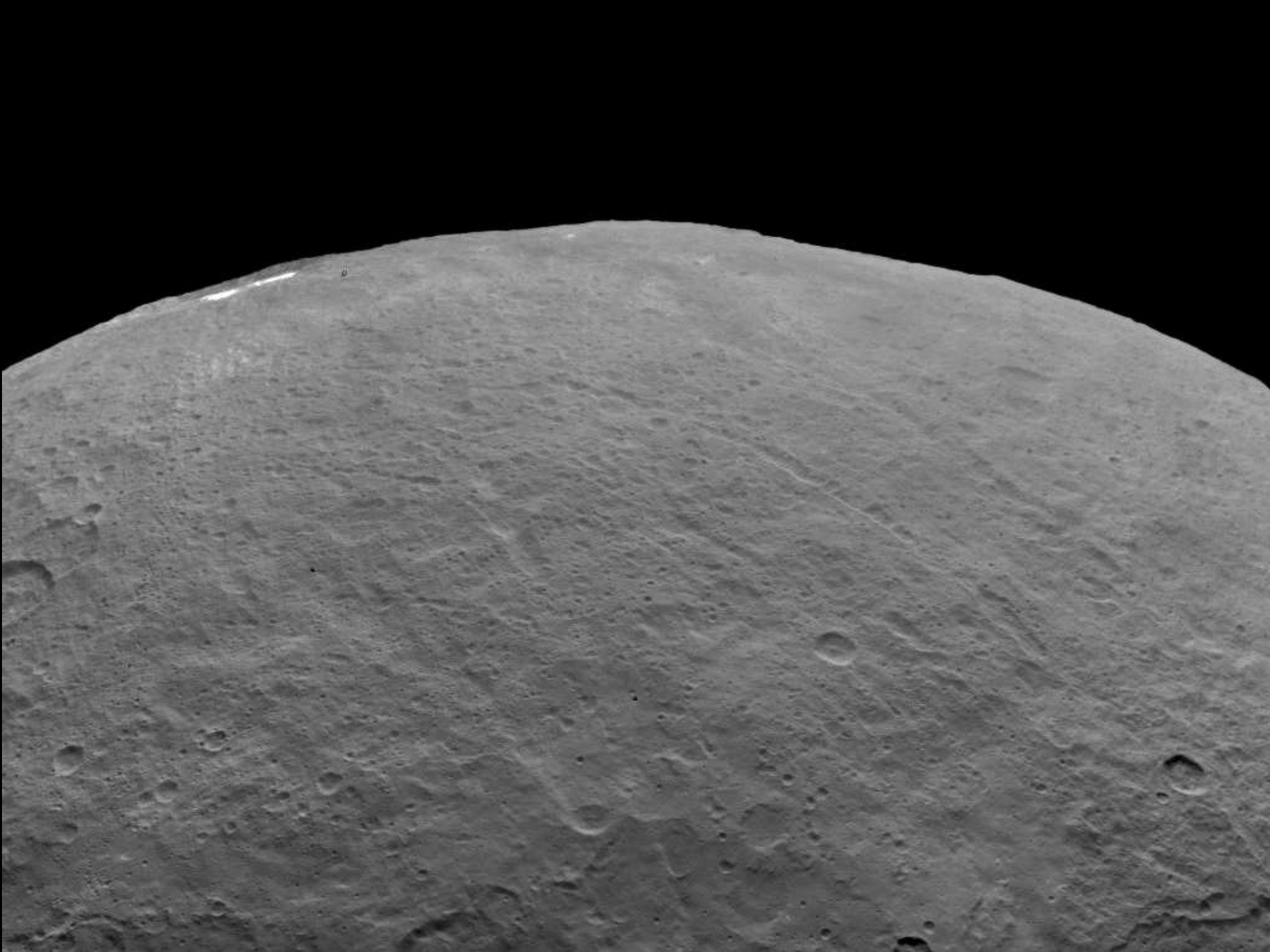


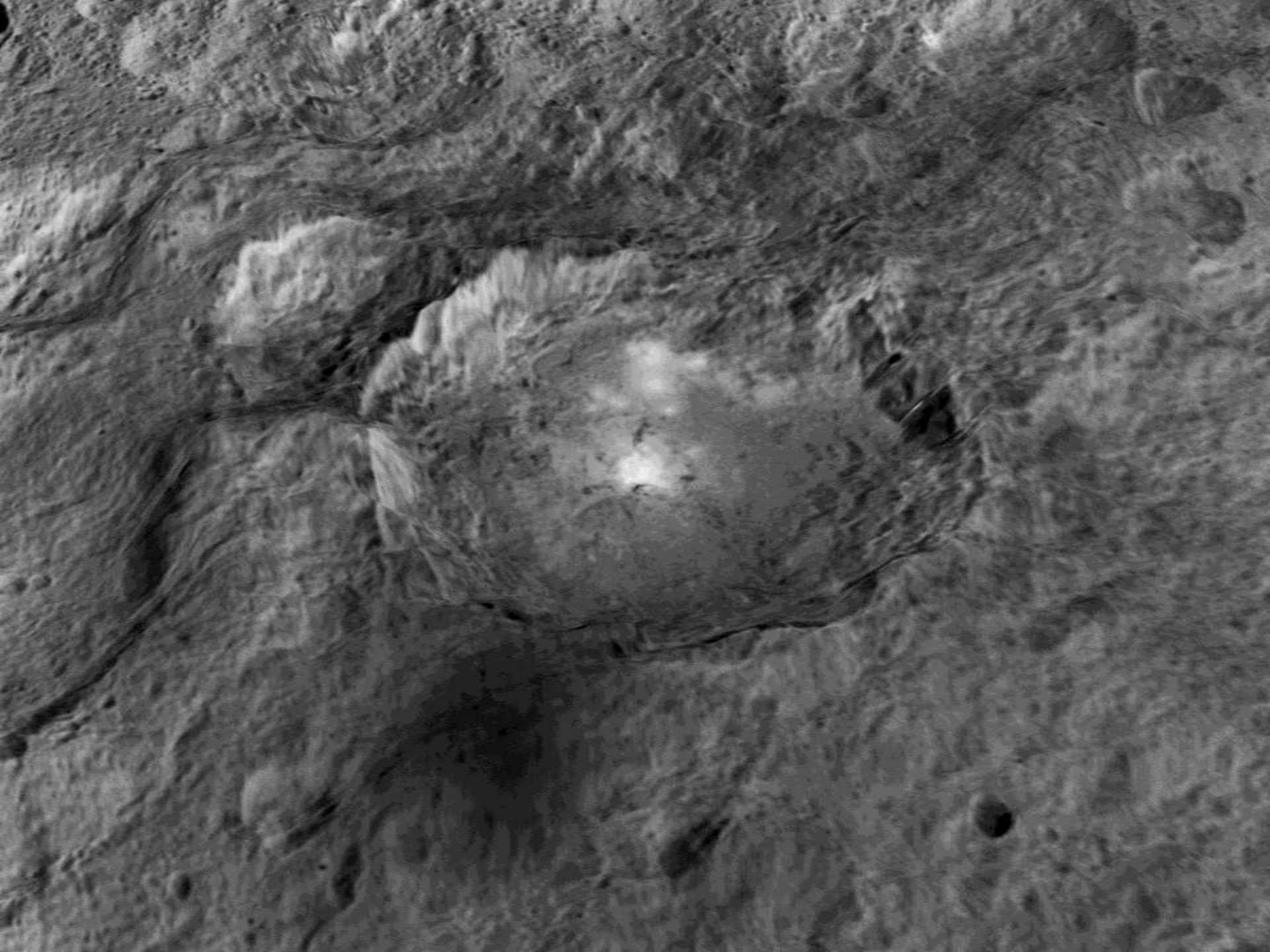
KERWAN

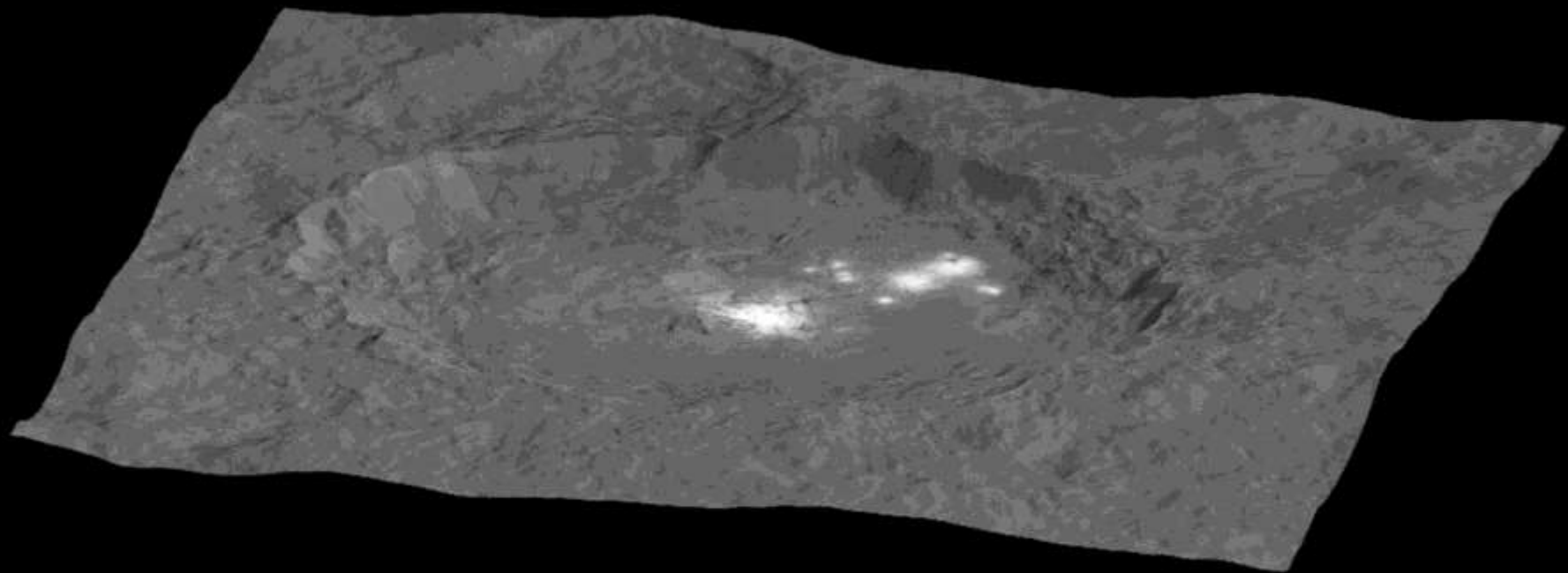


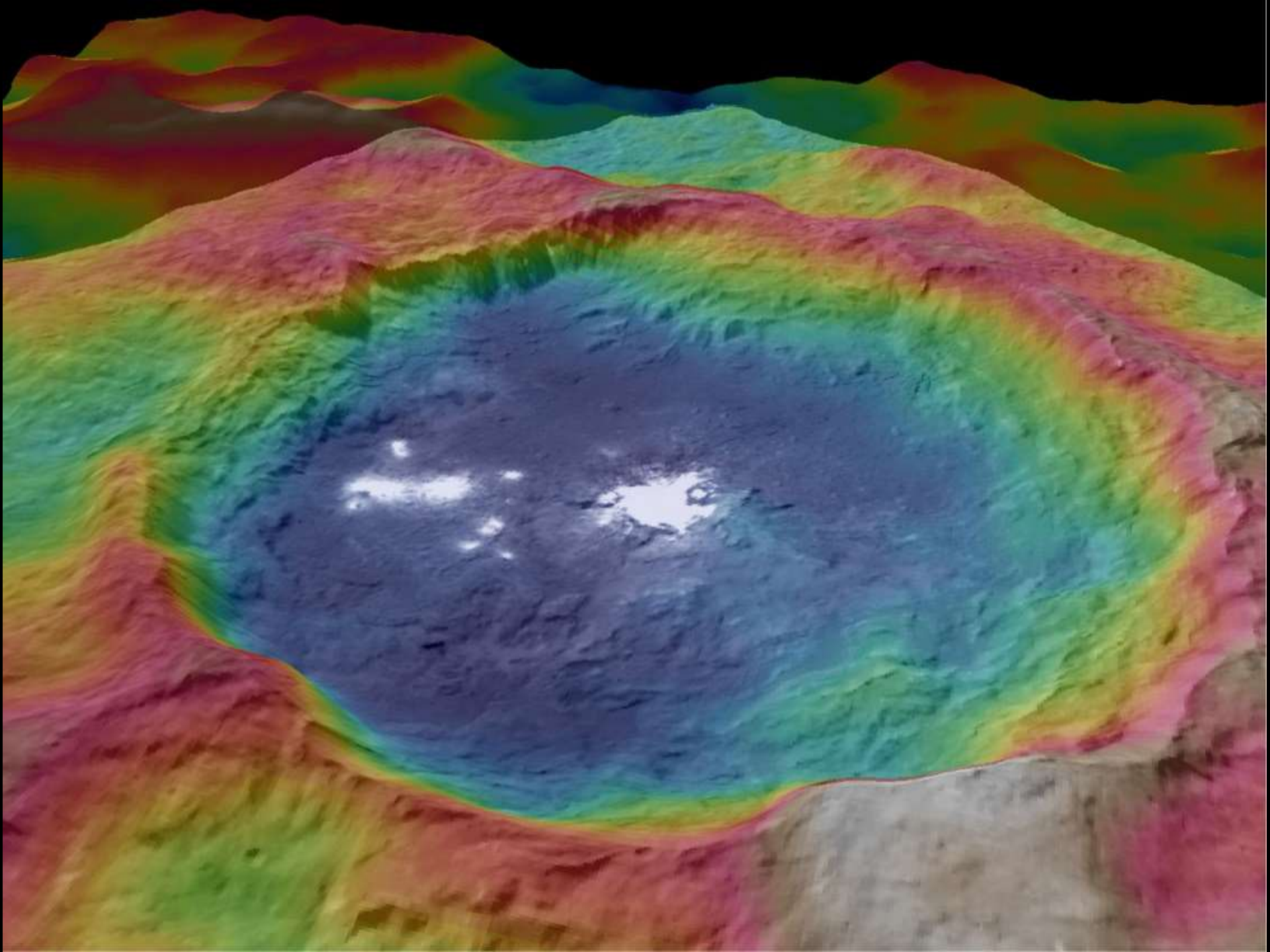


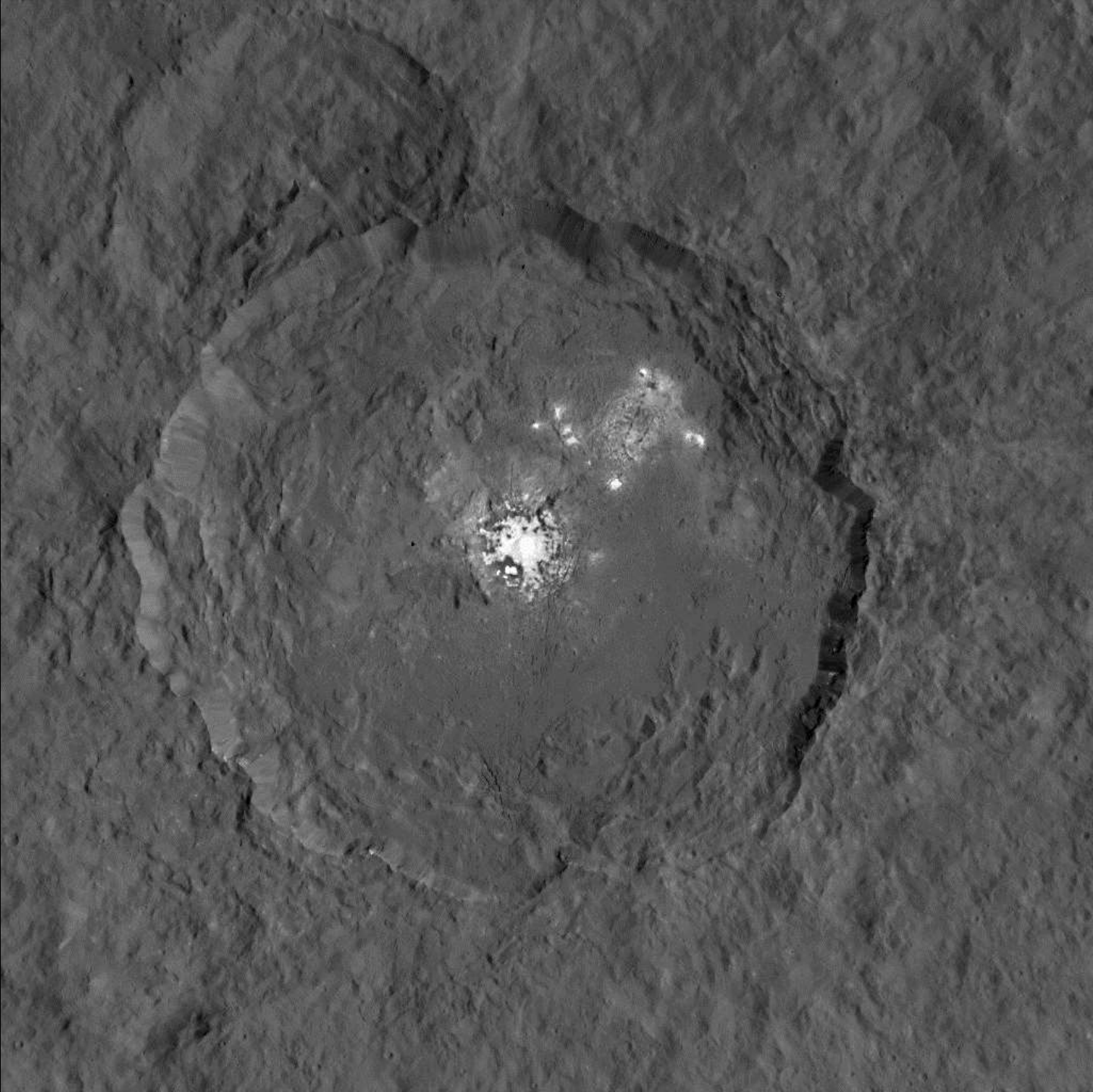


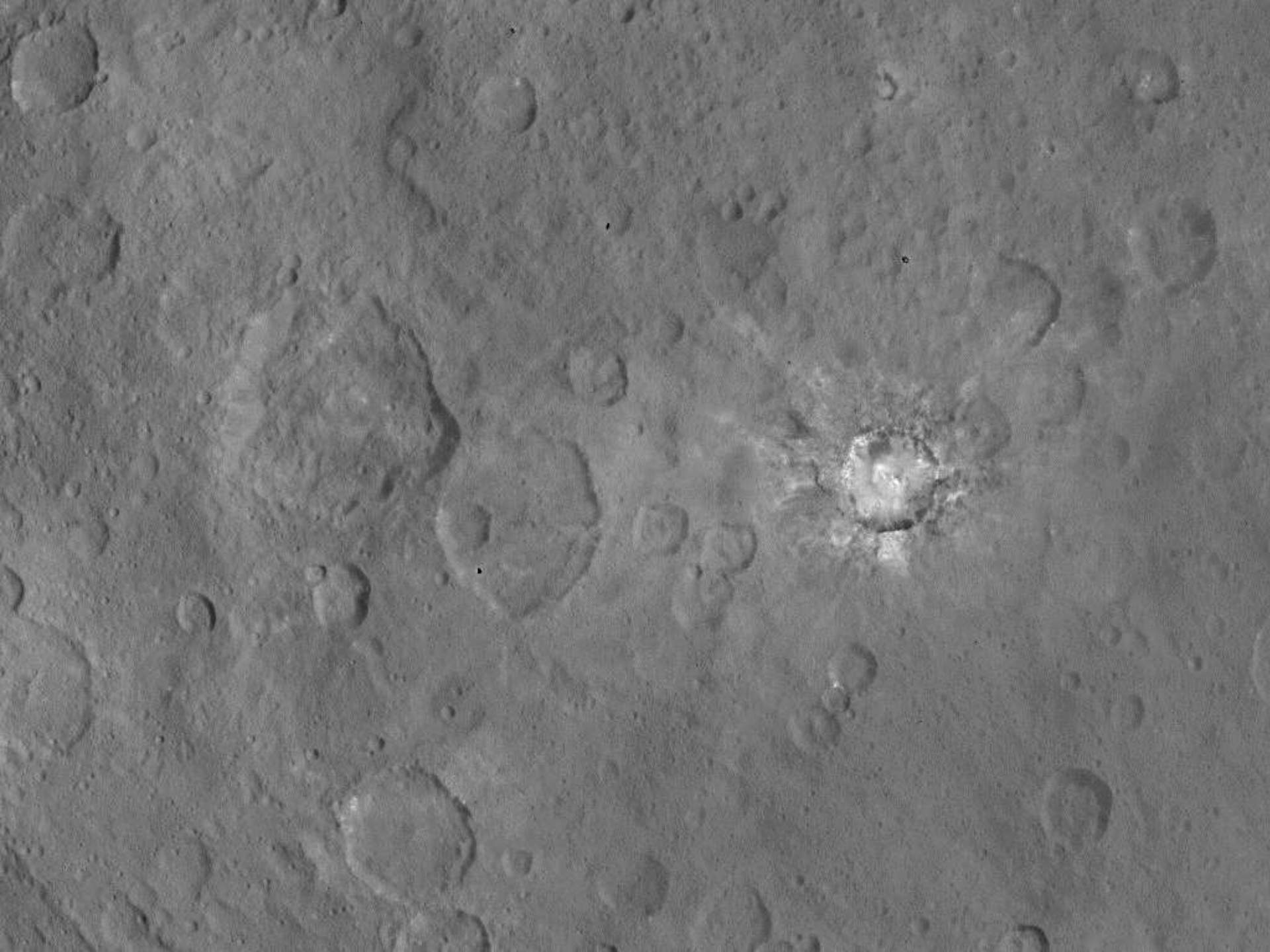






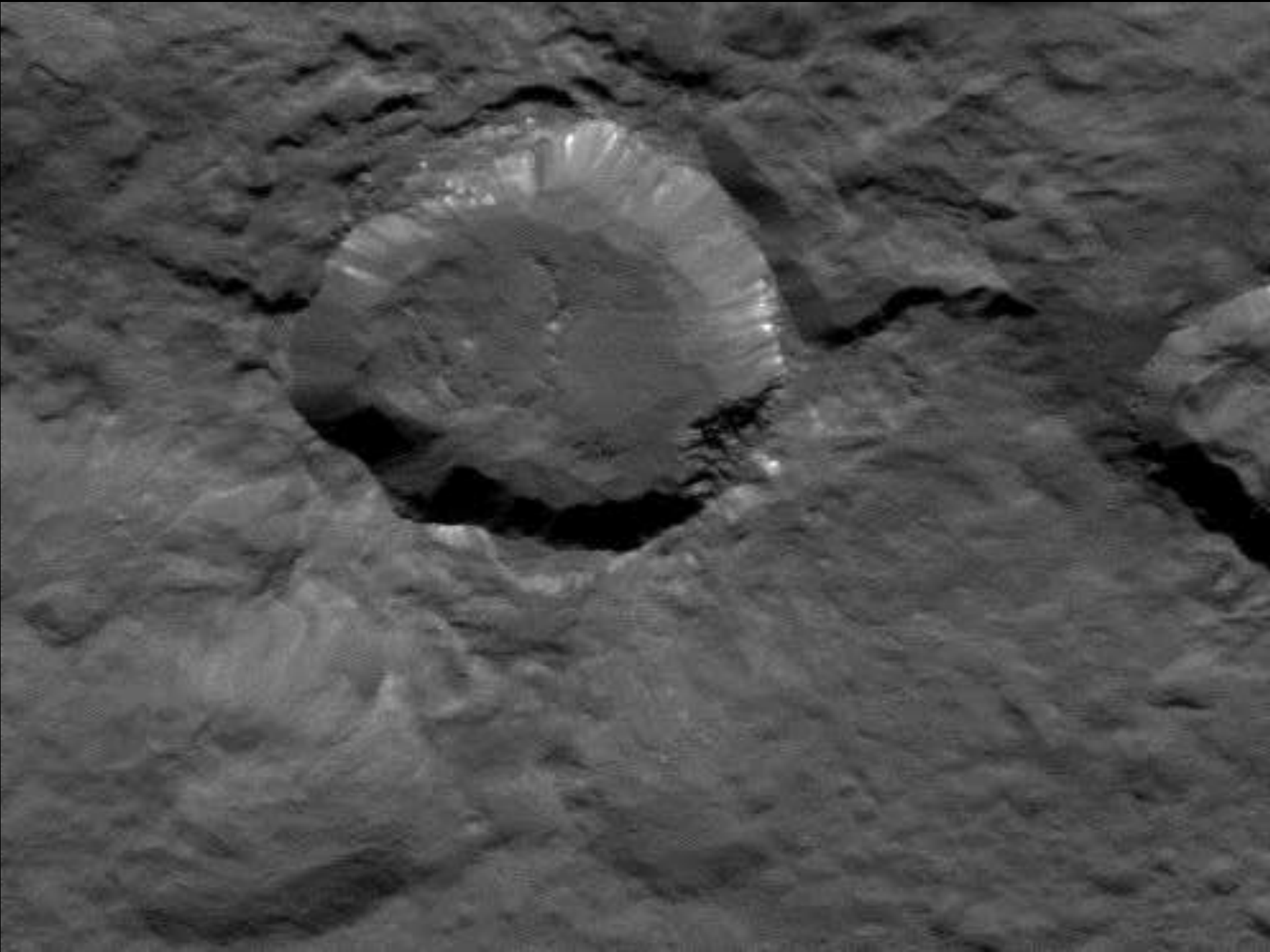




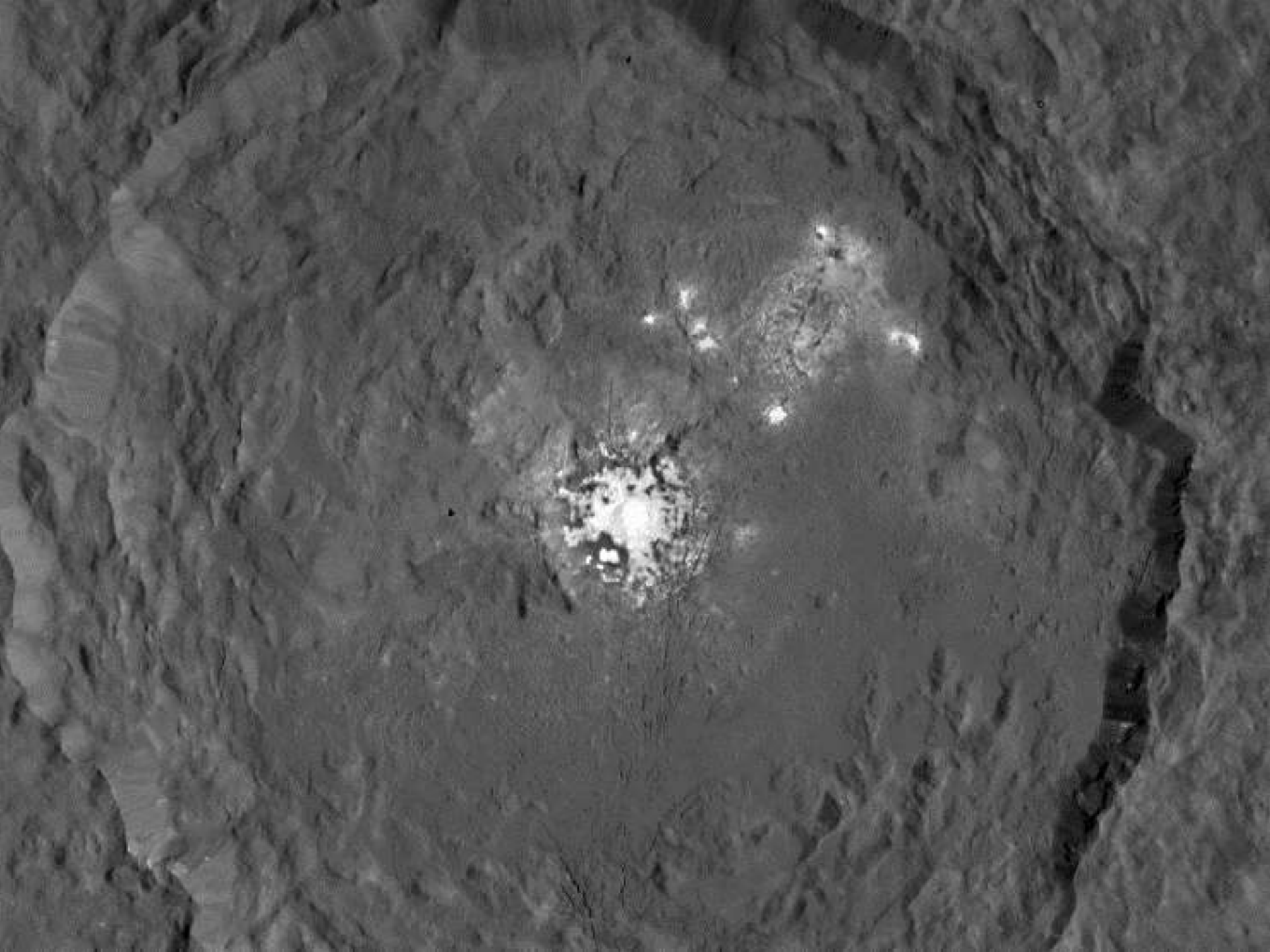




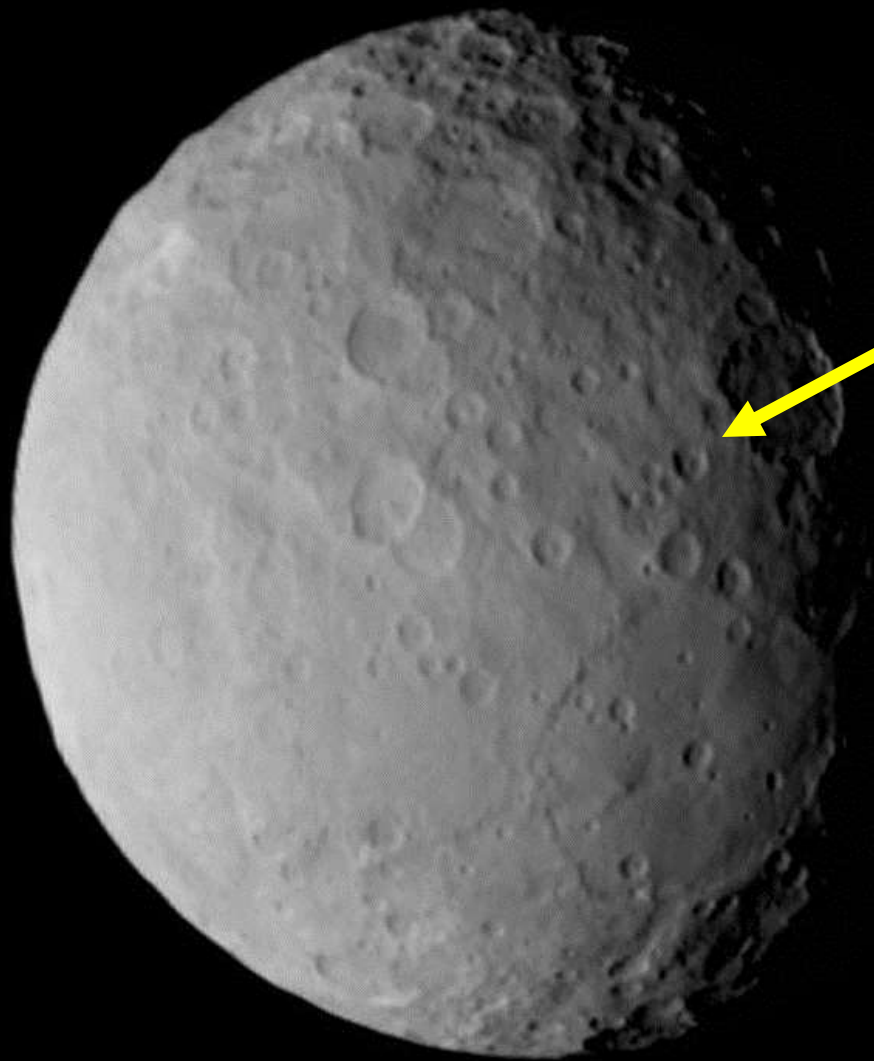




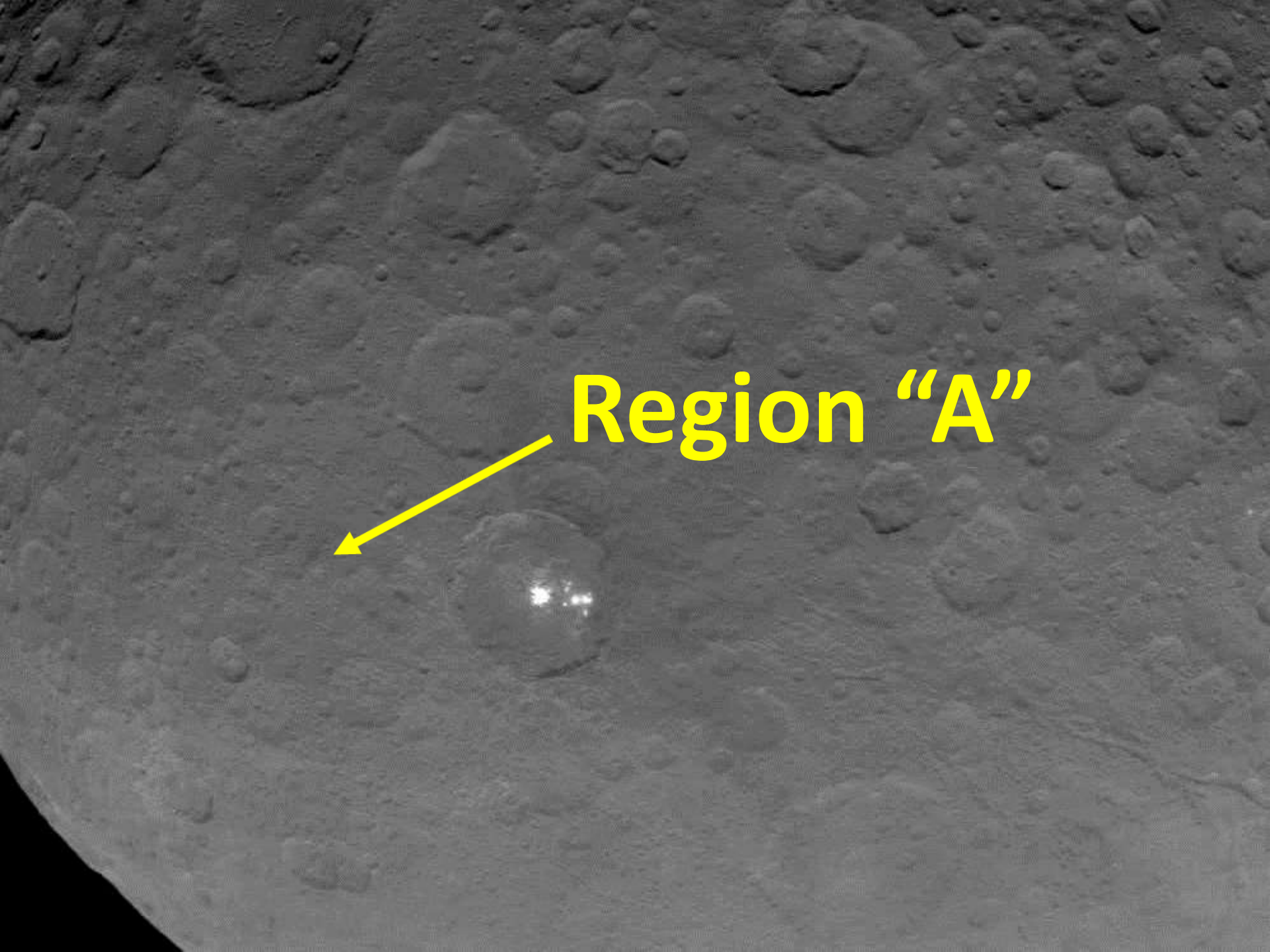






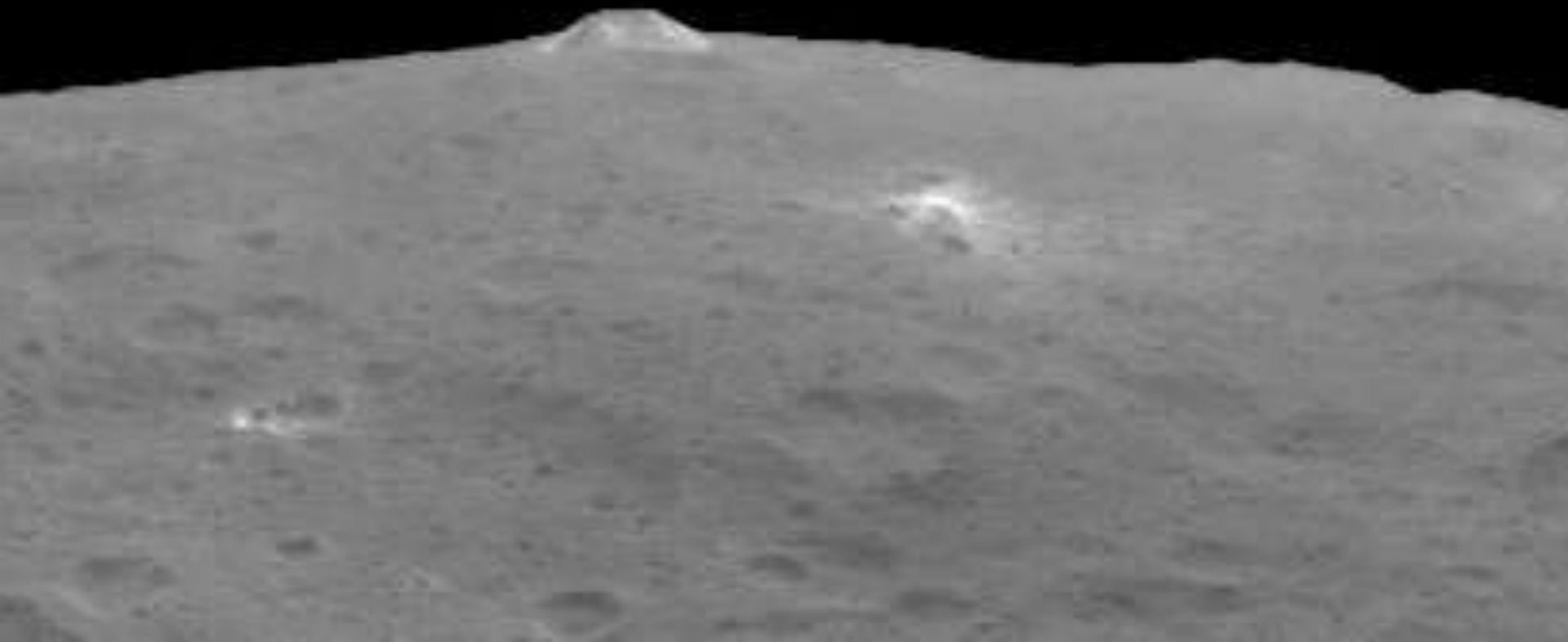


Piazzini

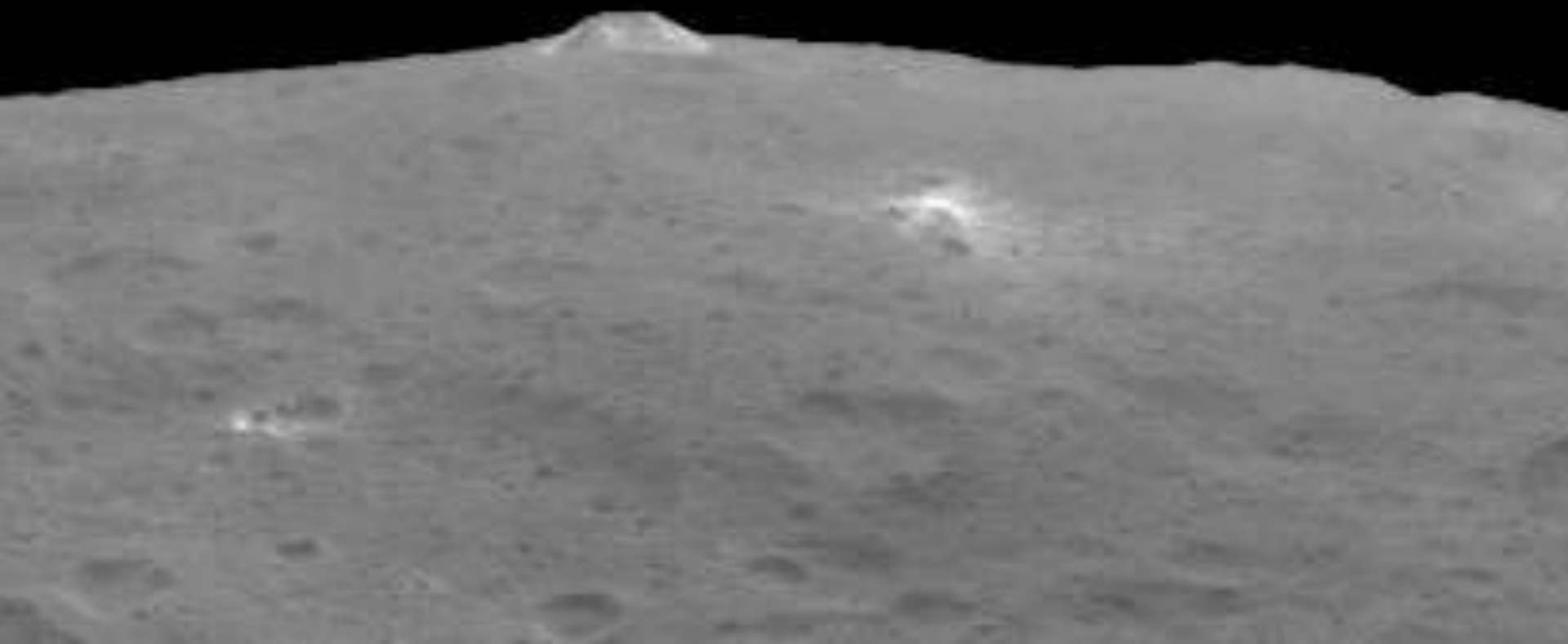


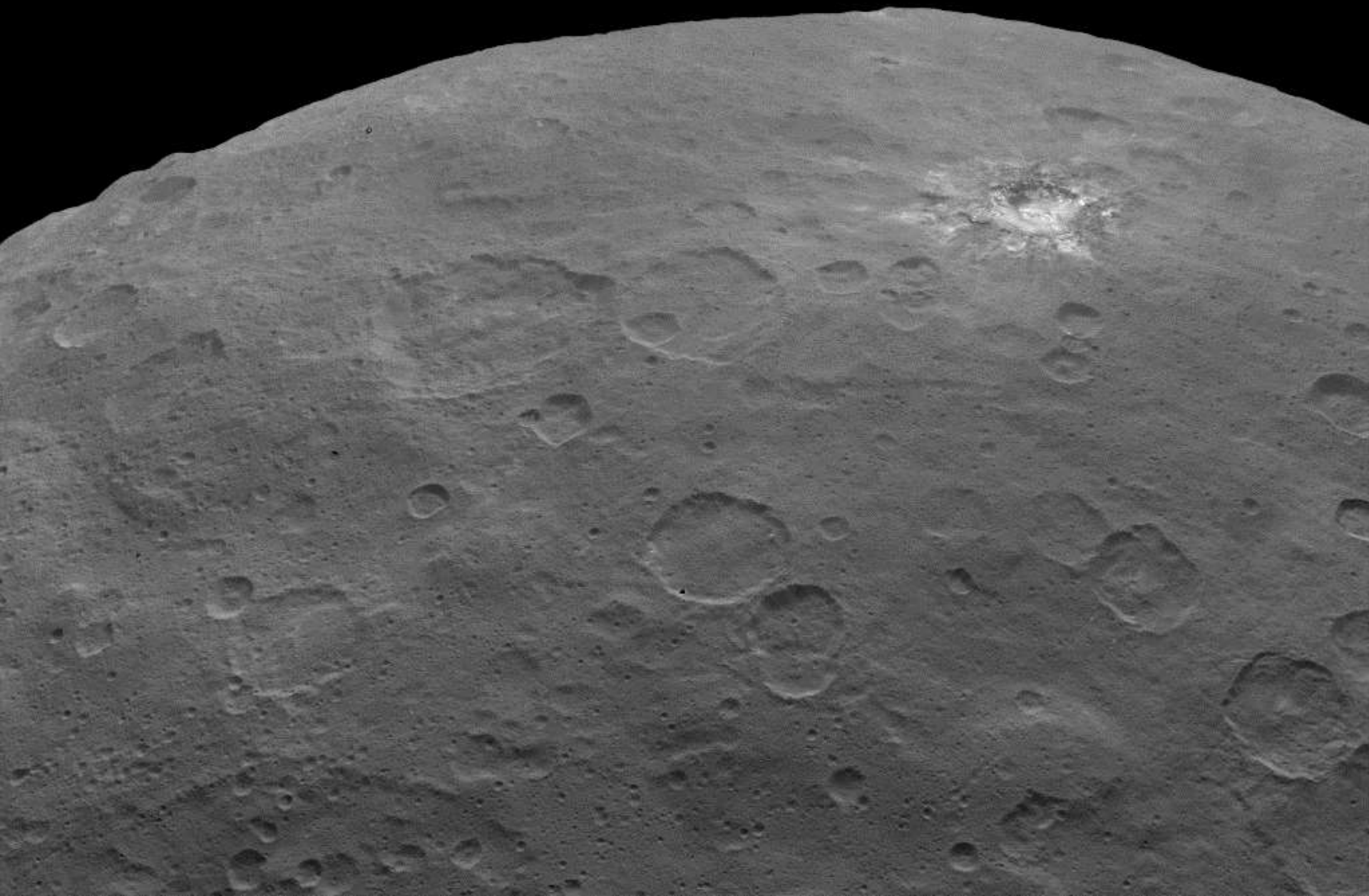
Region "A"

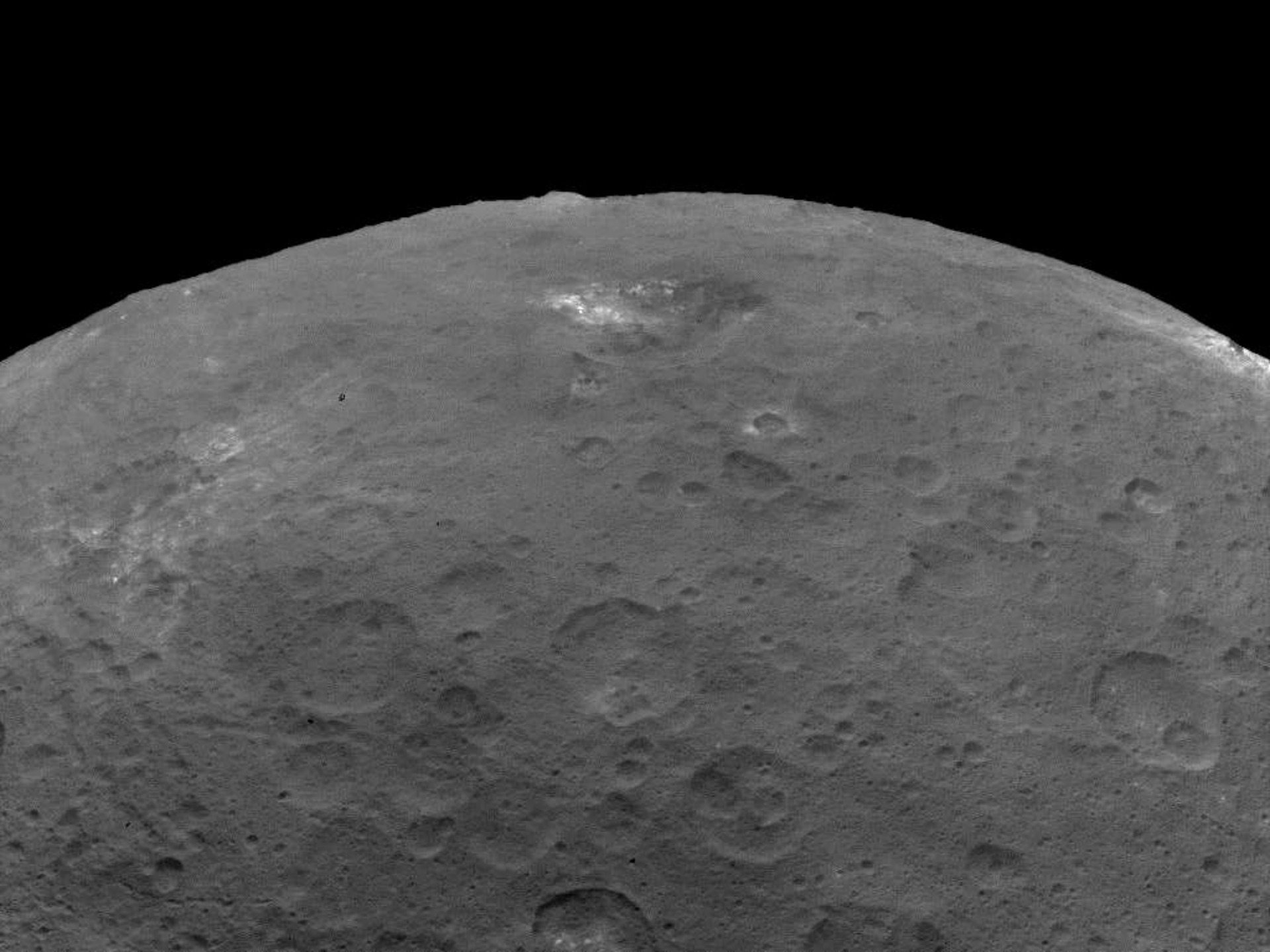
"EREBOR"
The Lonely Mountain



Ahuna Mons

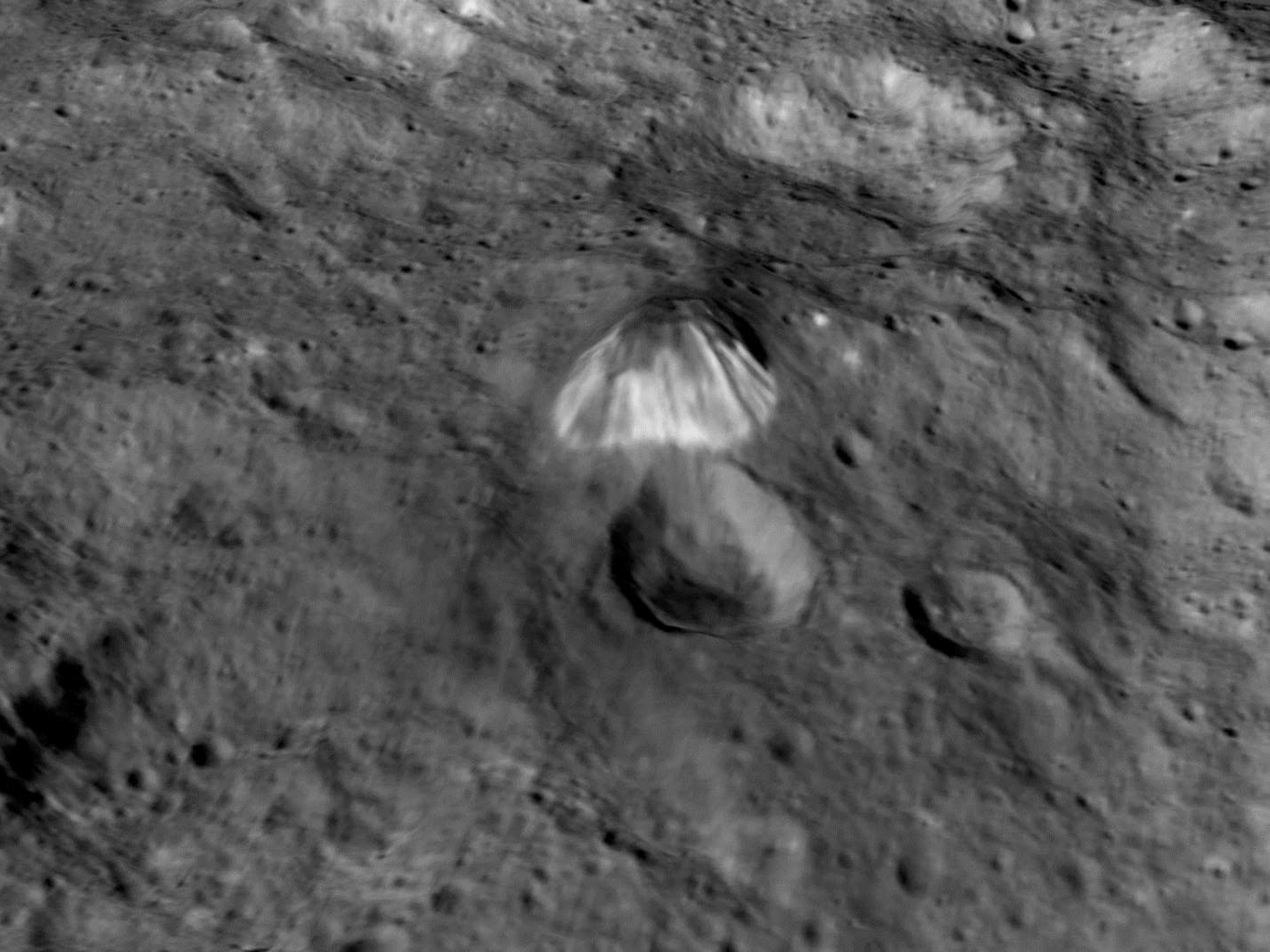






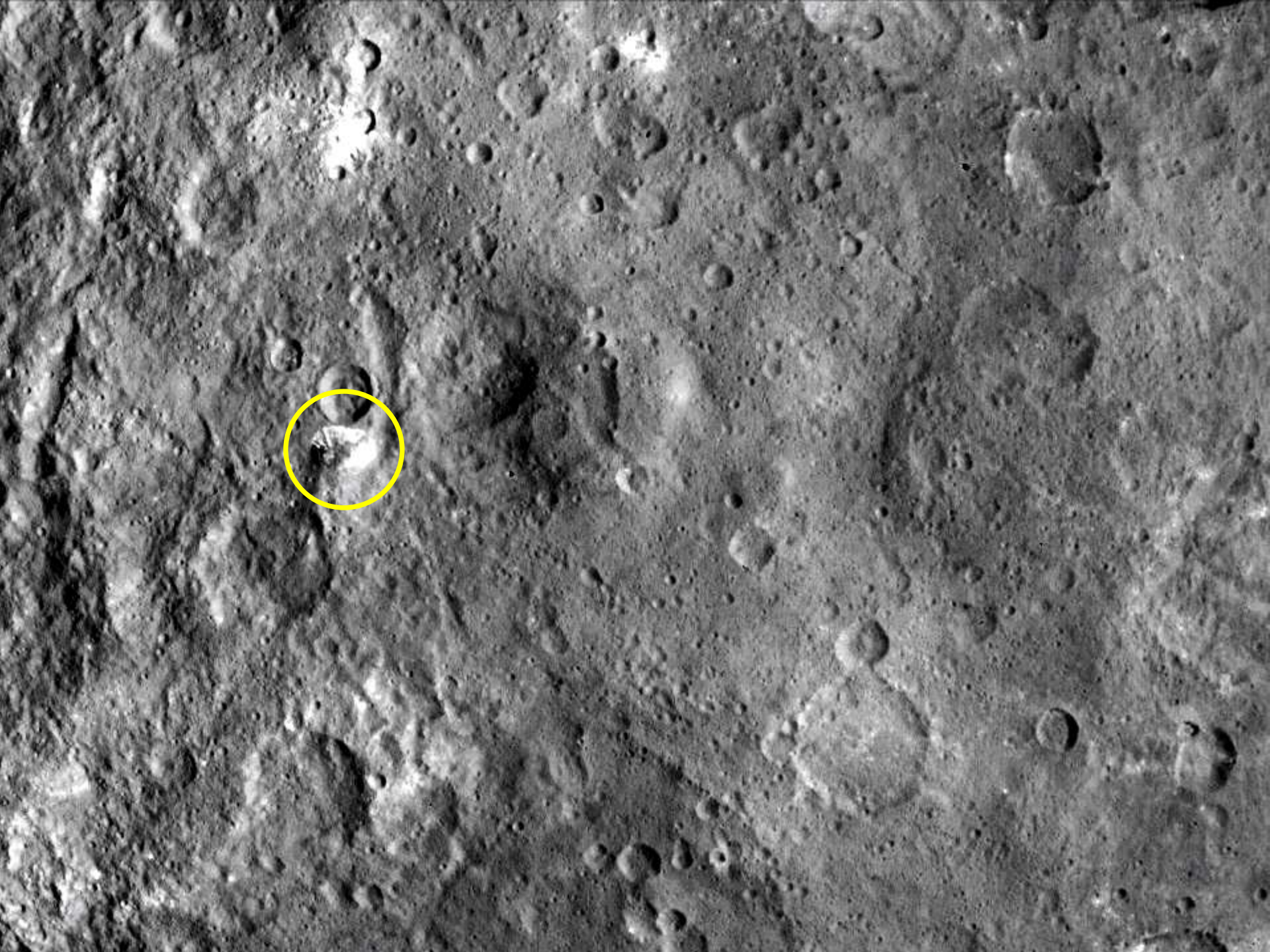


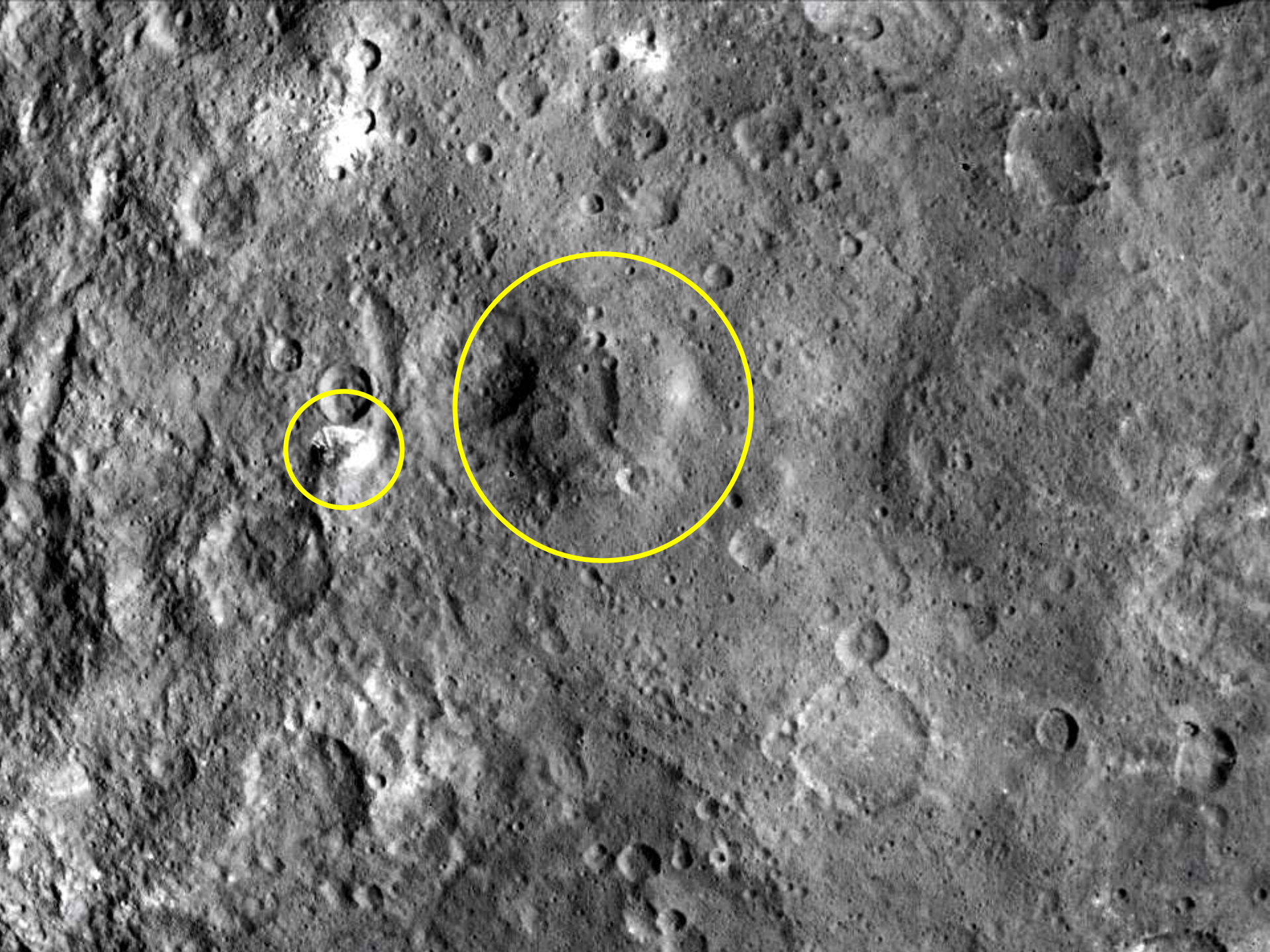


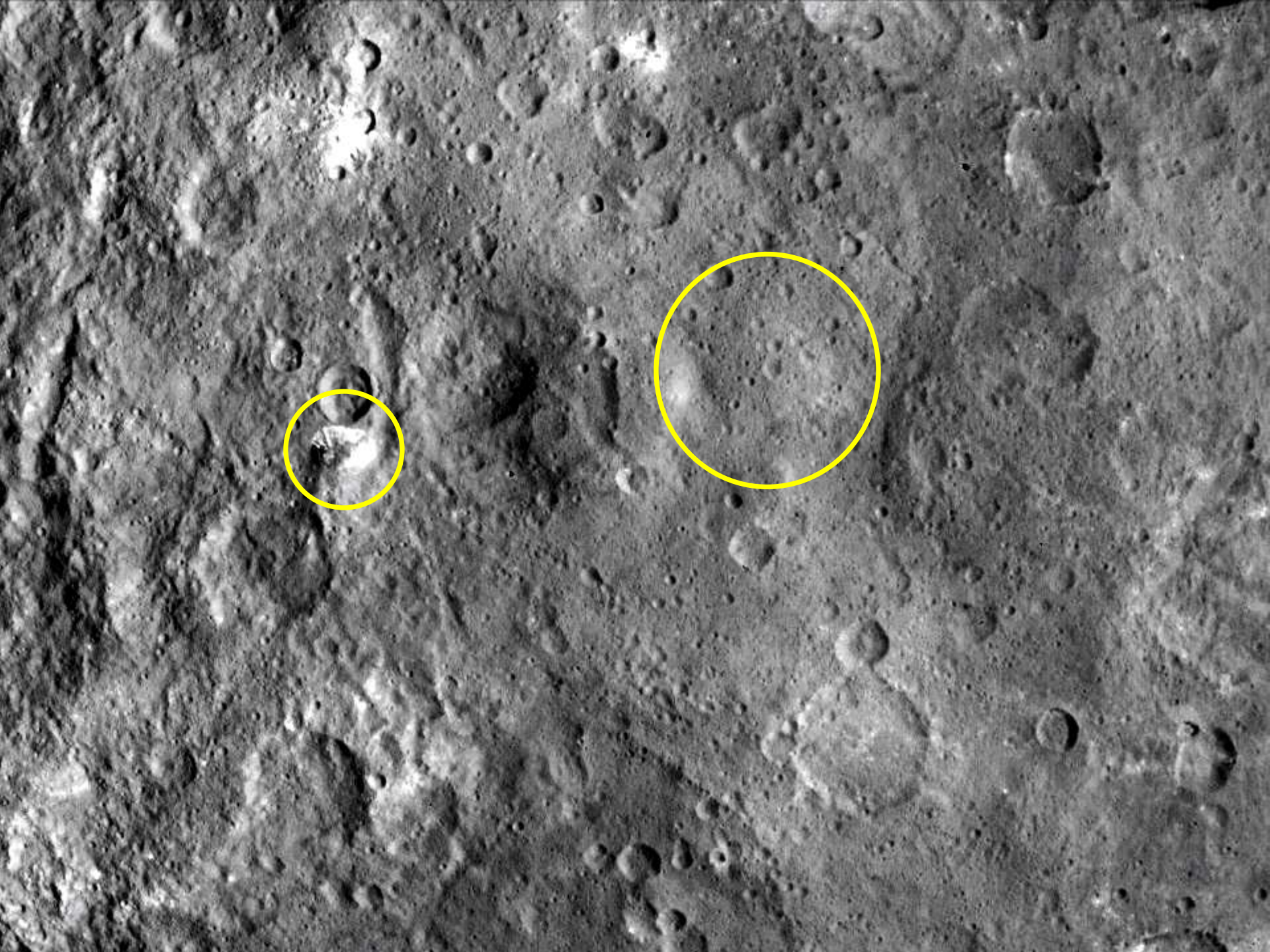


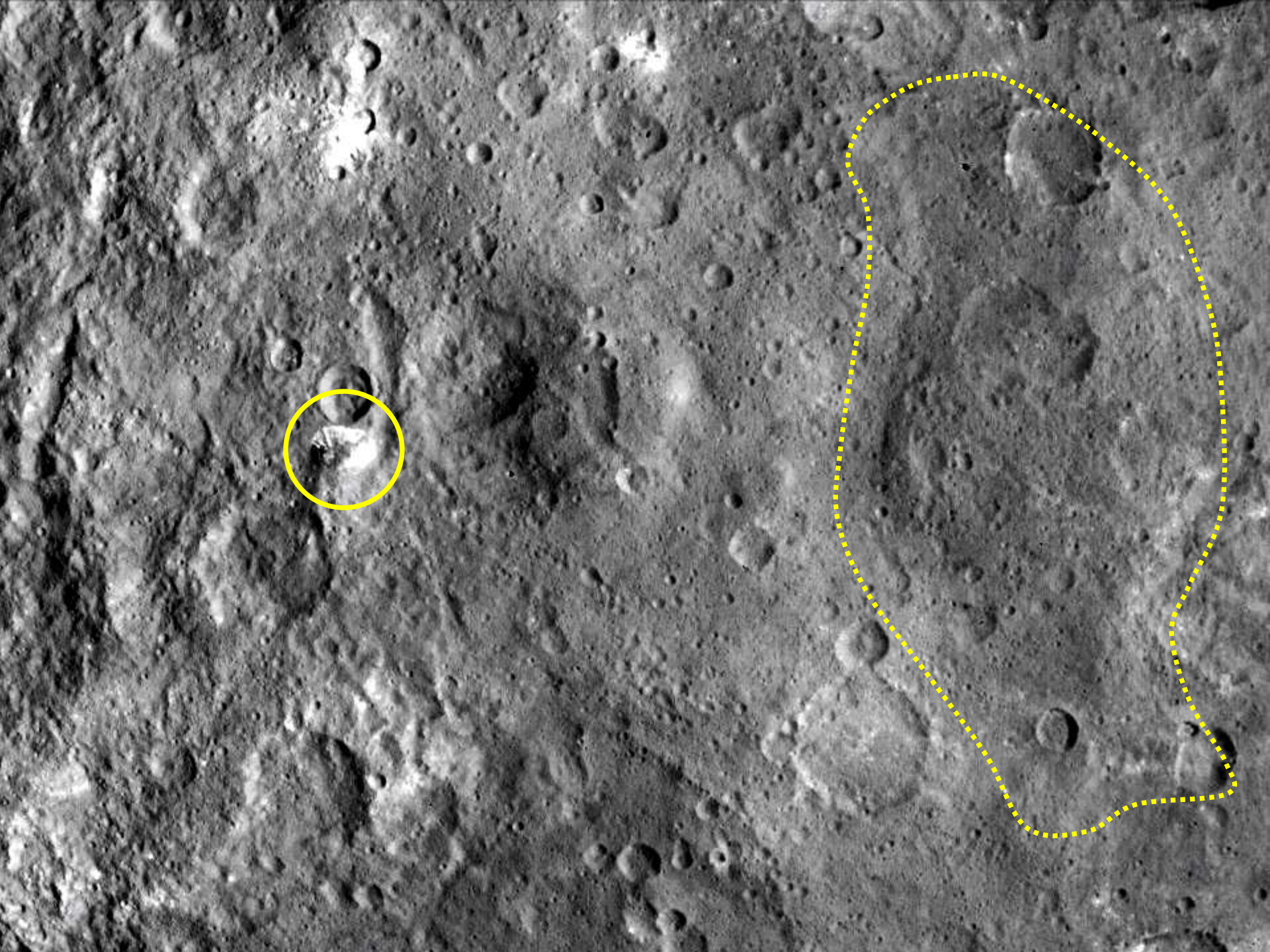


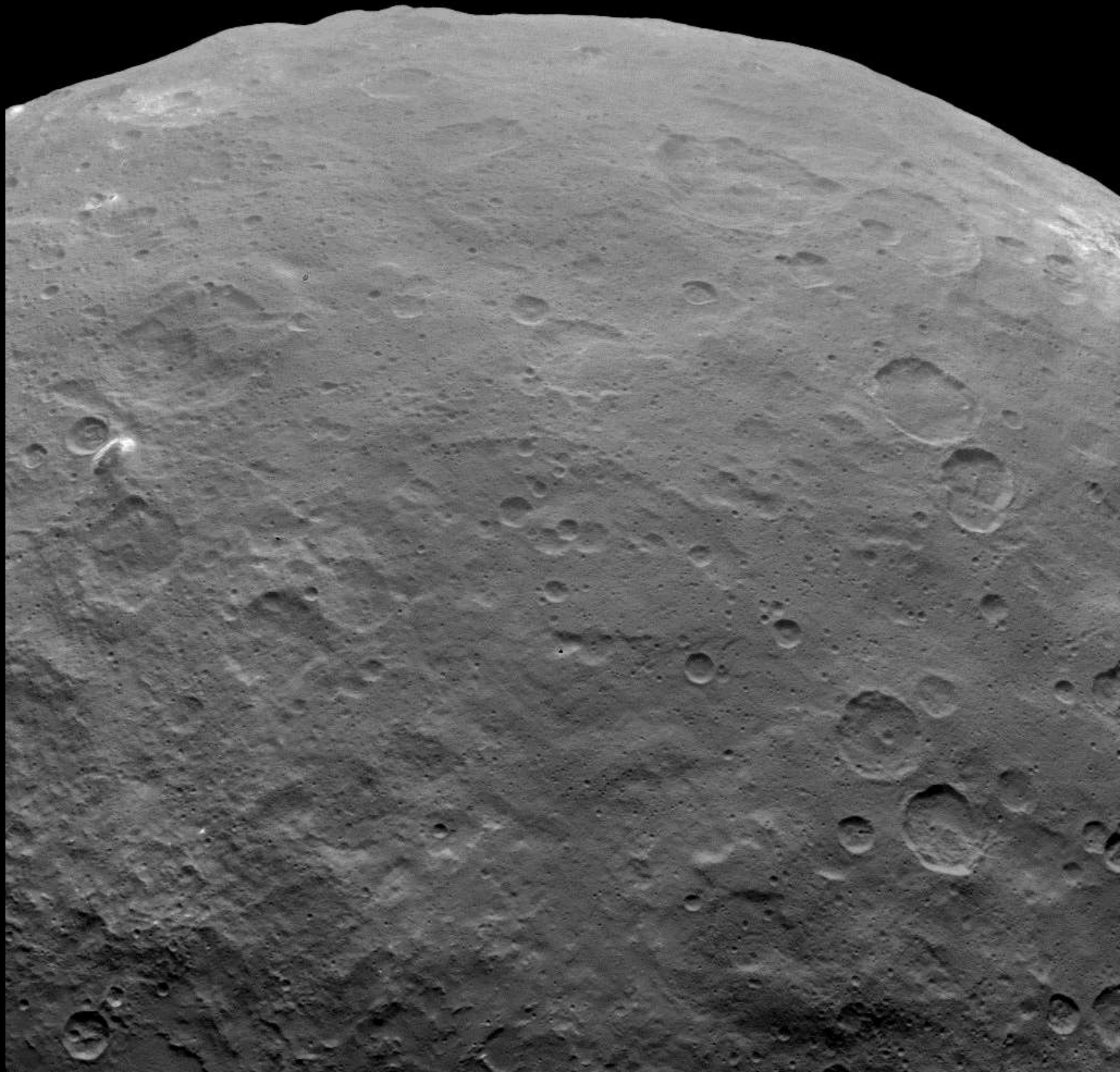


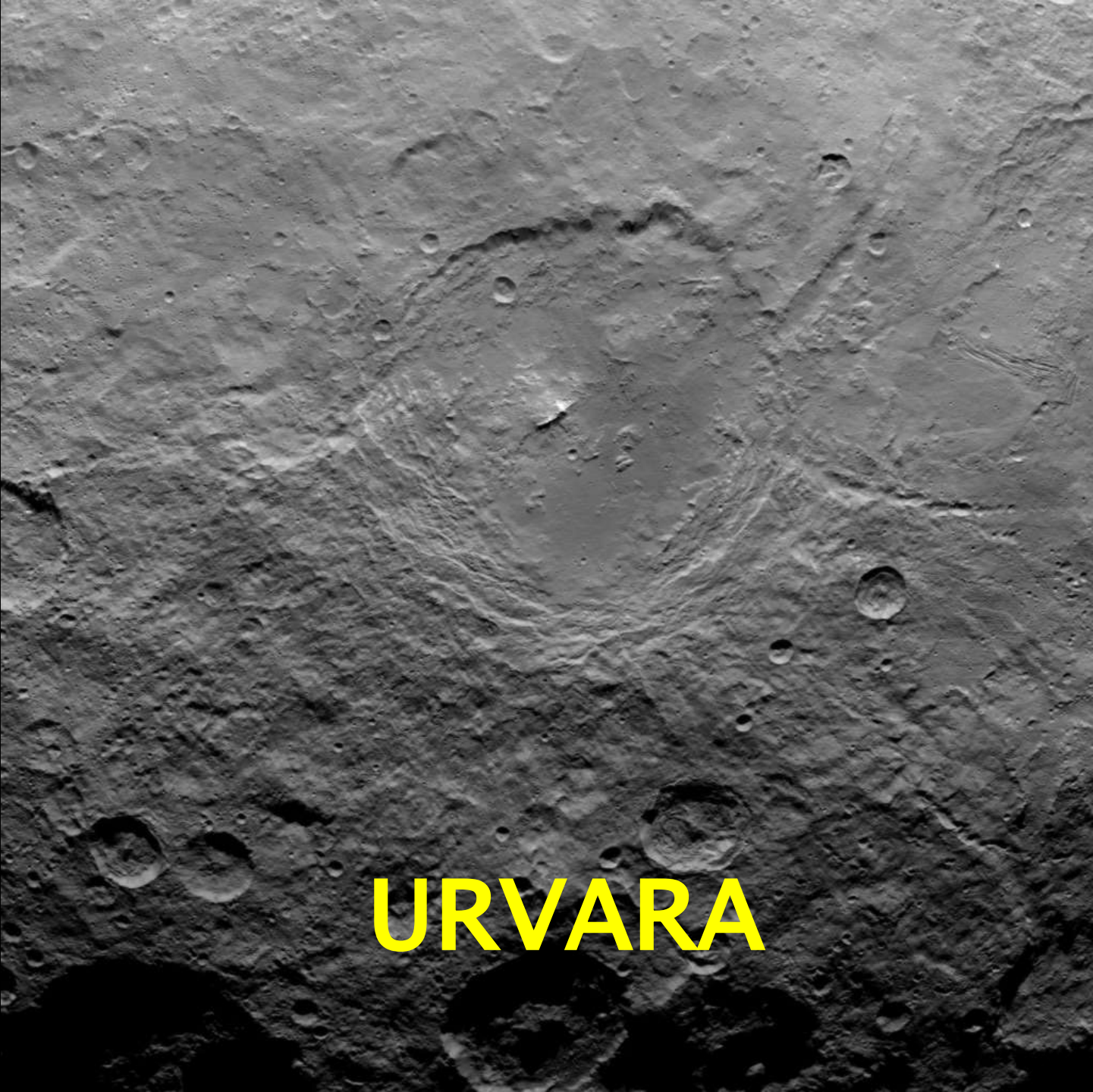








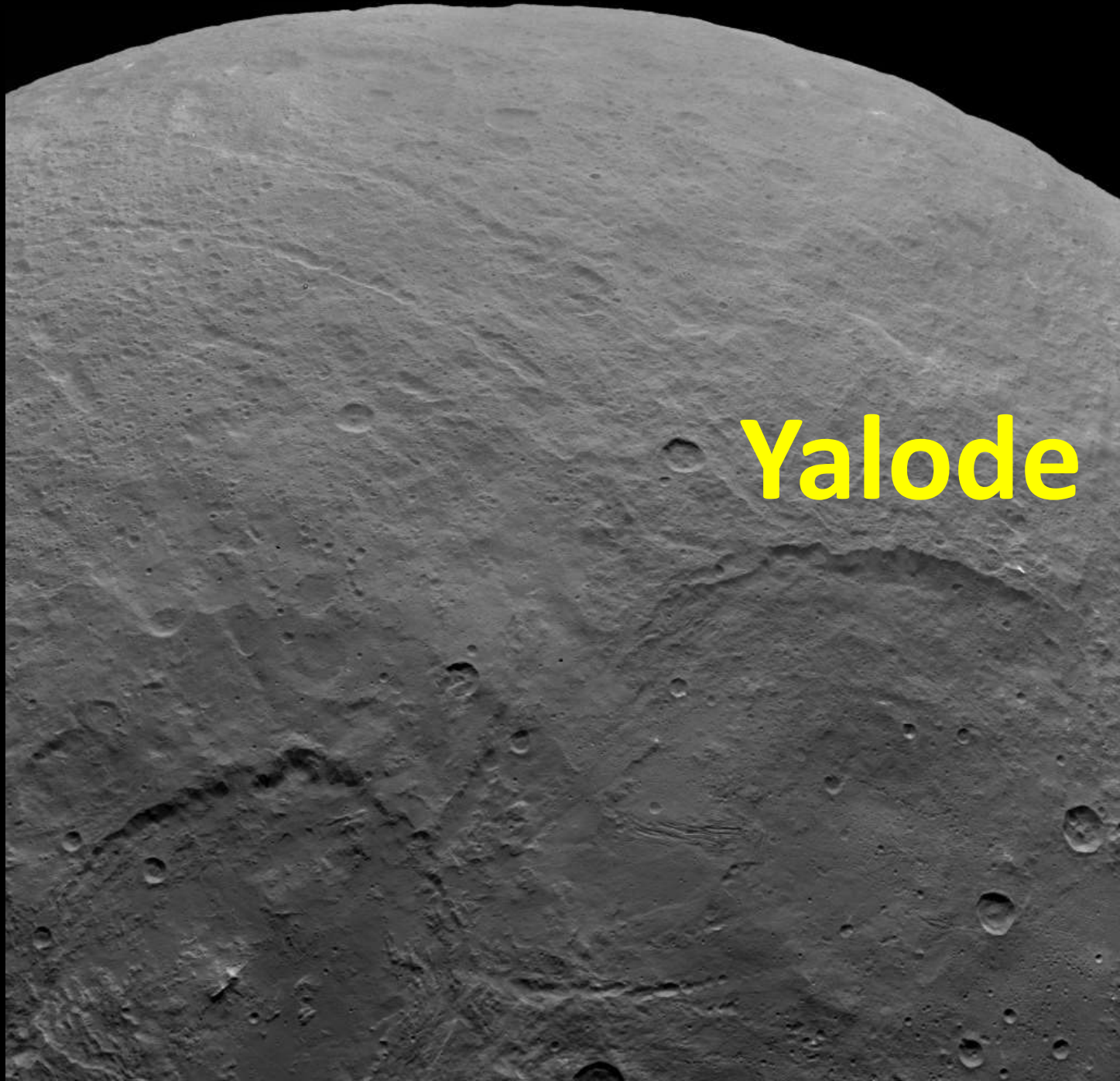




URVARA



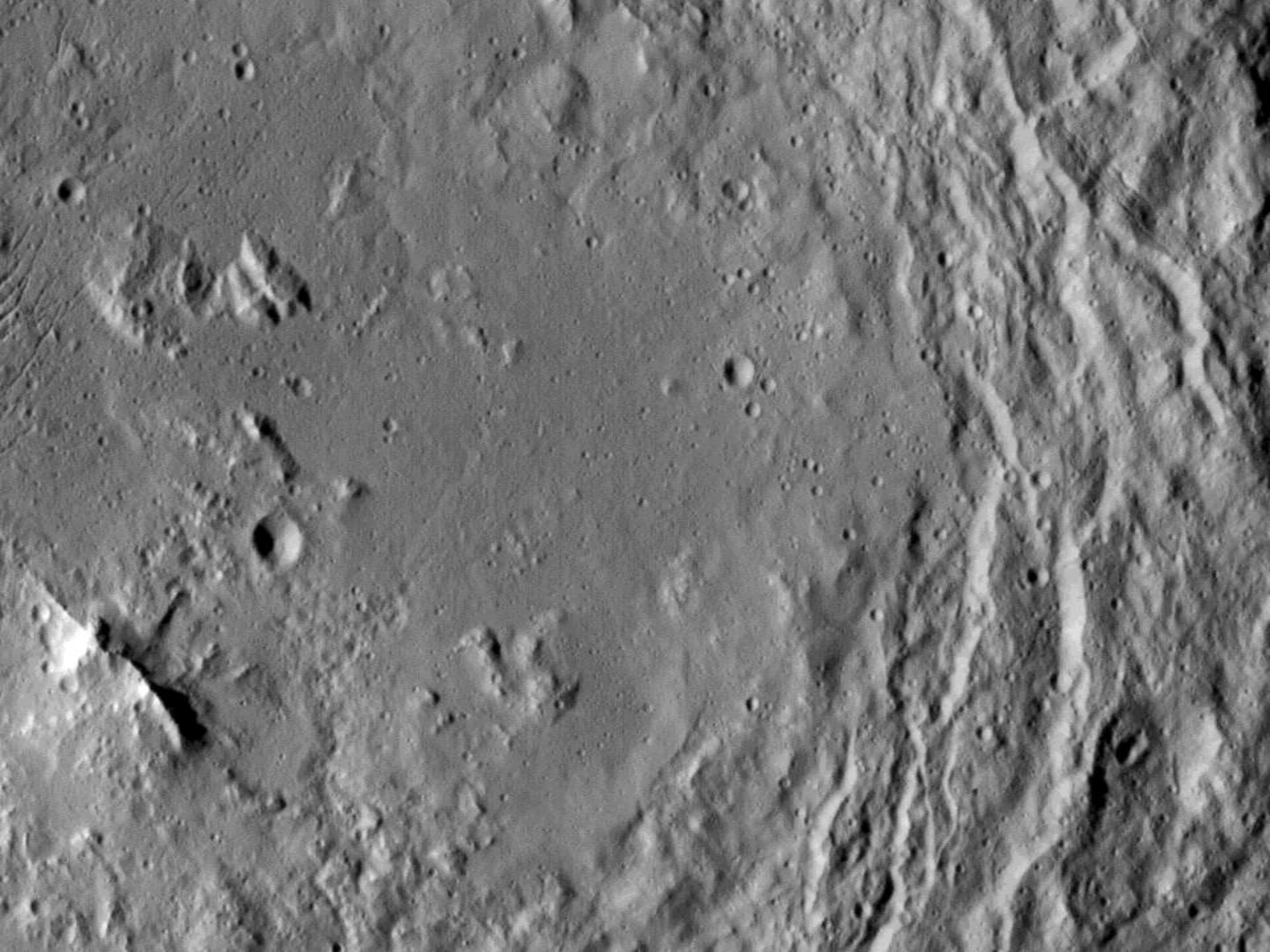




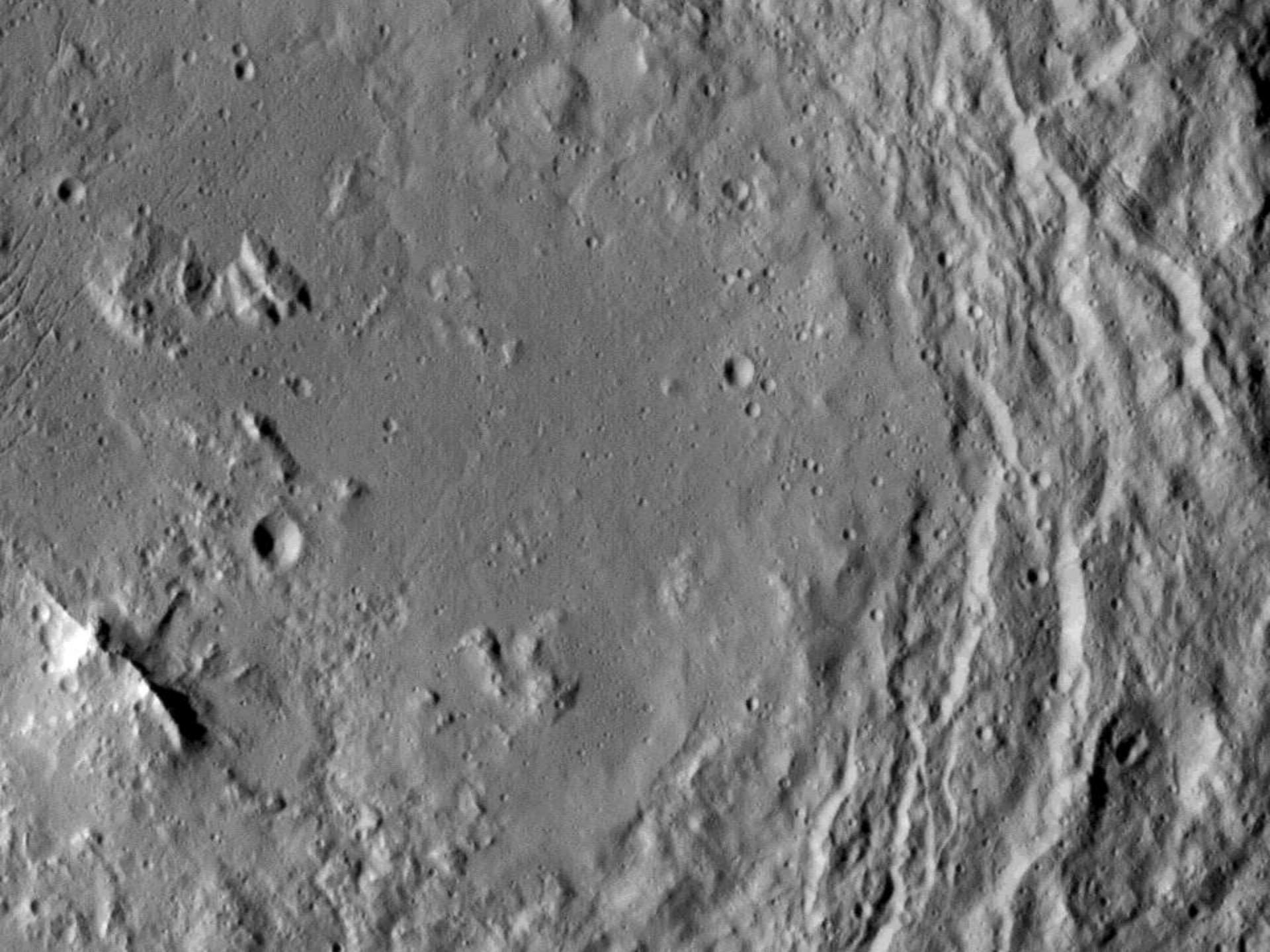
Yalode



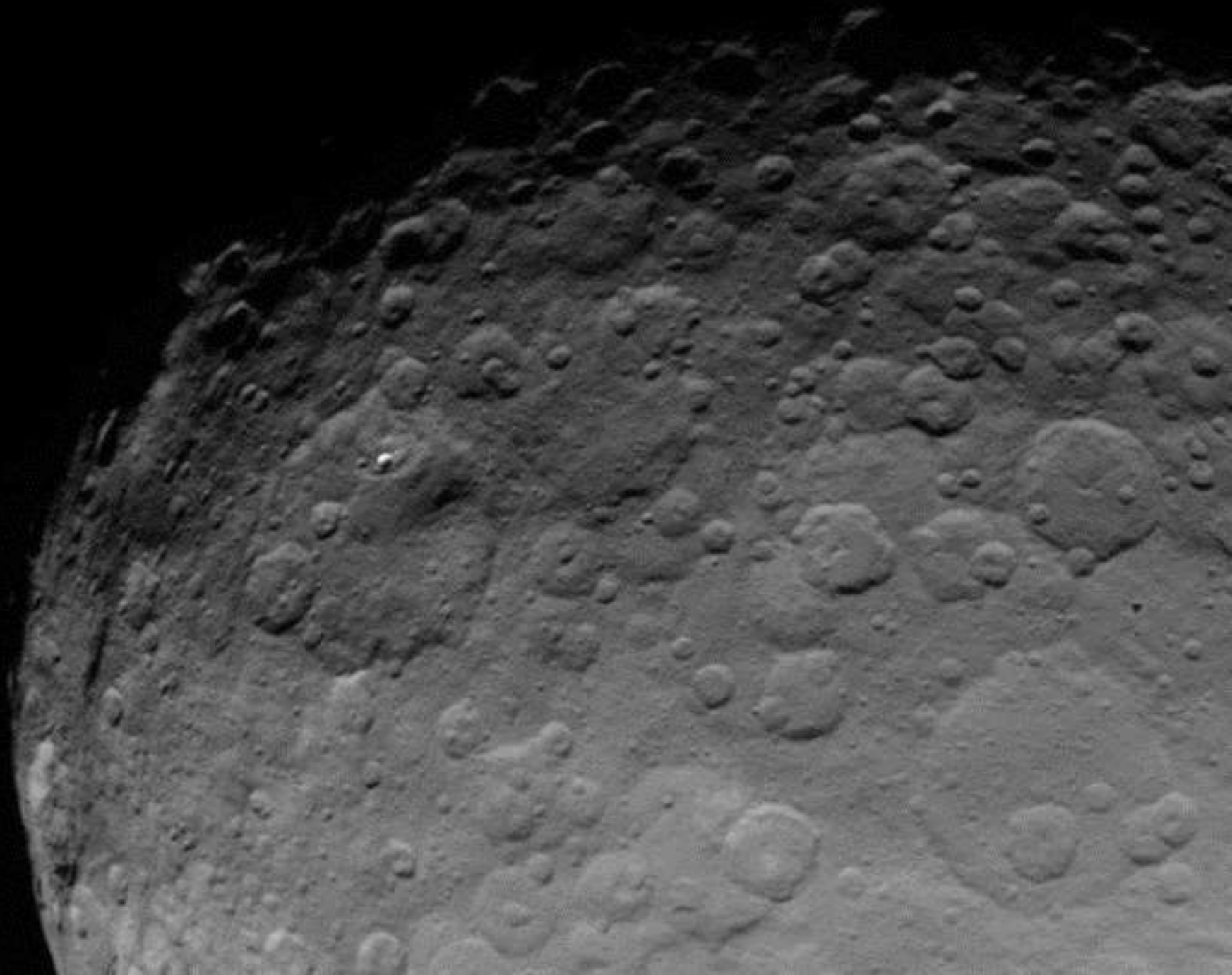


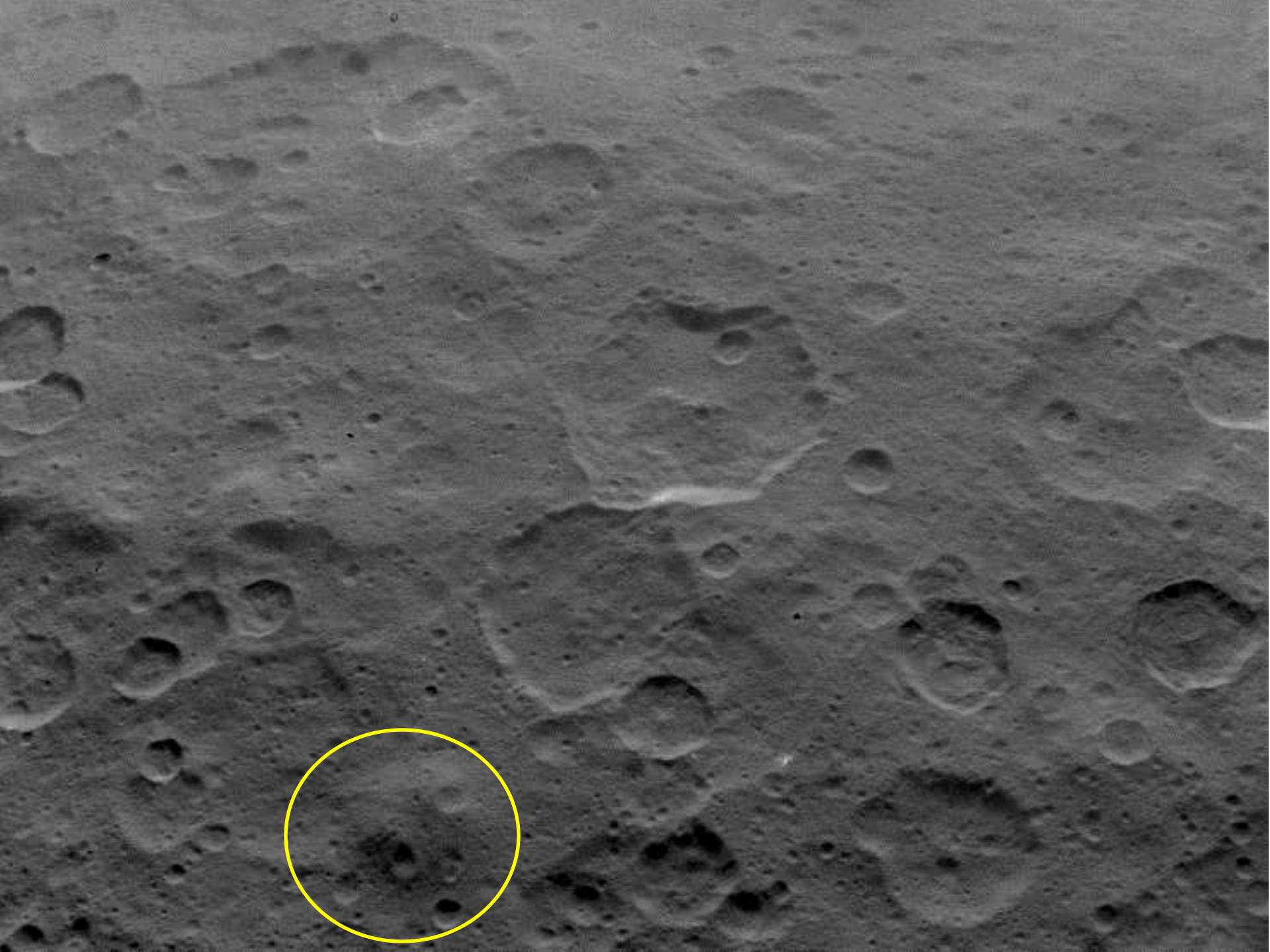


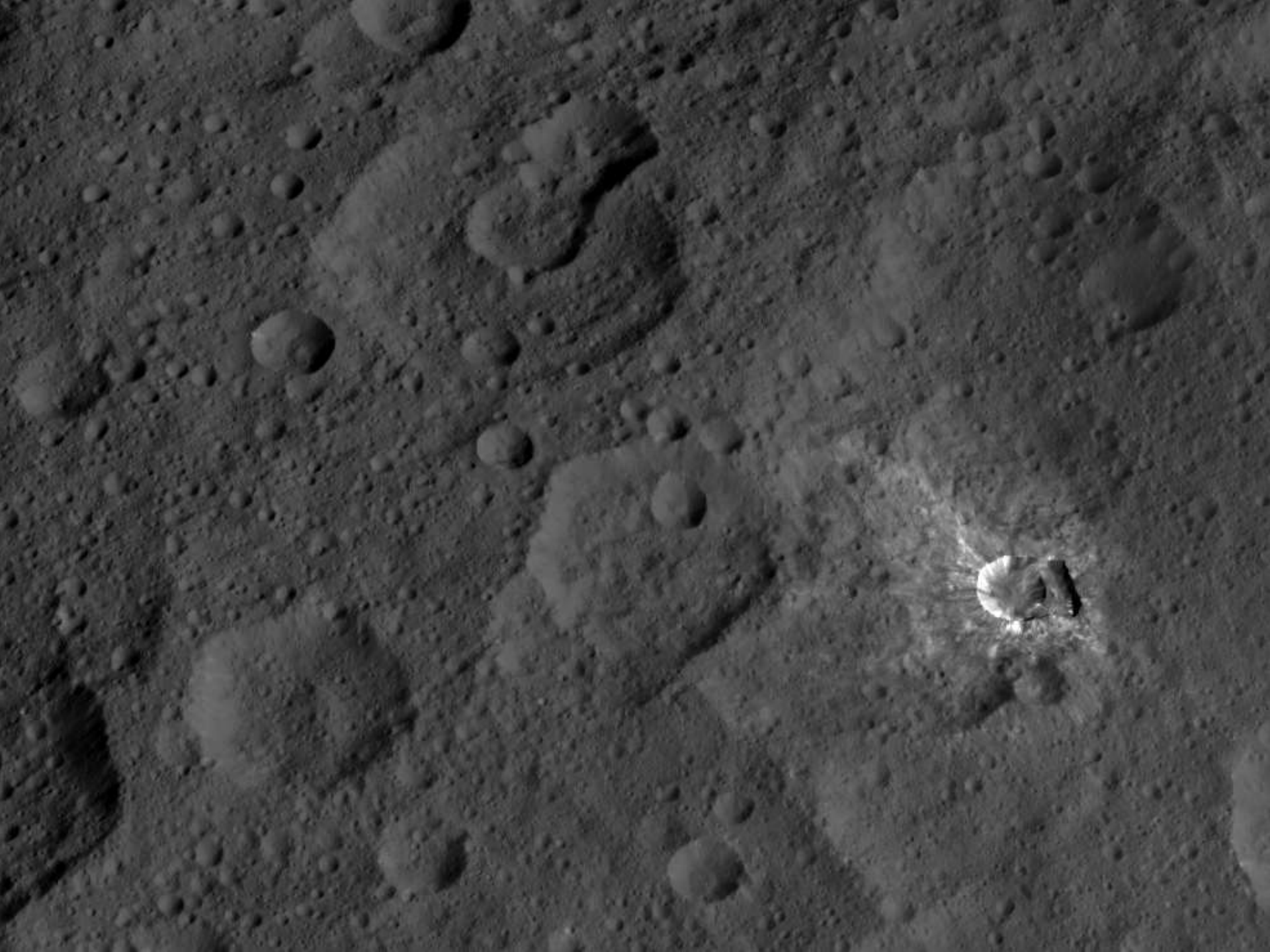




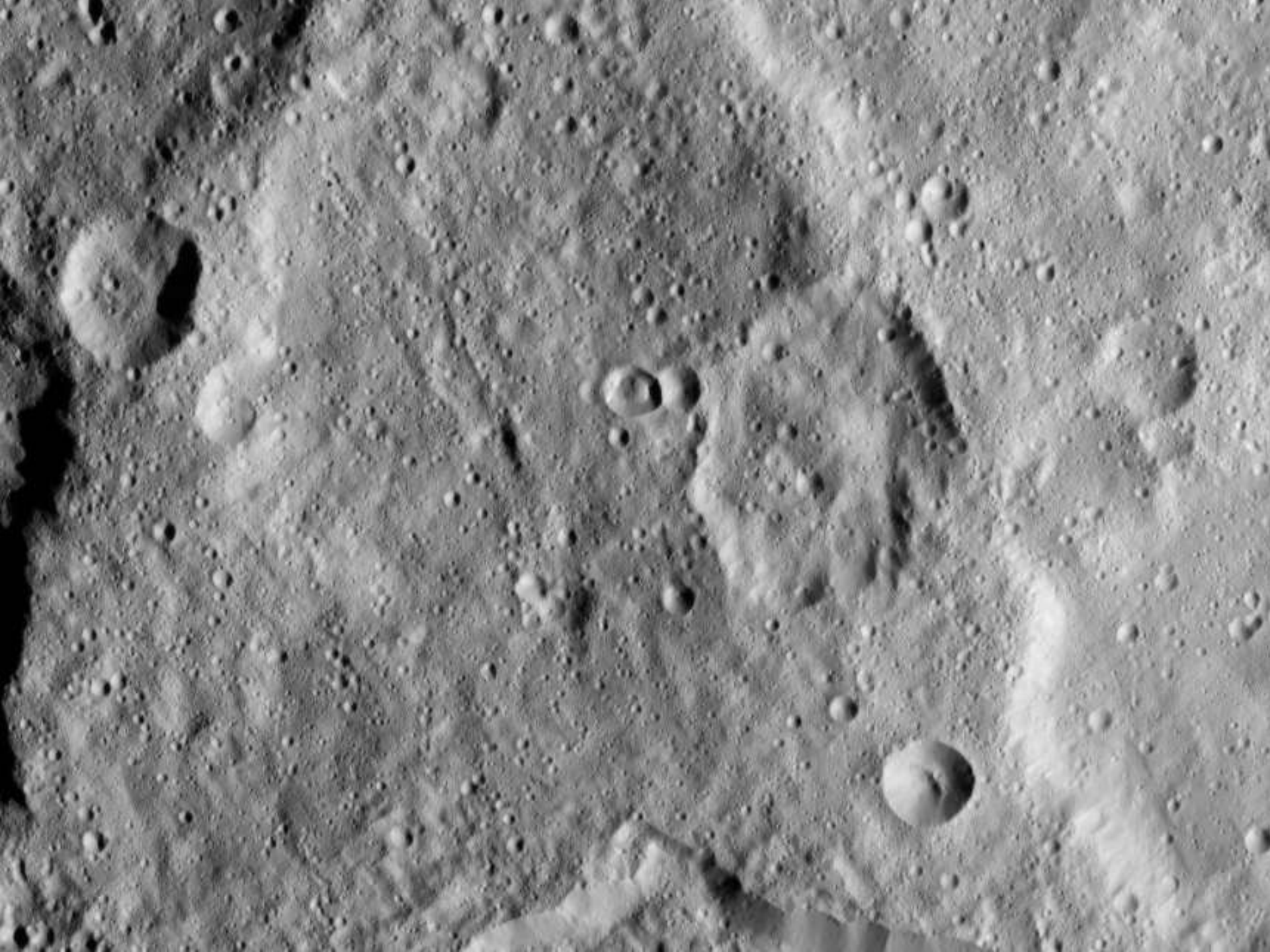




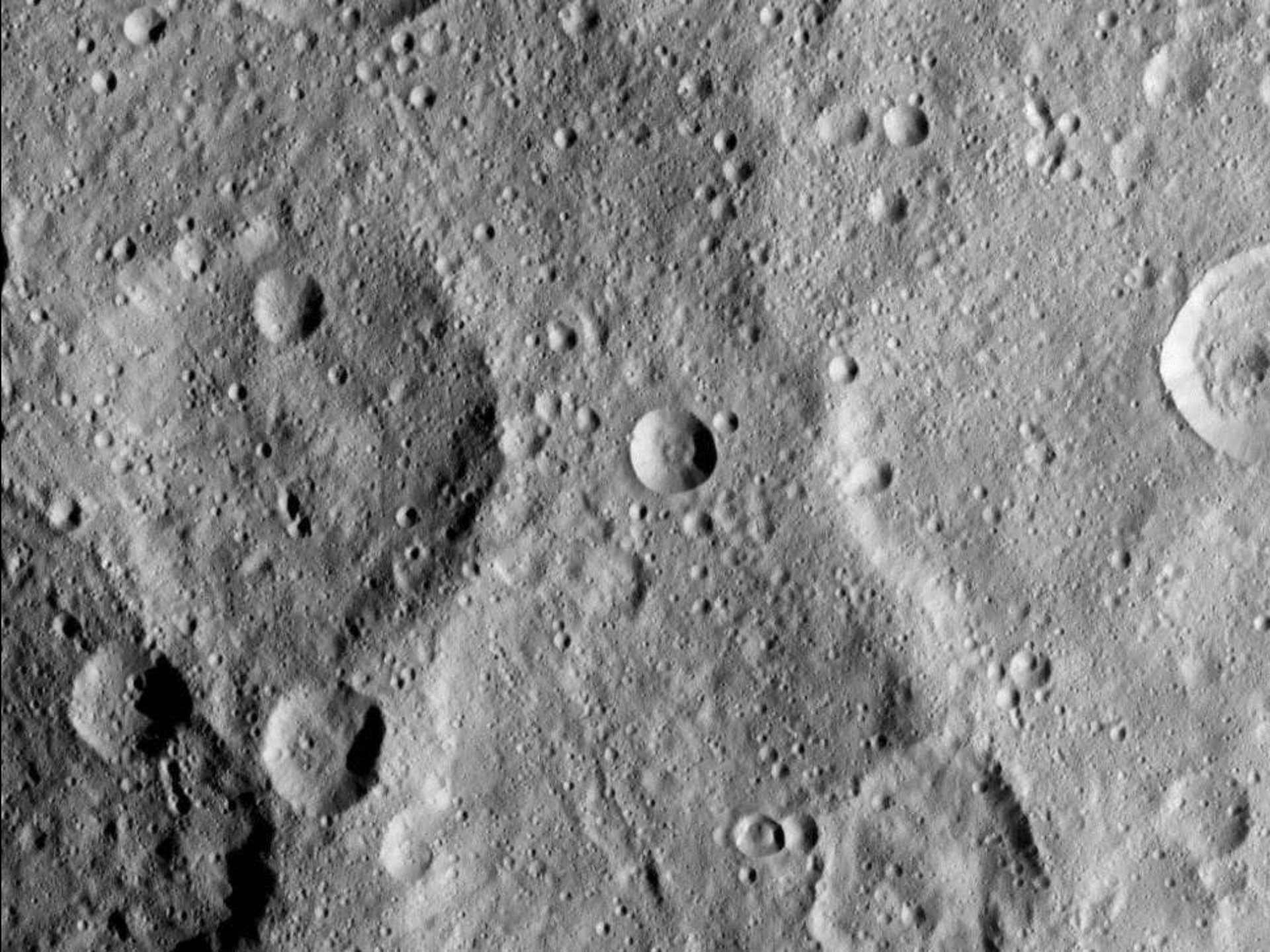












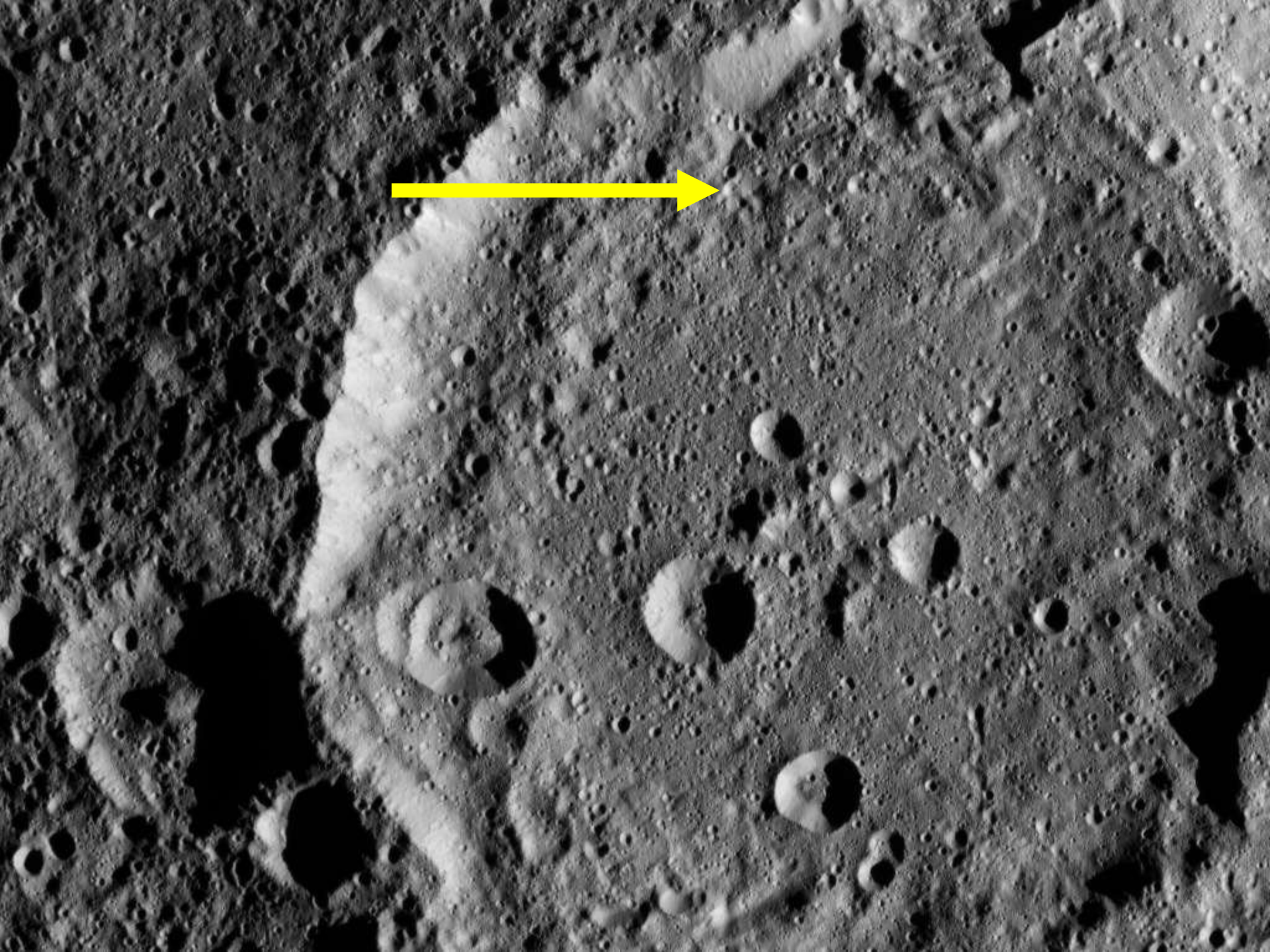


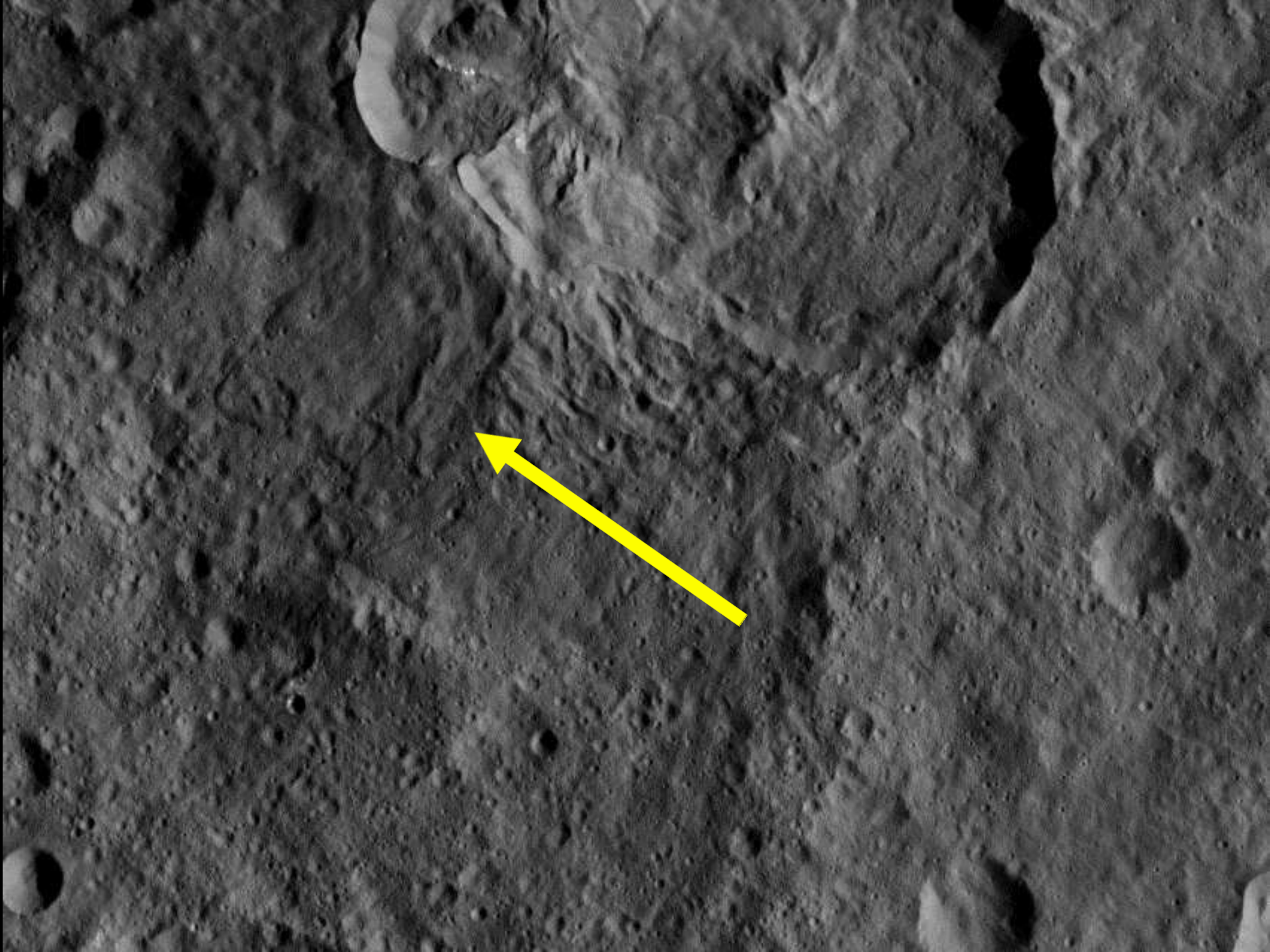


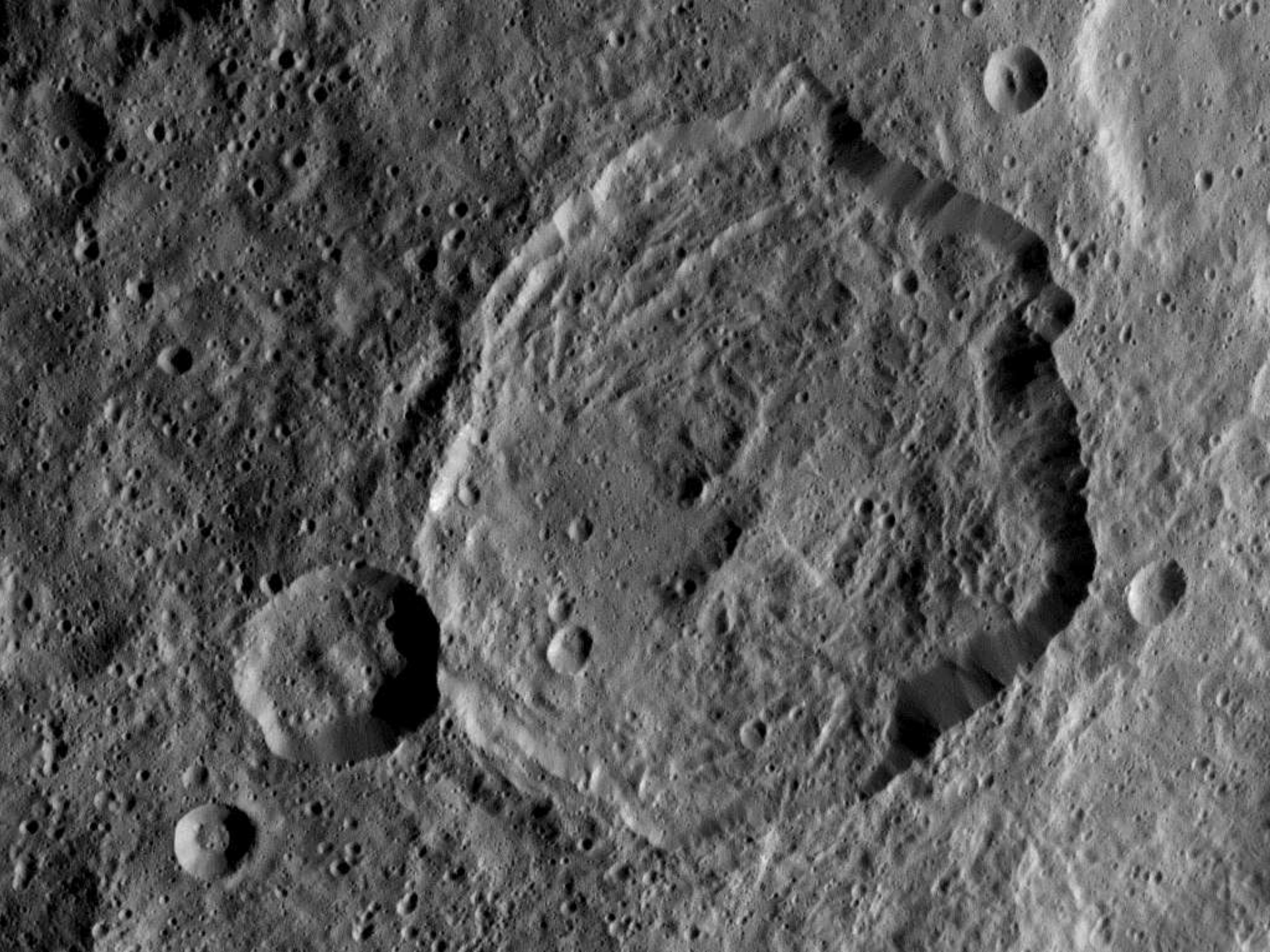


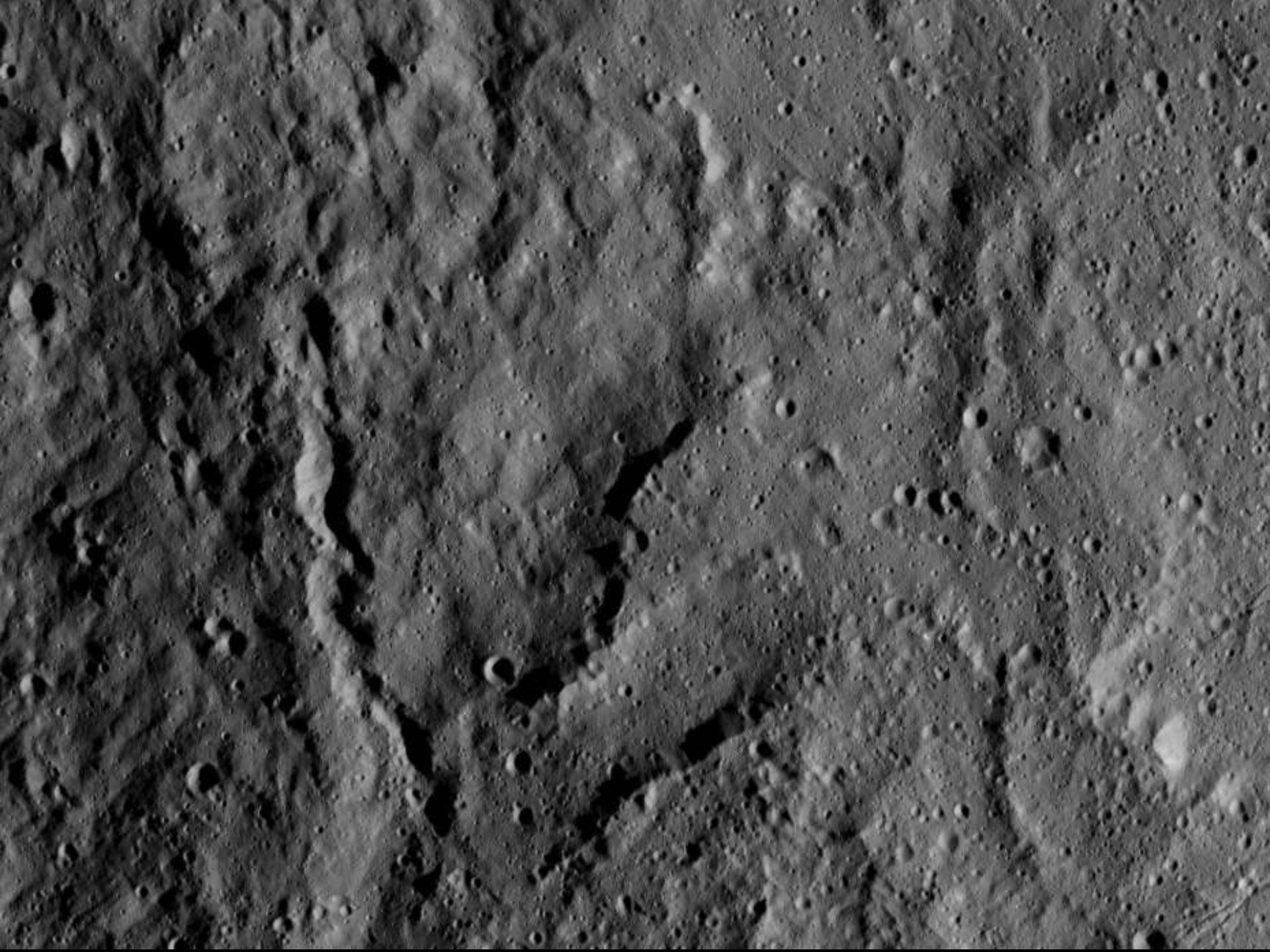


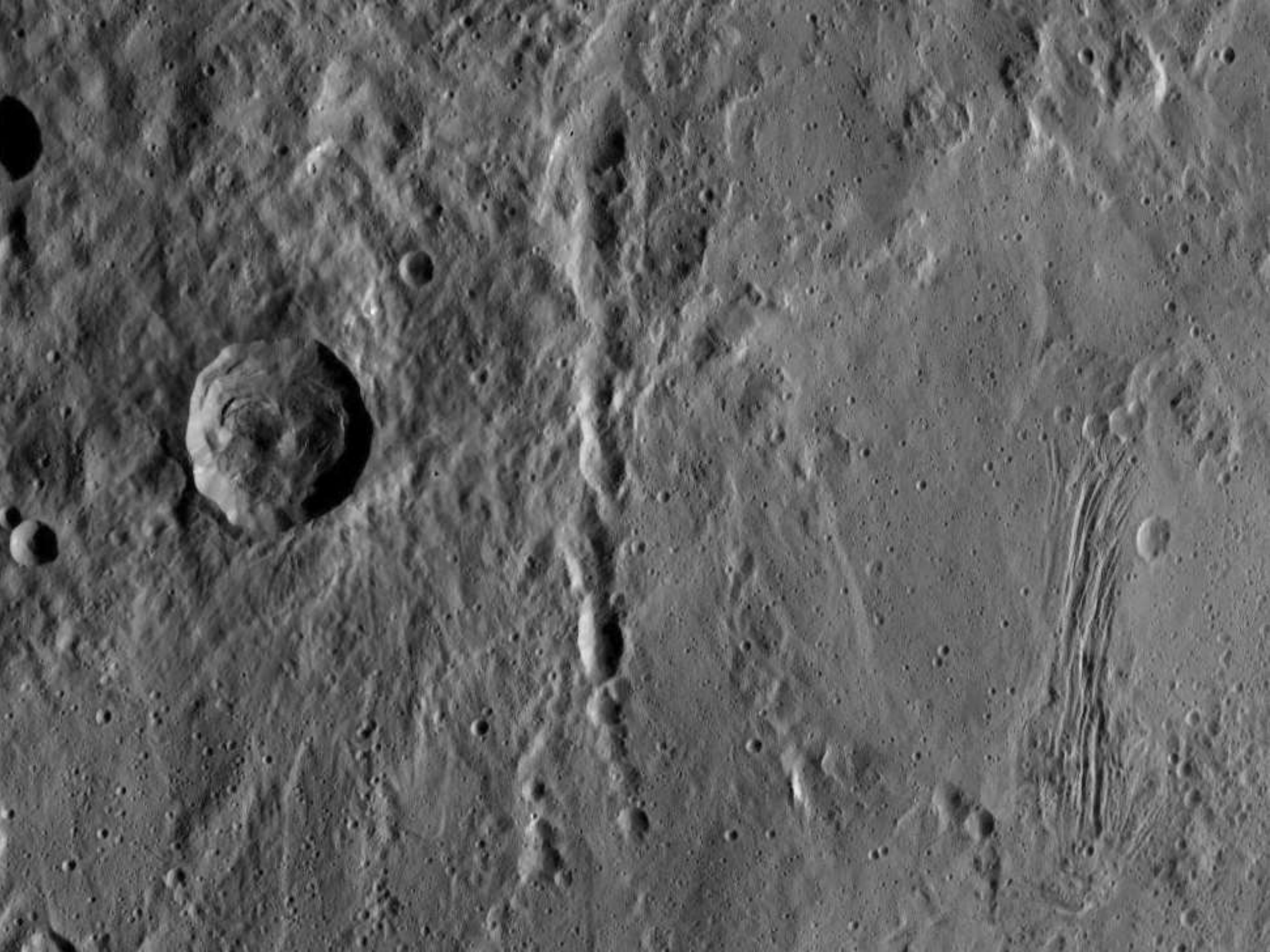


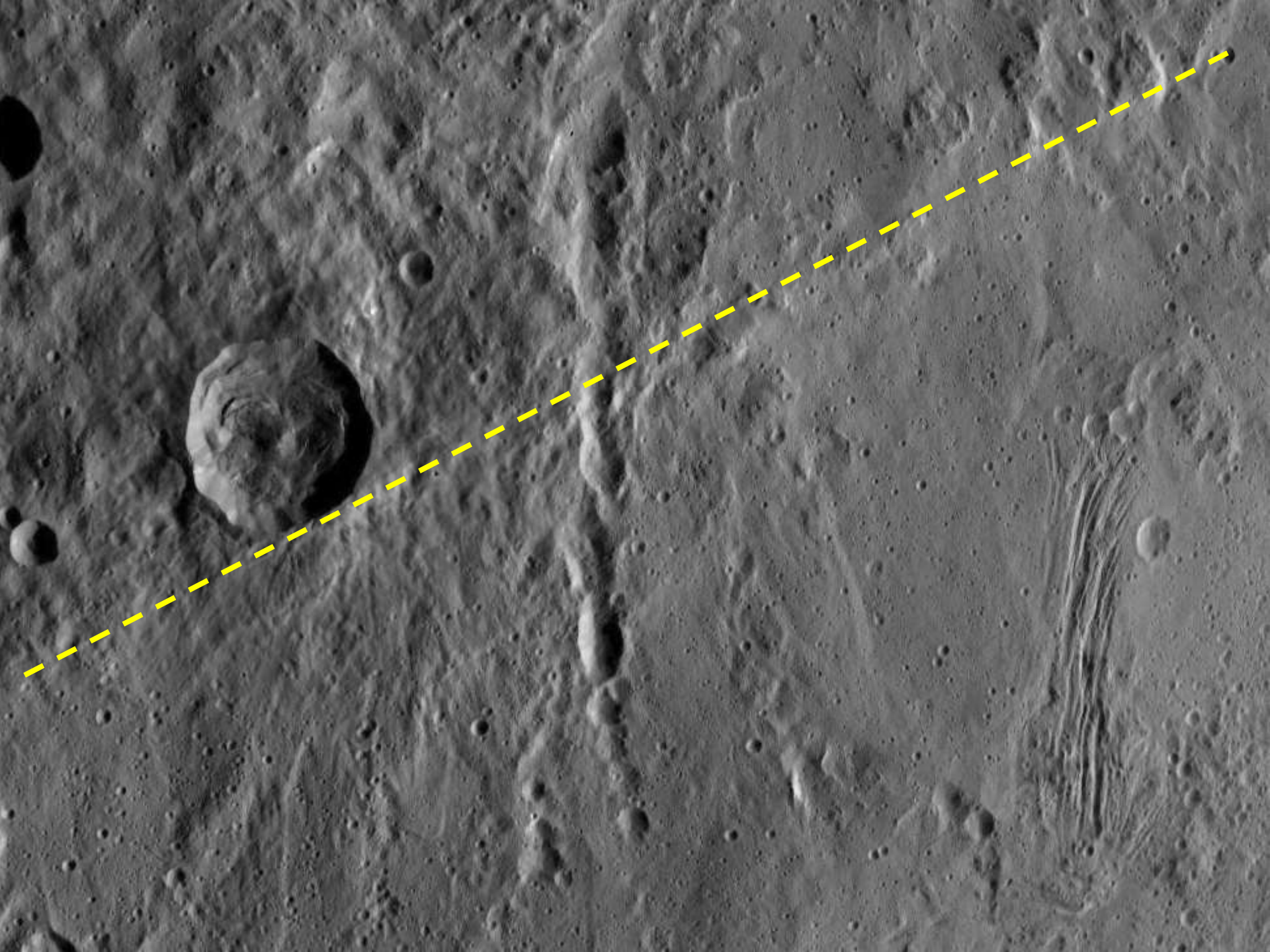












<http://dawn.jpl.nasa.gov/multimedia/images/ceres.html>



**Call for amateur astronomers
interested in participating in a
collaborative exoplanet with a
Hubble Team**

Please contact Dennis Conti

dennis_conti@hotmail.com

I am soliciting amateur astronomers interested in participating in a collaborative exoplanet effort along with a Hubble team headed by noted planetary scientist Dr. Drake Deming. In a recent meeting with Dr. Drake, he indicated that his team could benefit from ground based observations of exoplanet transits by amateur astronomers at the same time as he and his team are conducting Hubble-based observations of some 15 exoplanets. This program will begin in 2016. I agreed to coordinate a network of amateur astronomers who would be willing to participate in this program. Amateur astronomers already doing deep sky imaging probably already have the right equipment and skill set to conduct these observations.

Thank You!

Next month's planning meeting is on
Monday, November 2nd, 2015

@ 7:00 PM

The general monthly meeting is on
November 19th, 2015

@ 7:00 PM

Meeting theme:

TBA