

Astronomy 101
Worlds in the Solar System

Updated 9 November, 2016

World	Orbits (AU)	Diameter (km)	Density (g/cm³)	log₁₀ Mass (kg)	Albedo
Jupiter	Sun (5.20)	142796	1.33	27.28	0.51
Saturn	Sun (9.54)	120660	0.69	26.75	0.50
Uranus	Sun (19.2)	51300	1.3	25.94	0.66
Neptune	Sun (30.1)	49520	1.64	26.01	0.62
Earth	Sun (1.00)	12756	5.52	24.74	0.3-0.5
Venus	Sun (0.72)	12102	5.25	24.69	0.76
Mars	Sun (1.52)	6786	3.95	23.81	0.16
Mercury	Sun (0.39)	4878	5.43	23.52	0.06
Ganymede	Jupiter	5262	1.94	23.17	0.43
Titan	Saturn	5150	1.88	23.13	0.21
Callisto	Jupiter	4821	1.86	23.03	0.17
Io	Jupiter	3643	3.57	22.95	0.63
Moon	Earth	3476	3.34	22.87	0.12
Europa	Jupiter	3122	2.97	22.68	0.67
Triton	Neptune	2707	2.05	22.33	0.76
136199 Eris	Sun (67.8)	2326	2.04	22.22	0.96 ± 0.06
Pluto	Sun (39.5)	2374	1.86	22.11	0.49-0.66
Titania	Uranus	1578	1.72	21.55	0.27
Rhea	Saturn	1529	1.24	21.36	0.65
Oberon	Uranus	1523	1.63	21.48	0.23
136108 Haumea	Sun (43.2)	1960 x 990	2.95 ± 0.30	21.60	0.7 ± 0.1
225088 – 2007 OR10	Sun (67.0)	1535 ± 150	?	?	0.89 ± 0.02
136472 Makemake	Sun (45.7)	1500 x 1400	1.4-3.2 (?)	?	0.8
Iapetus	Saturn	1472	1.27	21.30	0.04-0.5
Charon	Pluto	1212	1.71	21.20	0.2-0.5
Umbriel	Uranus	1169	1.40 ± 0.16	21.08	0.21
Ariel	Uranus	1158	1.67	21.13	0.39
Dione	Saturn	1123	1.50	21.04	0.55
50000 Quaoar	Sun (43.4)	1110	1.99 ± 0.46	21.15:	0.15 ± 0.10
Tethys	Saturn	1066	0.97	20.79	0.80
90377 Sedna	Sun (506)	995 ± 80	?	?	0.16-0.30
1 Ceres	Sun (2.77)	975 x 909	2.08	20.98	0.11
90482 Orcus	Sun (39.5)	950 ± 75	1.53 ± 0.14	20.81	0.23
307261 – 2002 MS4	Sun (41.7)	934 ± 47	?	?	0.05 ± 0.04
120347 Salacia	Sun (41.9)	845 ± 45	1.29 ± 0.26	20.64	0.04
55565 – 2002 AW197	Sun (47.5)	734 ± 112	?	?	0.12

208996 – 2003 AZ84	Sun (39.6)	723 ± 64	?	?	0.11 ± 0.02
174567 Varda	Sun (45.8)	705 ± 78	1.24 ± 0.42	20.42	0.10 ± 0.02
84522 – 2002 TC302	Sun (55.0)	580 ± 97	?	?	0.12 ± 0.02
20000 Varuna	Sun (43.1)	668 ± 120	0.99	20.57 (?)	0.13 ± 0.04
55637 – 2002 UX25	Sun (42.6)	665 ± 29	0.82 ± 0.11	20.10 (?)	0.11
229762 – 2007 UK126	Sun (73.6)	648 ± 53	< 1.74	?	0.17 ± 0.05
28978 Ixion	Sun (39.5)	617 ± 20	?	?	0.14
19521 Chaos	Sun (45.8)	600 ± 135	?	?	0.05 ± 0.02
84522 – 2002 TC302	Sun (55.3)	584 ± 97	?	?	0.12 ± 0.04
15874 – 1996 TL66	Sun (83.4)	339 ± 20	?	?	0.11 ± 0.02
2 Pallas	Sun (2.77)	570×500	2.8	20.34	0.16
4 Vesta	Sun (2.36)	578×458	3.4	20.43	0.42
2004 XR190 (Buffy)	Sun (57.1)	540 (?)	?	?	?
Enceladus	Saturn	513×497	1.61	20.03	0.99
38628 Huya	Sun (39.6)	406 ± 16	?	?	0.11
Miranda	Uranus	480×464	1.20	19.82	0.32
10 Hygiea	Sun (3.14)	500×350	2.4 (?)	19.9 (?)	0.072
119979 – 2002 WC190	Sun (48.0)	440 (?)	?	?	0.07 (?)
Proteus	Neptune	440×404	1.3 (?)	19.6 (?)	0.096
Mimas	Saturn	415×381	1.15	19.57	0.77
48639 – 1995 TL8	Sun (52.5)	350 (?)	?	19.65 (?)	0.1 (?)
Nereid	Neptune	340 ± 50	1.5 (?)	19.5 (?)	0.14