



lo que hemos (des)aprendido

gracias a la ciencia



Prehistoria

En Lácara o en Stonehenge observaban el cielo que era su calendario



La tierra era plana

Anaximandro (VI a.C.)

“cosmos” (perfección, conjunto ordenado), “mundus” (limpio, elegante)



La tierra era el centro

Aristoteles (IV a.C.) y Ptolomeo (II)

“planētēs” (vagabundos, errantes)





El sol era el centro

Aristarco (IV a.C) y luego Copérnico (XVI)

NICOLAI COPERNICI

net, in quo terram cum orbe lunari tanquam epicyclo contineri diximus. Quinto loco Venus nō mēte reducitur; Sextum deniq; locum Mercurius tenet, octuaginta dierum spacio circūcurrentis. In medio uero omnium residet Sol. Quis enim in hoc



REVOLUTIONVM LIB. I.

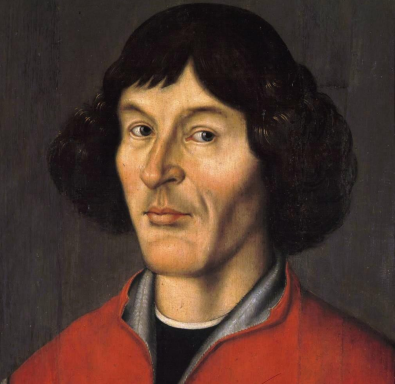
hac ordinatione admirandam mundi symmetriam, ac certū har moniæ nexum motus & magnitudinis orbium: qualis alio mo do reperiri non potest. Hic enim licet animaduertere, nō segni ter contemplanti, cur maior in Ioue progressus & regressus ap pareat, quā in Saturno, & minor quā in Marte: ac rursus ma ior in Venere quā in Mercurio. Quodq; frequentior appare at in Saturno talis reciprocatio, quā in Ioue: rarior adhuc in Marte, & in Venere, quā in Mercurio. Præterea quod Satur nus, Iupiter, & Mars acronycti propinquoires sint terræ, quā circa eorū occultationem & apparitionem. Maxime uero Mars pernox factus magnitudine Iouem æquare uidetur, colore dun taxat rutilo discretus: illic autem uix inter secundæ magnitudi nis stellæ inuenitur, sedula obseruatione sectantibus cognitus. Quæ omnia ex eadem causa procedunt, quæ in telluris est mo tu. Quod autem nihil eorū apparet in fixis, immensam illorū arguit celsitudinem, quæ faciat etiam annui motus orbem siue eius imaginem ab oculis euanescere. Quoniam omne uisibile lon gitudinem distantie habet aliquam, ultra quam non amplius spectatur, ut demonstratur in Opticis. Quod enim à supremo errantium Saturno ad fixarum sphaeram adhuc plurimum in terit, scintillantia illorum lumina demōstrant. Quo indicio ma xime discernuntur à planetis, quodq; inter mota & non mota, maximam oportebat esse differentiam. Tanta nimirum est diui na hæc Opti. Max. fabrica.

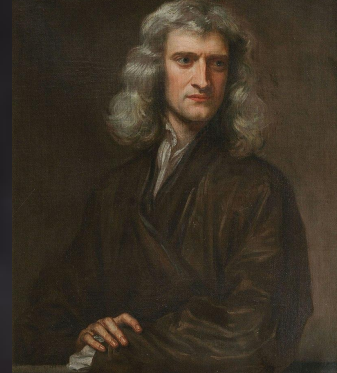
Detriplici motu telluris demonstratio. Cap. xi.

mobilitati terrene tot tantaq; errantium consentiant testimonia, iam ipsum motum in lumina exponemus, quatenus apparentia per ip sum tanquā hypotesim demonstrantur, quæ triplicē omnino oportet admittere. Primum quem diximus, quæ à Græcis uocari, diei noctisq; circuitum proprium, circa axem telluris, ab occasu in ortum urgentem, prout in diuersum mun

Unusq; Magnitudo Iovis nati sit distantia Maxima. Vbi quam maxime Venus requirit.

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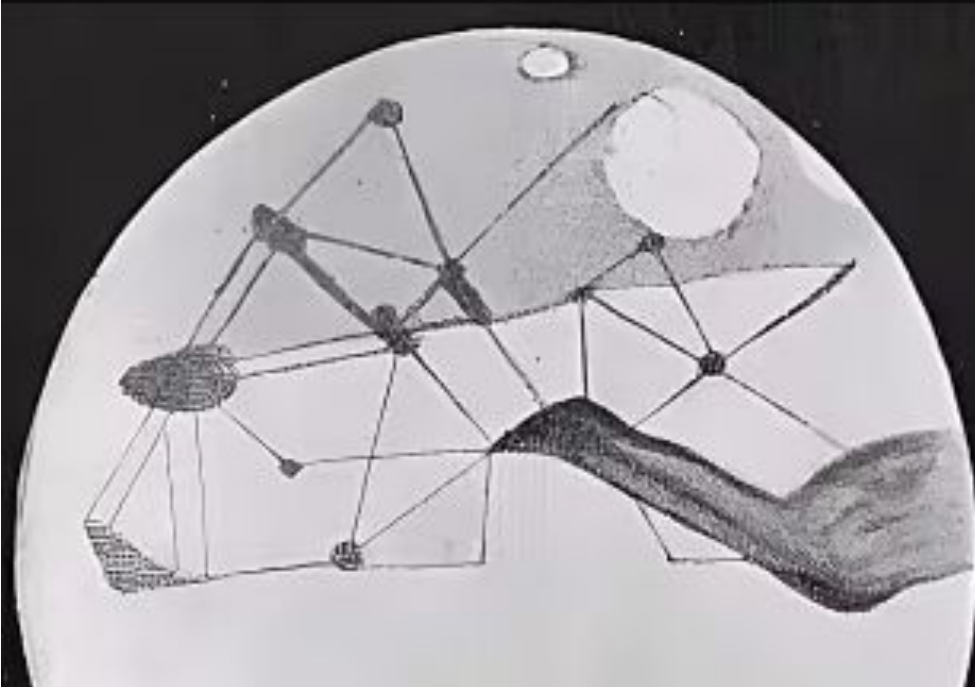


El sol también se mueve

Galileo (XVI-XVII), Kepler (XVII)

Newton (XVII-XVIII), Herschel (XVIII)

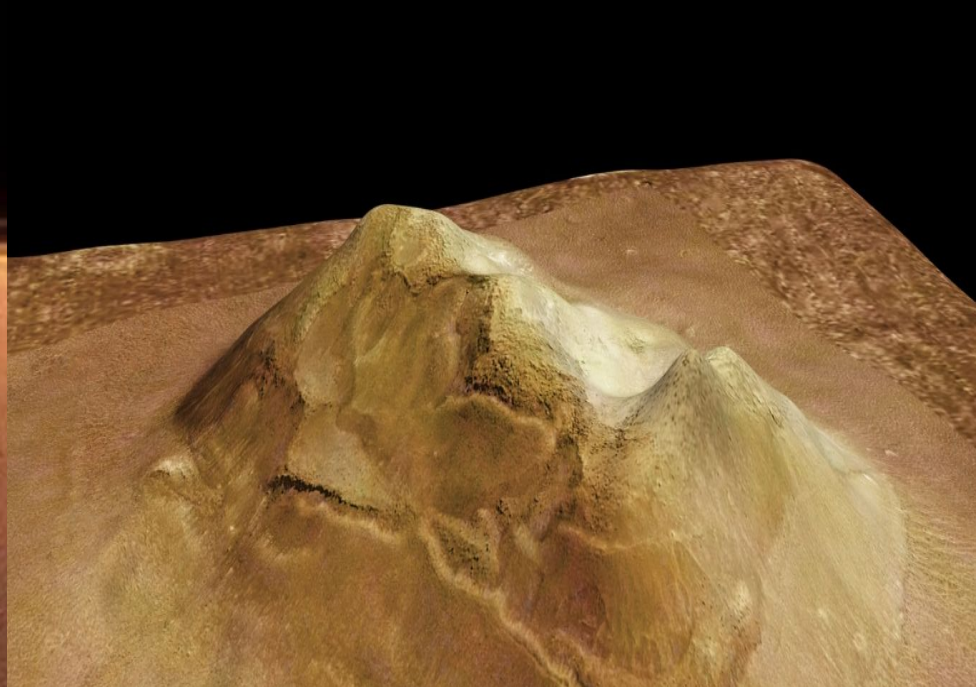




Canales y caras en Marte

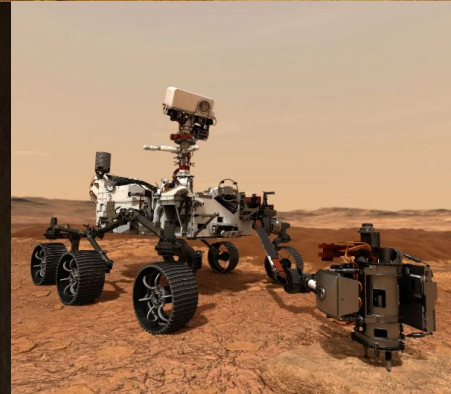
Percival Lowell (XX), Sonda Viking

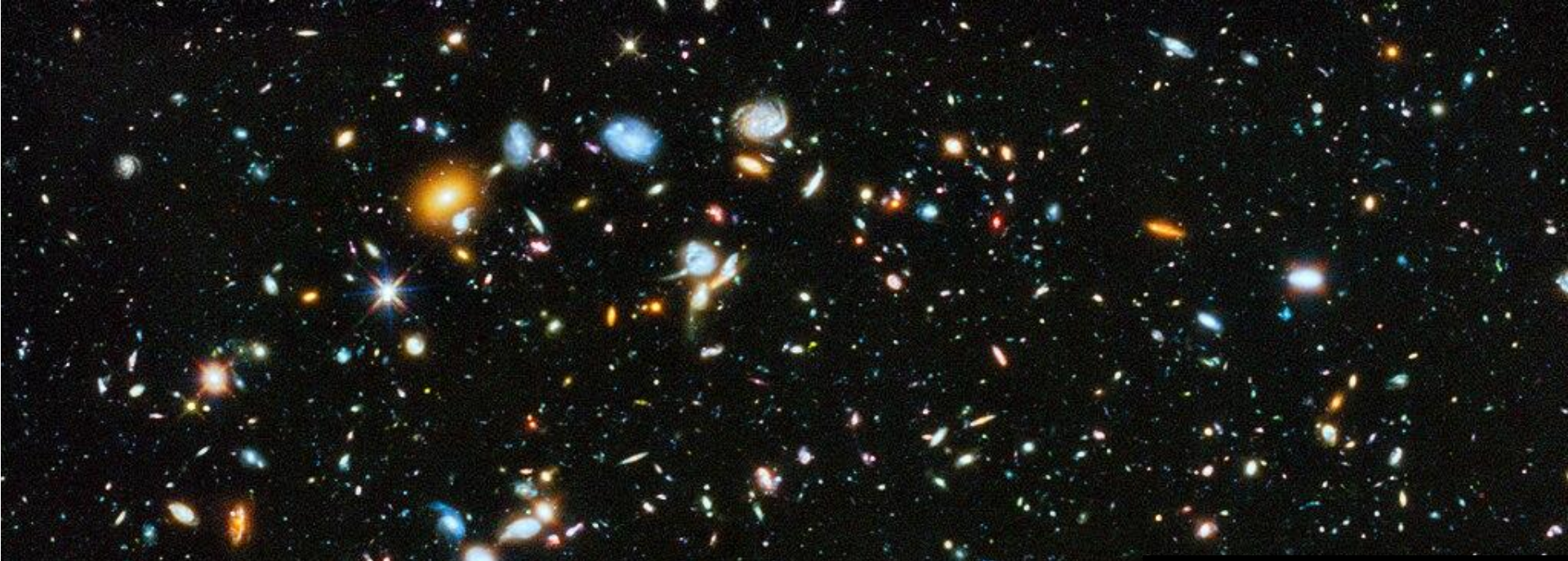




Marte en realidad

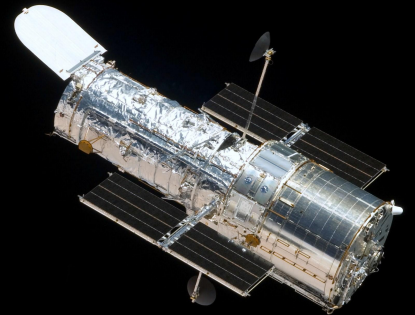
Sondas y rovers





Millones de años luz...

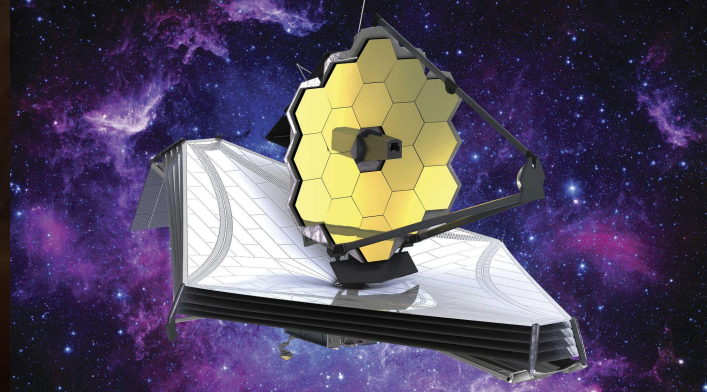
Telescopio Hubble






Y billones a años luz...

Telescopio James Webb





10, 9, 8, 7, 6, 5, 4, 3, 2, 1, liftoff!

curiosidad, imaginación, razón