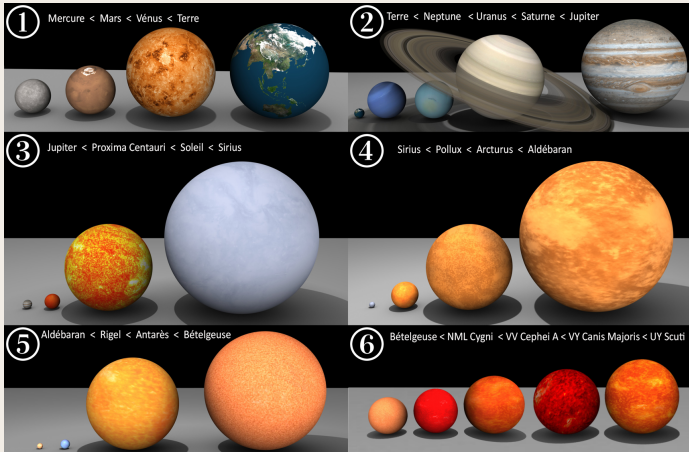


Astronomie

P S I · 2 6 2 7 · B O N U S



Système solaire	diam. (km)	dist./sol (ua)
Soleil	1 392 000	0,0
Mercure	4 878	0,4
Vénus	12 104	0,7
Terre	12 756	1,0
Mars	6 780	1,5
Jupiter	142 984	5,2
Saturne	120 536	9,5
Uranus	51 118	19,2
Neptune	49 528	30,1

$$1 \text{ ua} = 149\,597\,870\,700 \text{ m}$$

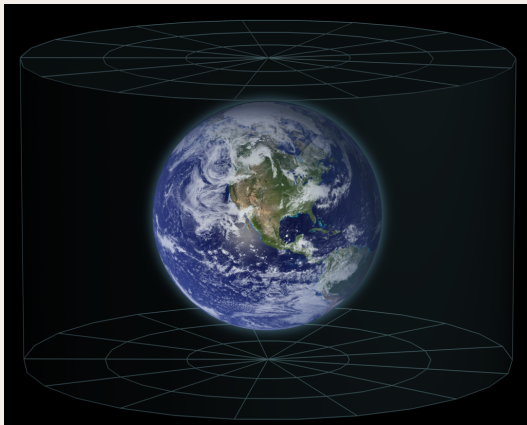
Système solaire	diam. (mm)	dist./sol (m)
Soleil	139,2	0
Mercure	0,5	6
Vénus	1,2	11
Terre	1,3	15
Mars	0,7	23
Jupiter	14,3	78
Saturne	12,1	143
Uranus	5,1	287
Neptune	5,0	450

Étoiles	diam./sol	dist./sol (al)
Proxima	0,1	4,2
Étoile de Barnard	0,2	6,0
Soleil	1,0	0,0
Sirius A	1,7	8,6
Pollux	8,8	33,7
Arcturus	24,5	36,7
Aldébaran	45,1	65,1
Rigel	78,9	~ 863
Antarès	653	~ 604
Bételgeuse	~ 1000	~ 724
VY Canis Majoris	~ 1420	~ 3800

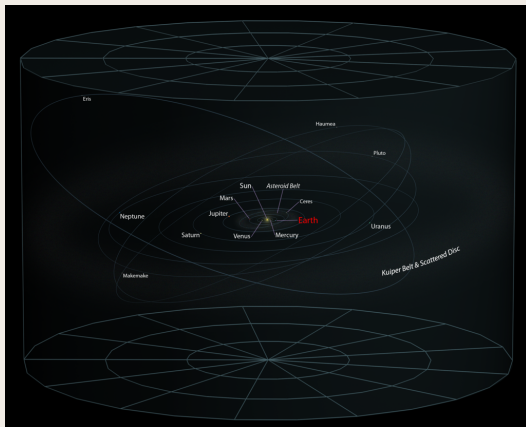
$$1 \text{ al} = 9\,460\,730\,472\,580\,800 \text{ m}$$

Étoiles	diam. (m)	dist./sol (km)
Proxima	0,02	3 995
Étoile de Barnard	0,03	5 620
Soleil	0,14	0
Sirius A	0,24	8 137
Pollux	1	31 883
Arcturus	3	34 721
Aldébaran	6	61 589
Rigel	11	~ 820 000
Antarès	91	~ 570 000
Bételgeuse	~ 139	~ 685 000
VY Canis Majoris	~ 198	~ 3 610 000

Taille de l'univers

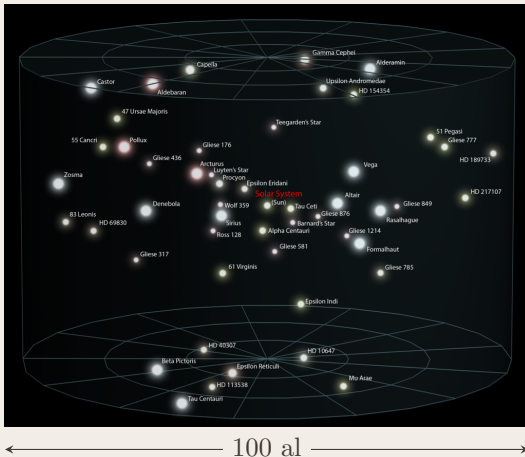


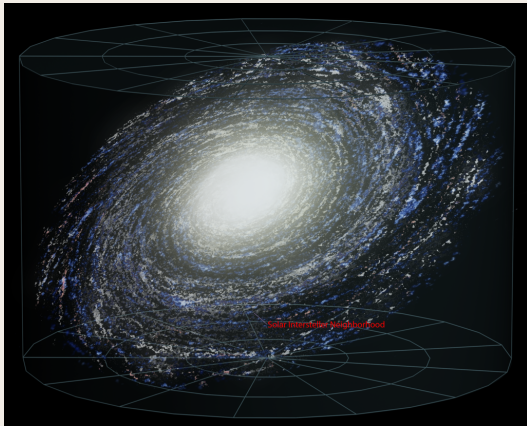
<https://www.jpl.nasa.gov/infographics/earths-location-in-the-universe/>



← 200 ua →

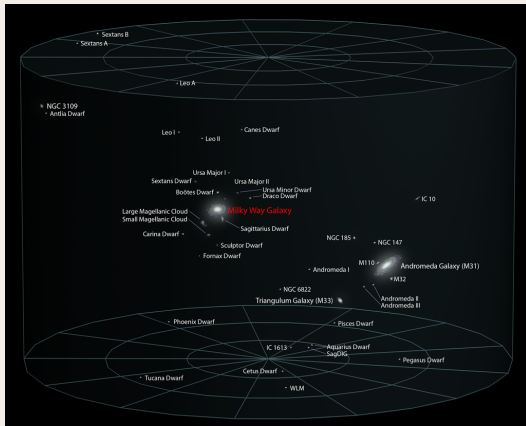
<https://www.jpl.nasa.gov/infographics/earths-location-in-the-universe/>



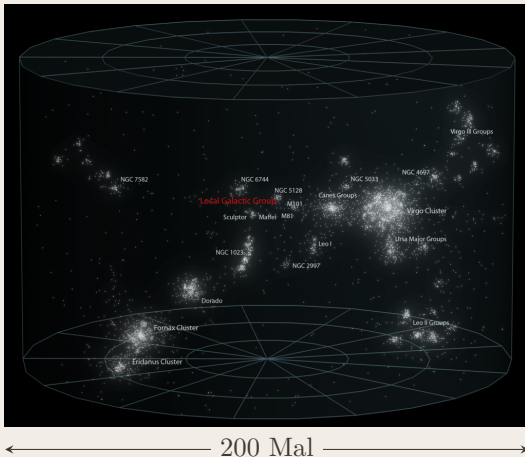


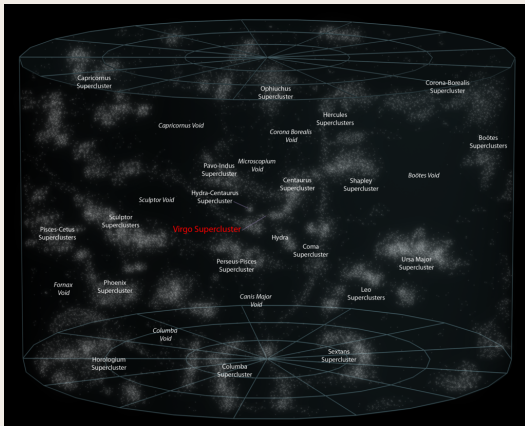
← 100 000 al →

<https://www.jpl.nasa.gov/infographics/earths-location-in-the-universe/>



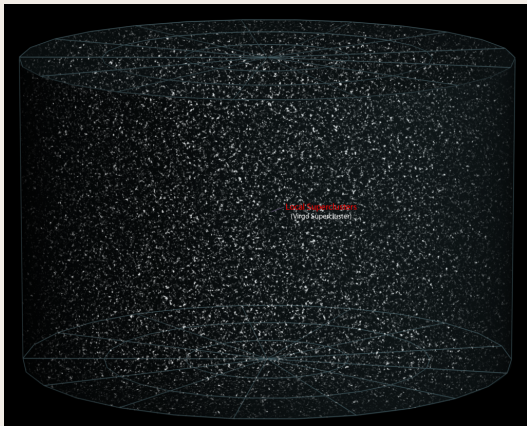
← 10 Mal →





← 1 Gal →

<https://www.jpl.nasa.gov/infographics/earths-location-in-the-universe/>



← 93 Gal →

<https://www.jpl.nasa.gov/infographics/earths-location-in-the-universe/>

$$\begin{aligned}93 \text{ Gal} &= 8,8 \cdot 10^{23} \text{ km} \\ &= 8,8 \cdot 10^{41} \text{ fm}\end{aligned}$$