



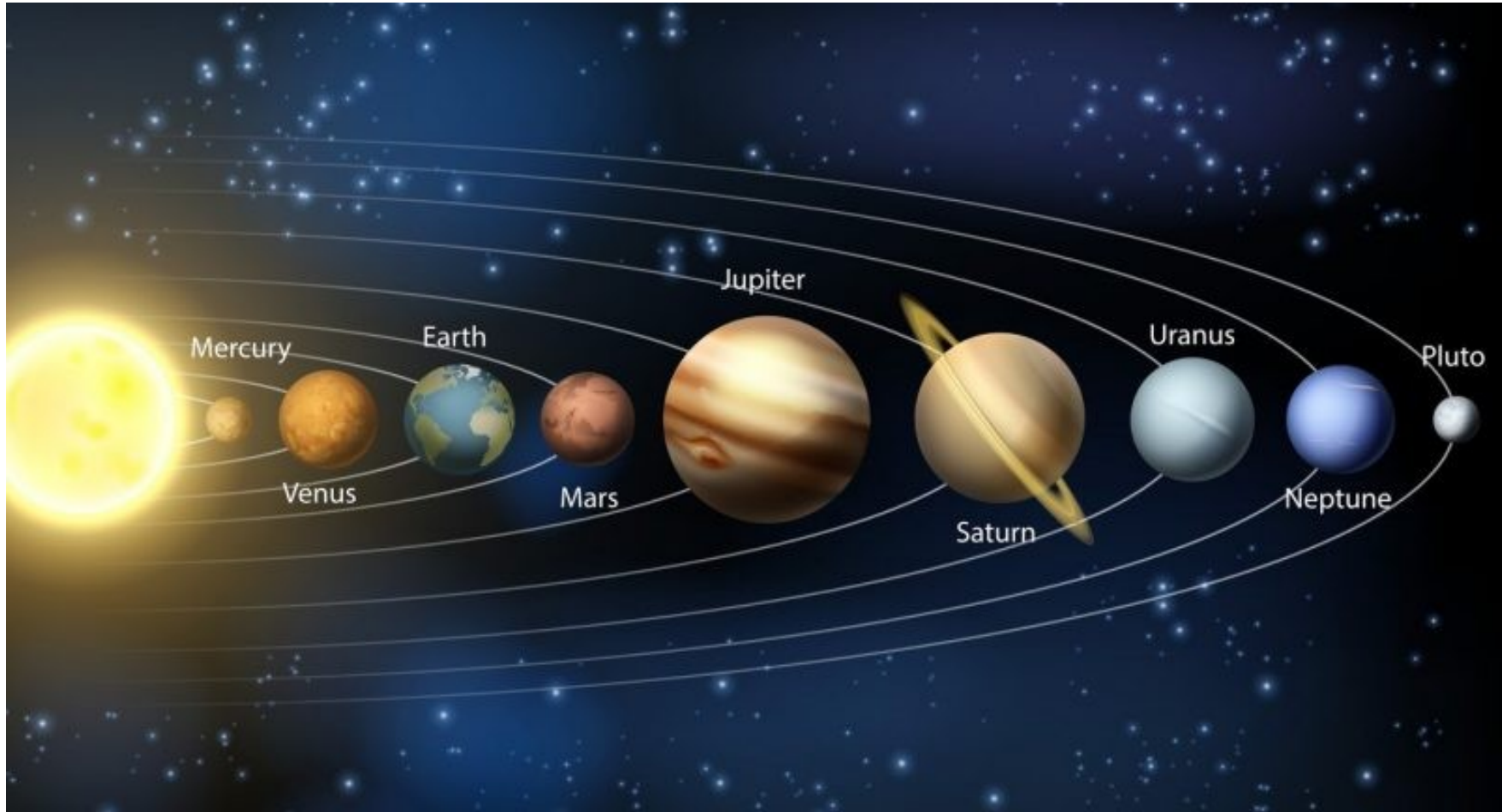
Curso: Astronomía general

Semestre: 2022-2

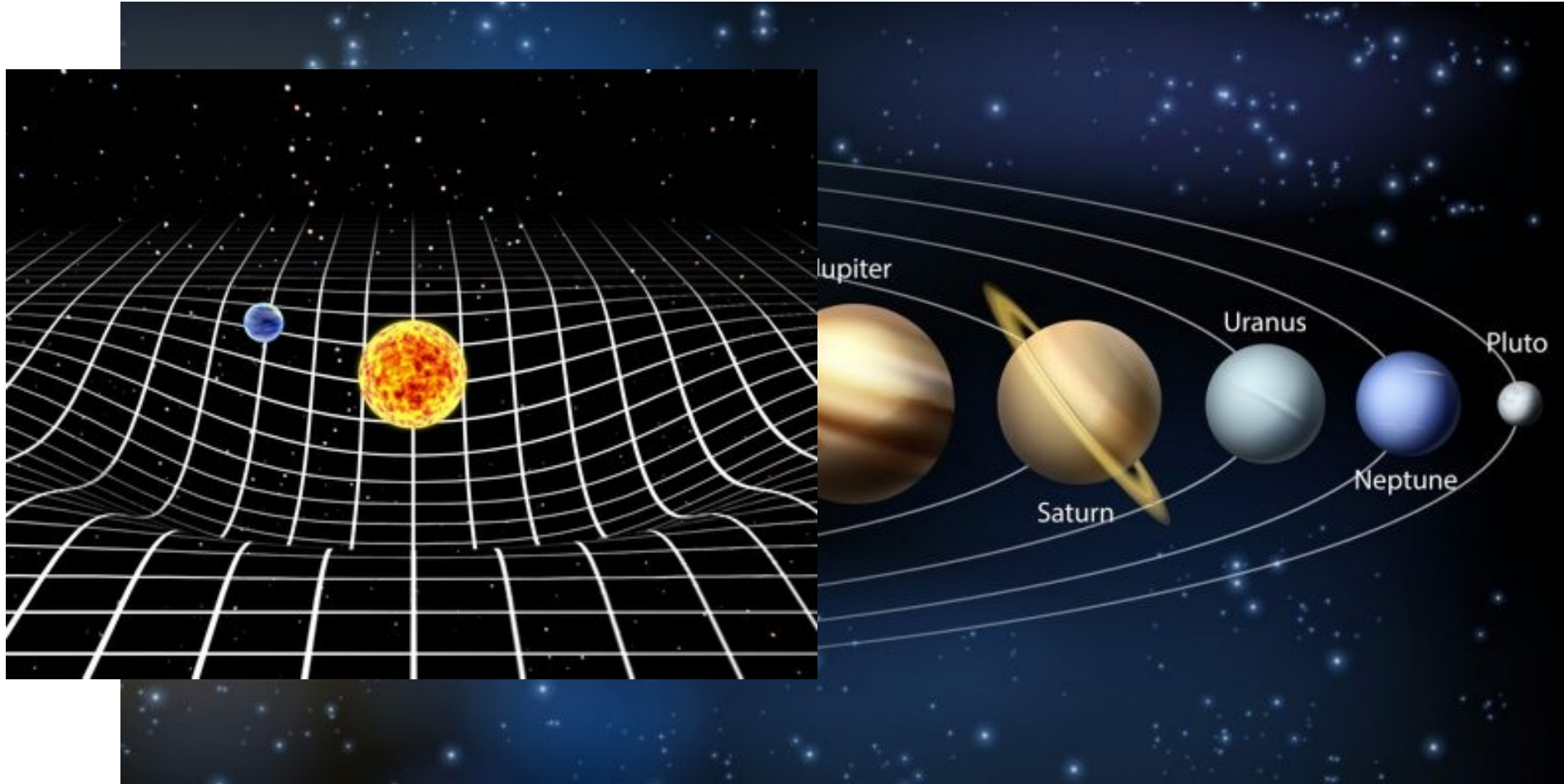
Profesor: Christian Sarmiento Cano [@socavon_](#)

Escuela de Física, Universidad Industrial de Santander

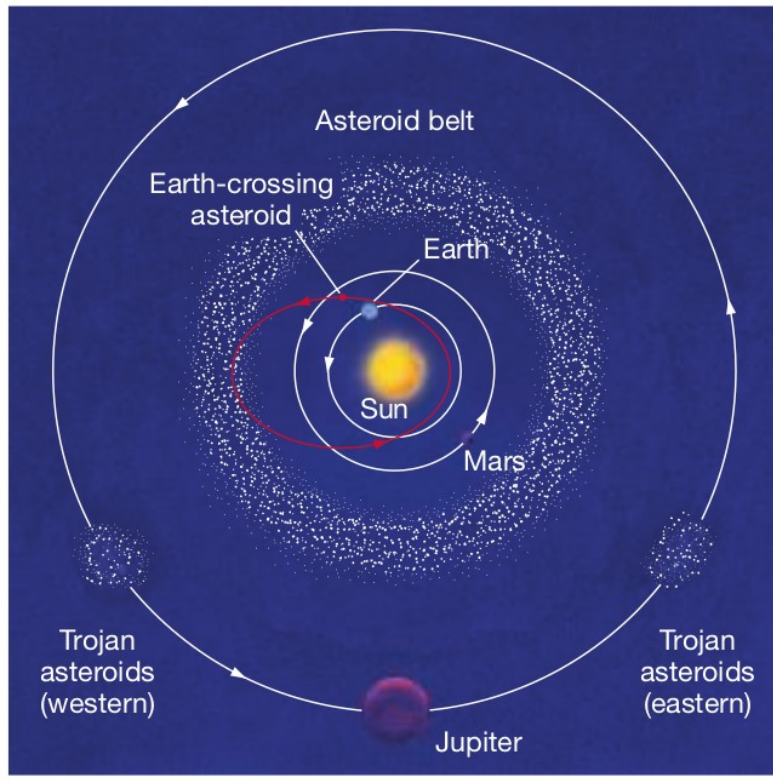
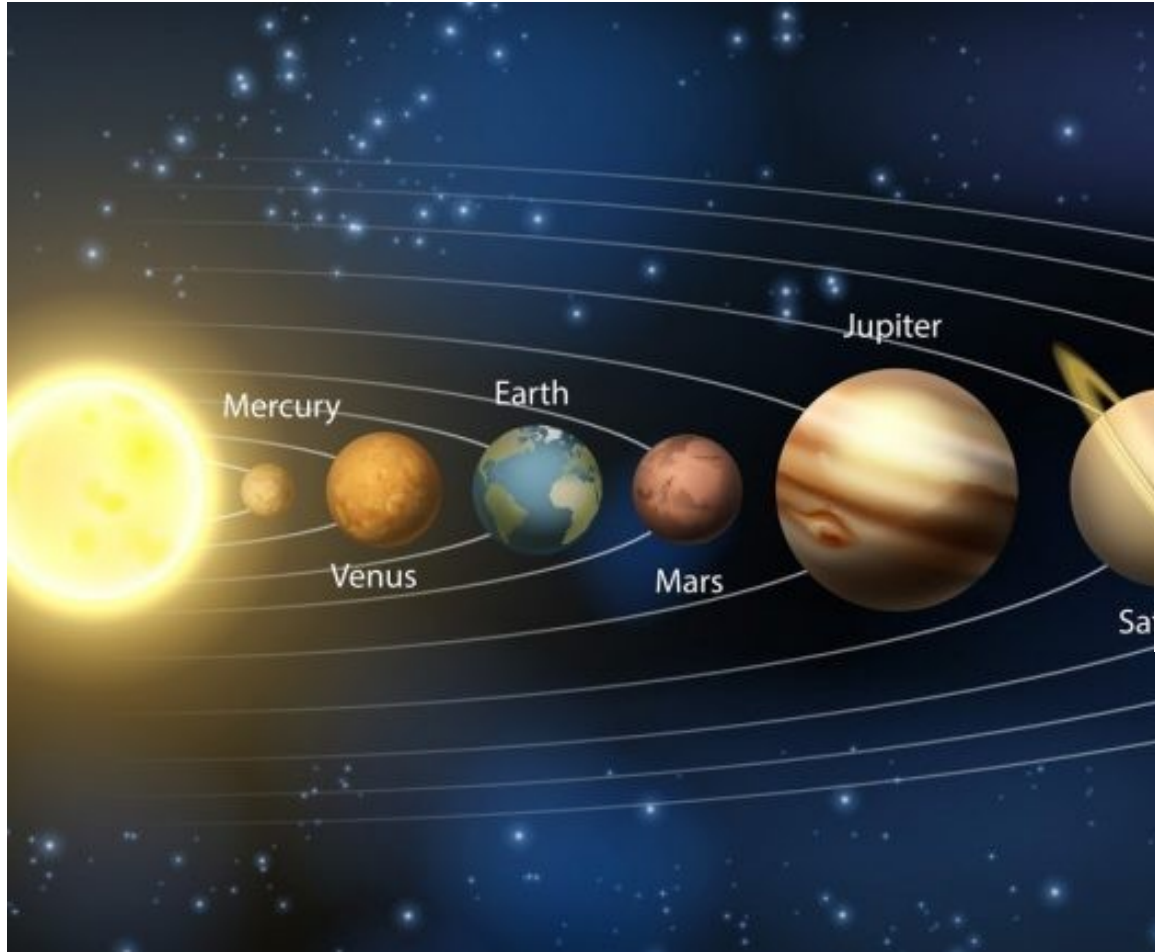
Sistema solar



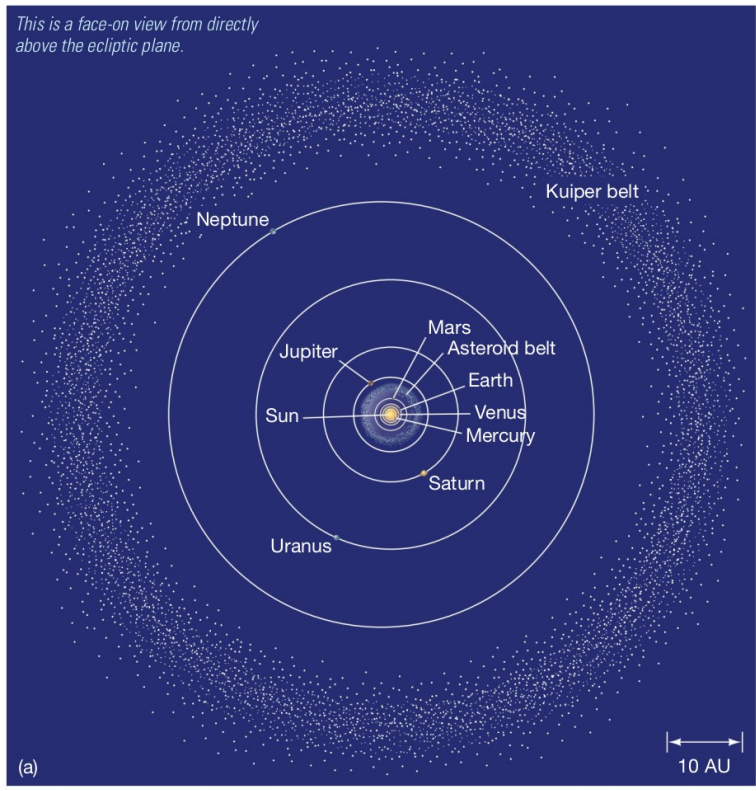
Sistema solar



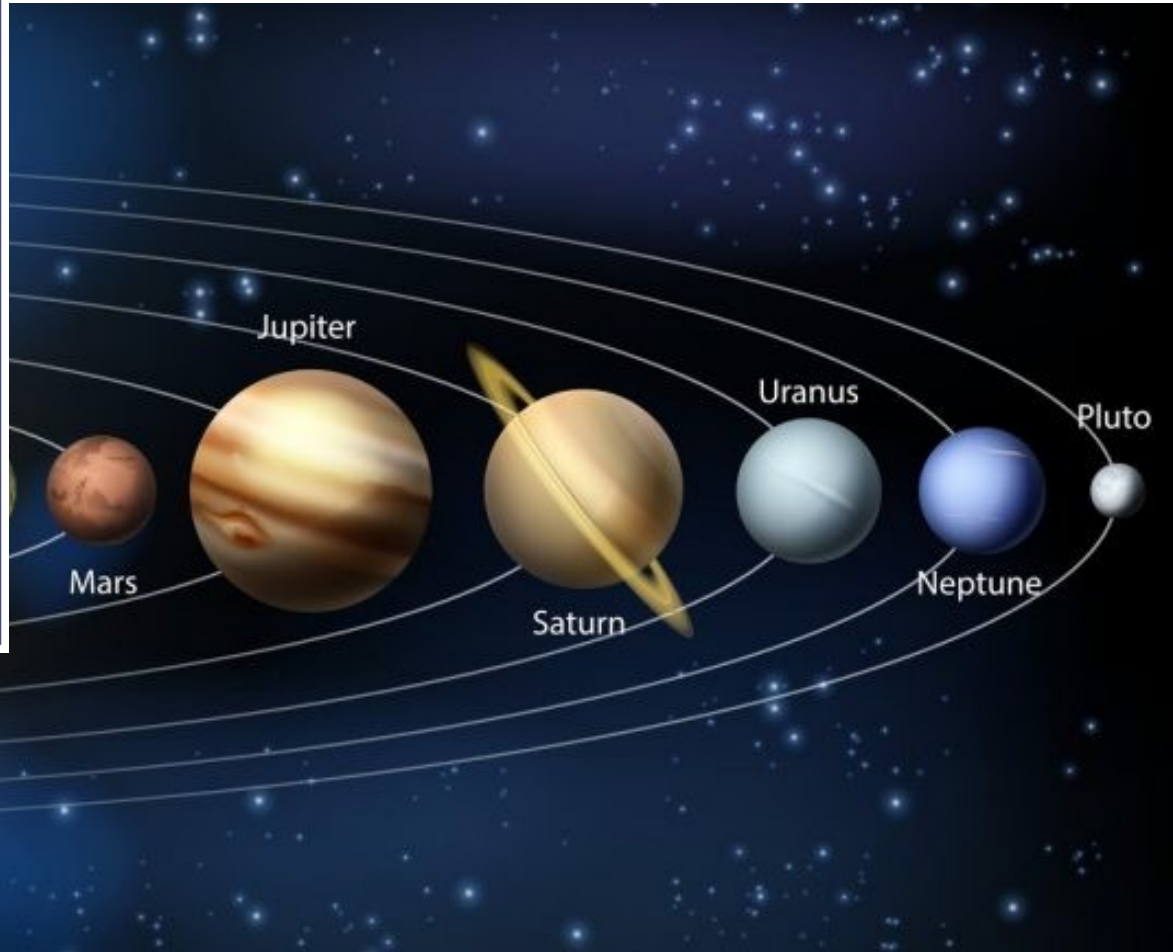
Sistema solar



This is a face-on view from directly above the ecliptic plane.



Sistema solar



Sistema solar

TABLE 4.1 Properties of Some Solar System Objects

Object	Orbital Semimajor Axis (AU)	Orbital Period (Earth Years)	Mass (Earth Masses)	Radius (Earth Radii)	Number of Known Moons	Average Density (kg/m ³) (Earth = 1)	
Mercury	0.39	0.24	0.055	0.38	0	5400	0.98
Venus	0.72	0.62	0.82	0.95	0	5200	0.95
Earth	1.0	1.0	1.0	1.0	1	5500	1.00
Moon	—	—	0.012	0.27	—	3300	0.60
Mars	1.5	1.9	0.11	0.53	2	3900	0.71
Ceres (asteroid)	2.8	4.7	0.00015	0.073	0	2700	0.49
Jupiter	5.2	11.9	318	11.2	67	1300	0.24
Saturn	9.5	29.4	95	9.5	62	700	0.13
Uranus	19.2	84	15	4.0	27	1300	0.24
Neptune	30.1	164	17	3.9	14	1600	0.29
Pluto (Kuiper-belt object)	39.5	249	0.002	0.2	5	2100	0.38
Comet Hale-Bopp	180	2400	1.0×10^{-9}	0.004	—	100	0.02
Sun	—	—	332,000	109	—	1400	0.25

Planetas terrestres y jovianos

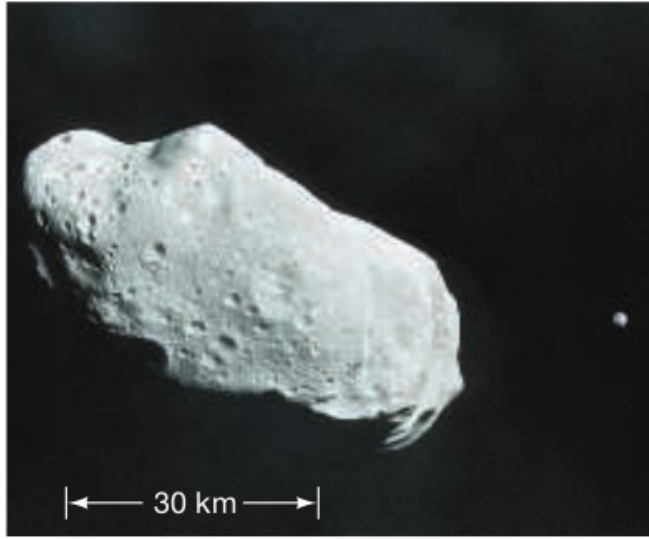
- Terrestres:
 - Mercurio, Venus, Tierra y Marte
- Jovianos:
 - Jupiter, Saturno, Urano, Neptuno

Planetas terrestres y jovianos

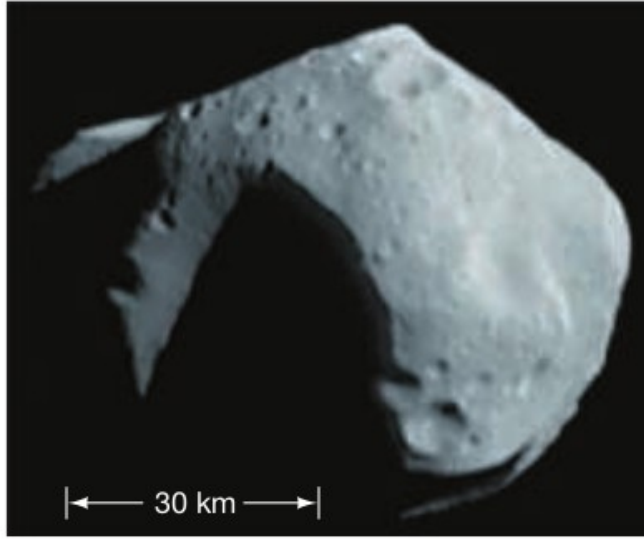
TABLE 4.2 Comparison Between the Terrestrial and Jovian Planets

Terrestrial	Jovian
close to the Sun	far from the Sun
closely spaced orbits	widely spaced orbits
small masses	large masses
small radii	large radii
predominantly rocky	predominantly gaseous
solid surface	no solid surface
high density	low density
slower rotation	faster rotation
weak magnetic fields	strong magnetic fields
no rings	many rings
few moons	many moons

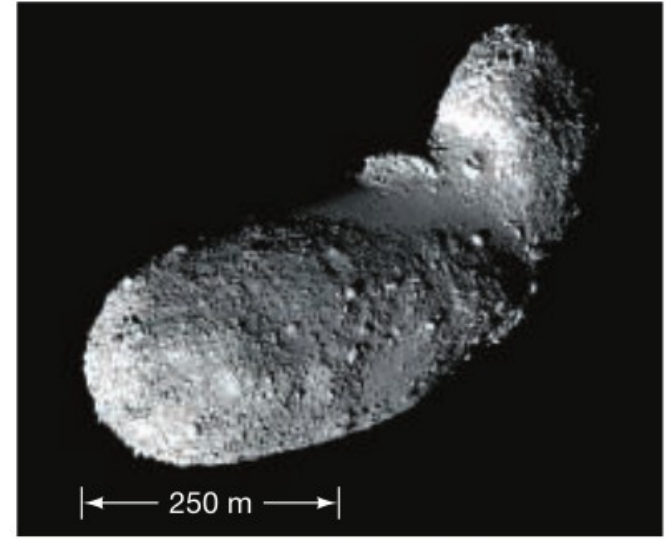
Asteroides



(a)



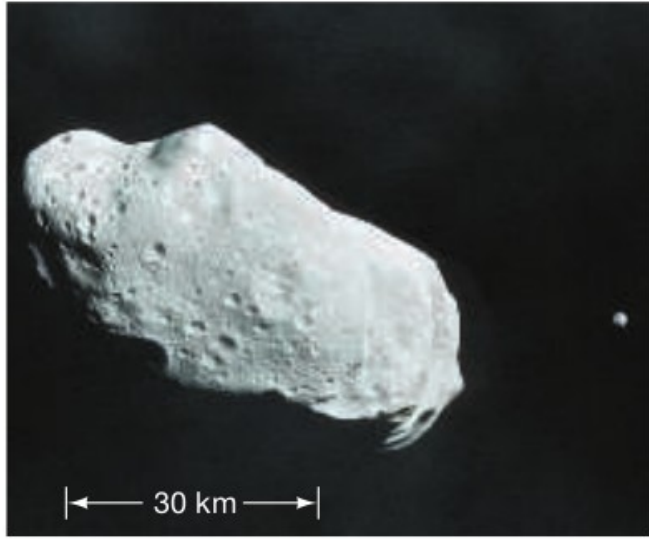
(b)



(c)



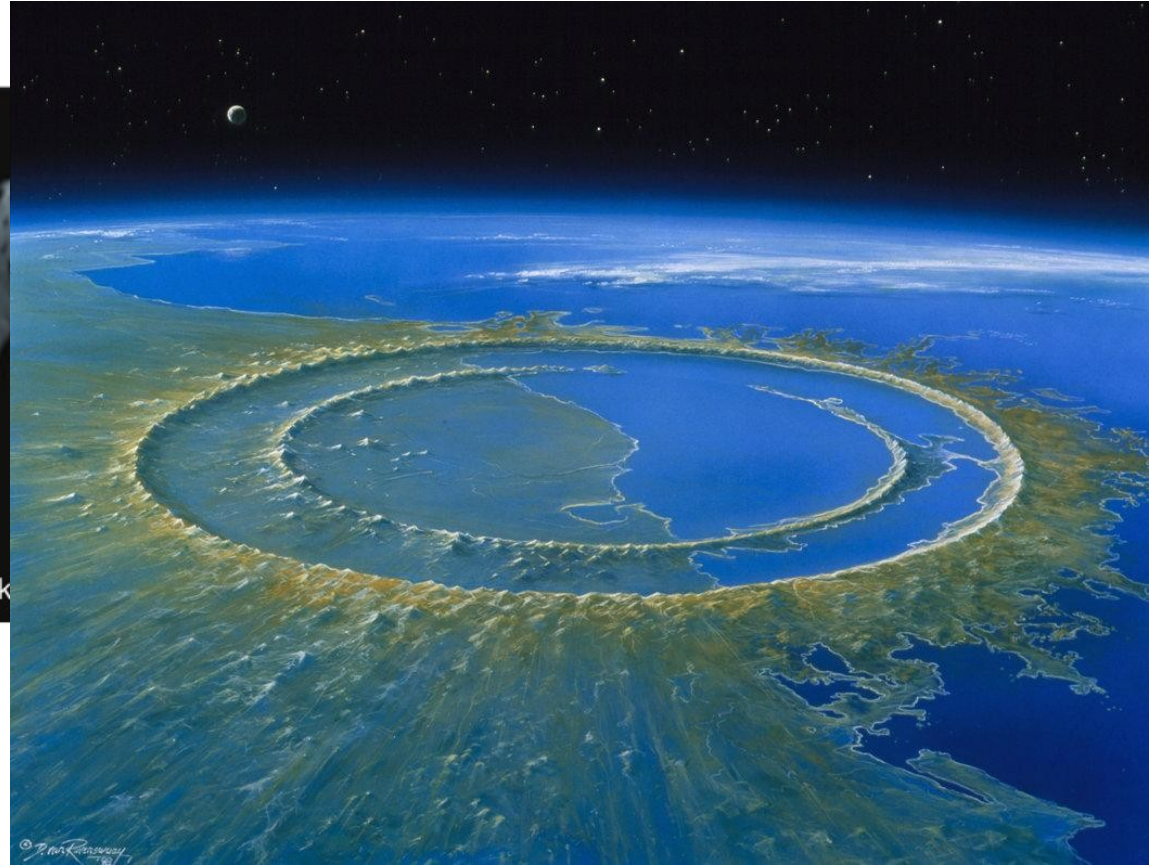
Asteroides



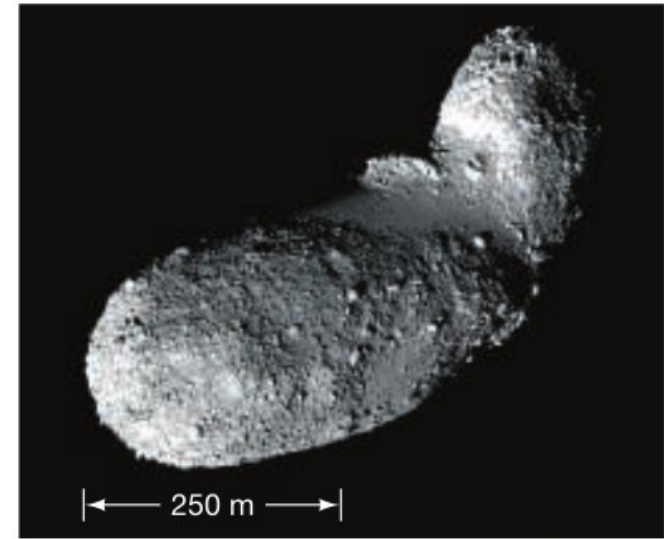
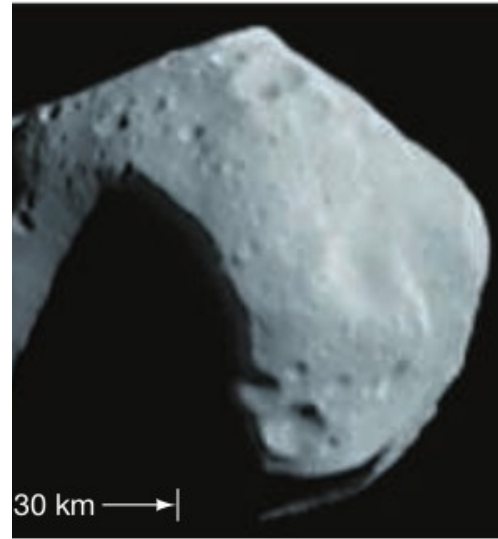
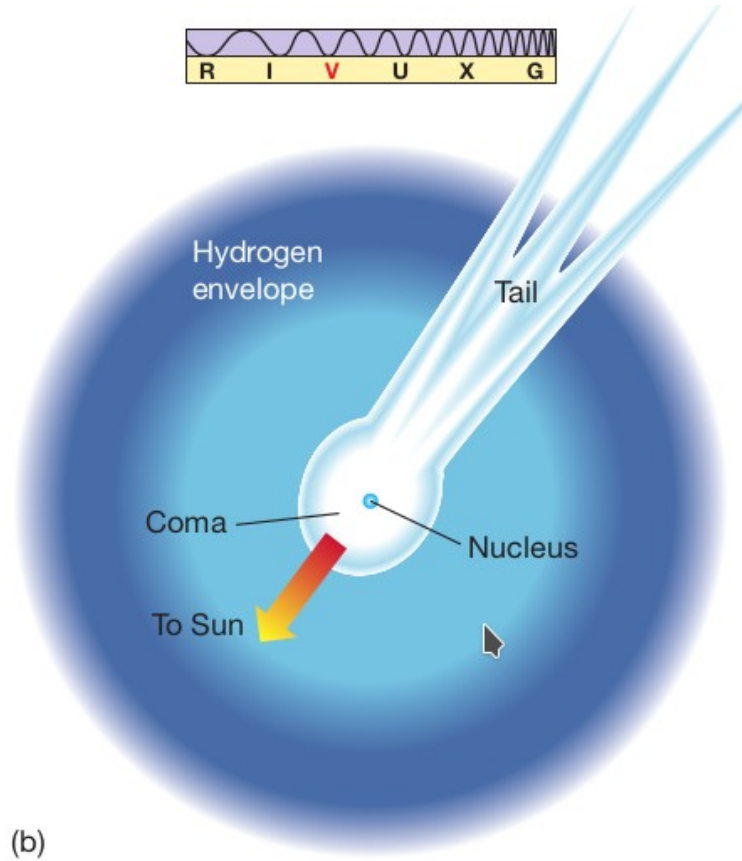
(a)



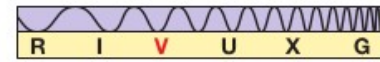
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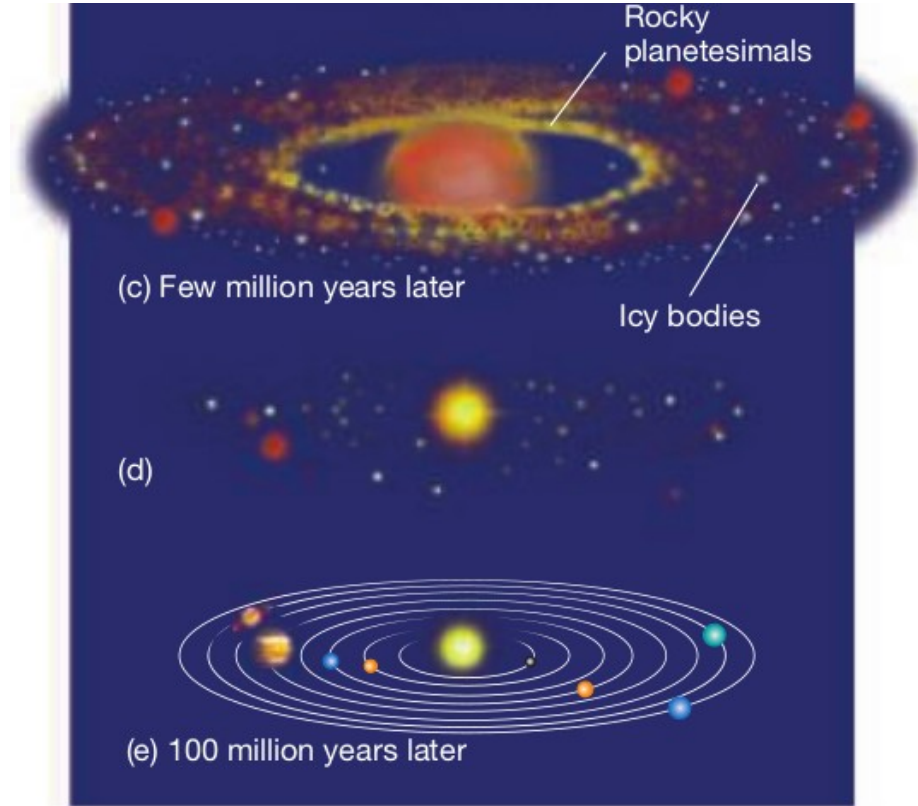
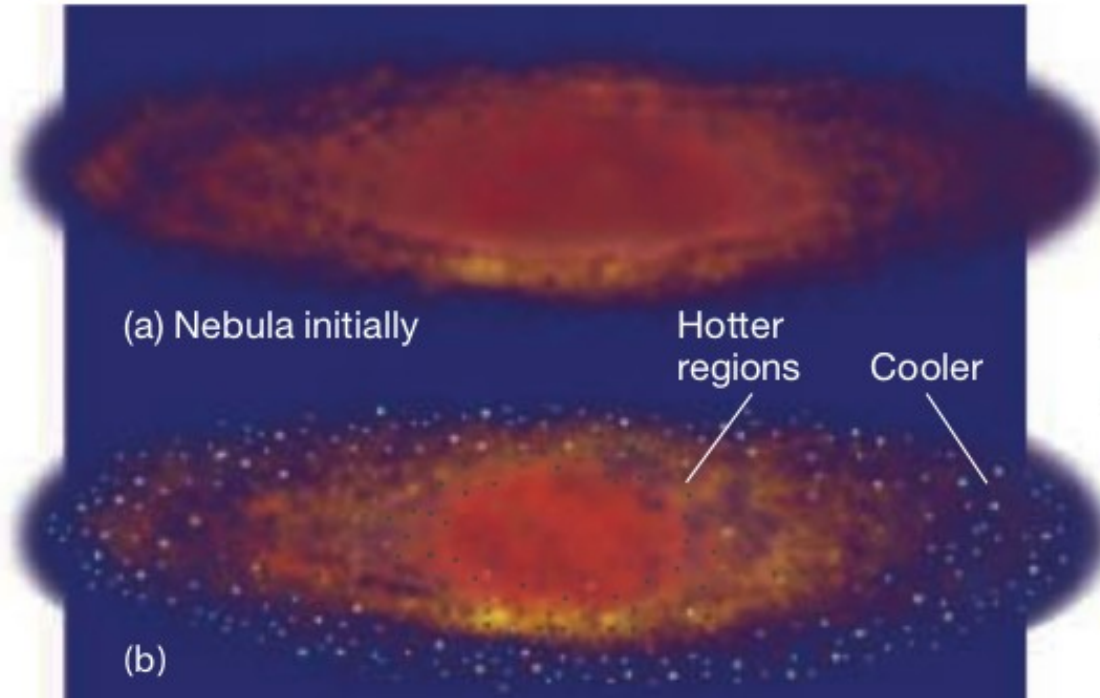
Asteroides



(c)

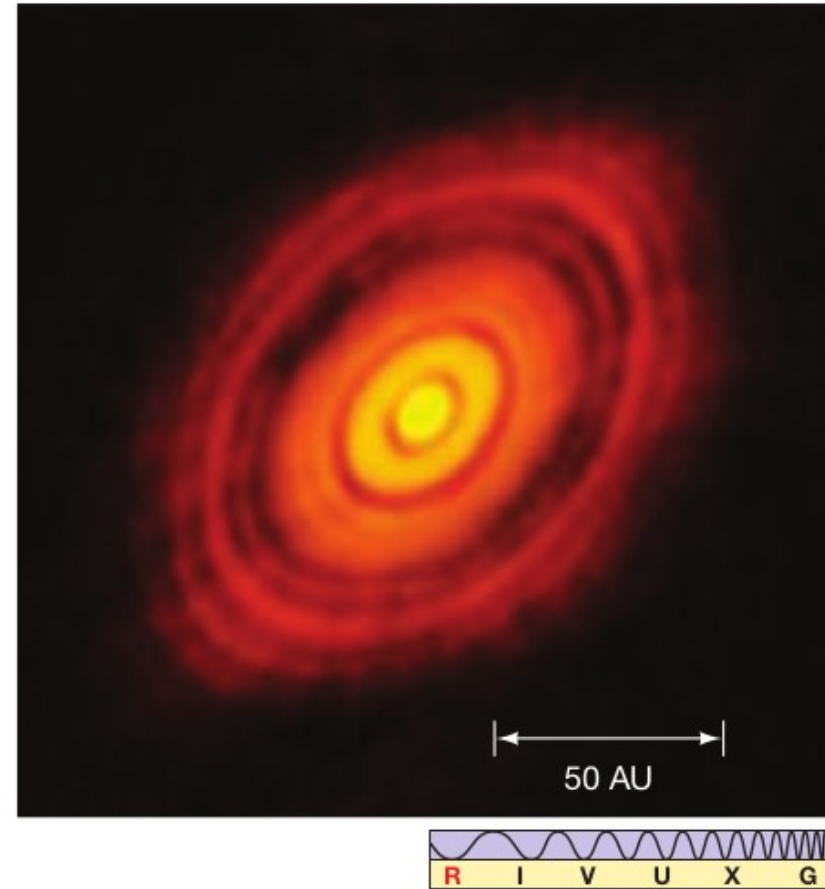
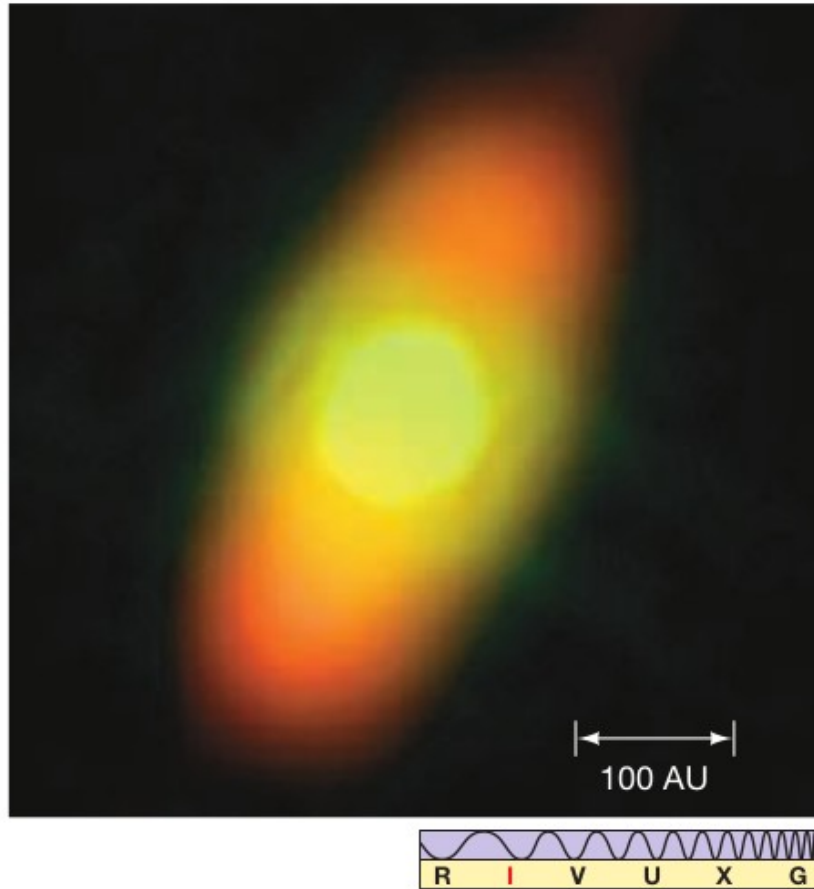


Formación planetaria

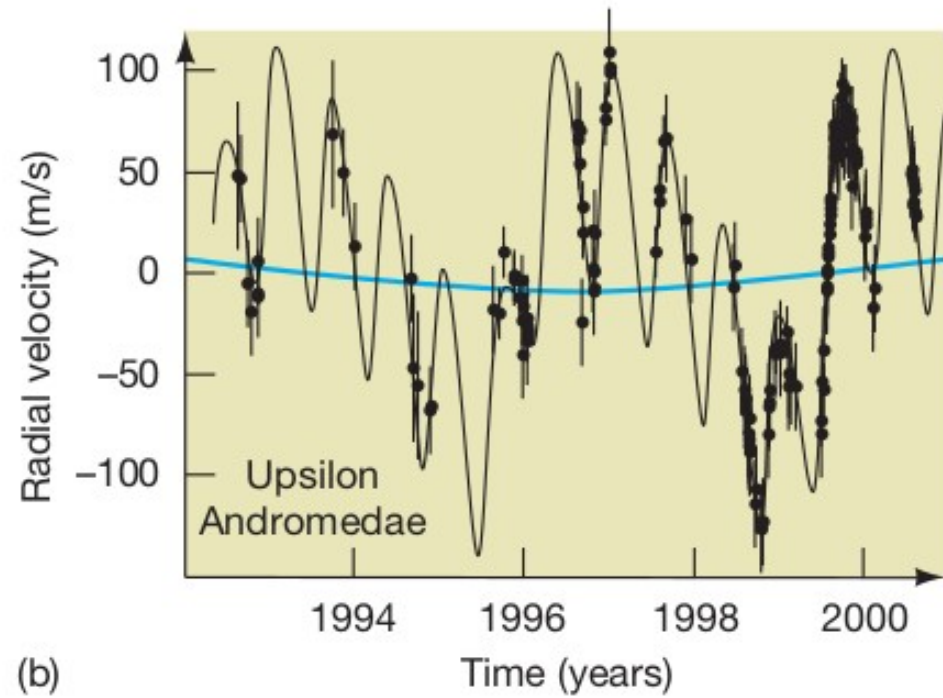
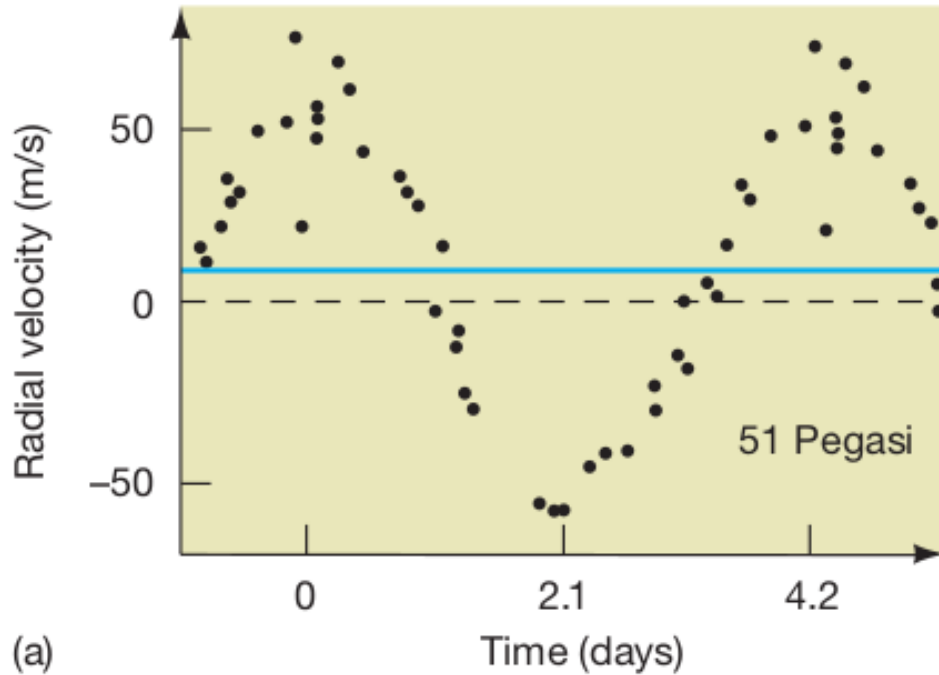


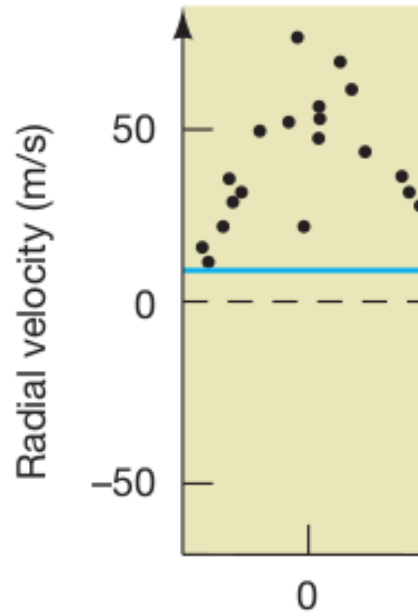
Formación planetaria

Formación de nuevos sistemas solares

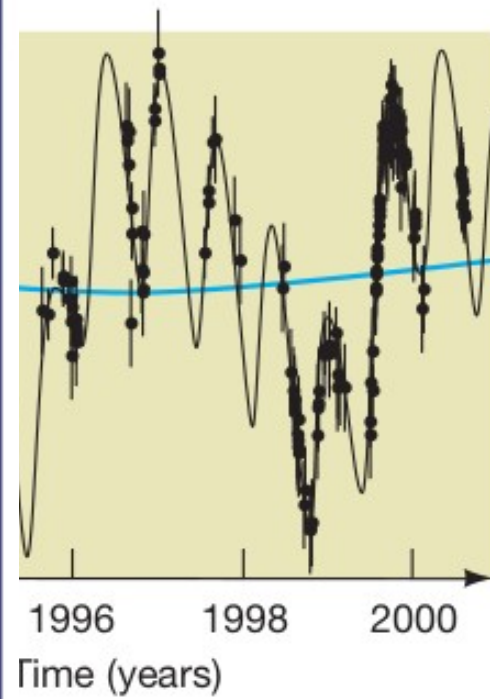
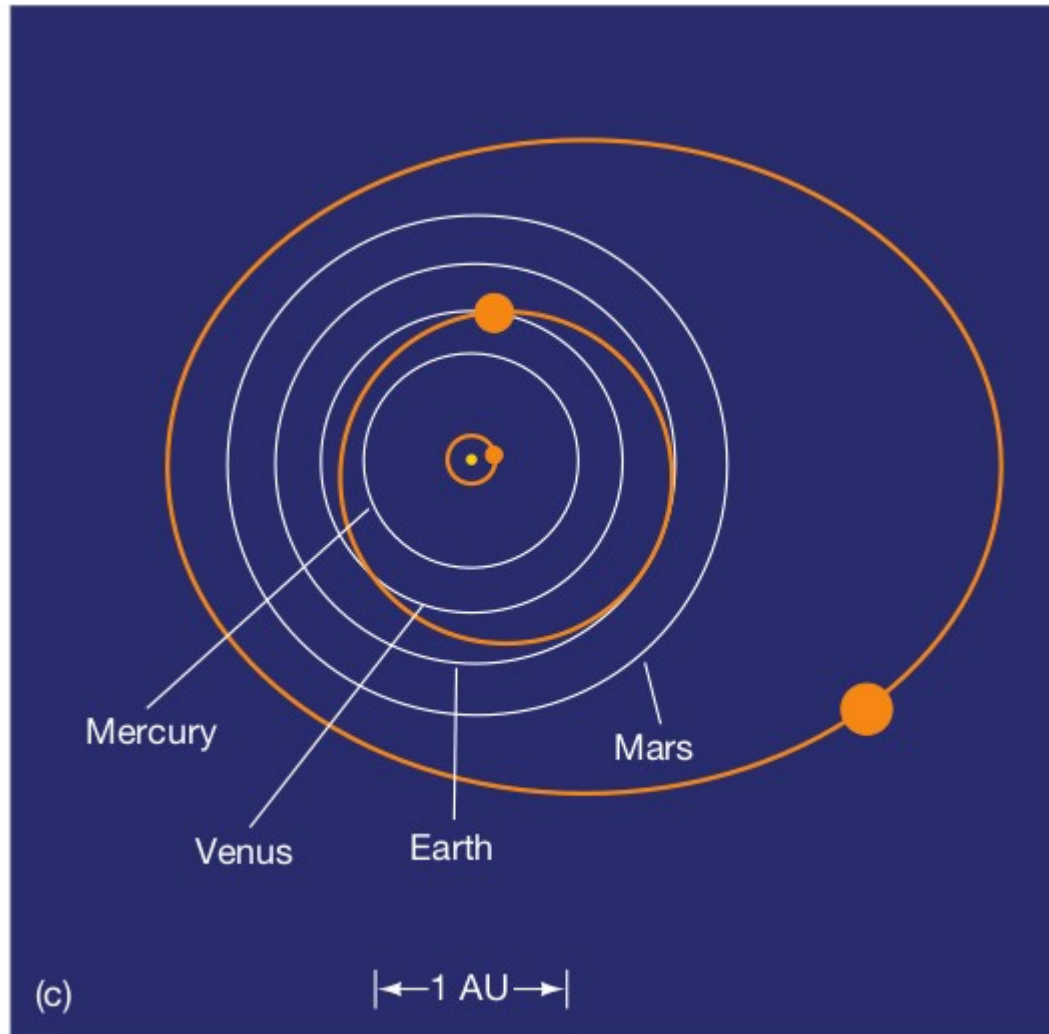


Exoplanetas

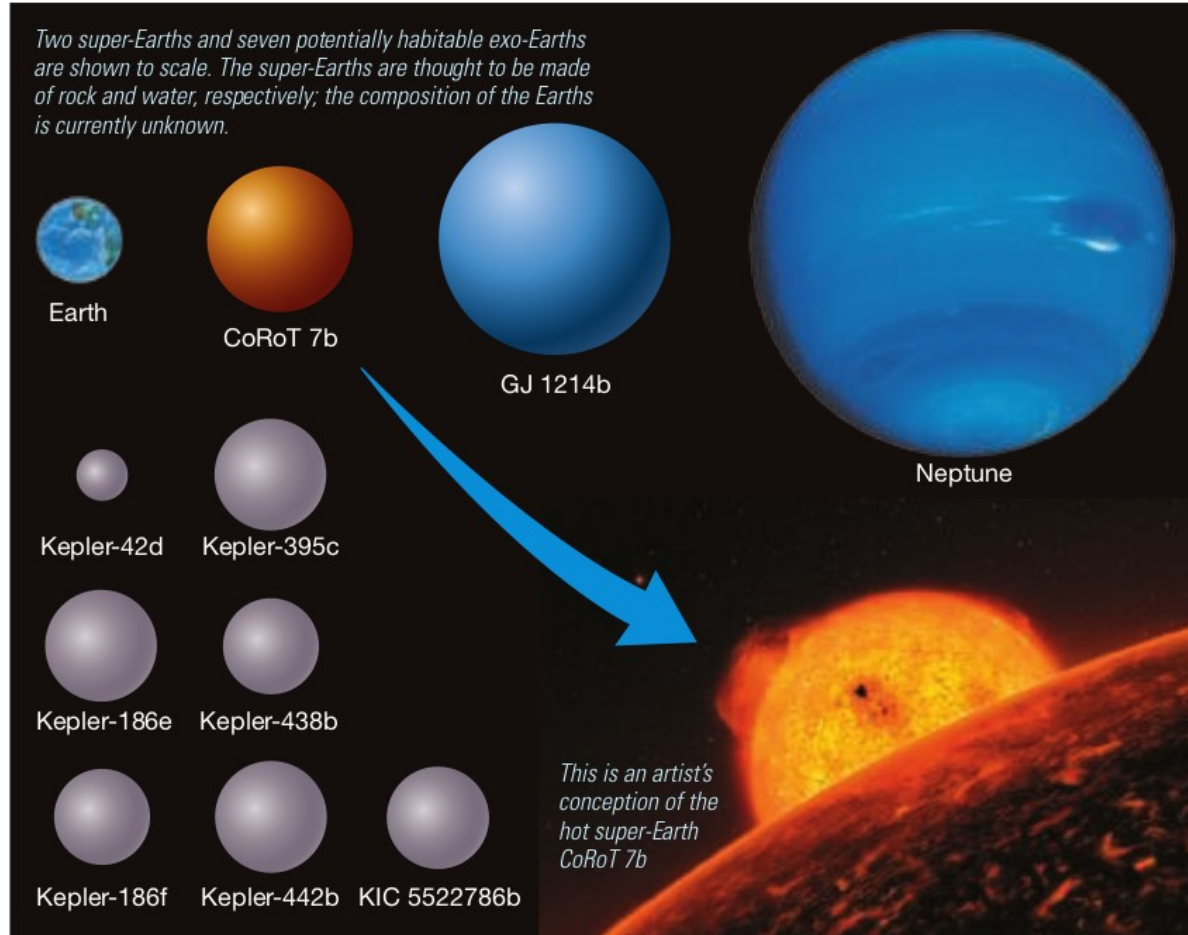


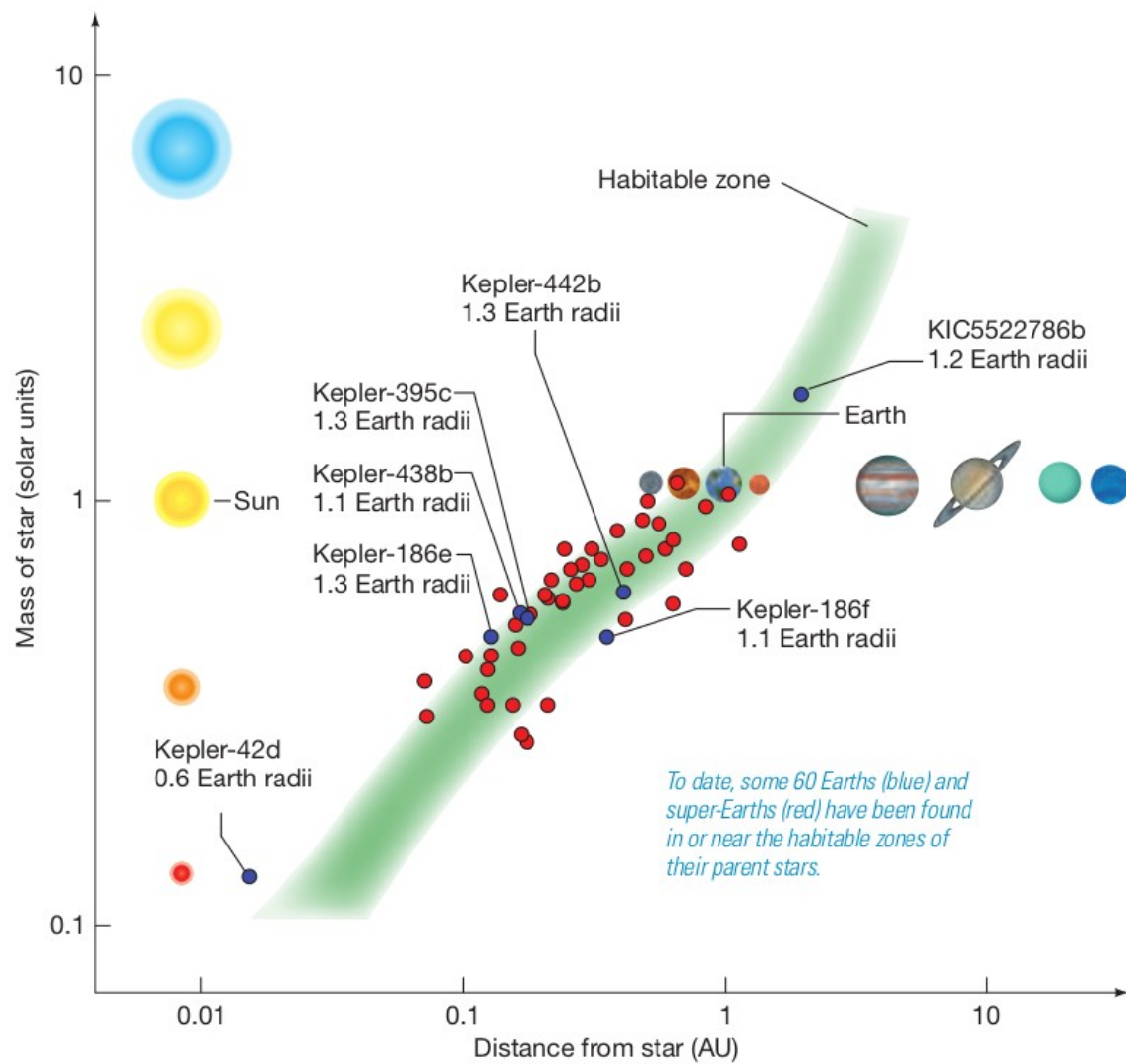


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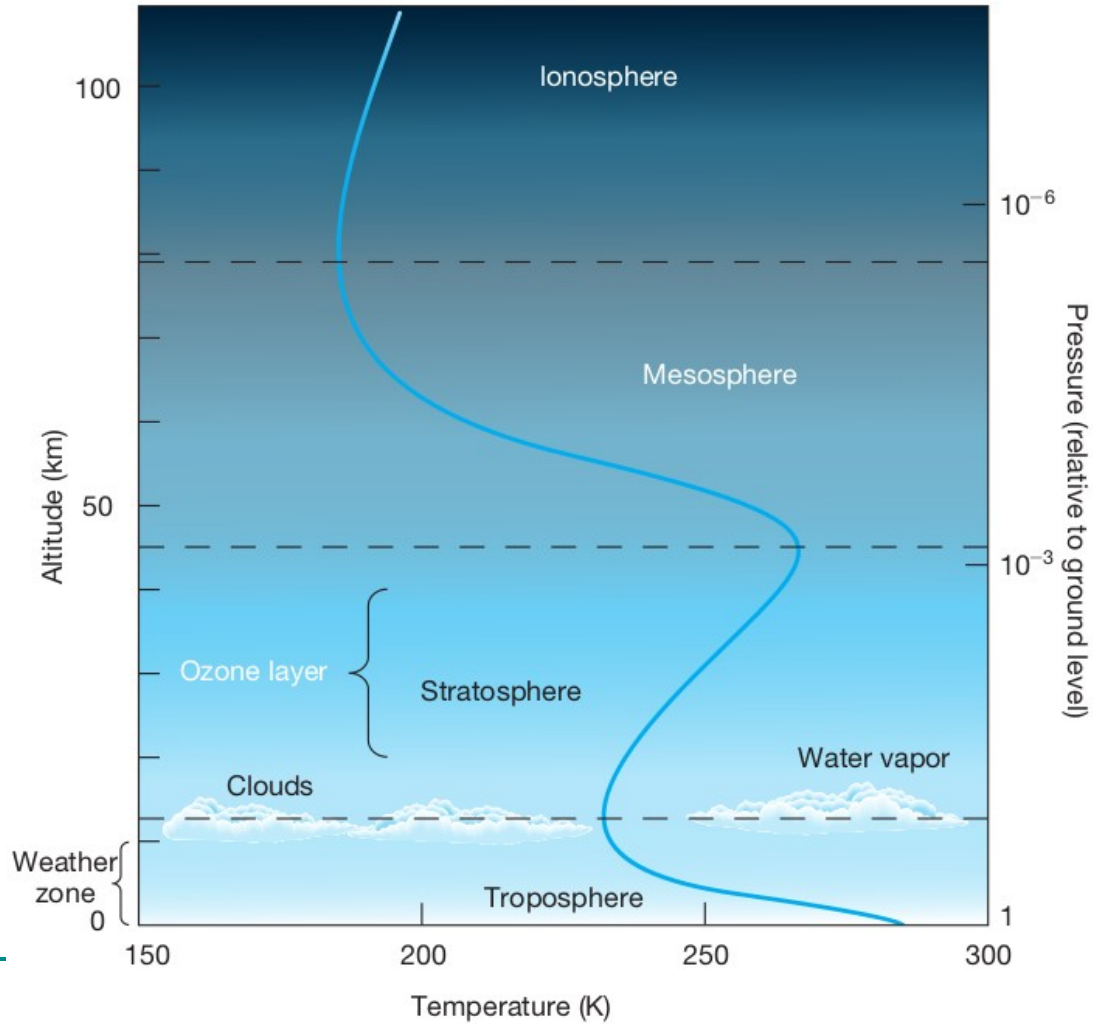
Planetas “habitables”



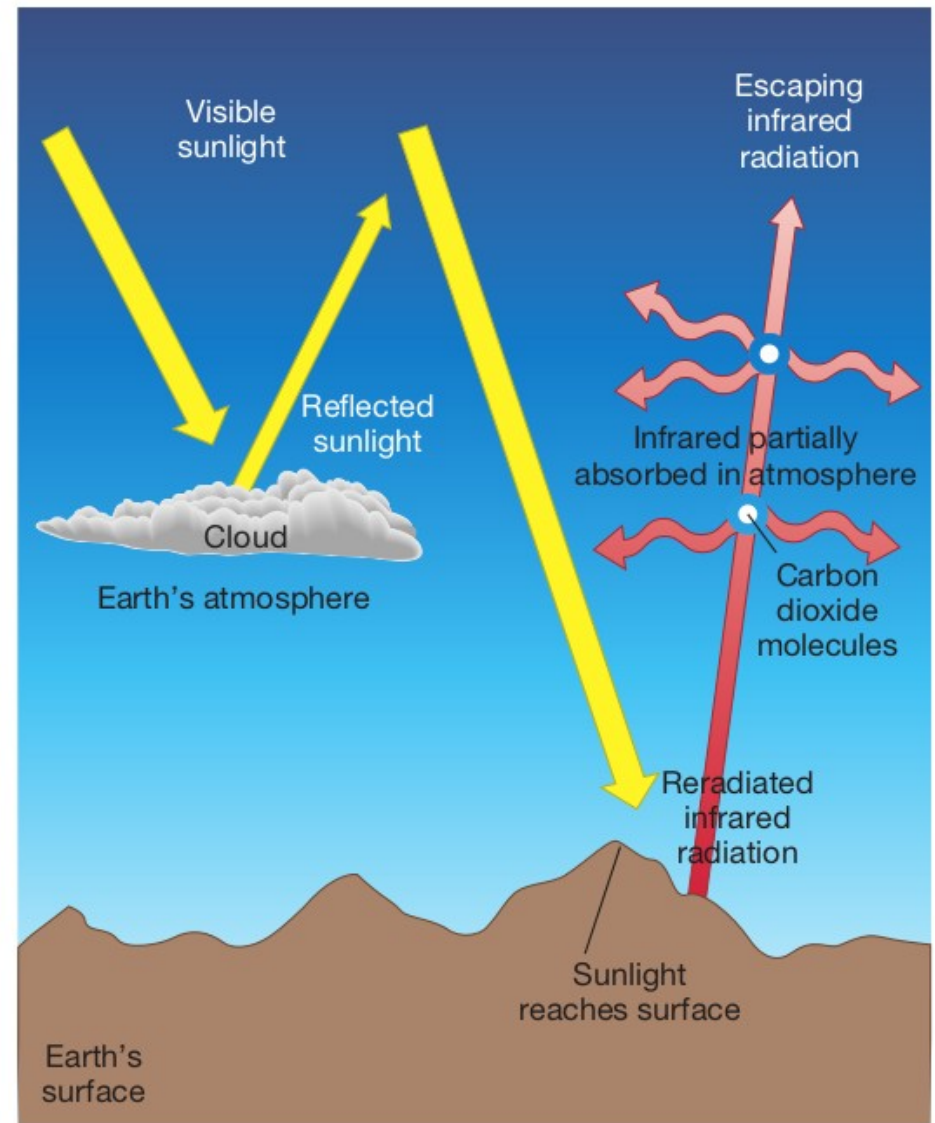
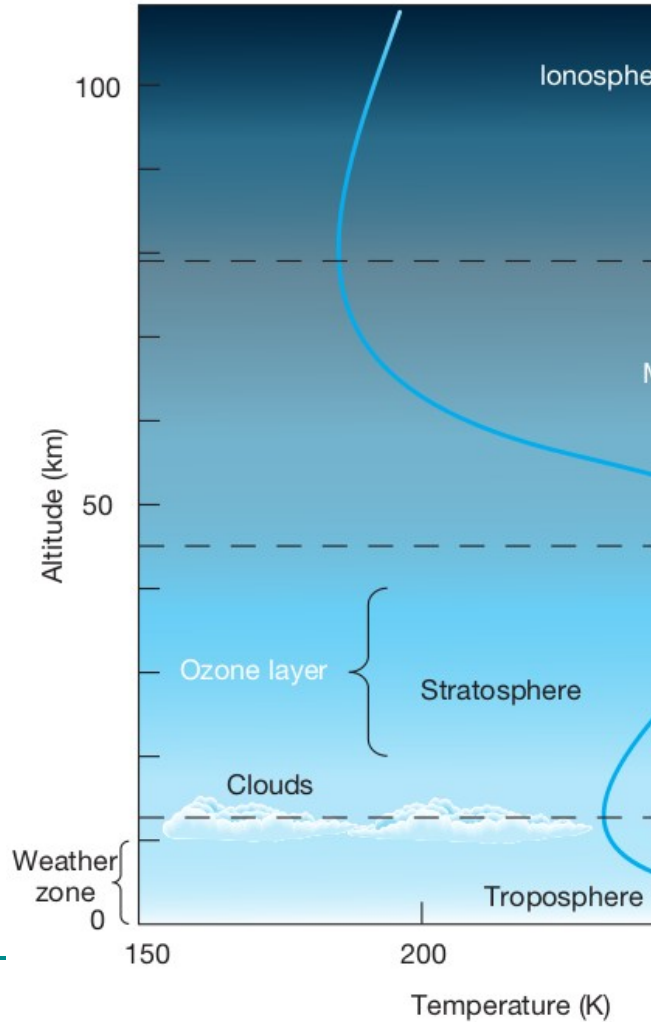


La Tierra

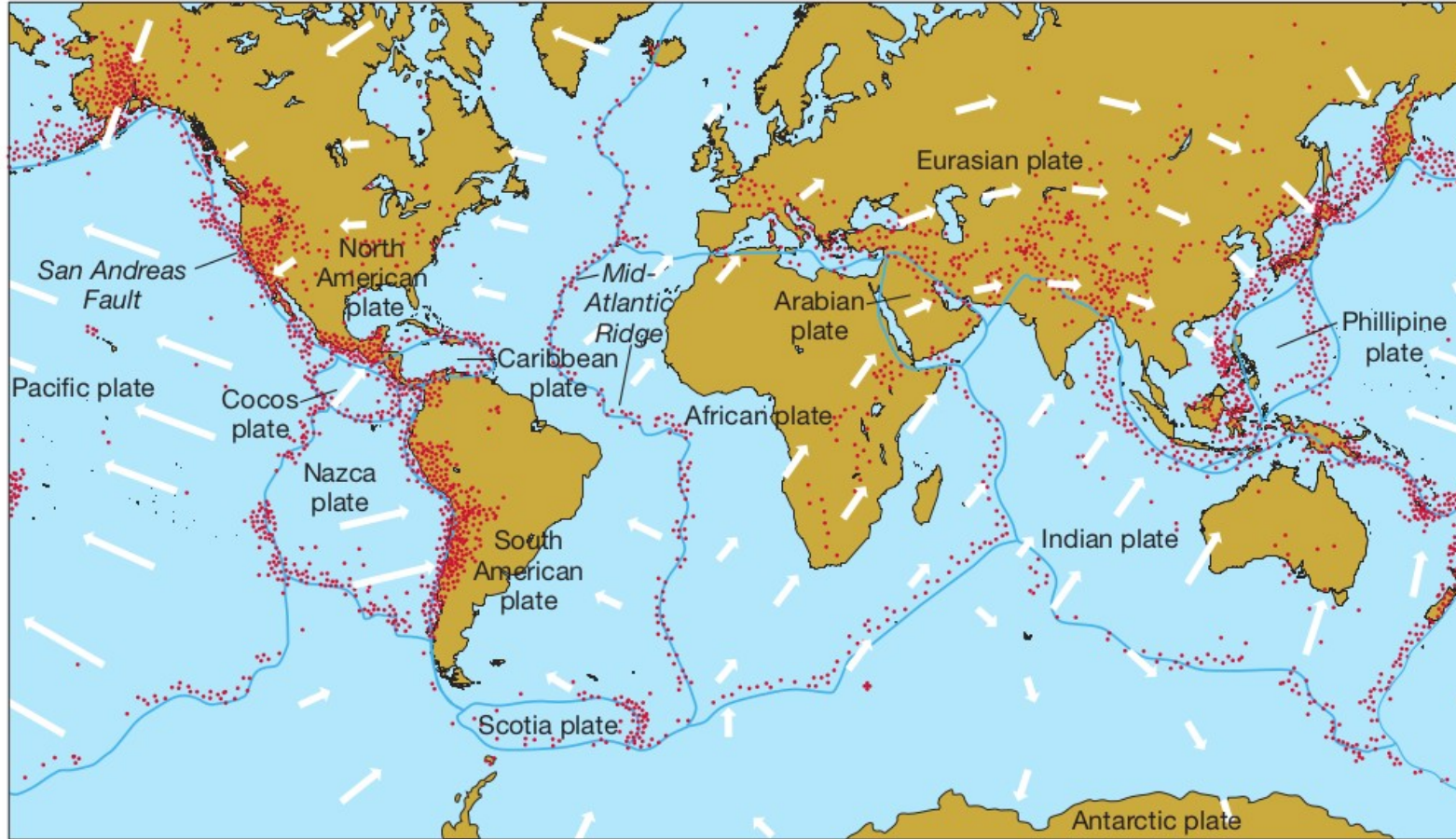
La atmósfera



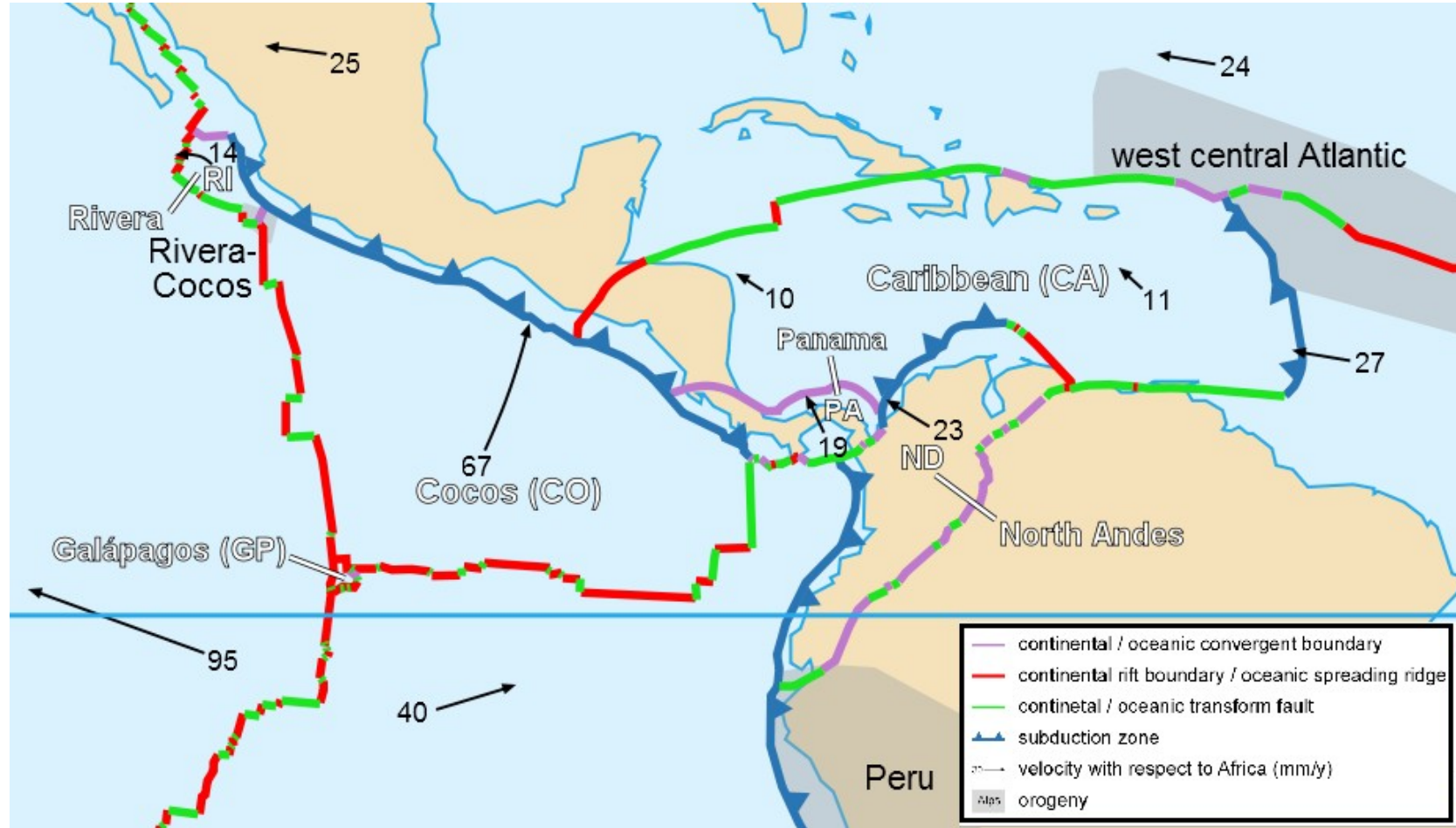
La atmós



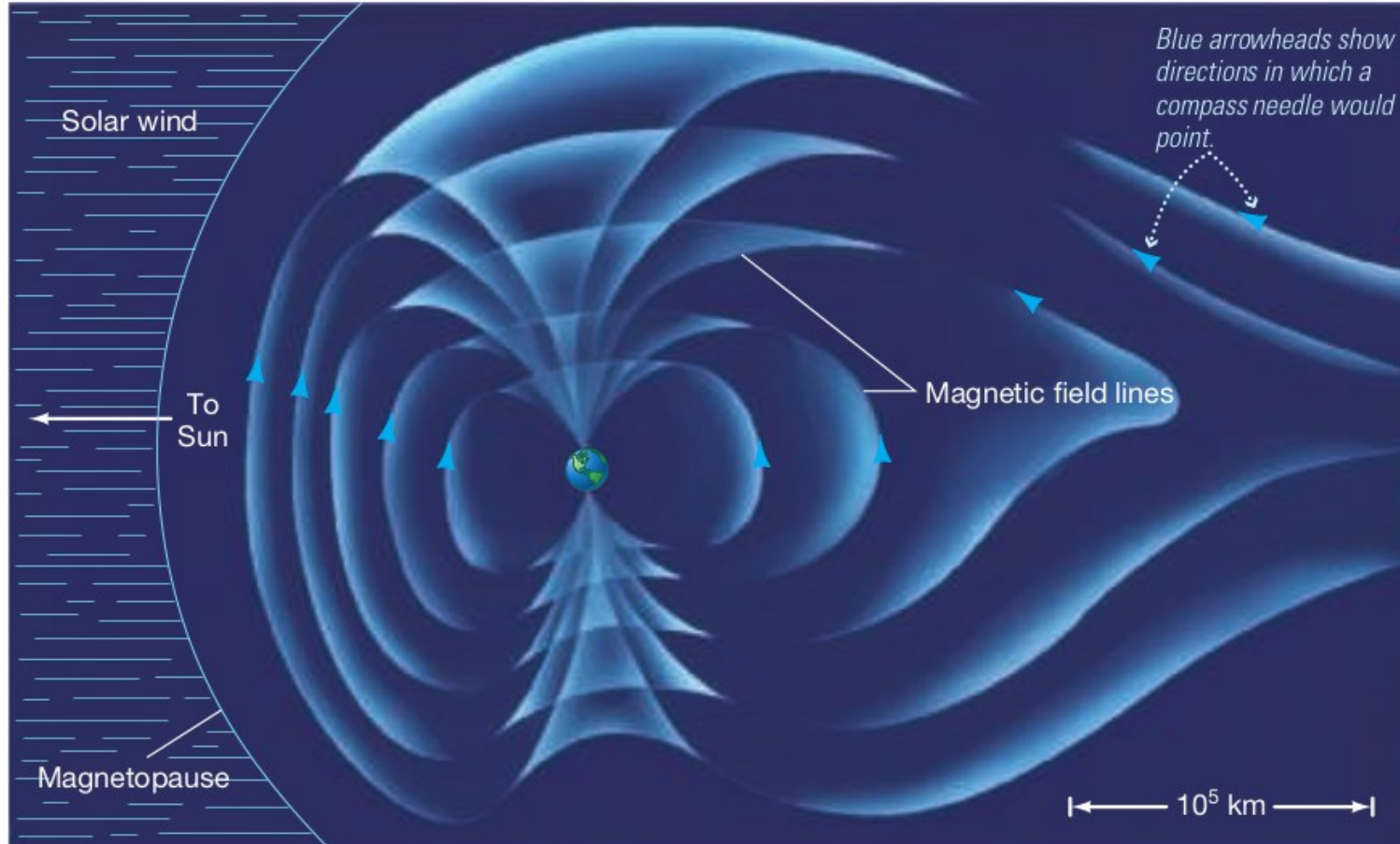
Movimientos sísmicos en la Tierra



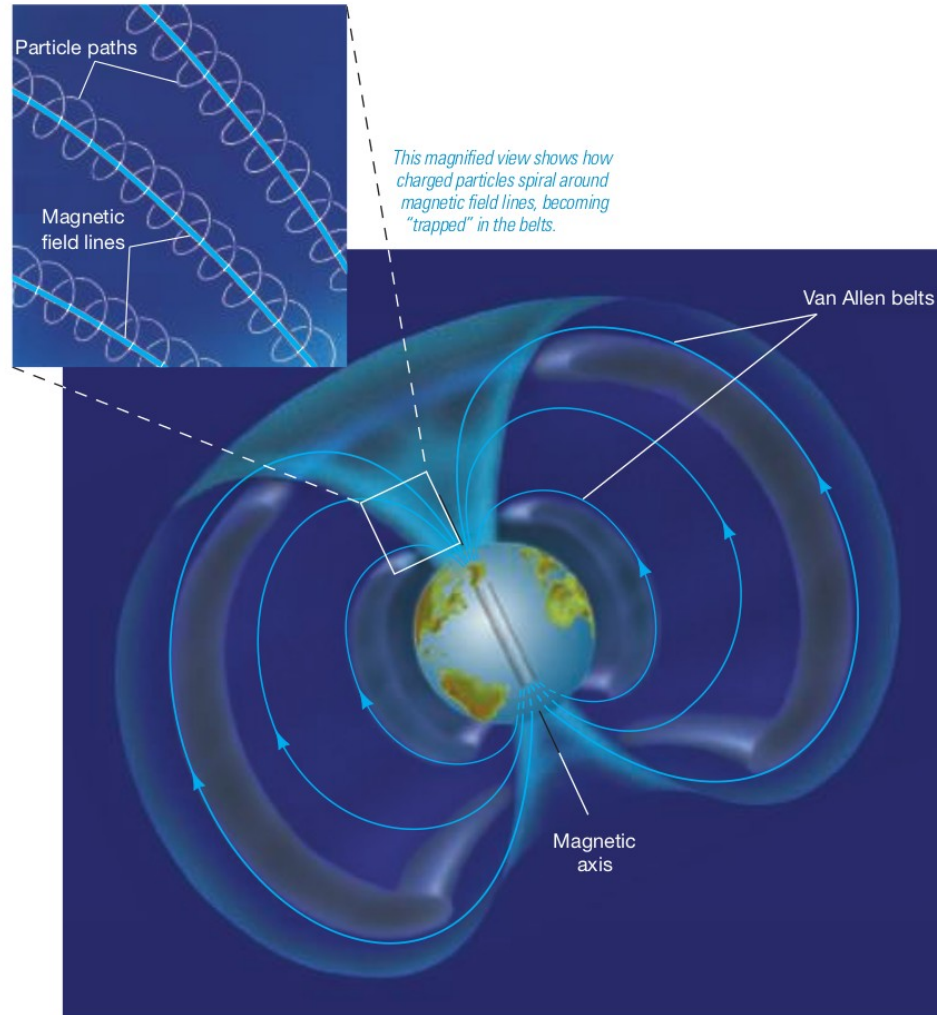
Movimientos sísmicos en la Tierra



Campo magnético de la Tierra



Campo magnético de la Tierra



Campo magnético de la Tierra

