

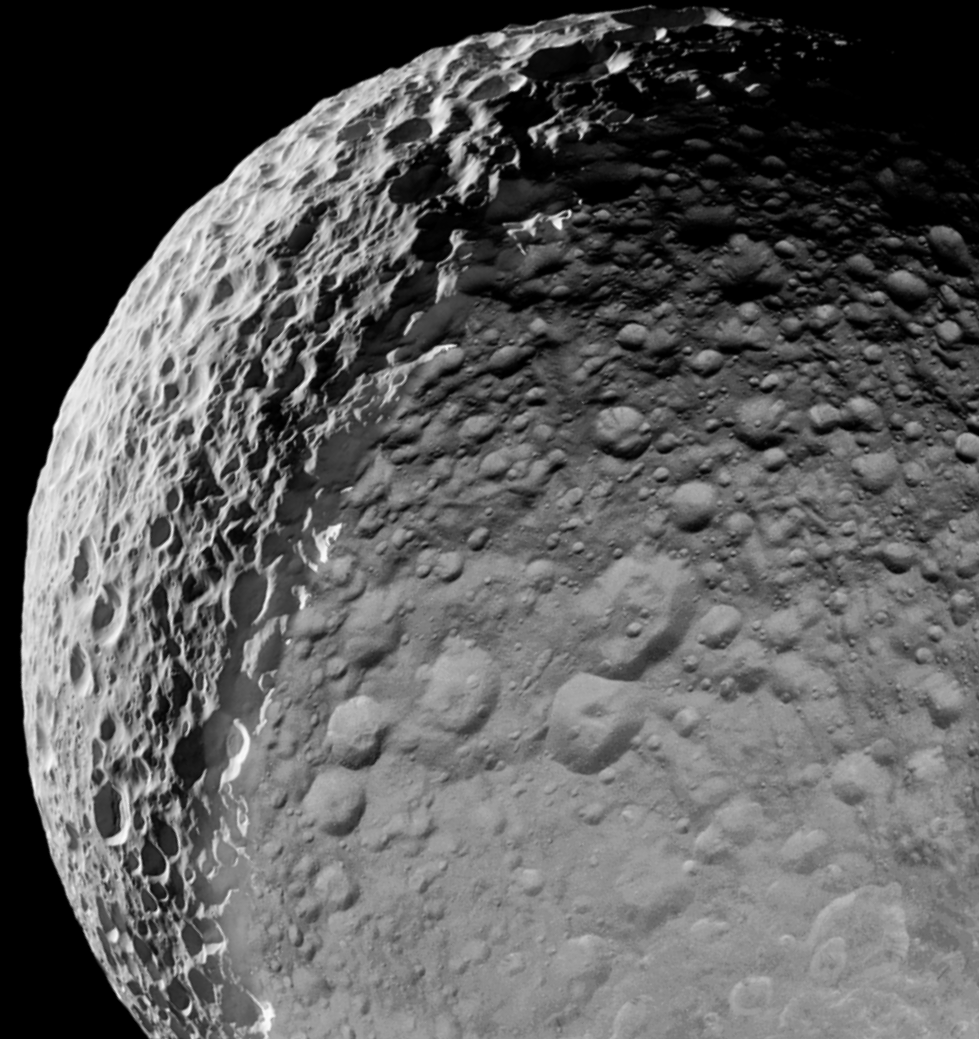
Kosmická střelnice

Mgr. Pavel Gabzdyl

X: @GabzdylPavel

YouTube: @GabzdylPavel

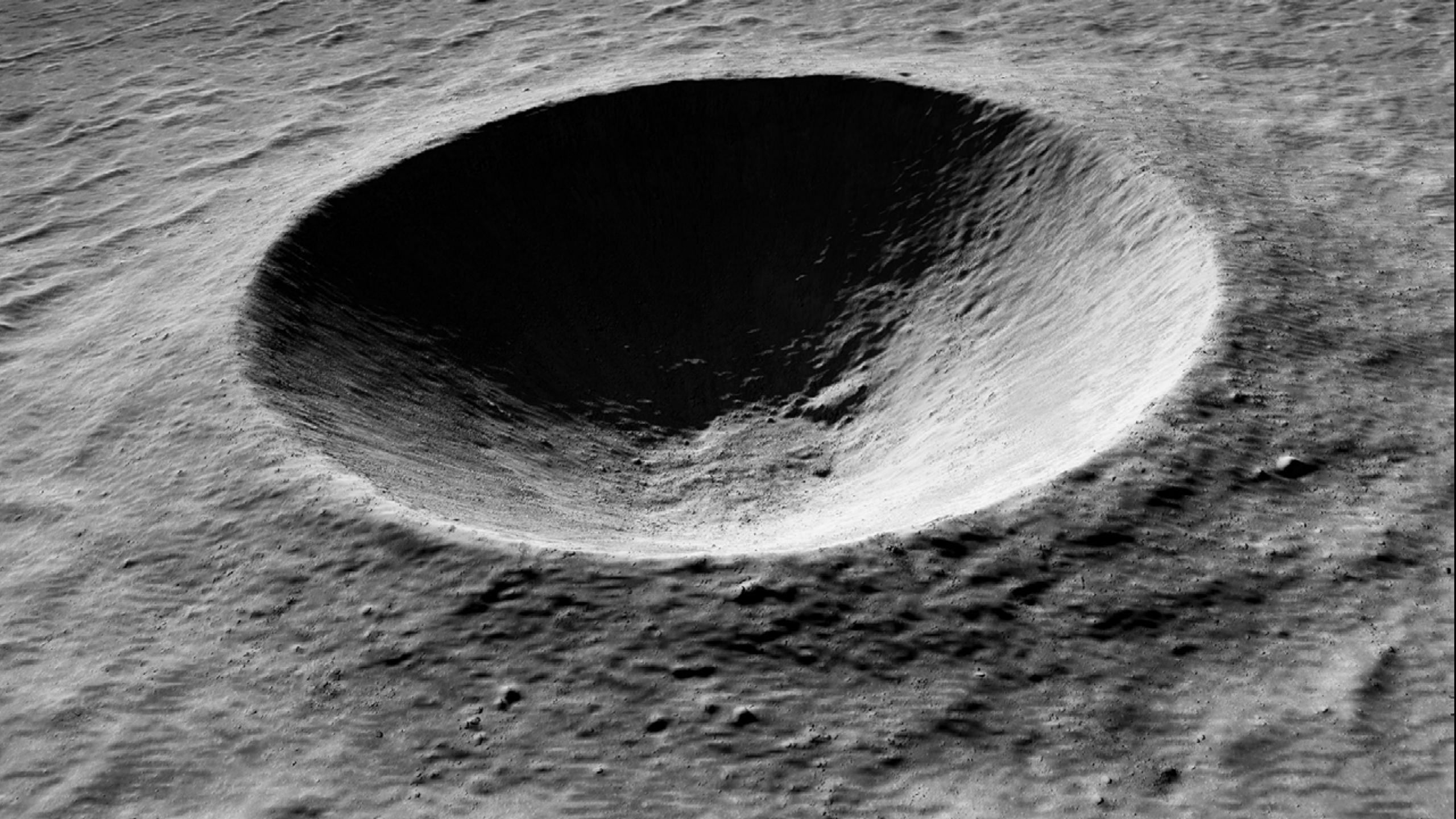
Facebook: pavel.gabzdyl

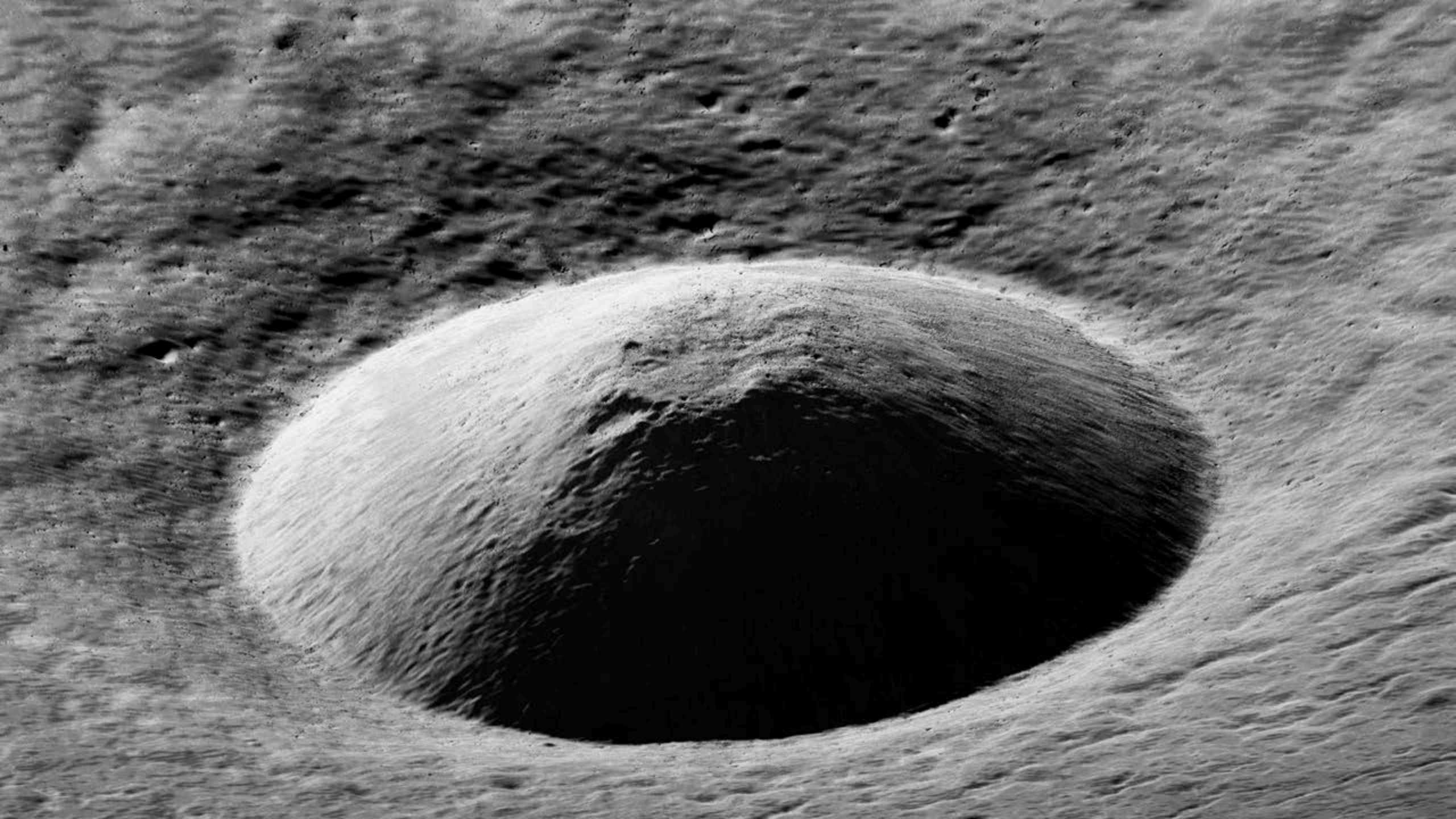


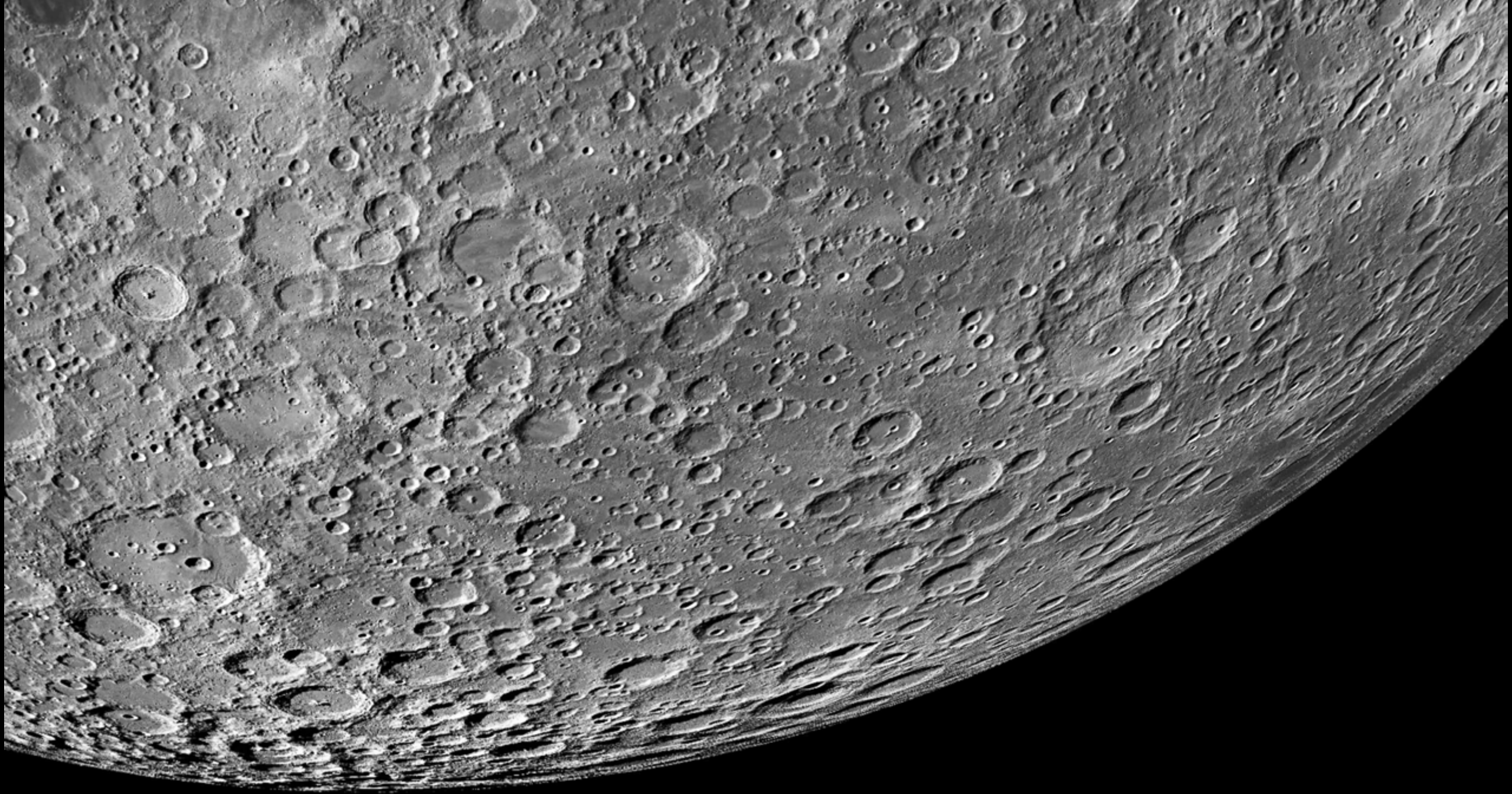
1609 Galileo Galilei



κρατήρ







Měsíc je kráterová rezervace!



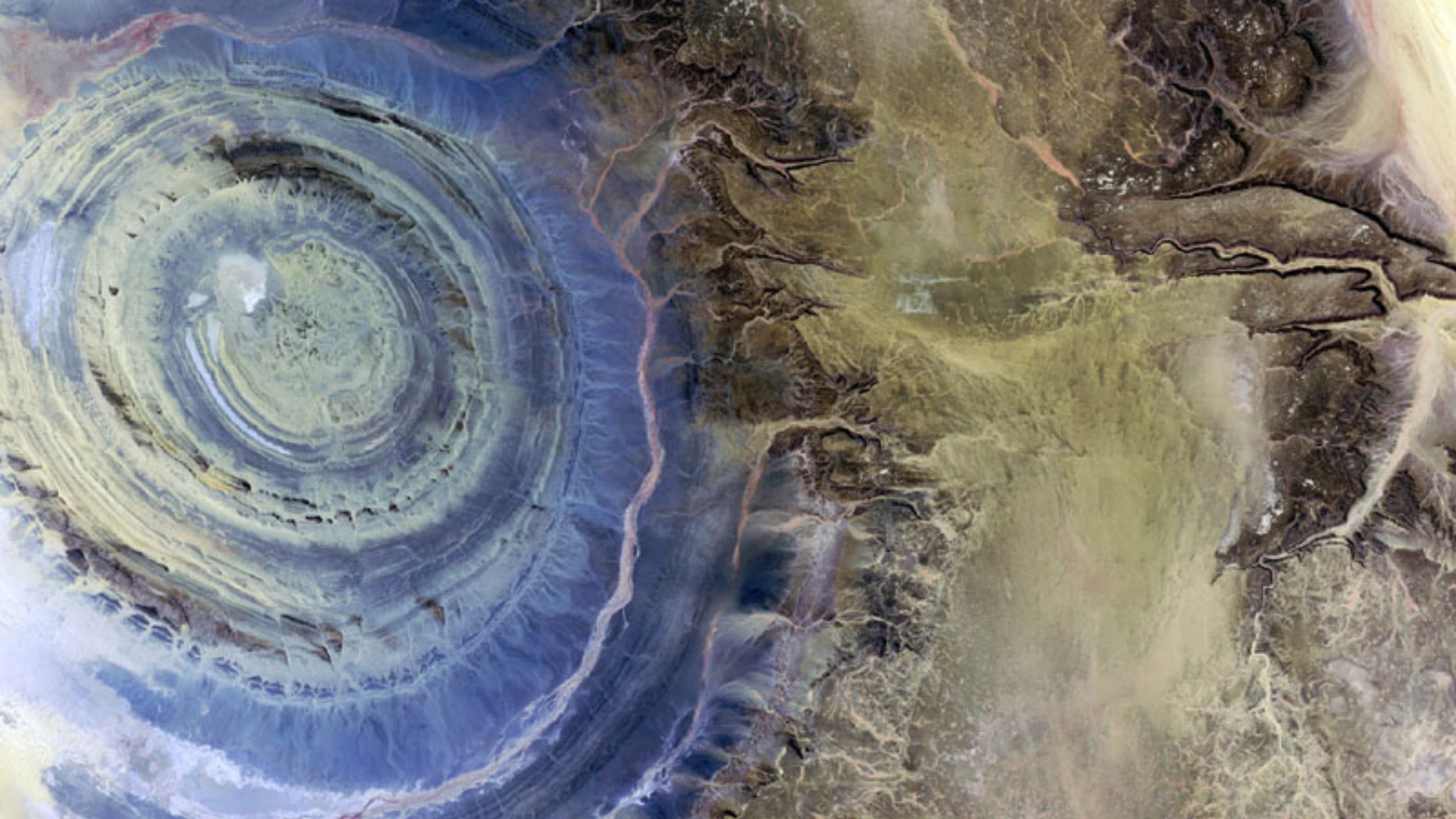
Impaktní (nárazové) x dopadové krátery

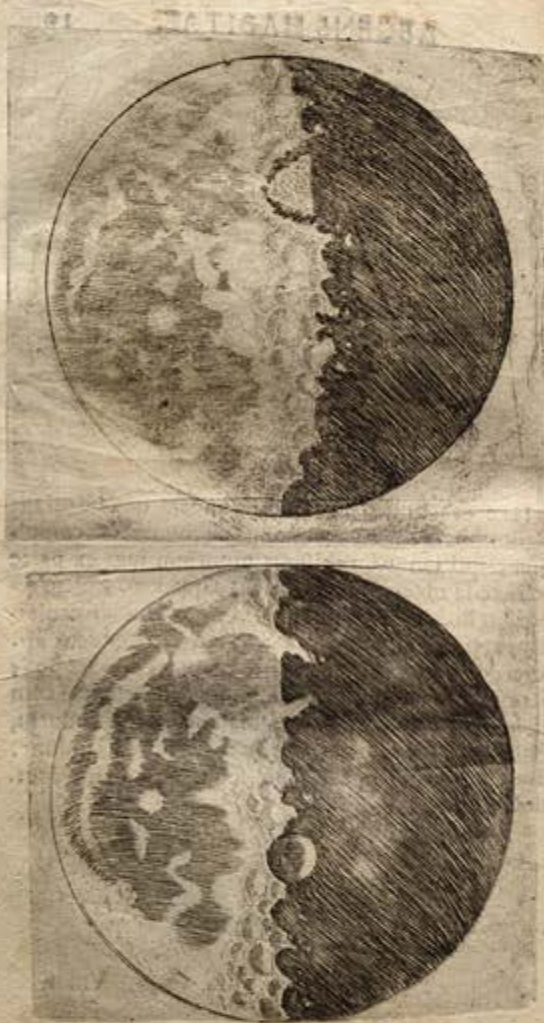


Qeshm, Perský záliv



Richat (Saharská poušť)





RECENS HABITAE. 11

Vnum quoque obliuioni minimè tradam, quod nõ nisi aliqua cum admiratione adnotauì: medium quasi Lunæ locum à cauitate quadam occupatum esse reliquis omnibus maiori, ac figura perfectæ rotunditatis; hanc prope quadraturas ambas conspexi eandemque in secundis supra positis figuris quantum licuit imitatus sum. Eundem quo ad obumbrationem, & illuminationem facit aspectum, ac faceret in terris regio consimilis Boemix, si montibus altissimis, inque periphæriam perfecti circuli dispositis occluderetur vndique: in Luna enim adeò elatis iugis vallatur, vt extrema hora tenebrôsæ Lunæ parti contermina Solis lumine perfusa spectetur, priusquàm lucis umbræque terminus ad mediam ipsius figuræ diametrum pertingat. De more autem reliquarum macularum, umbrosa illius pars Solem respicit, luminosa verò versus tenebras Lunæ constituitur; quod tertio libenter obseruandum admonéo, tanquam firmissimum argumentum, asperitatum, inæqualitatumque per totam Lunæ clariorem plagam dispersarum; quarum quidem macularum semper nigriores sunt illæ, quæ confinio luminis, & tenebrarum conterminæ sunt; remotiores verò tum minores, tum obscuræ minus apparent, ita vt tandem cum Luna in oppositione totum impleuerit orbem, modico, admodumque tenui discrimine, cauitatum opacitas ab eminentiarum candore discreper.

Hæc quæ recensuimus in clarioribus Lunæ regionibus obseruantur, verum in magnis maculis talis nõ conspicitur lacunarum, eminentiarumque differentia, qualem necessariò constituere cogimur in parte lucidiori, ob mutationem figurarum ex alia, atque alia illuminatione radiorum Solis, prout multiplici positu Lunam respicit; at in magnis maculis existunt quidem
arcolæ





(1665) Robert Hooke:

Exogenní x endogenní původ

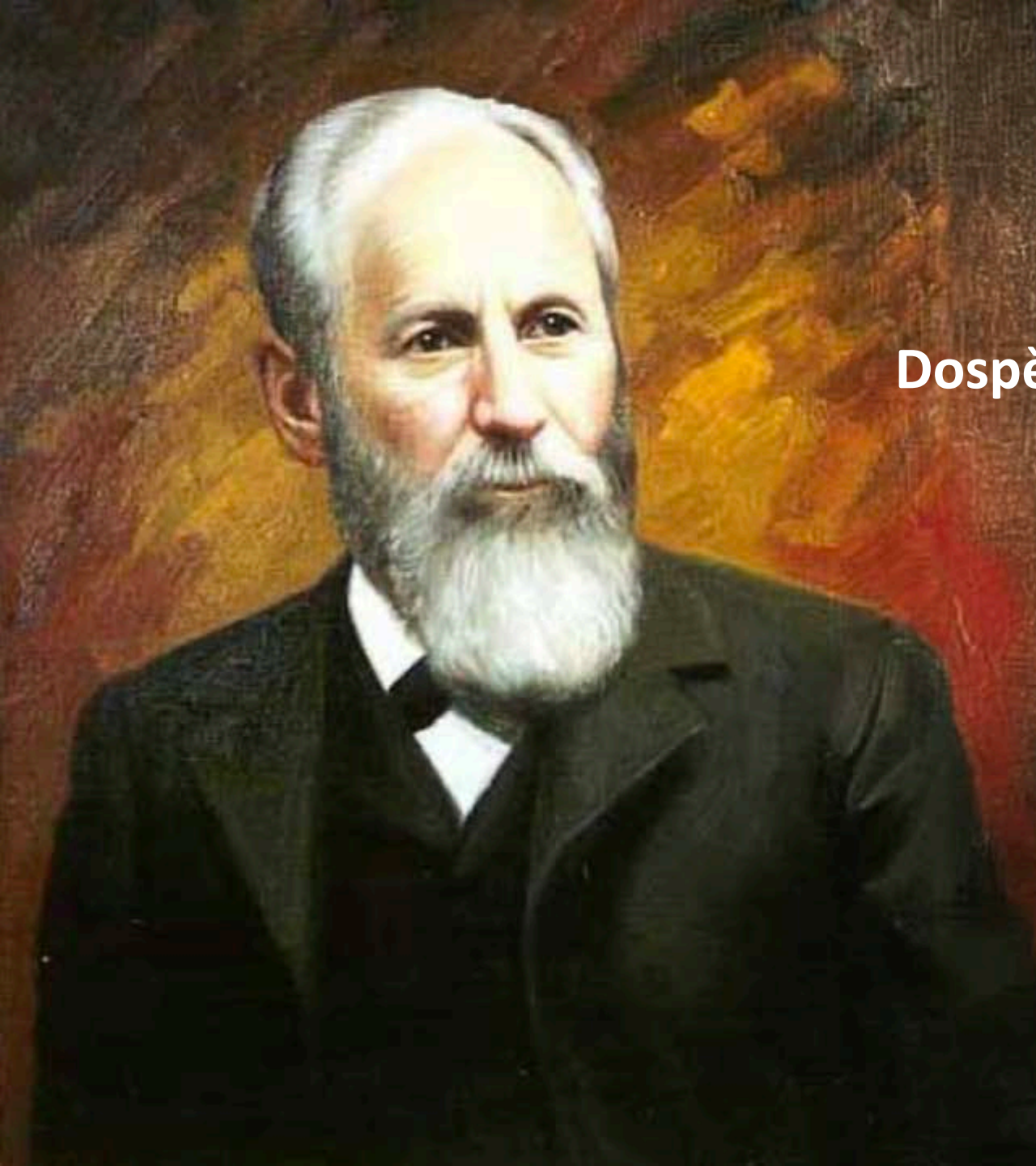
Arizonský kráter



Průměr: 1,2 km
Hloubka: 150 m
Stáří: 50 000 let
Meteoroid: 50 m

Barringerův kráter (Arizona)





(1891 až 1895)

Americký geolog Grove Karl Gilbert:
Dospěl k závěru, že kráter vznikl při prudké
explozi páry.

(1902 až 1929)

Americký geolog Daniel Barringer:

Nepochyboval o existenci železného meteoritu pod kráterem.



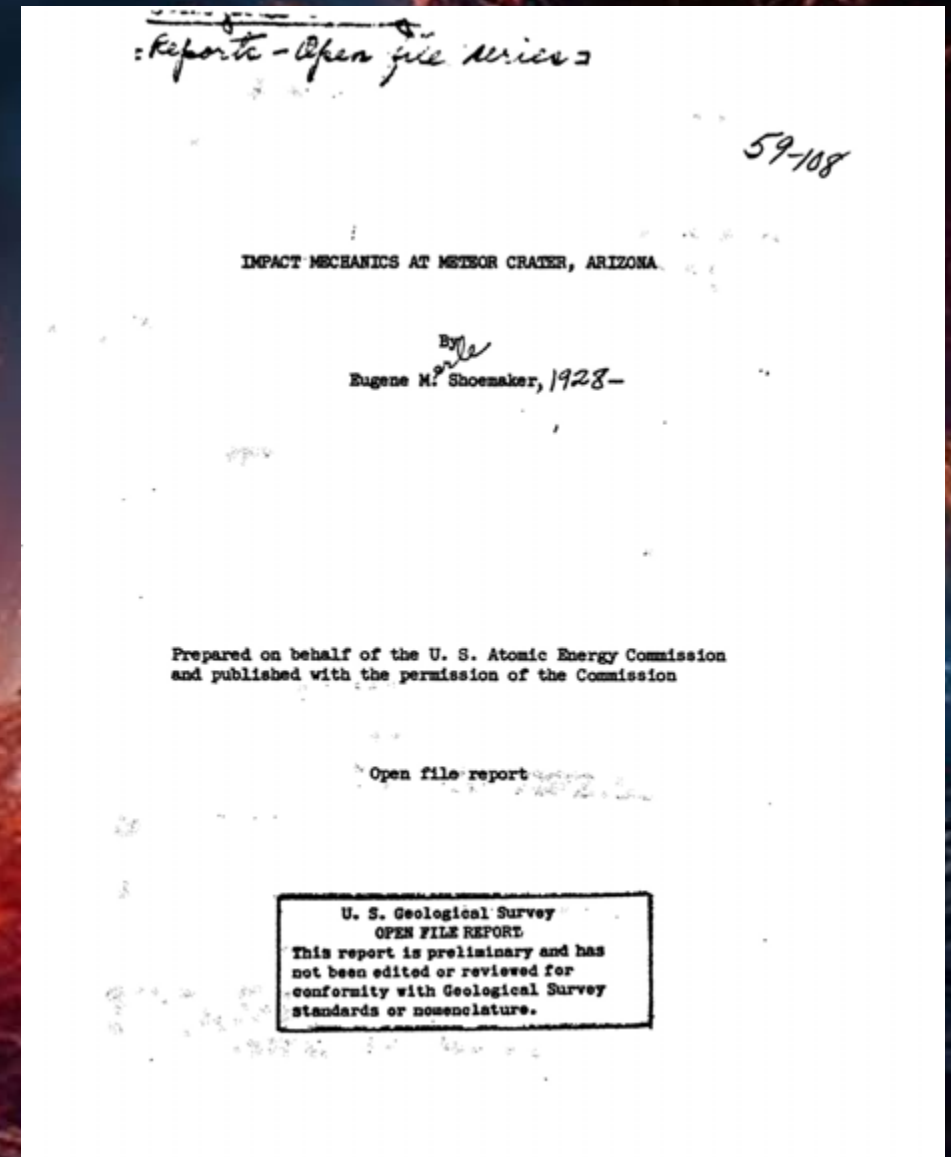
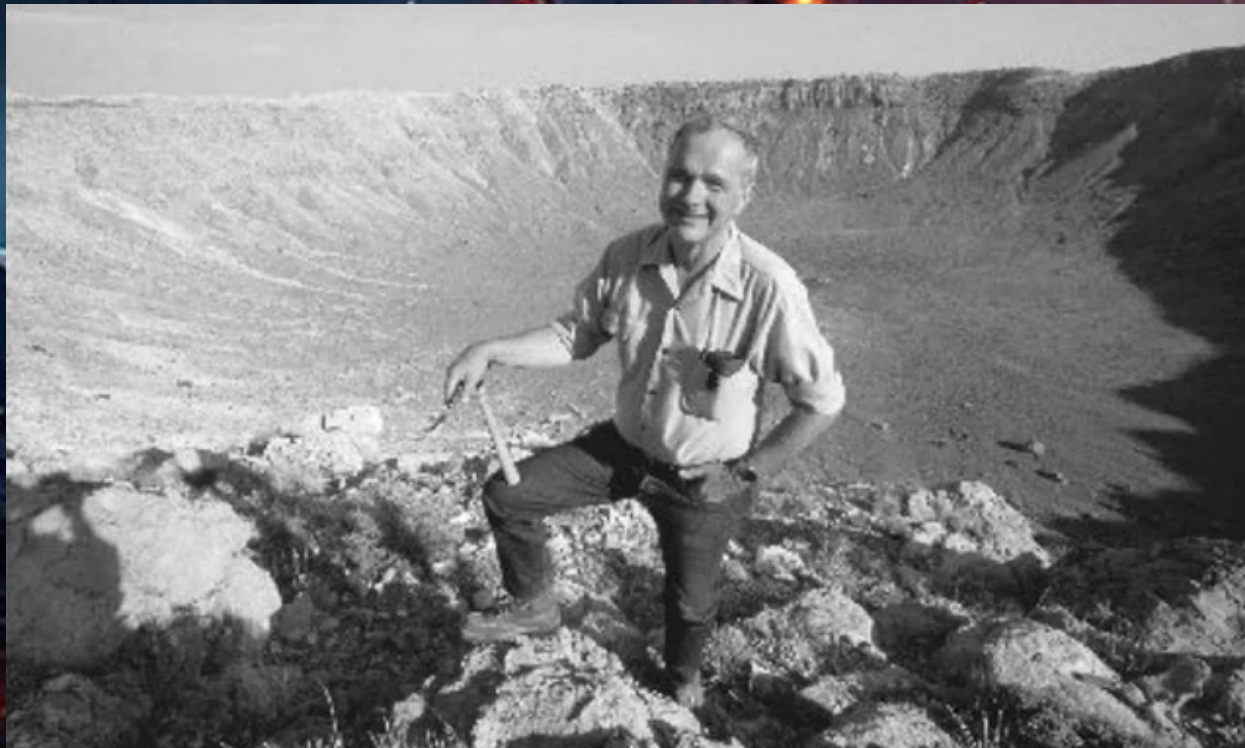
Na řadu
přichází...



(1960): Edward Chao a Eugene Shoemaker

Objev koesitu v Barringerově kráteru

Eugene Shoemaker (1928-1997)
1959 (disertační práce)



Průměr: 390 m

Hloubka: 100 m

Stáří: 6. července 1962

Sedan crater





fulgurit

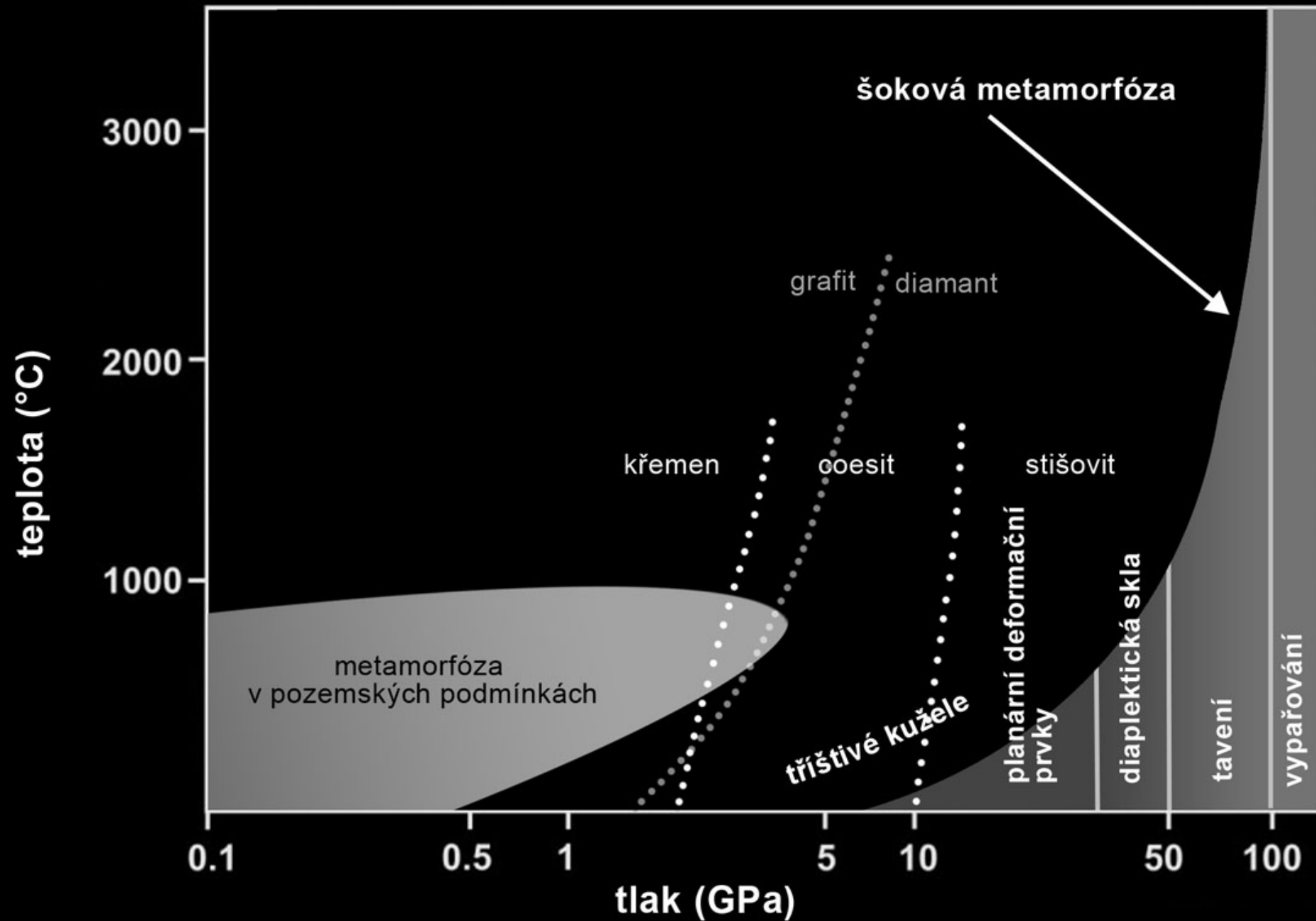


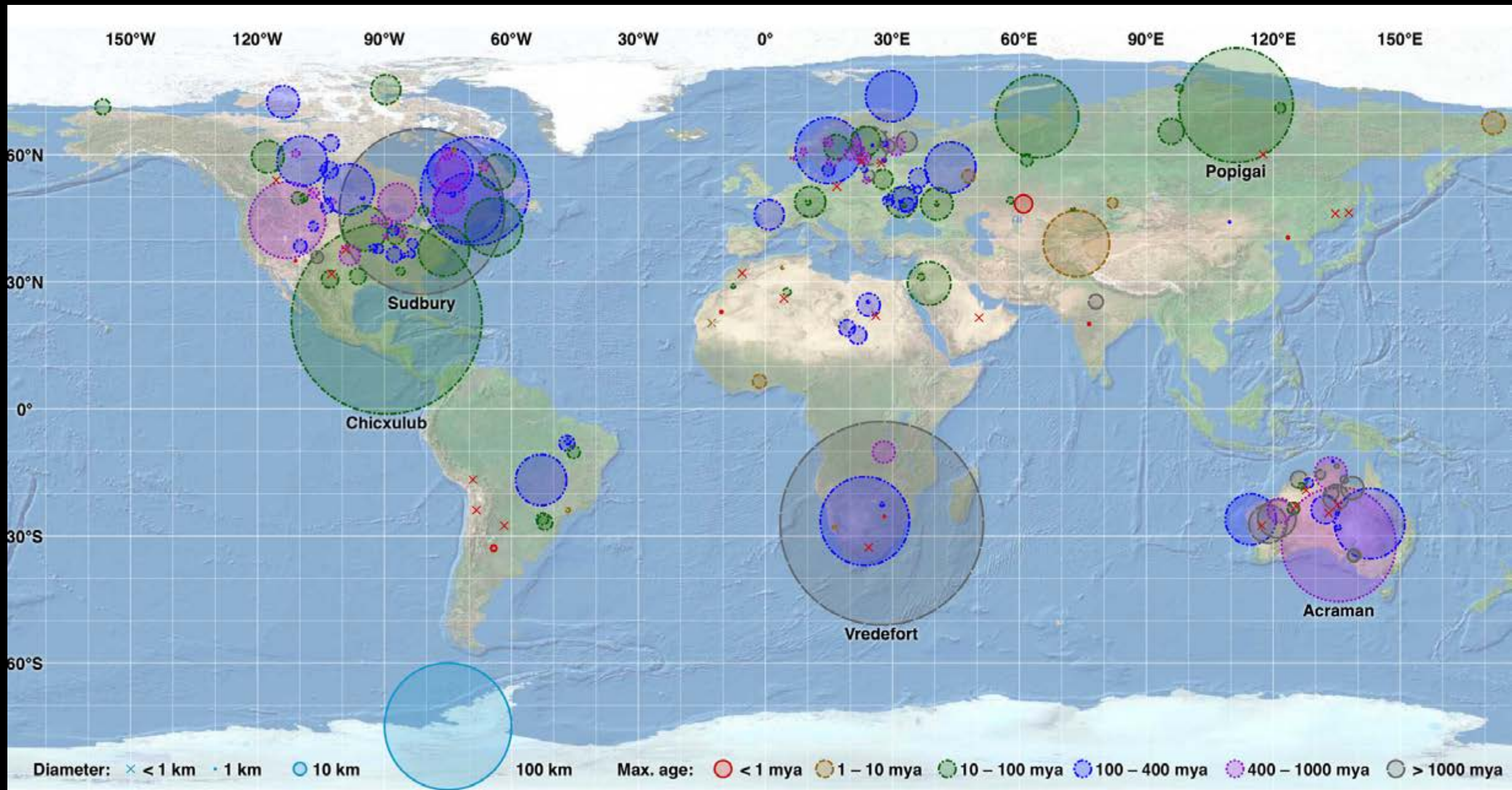
Kinetická energie je obecně vyjádřena vztahem

$$E = \frac{1}{2} m \cdot v^2$$

kde m je hmotnost impaktoru a v jeho rychlost.

V případě Země se rychlost dopadajících kosmických těles může pohybovat v rozmezí od $11 \text{ km} \cdot \text{s}^{-1}$ do $72 \text{ km} \cdot \text{s}^{-1}$.





Kráter Ries



Průměr: 25 km

Stáří: 15 Ma

Meteoroid: 1 km

Kráter Ries

Průměr: 3,8 km

Stáří: asi 15 Ma

Kráter Steinheim

An aerial photograph of the Steinheim crater impact site. The central part of the image shows a dense urban area with many buildings and streets. Surrounding the urban area are large, green agricultural fields, some of which are divided into smaller plots. The landscape is surrounded by dense green forests. The overall scene is a mix of urban development and natural landscape.

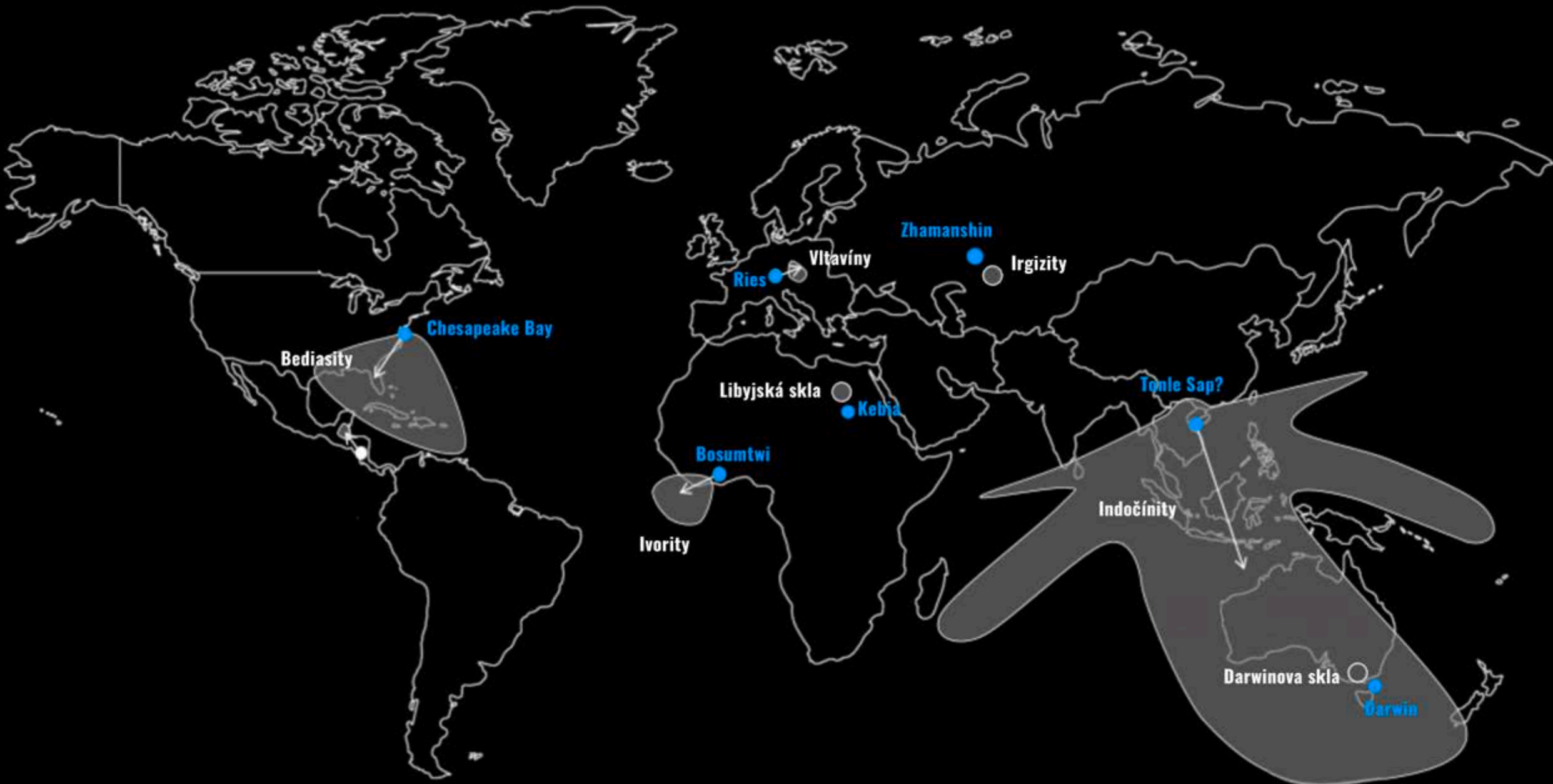


Eugene-Shoemaker-Platz

Professor Dr. Eugene Shoemaker
(*28.04.1928 †18.07.1997)
Planetologe, Astronom und Impaktforscher



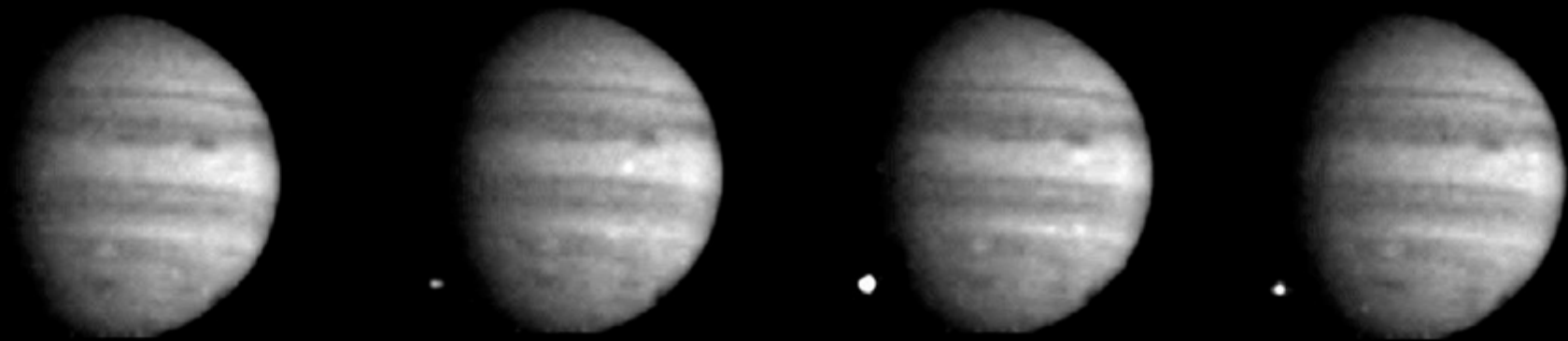








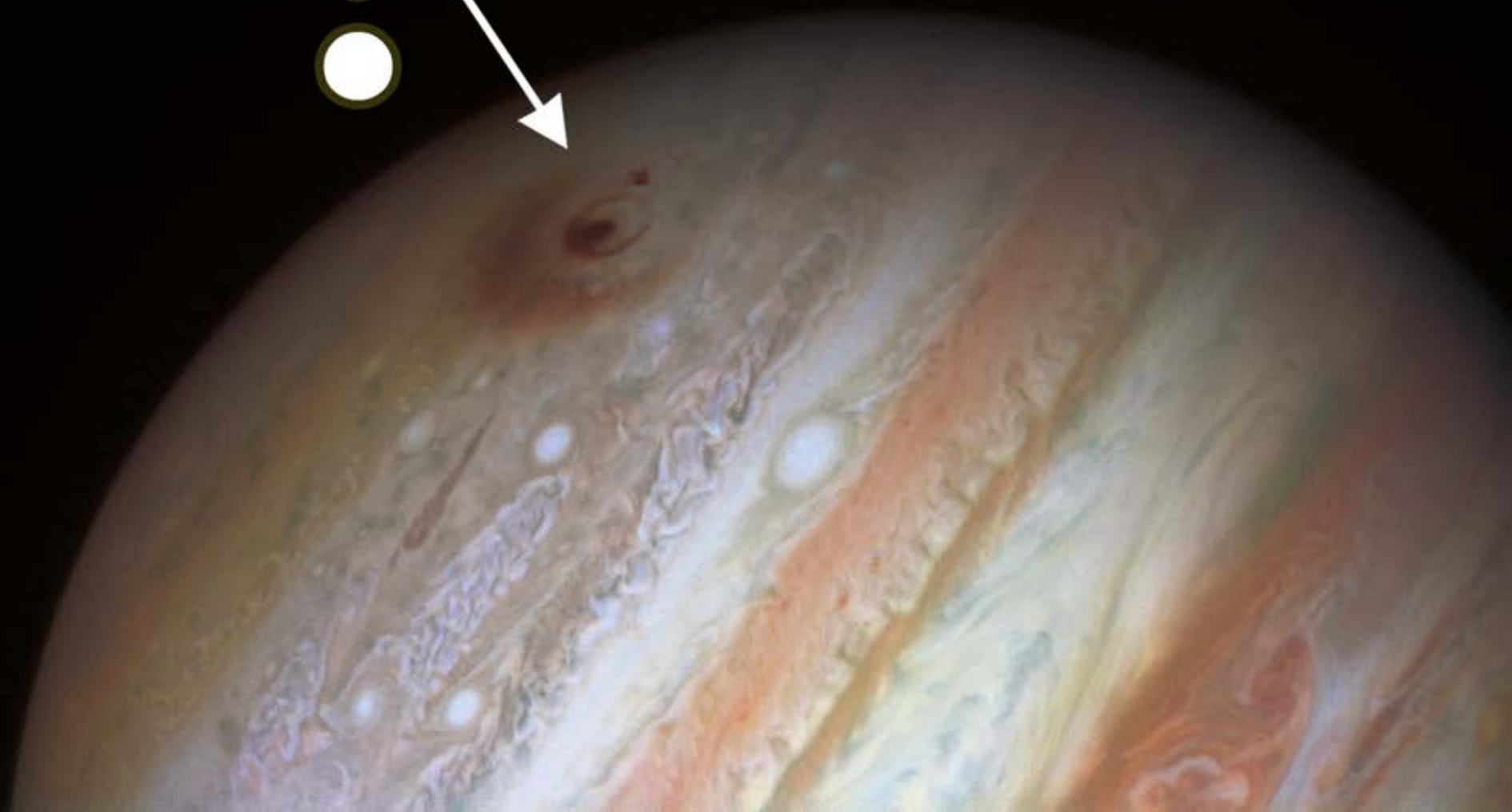
březen 1993

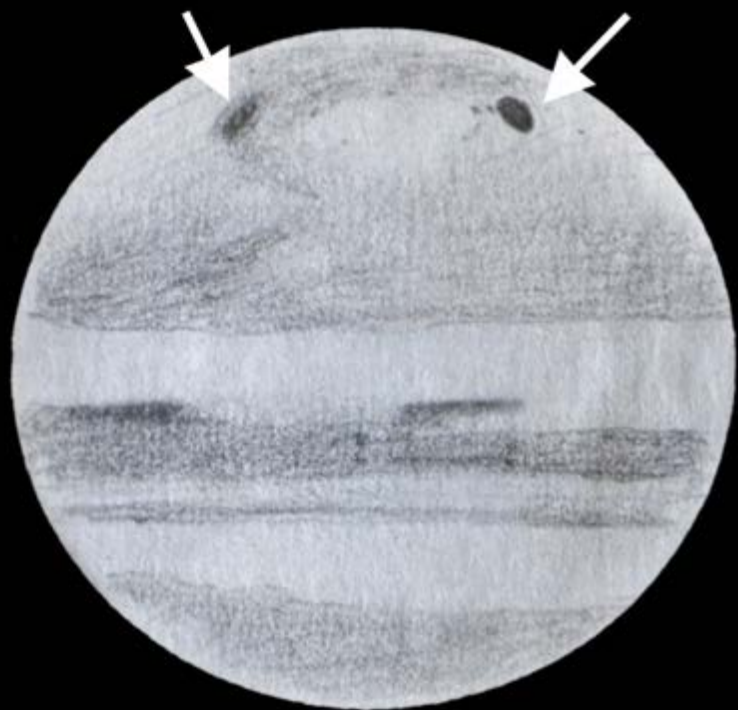






Velikost Země





1994 July 21

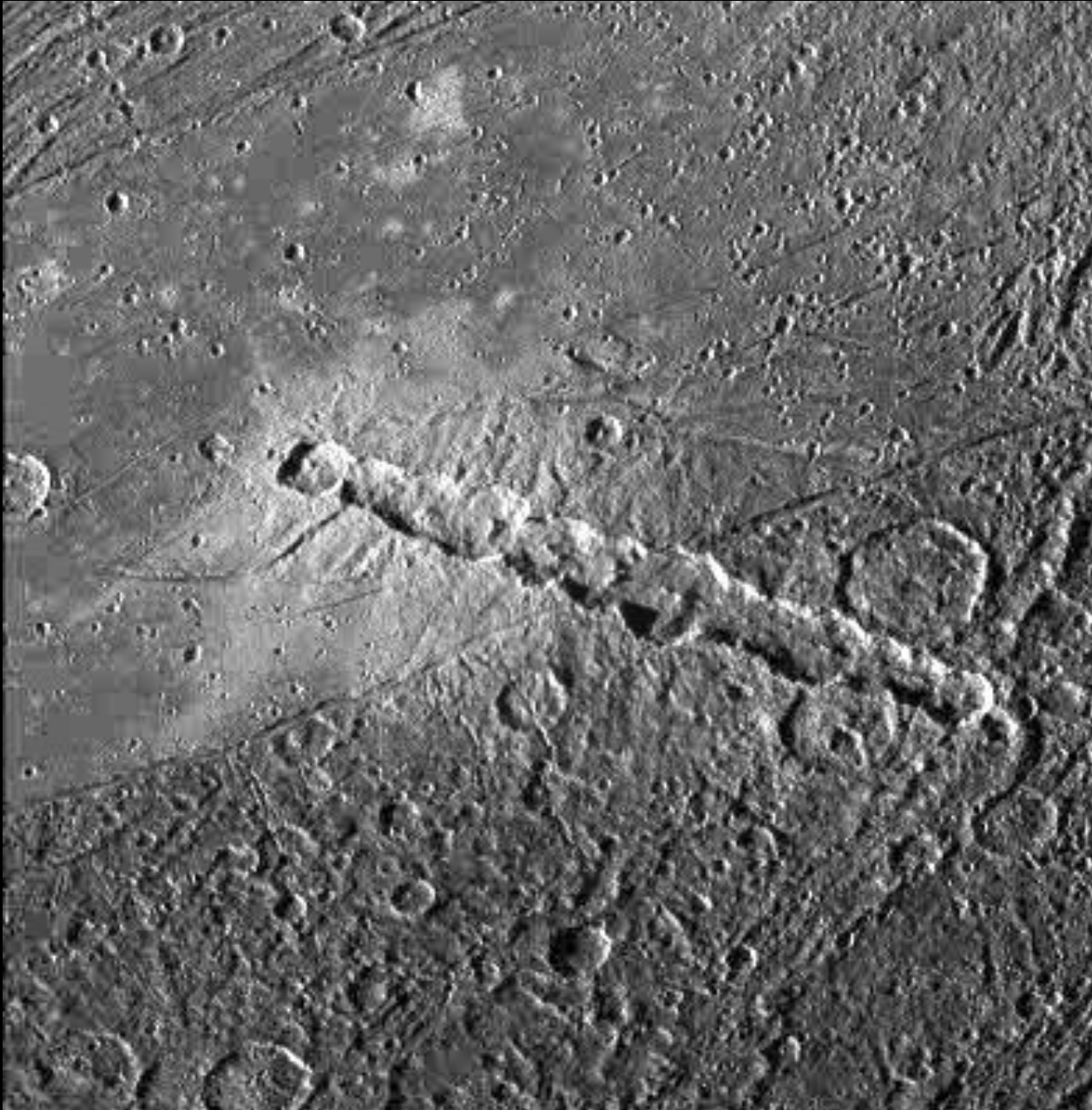
20:30 - 20:45 U.T.

11" Reflector (Newtonian)

Magnification: x 210

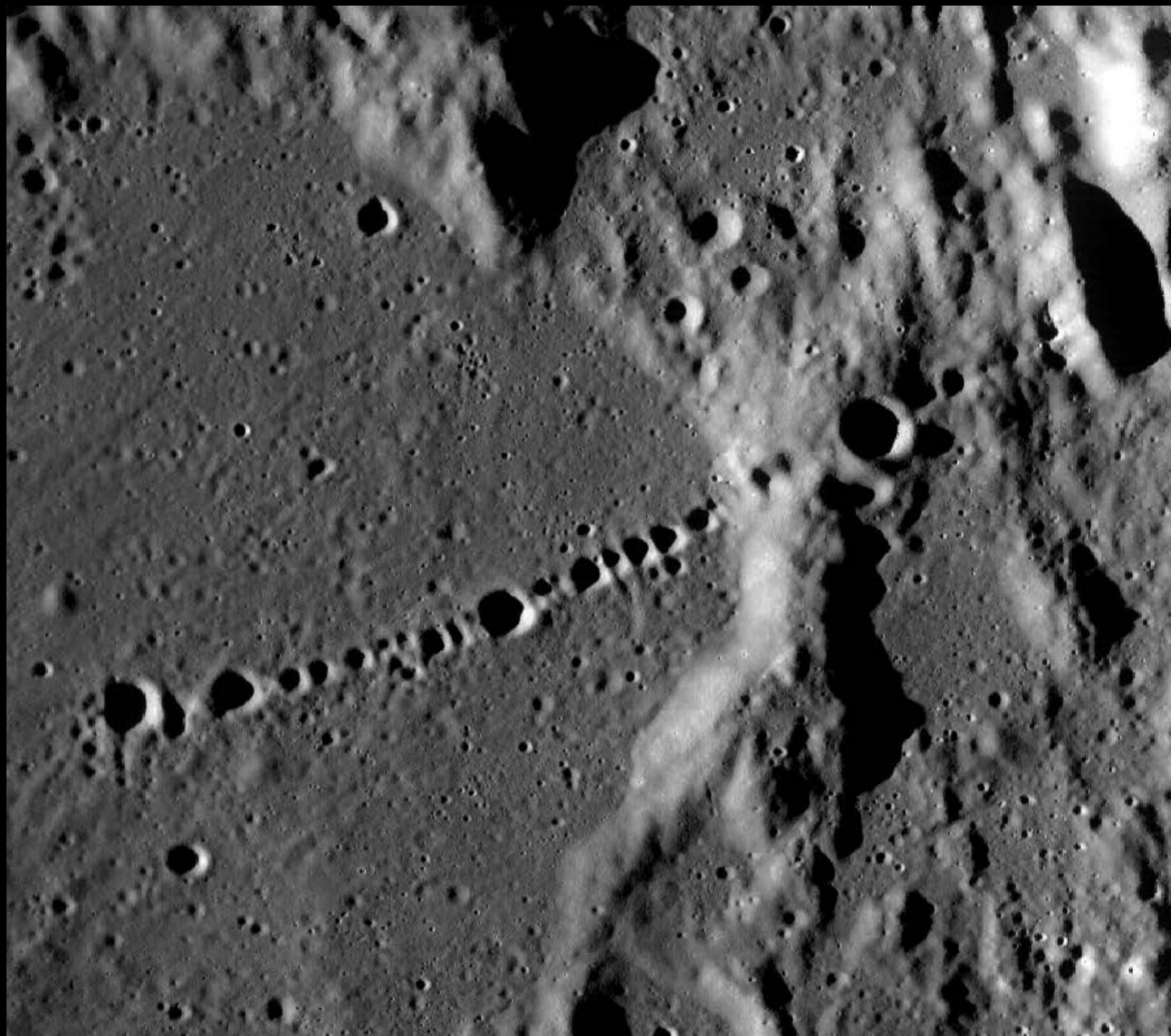
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Enki Catena Ganymed

(1997): Sonda Galileo



Catena Davy
Měsíc

Kosmická střelnice

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