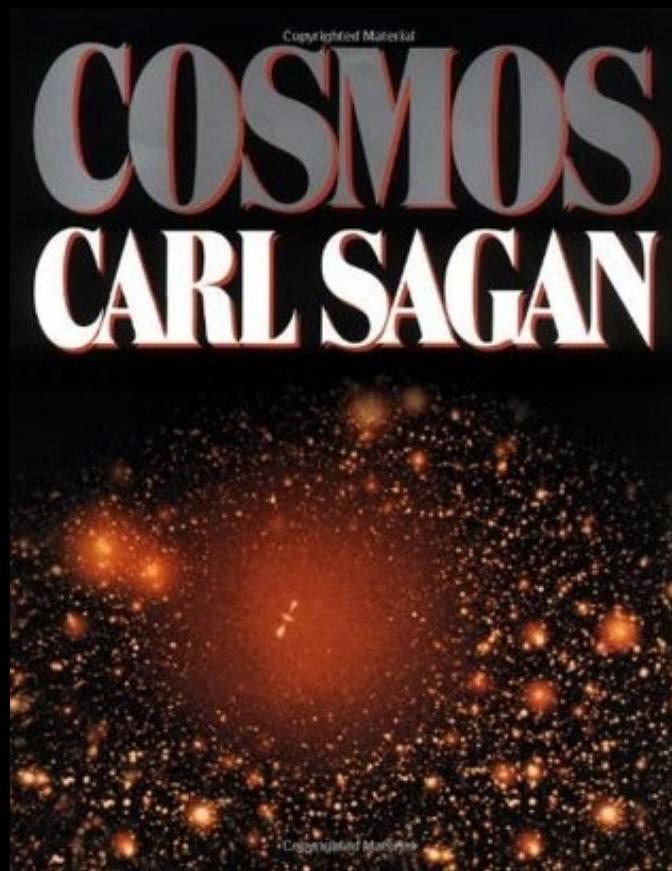


Cosmos: Capítulo I



Oscar Macias



UNIVERSITY
OF AMSTERDAM

GRAPPA MasterClass
<https://sites.google.com/view/grappamasterclass/home>

GRAPPA ✕ GRavitation AstroParticle Physics Amsterdam

El Grupo Local



El Grupo Local



Cluster globular de estrellas





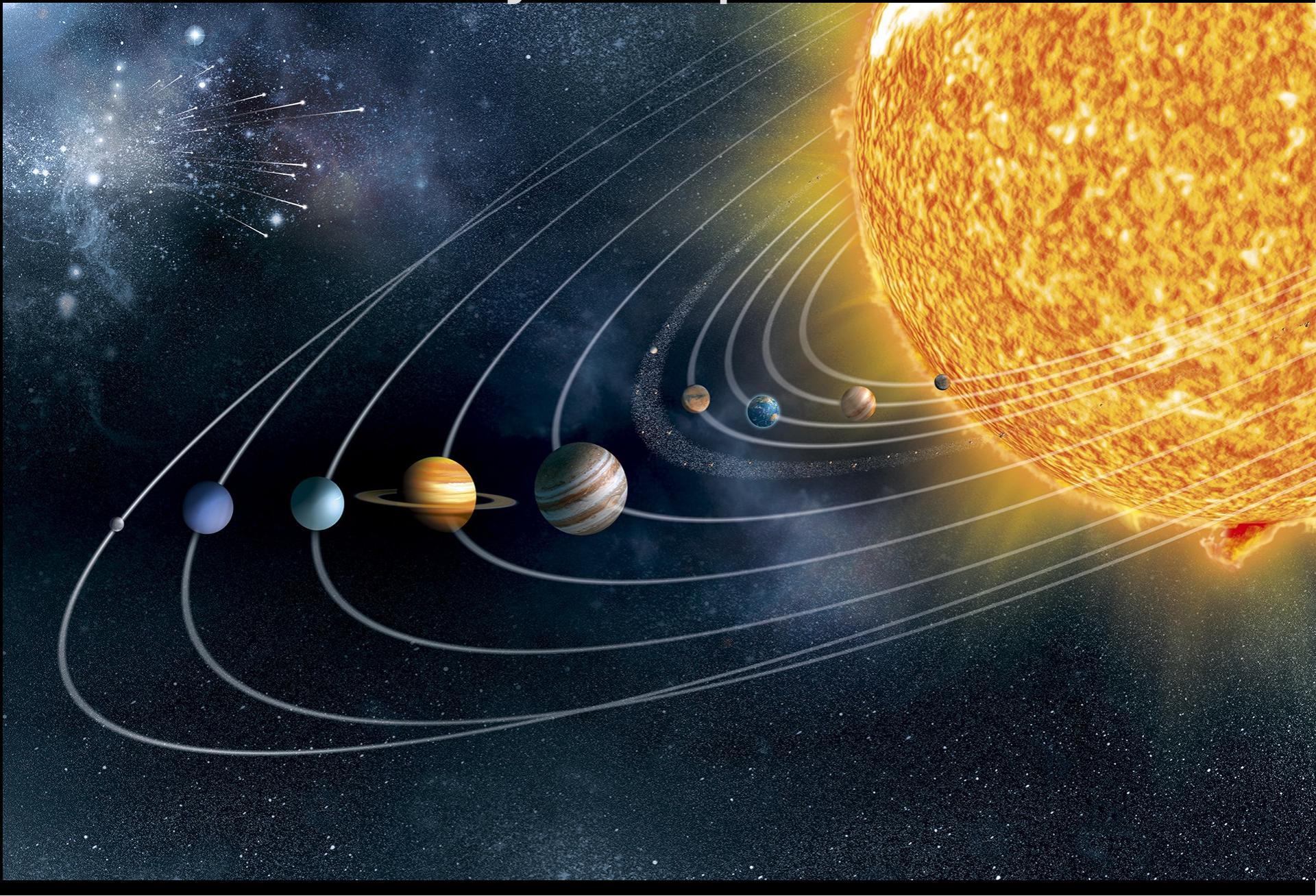
Centro galáctico

Brazo de Carina Cygnus,
¡Aquí vivimos nosotros!

La Vía Láctea vista de lado



El sol y sus planetas





El planeta (enano), Pluto

La Tierra



La Luna



Plutón

Plutón pesa el 0.02% de la Tierra o 17% de la Luna

Neptuno y su luna gigante

Neptuno



Tritón



17 más pesado que la Tierra, temperatura -213 °C

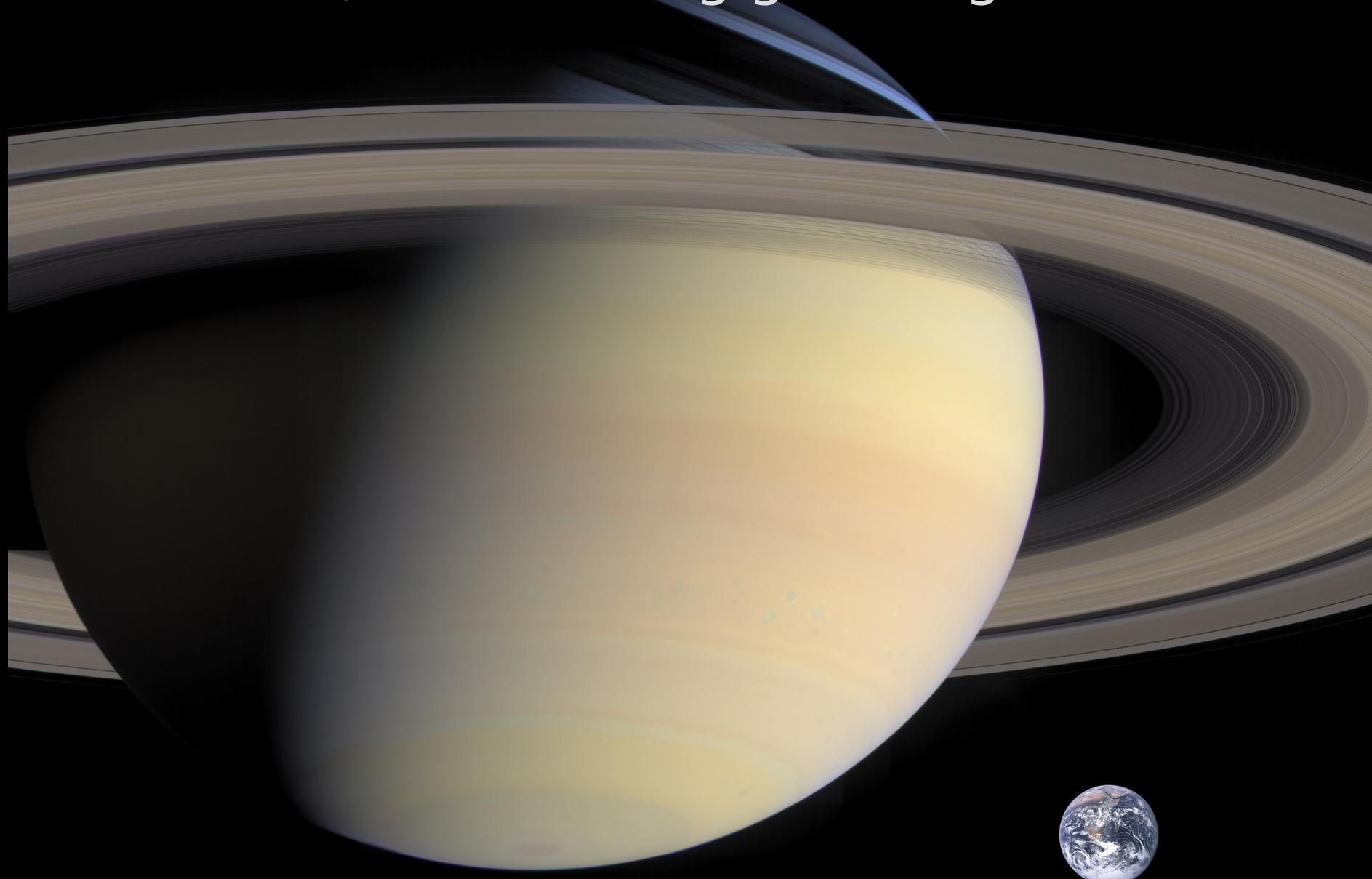
Urano, otro de los gigantes congelados



Urano es 14 veces más pesado que la Tierra

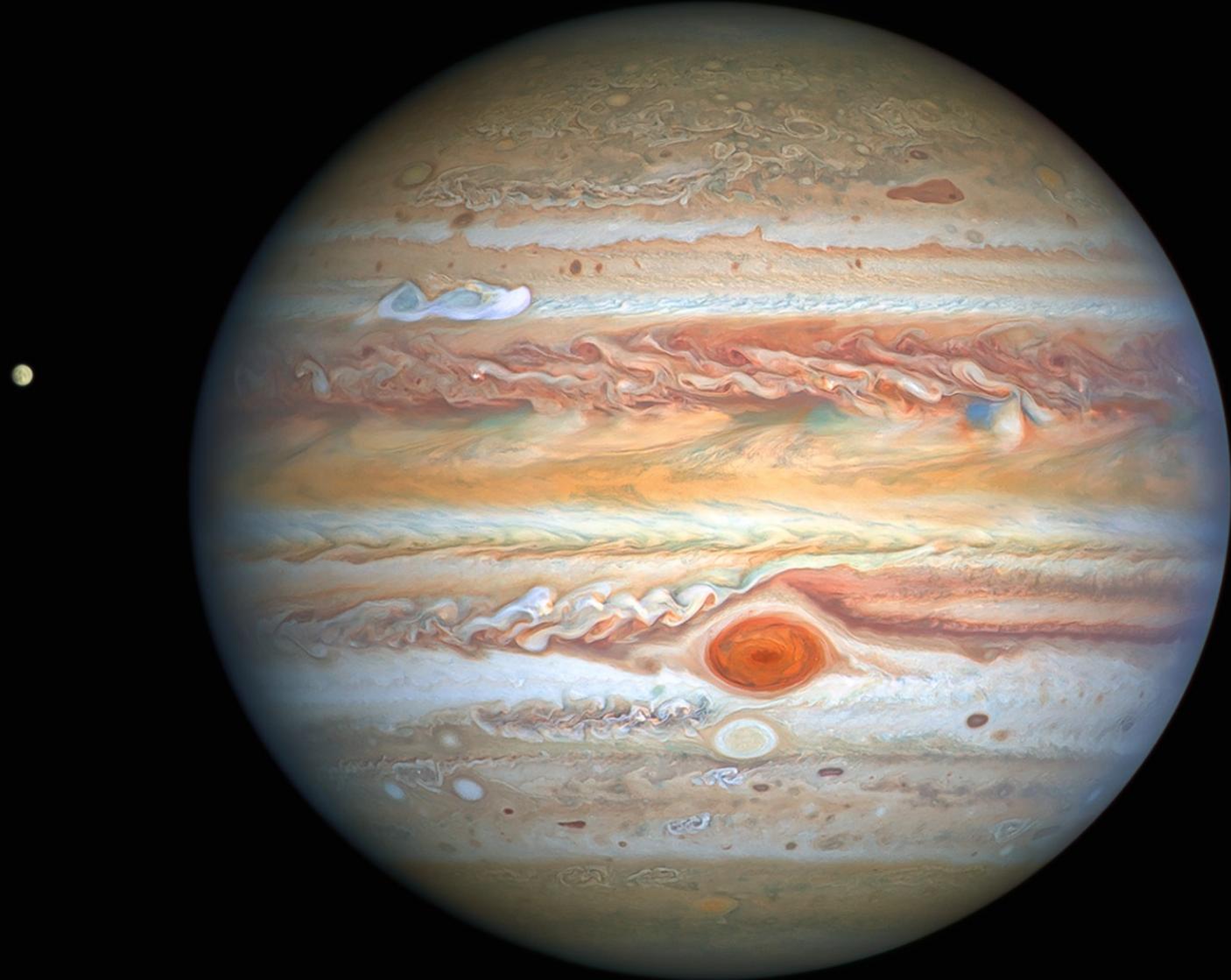


Saturno, uno de los gigantes gaseosos

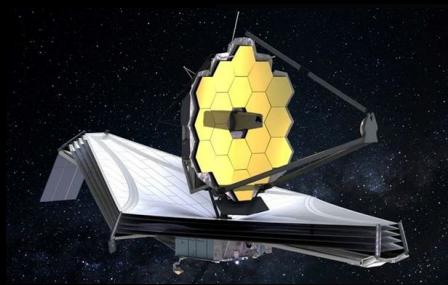


95 veces más pesado que la Tierra

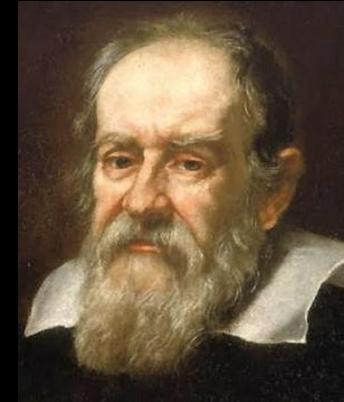
Júpiter, el planeta más grande del sistema solar



¡317 veces más pesada que la Tierra!

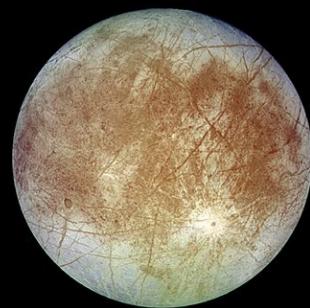


Las cuatro lunas descubiertas por Galileo Galilei



Io

3600 km



Europa

3100 km



Ganymedes

5200 km



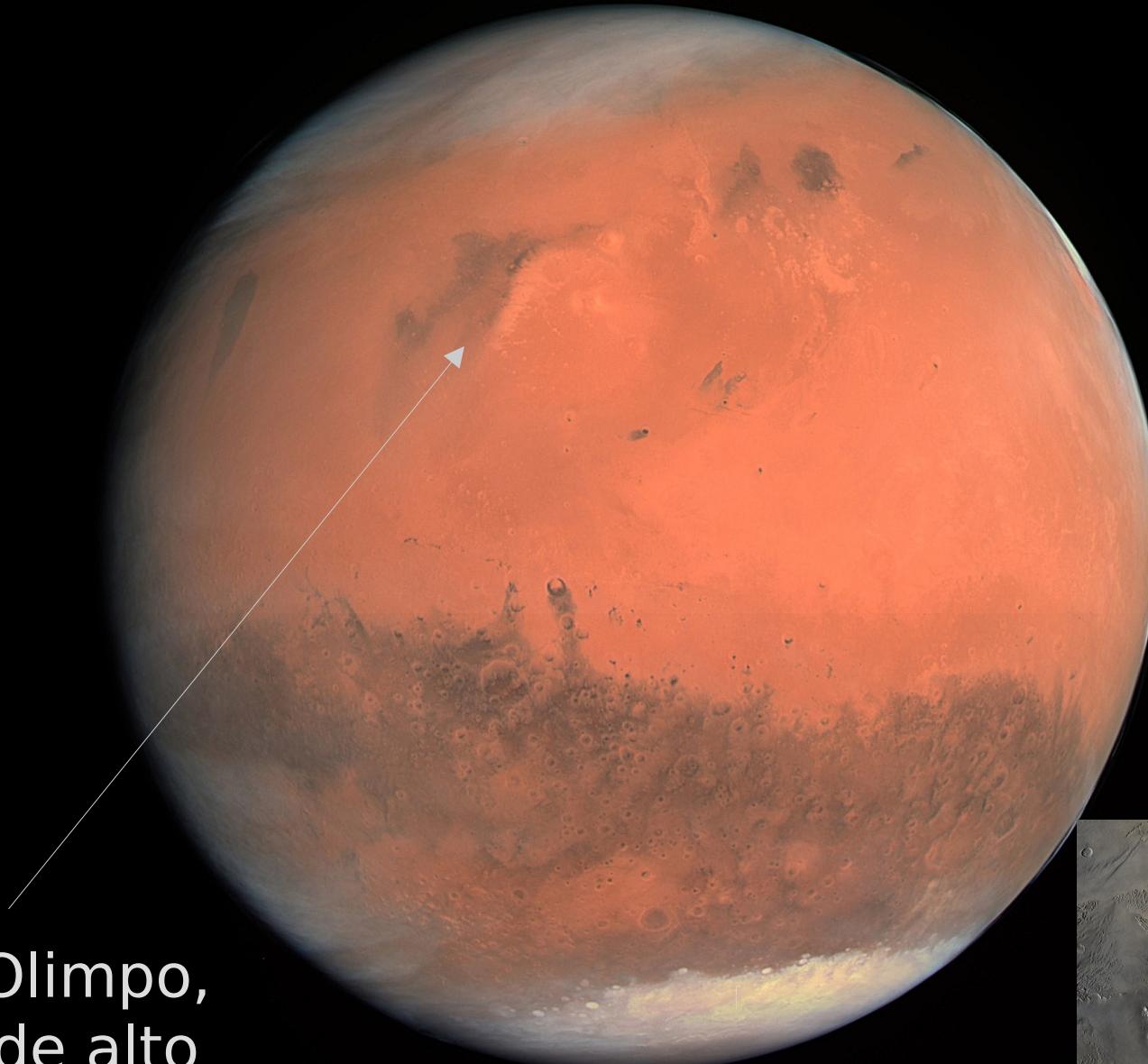
Callisto

4800 km

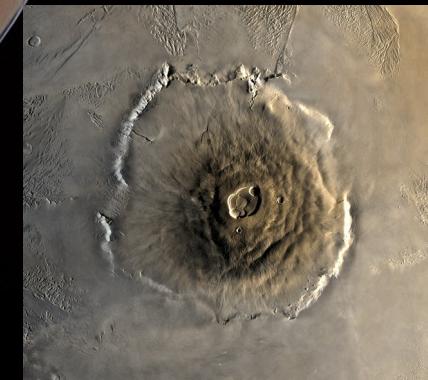
Diametros de las lunas de Júpiter



Marte (10% la masa de la Tierra)



Monte Olimpo,
21 km de alto



El robot “Mars rovers” en Marte

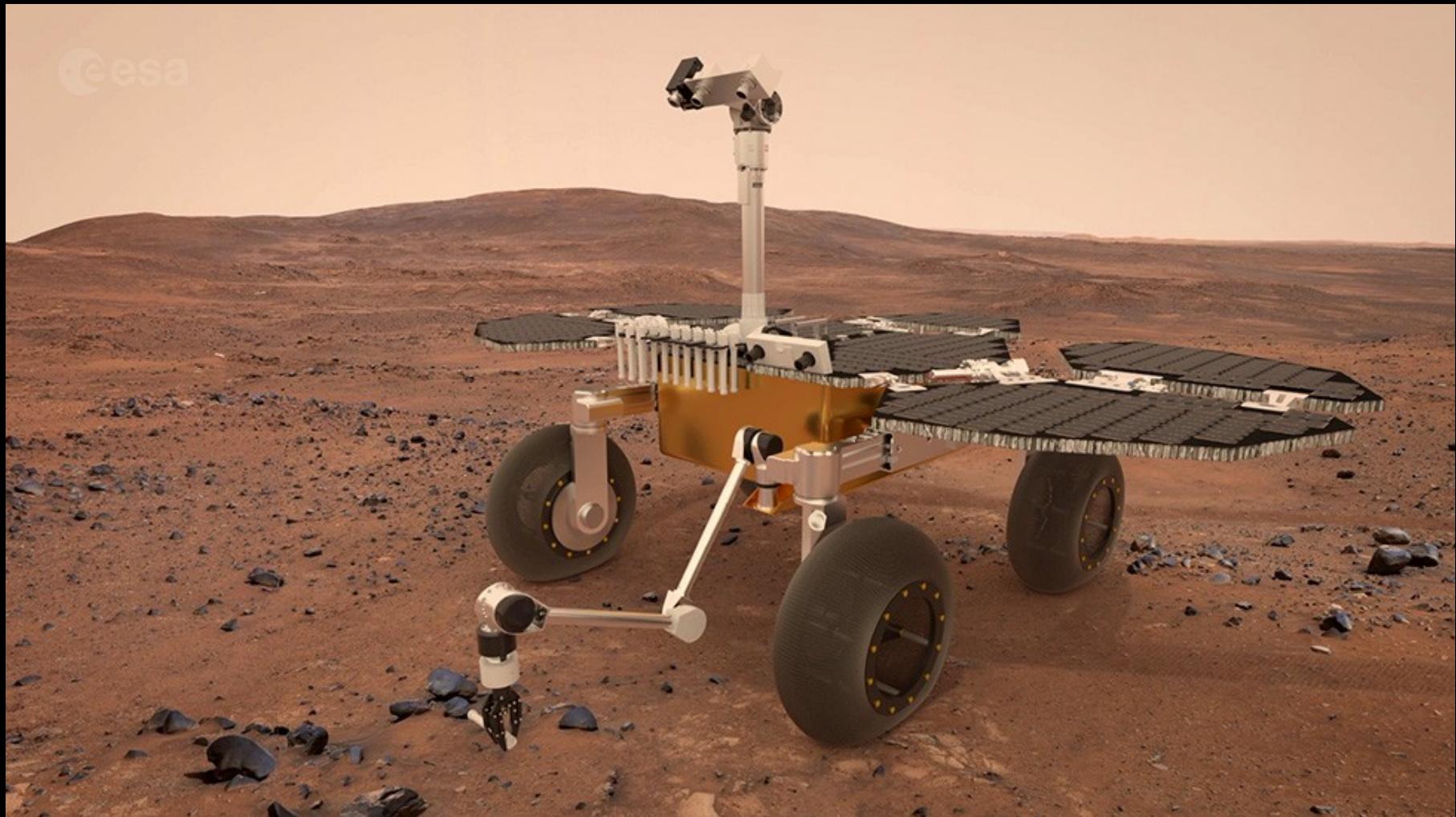
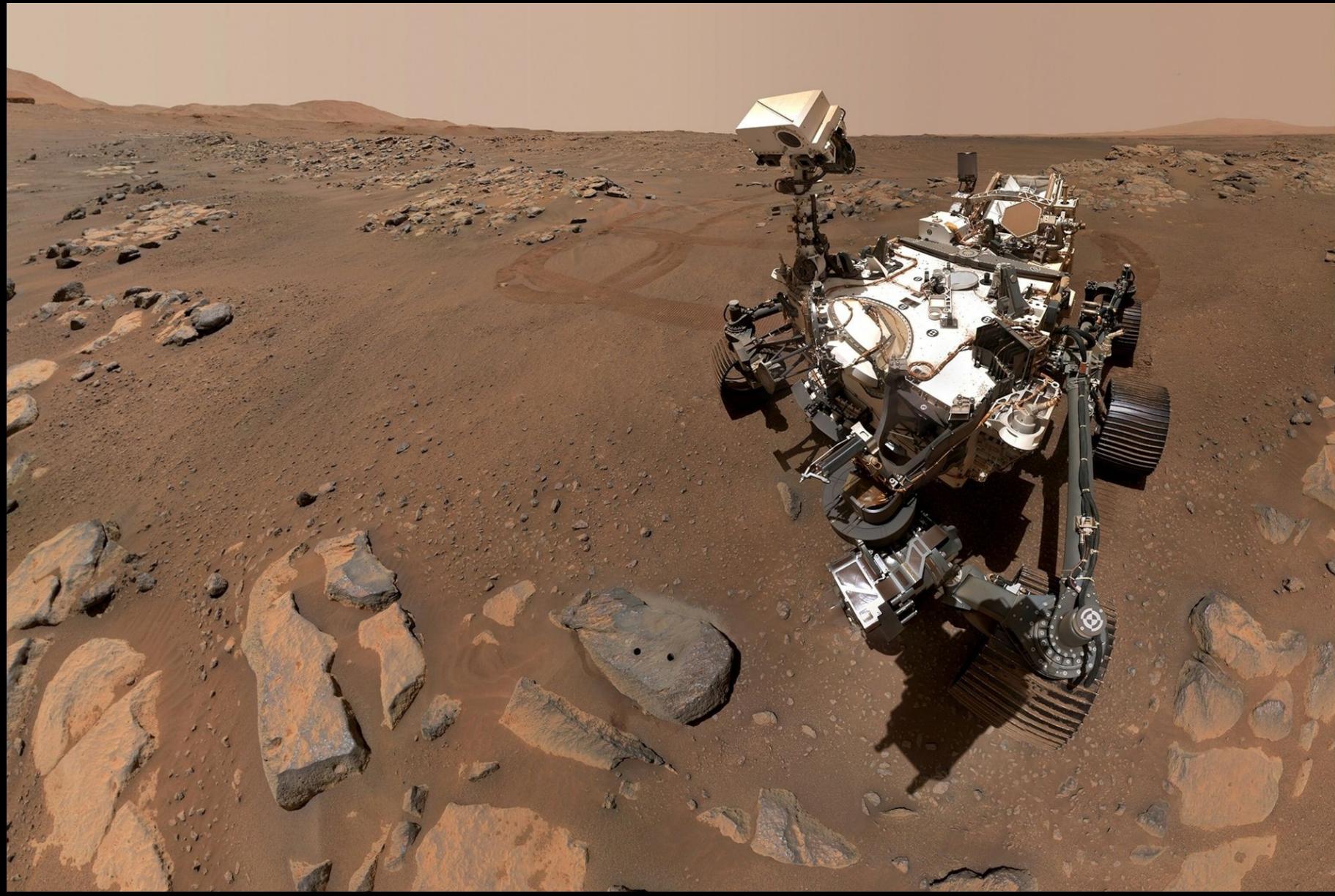


Foto de Marte tomada por el rovers





Envia tu nombre a Marte!!!



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Mercurio



Venus



Marte



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Clave: 2022