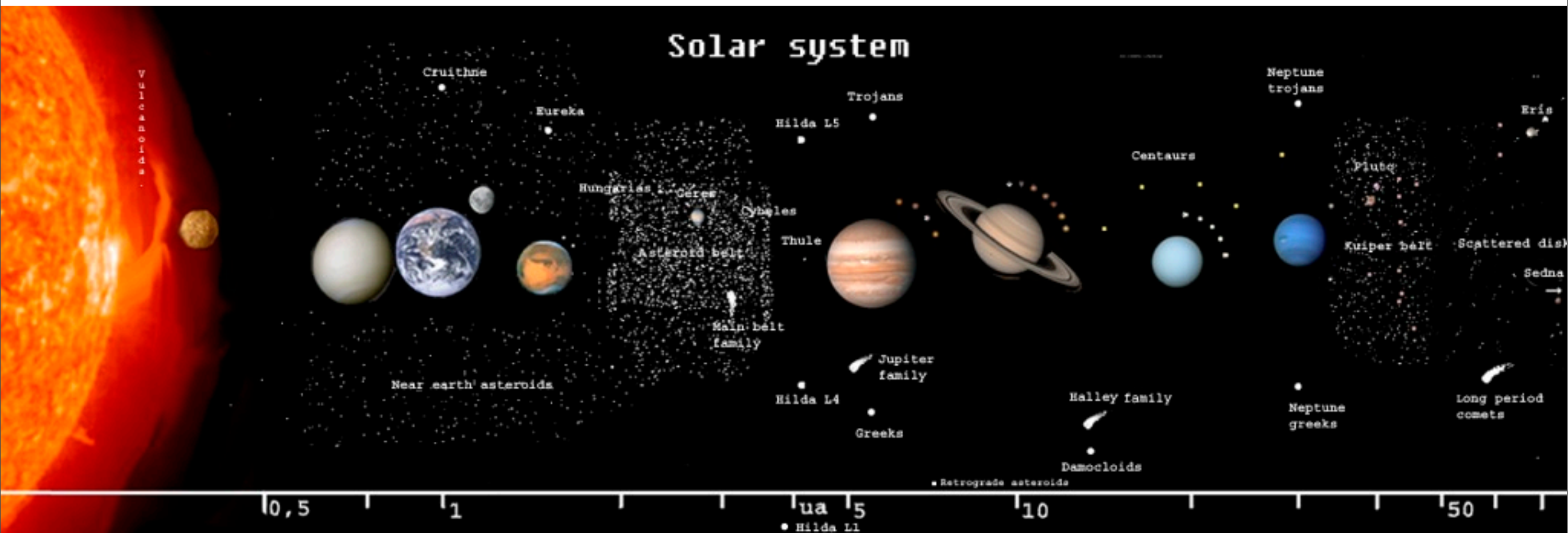
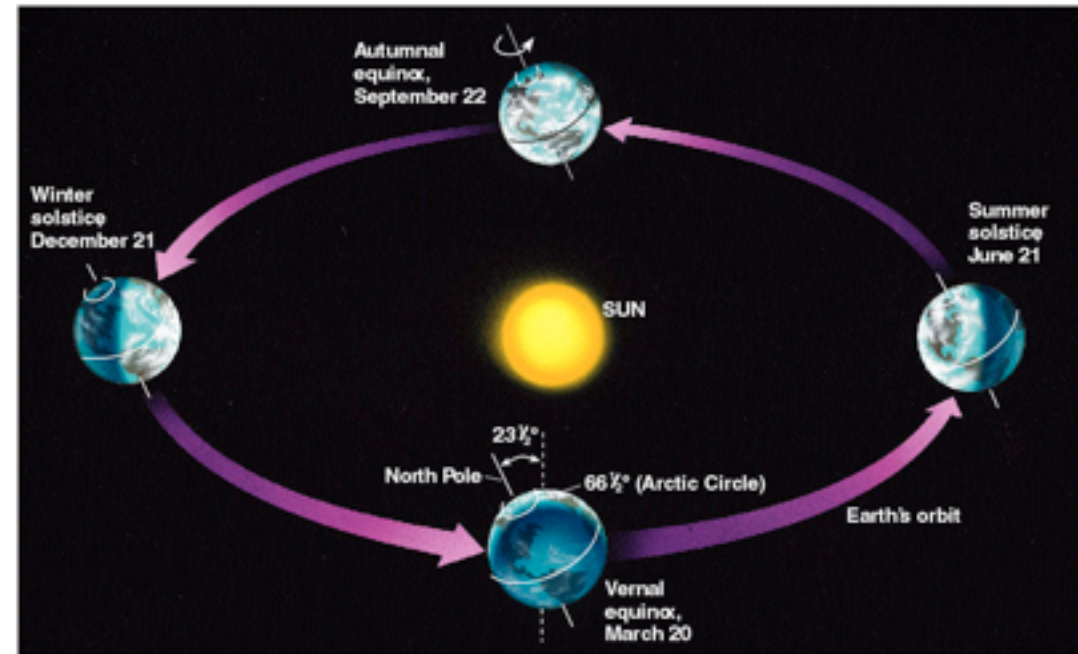


AU (Astronomical Unit)

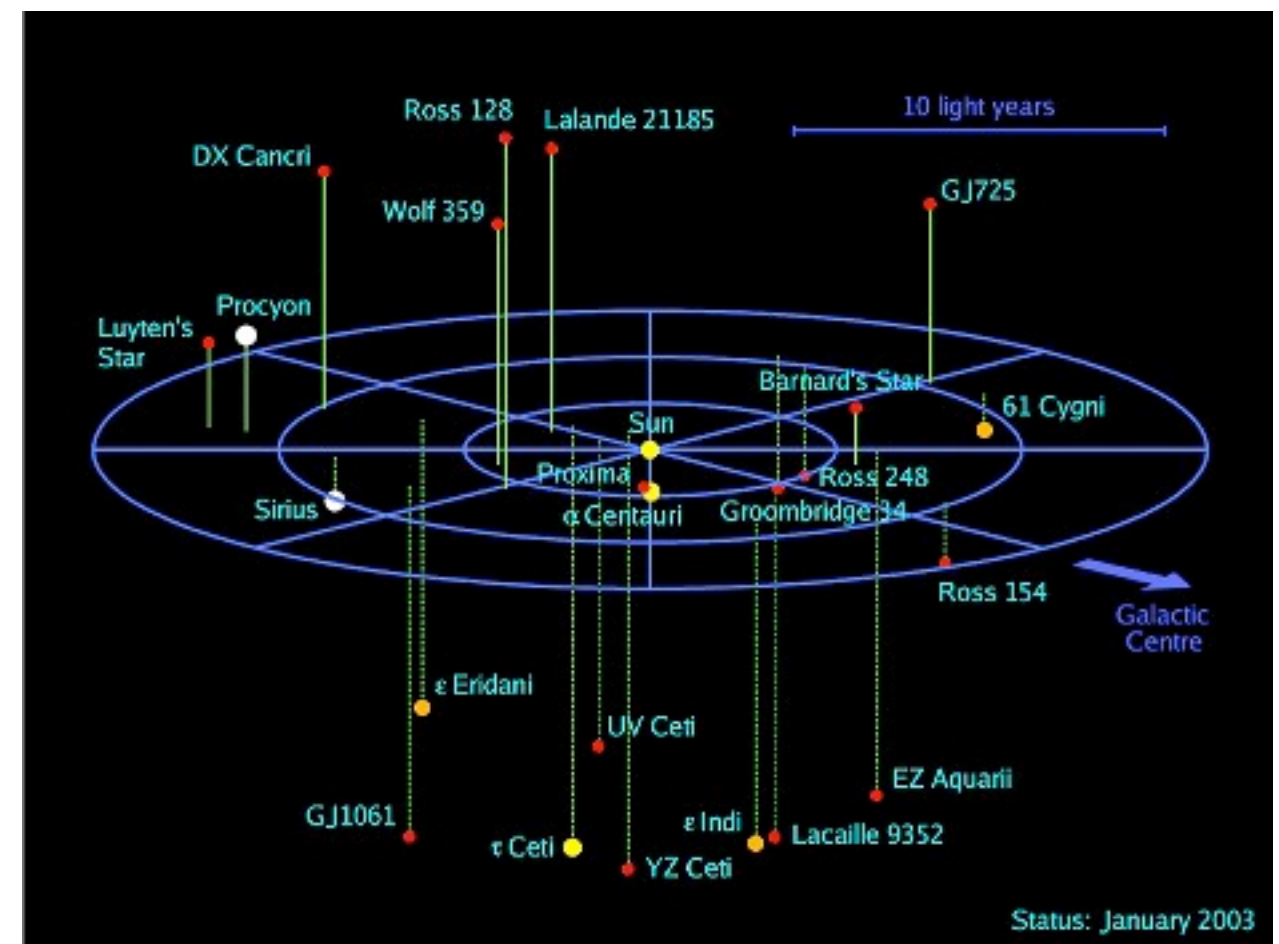
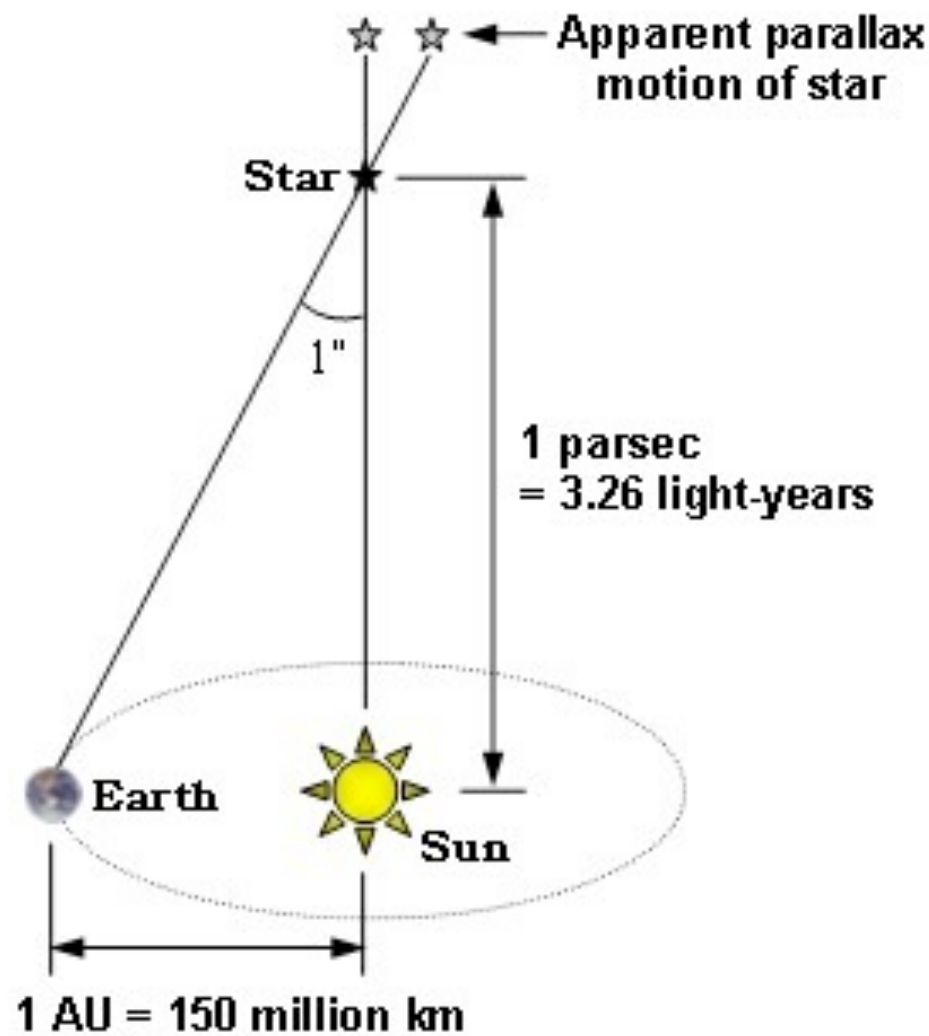
$$1 \text{ AU} = 1.496 \times 10^{13} \text{ cm}$$

~ 8 light minutes



pc (parsec)

$$1 \text{ pc} = 206265 \text{ AU} = 3.086 \times 10^{18} \text{ cm} = 3.26 \text{ light year}$$



3D Map of Known Stellar Systems in the Solar Neighbourhood

ESO PR Photo 03c/03 (13 January 2003)

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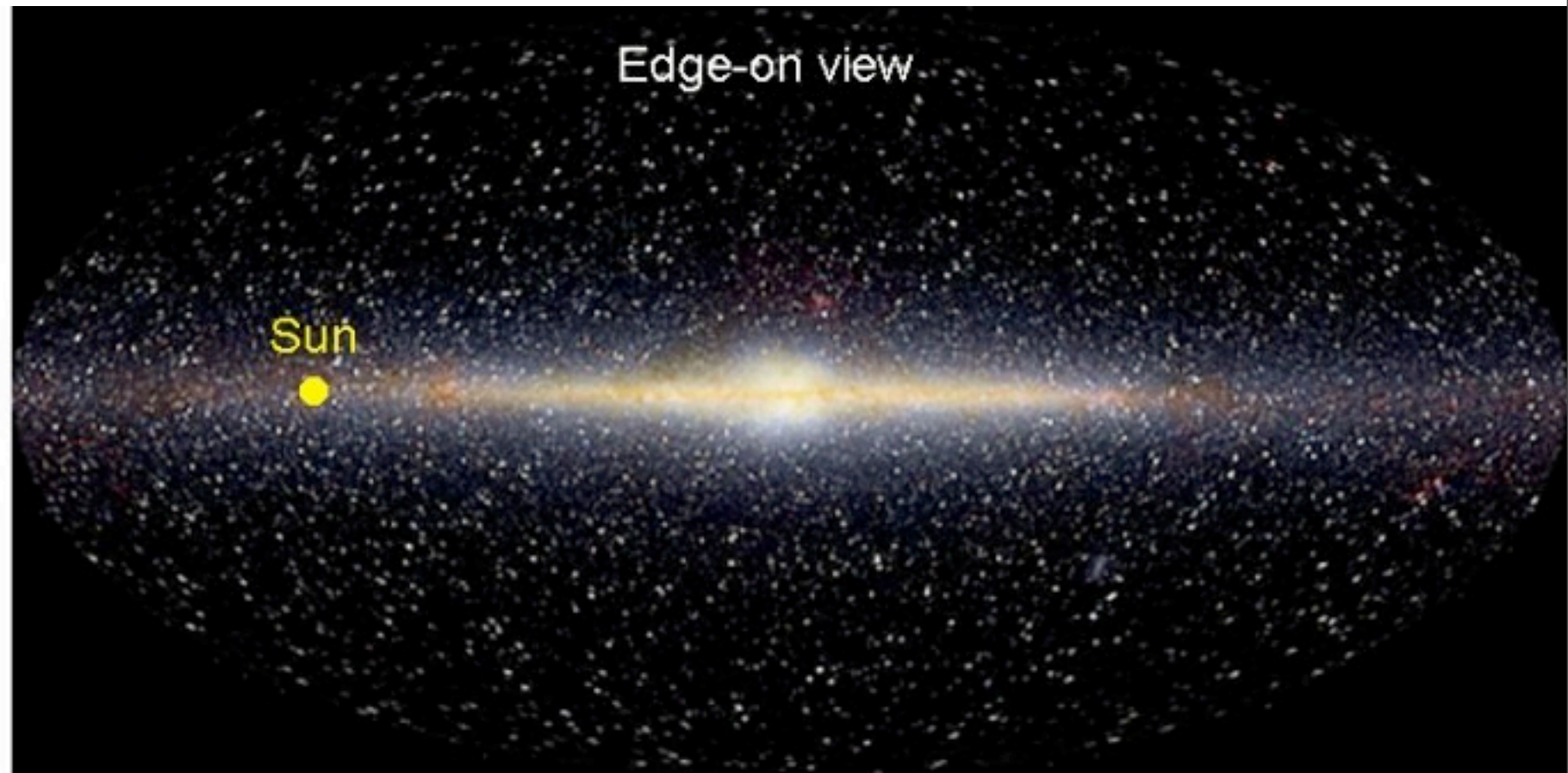


kpc = kilo-parsec
1 kpc = 3.086×10^{21} cm

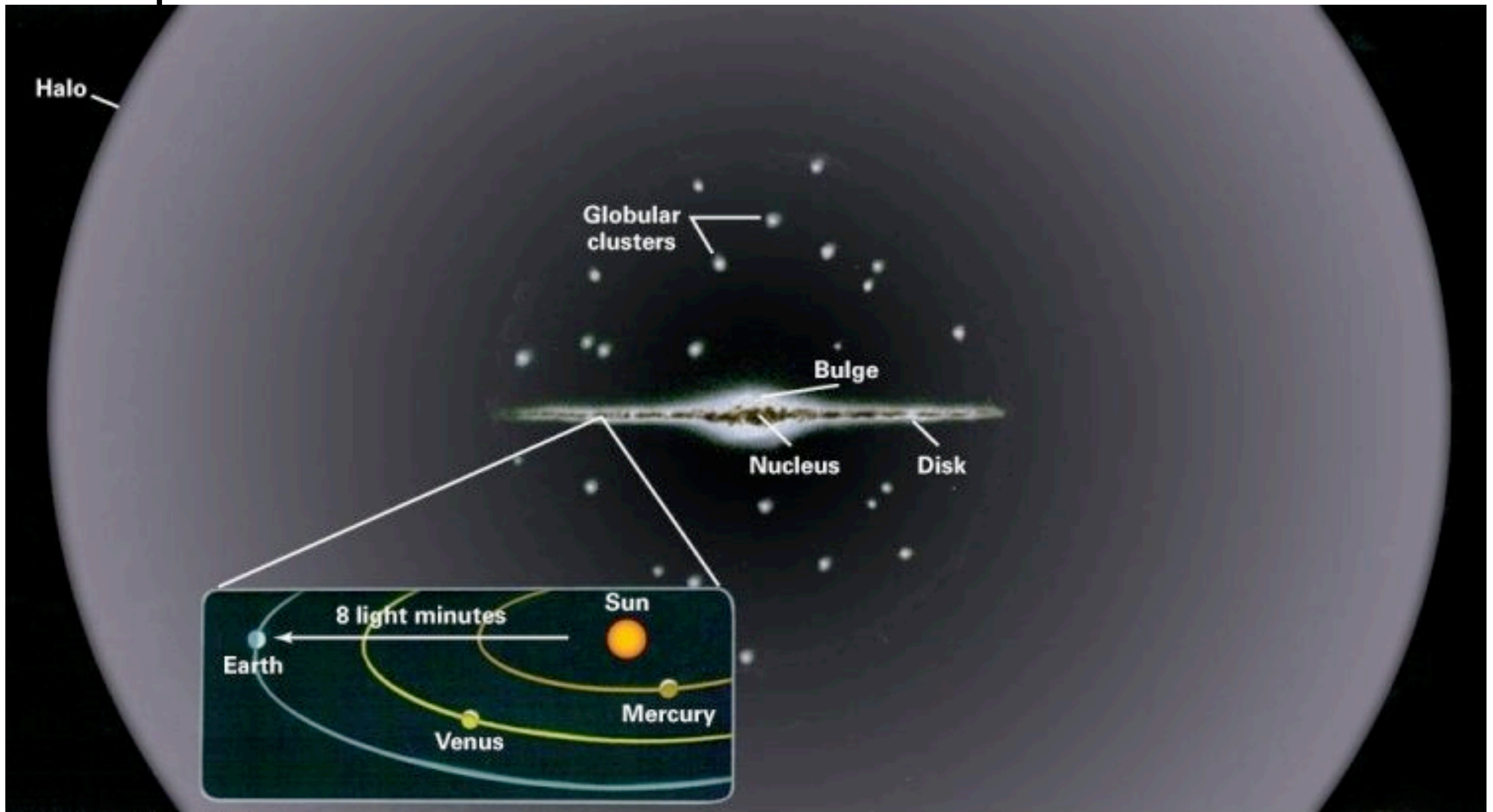
Face-on view of Milky Way



Edge-on view

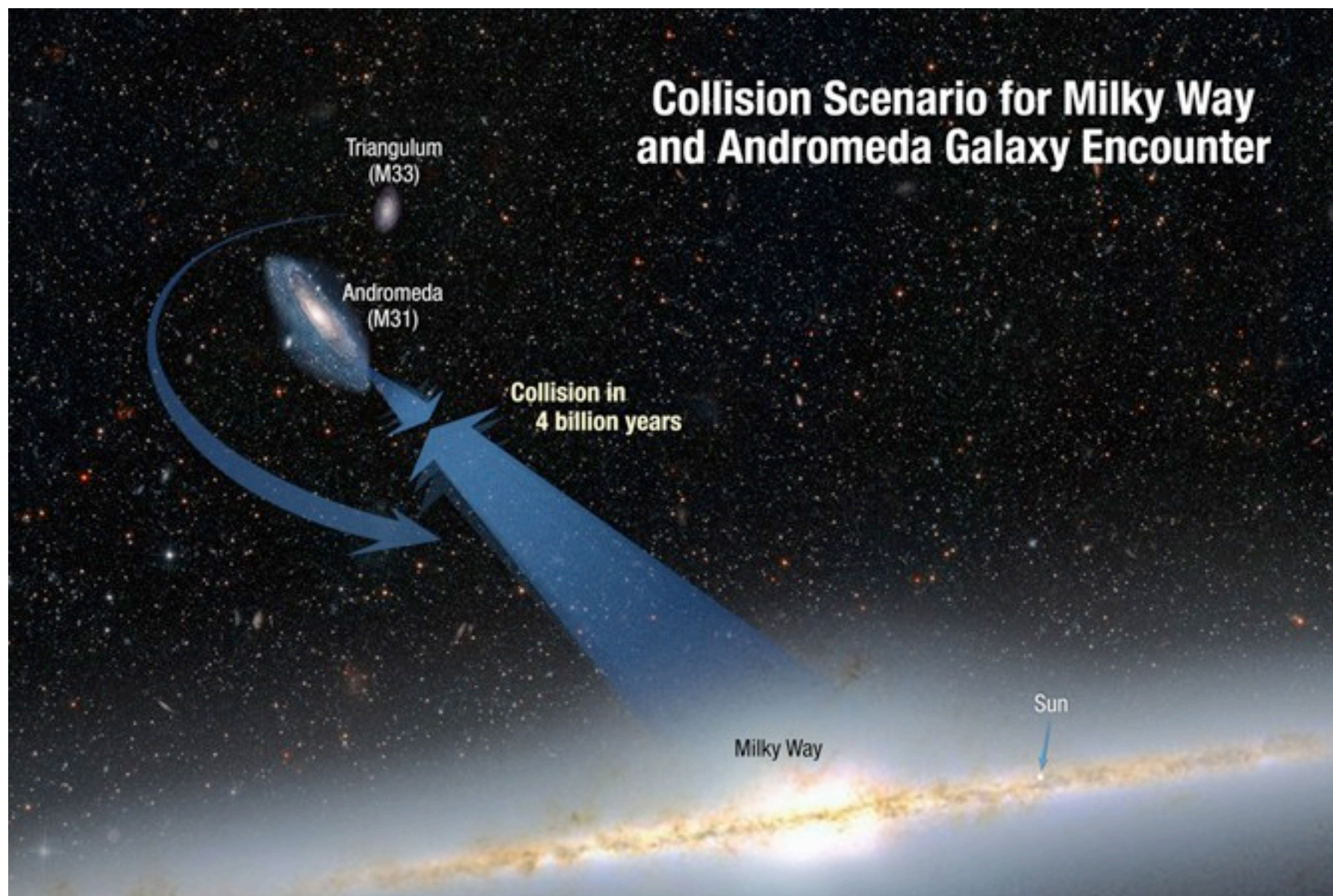


kpc = kilo-parsec
1 kpc = 3.086×10^{21} cm



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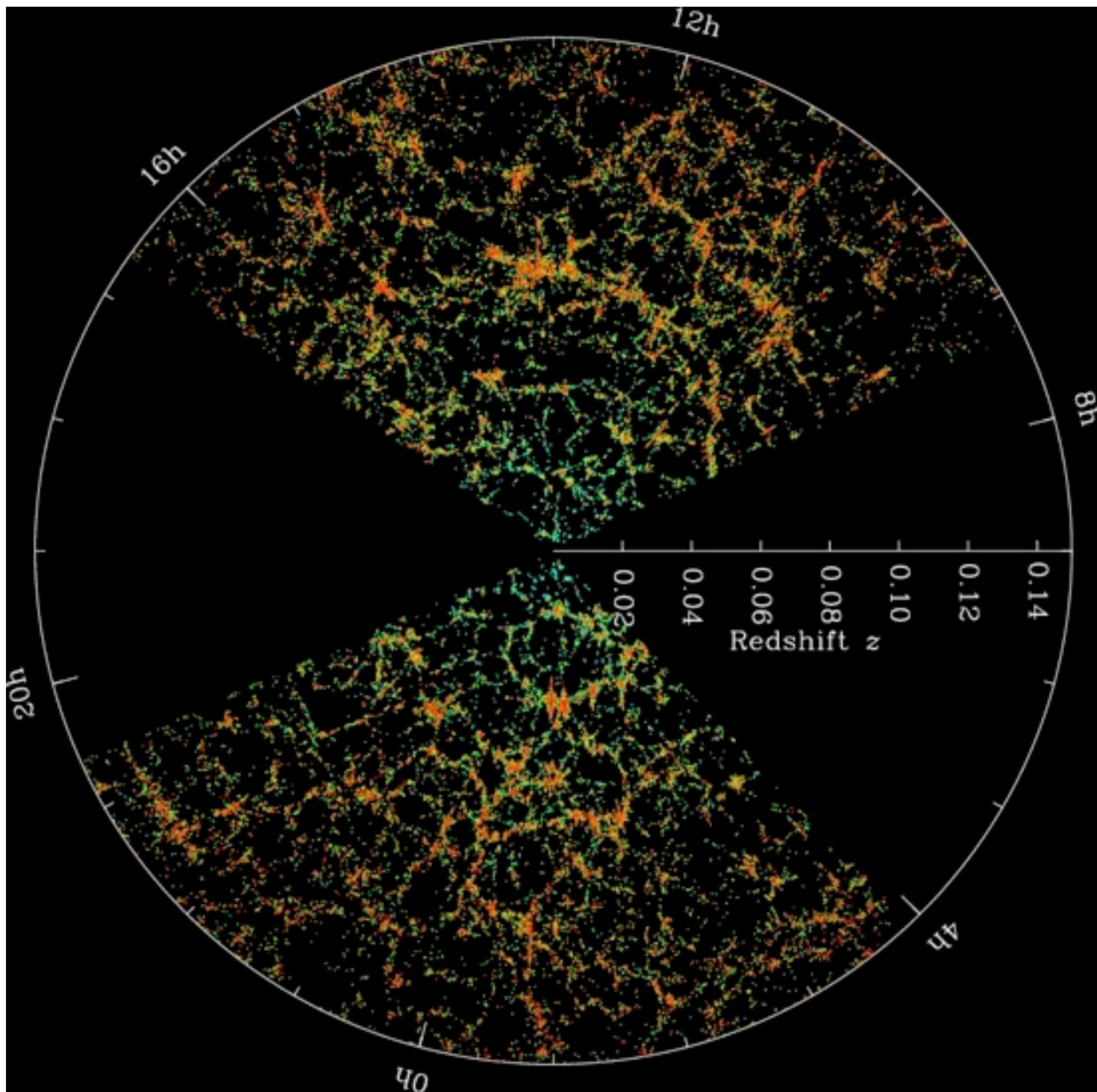
Mpc = Mega-parsec
1 Mpc = 3.086×10^{24} cm



Mpc = Mega-parsec
1 Mpc = 3.086×10^{24} cm



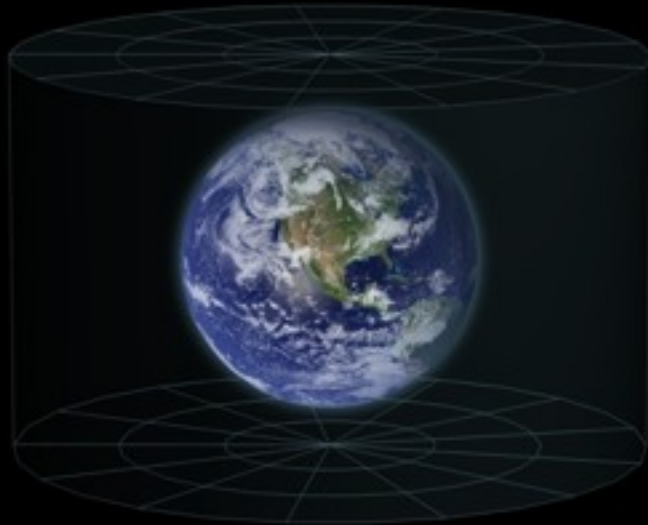
Gpc = Giga-parsec
1 Gpc = 3.086×10^{27} cm



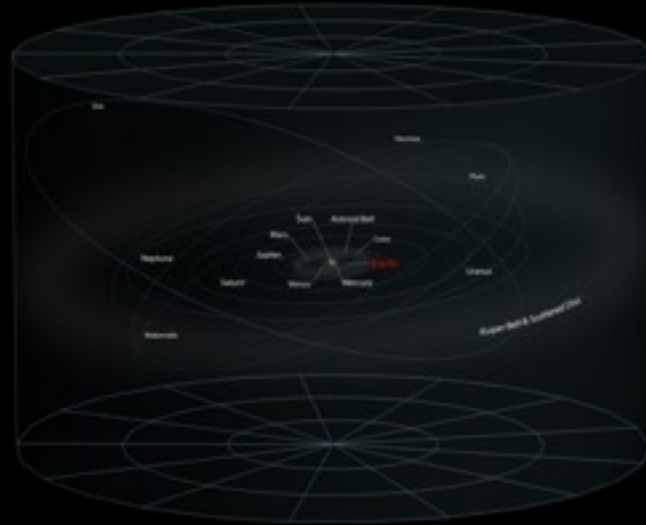
Gpc = Giga-parsec

Gpc ~ observable universe

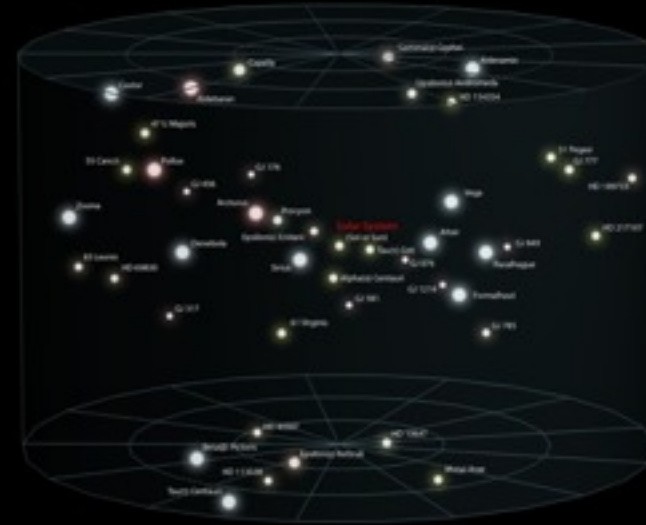
Earth



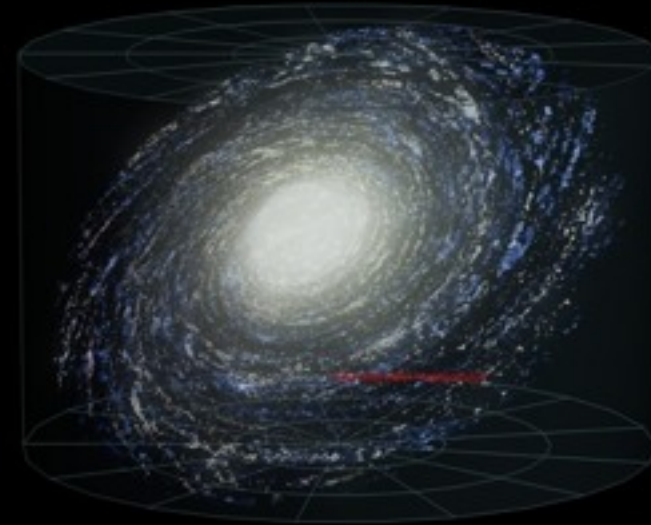
Solar System



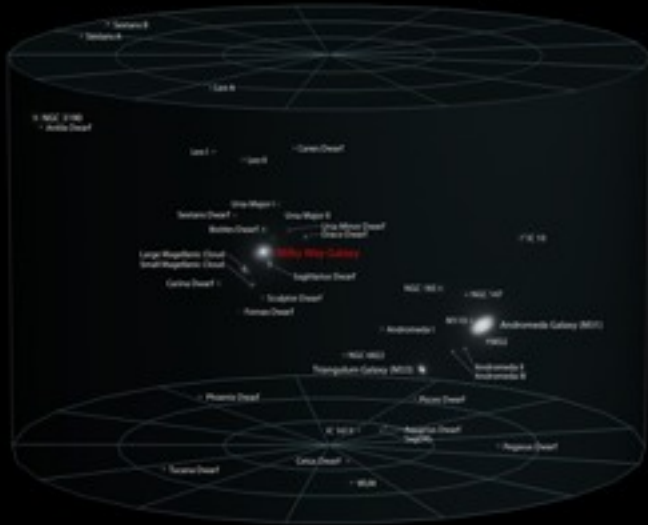
Solar Interstellar Neighborhood



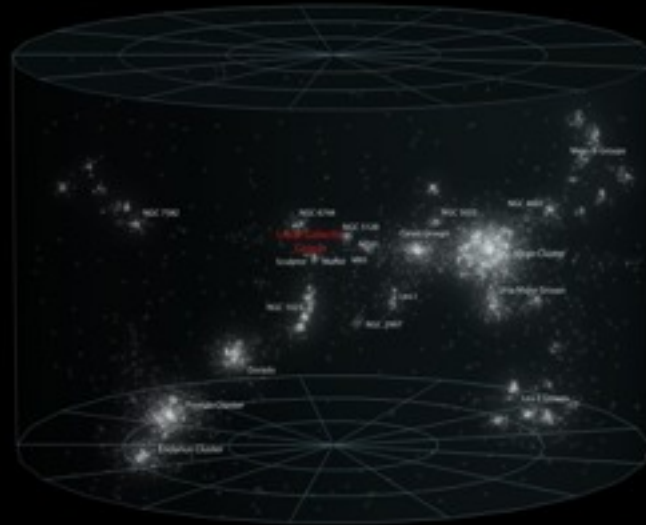
Milky Way Galaxy



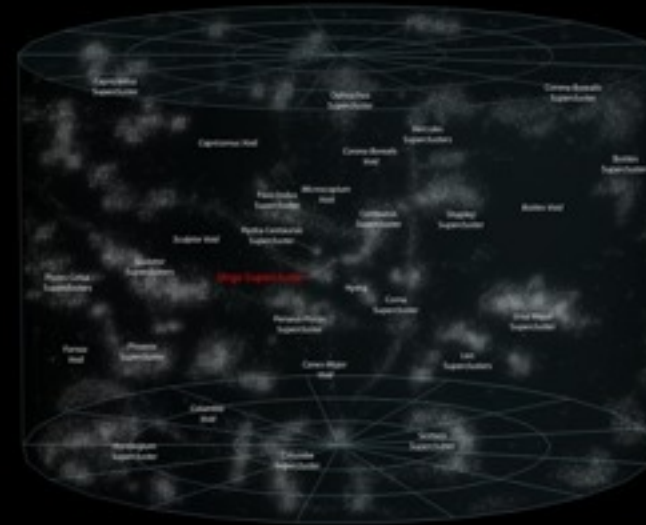
Local Galactic Group



Virgo Supercluster



Local Superclusters



Observable Universe

