

Name	Mean orbital radius (km)	Eccentricity	Mean Diameter (km)	Smallest diameter (km)	Orbital Incln.	Axial tilt	Angle (degrees) of object's smallest dia at:		Solar corona angle (mean orbit, degrees)	Object disk to sun disk ratio			
							Periapsis	Apoapsis		perihelion and periapsis	perihelion and apoapsis	aphelion and periapsis	aphelion and apoapsis
Earth	149600000	0.02	12742.02		0	23.5	0.54	0.52	1.6				
Moon	384400	0.06	3475		5.16		0.56	0.5		102.95%	91.94%	106.45%	95.07%
Mars	227940000	0.09	6779.84		1.85	25.19	0.39	0.32	1.06				
Phobos	9380	0.02	22.2	18.8			0.18	0.18		47.72%	45.52%	57.55%	54.89%
Deimos	23460	0	12.4	11			0.03	0.03		8.14%	8.13%	9.82%	9.81%
Jupiter	778330000	0.05	139822		1.31	3.13	0.11	0.1	0.31				
Metis	128000	0	43				0.04	0.04		39.49%	39.28%	43.50%	43.28%
Adrastea	129000	0	16.4	15			0.01	0.01		13.56%	13.45%	14.94%	14.82%
Amalthea	181400	0	167	150	0.39		0.08	0.08		71.94%	71.22%	79.26%	78.47%
Thebe	221900	0.02	98.6	90			0.03	0.03		32.34%	30.71%	35.63%	33.83%
Io	421800	0	3643.2		0.04		0.59	0.59		550.83%	550.83%	606.85%	606.85%
Europa	671100	0	3121.6		0.47		0.3	0.3		276.32%	276.19%	304.42%	304.28%
Ganymede	1070400	0	5262.4		0.17		0.3	0.3		280.17%	279.51%	308.67%	307.94%
Callisto	1882700	0.01	4820.6		0.31		0.15	0.15		142.58%	140.40%	157.08%	154.68%
Leda	11165000	0.16	20				0	0		0.11%	0.08%	0.13%	0.09%
Himalia	11461000	0.16	170				0	0		0.95%	0.68%	1.05%	0.75%
Lysithea	11717000	0.11	36				0	0		0.19%	0.15%	0.20%	0.16%
Elara	11741000	0.22	86				0	0		0.50%	0.32%	0.55%	0.35%

Ananke	21276000	0.24	28			0	0		0.09%	0.06%	0.10%	0.06%
Carme	23404000	0.25	46			0	0		0.14%	0.08%	0.15%	0.09%
Pasiphae	23624000	0.41	60			0	0		0.23%	0.10%	0.25%	0.11%
Sinope	23939000	0.25	38			0	0		0.11%	0.07%	0.12%	0.07%
Saturn	1429400000	0.05	116464		2.48	26.73	0.06	0.05	0.17			
Pan	133600	0	20				0.02	0.02		25.77%	25.77%	28.72%
Atlas	137700	0	32	20			0.01	0.01		24.44%	24.44%	27.24%
Prometheus	139400	0	100.2	64	0		0.05	0.05		76.58%	76.58%	85.35%
Pandora	141700	0	83.8	62	0		0.04	0.04		72.69%	71.61%	81.01%
Epimetheus	151400	0.02	119	98	0.3		0.06	0.06		105.68%	98.87%	117.78%
Janus	151500	0.01	177.6	150	0.2		0.09	0.09		158.07%	154.37%	176.17%
Mimas	185600	0.02	397.2		1.5		0.18	0.17		312.25%	294.05%	348.00%
Enceladus	238100	0	498.8		0.02		0.16	0.16		269.37%	269.30%	300.21%
Tethys	294700	0	1059.6		1.1		0.26	0.26		435.25%	435.14%	485.09%
Telesto	294700	0	24	26			0.01	0.01		10.69%	10.67%	11.92%
Calypso	294700	0	19	22			0.01	0.01		9.04%	9.03%	10.08%
Dione	377400	0	1118		0.02		0.2	0.2		340.29%	340.12%	379.25%
Helene	377400	0	32	30			0.01	0.01		9.13%	9.13%	10.18%
Rhea	527100	0	1528		0.4		0.19	0.19		316.83%	316.19%	353.11%
Titan	1221900	0.03	5150		0.3		0.26	0.25		443.23%	417.21%	493.99%
Hyperion	1464100	0.02	266	126			0.01	0.01		8.87%	8.55%	9.88%
Iapetus	3560800	0.03	1436				0.02	0.02		41.00%	38.70%	45.70%
Phoebe	12944300	0.16	220	210			0	0		1.90%	1.36%	2.11%

Uranus	2870990000	0.05	50724		0.77	97.86	0.03	0.03	0.08				
Cordelia	49800	0	40.2		0.1		0.09	0.09		323.47%	323.07%	355.49%	355.06%
Ophelia	53800	0.01	42.8		0.1		0.09	0.08		301.41%	290.33%	331.25%	319.07%
Bianca	59200	0	51.4		0.2		0.09	0.09		298.98%	298.04%	328.58%	327.55%
Cressida	61800	0	79.6		0		0.13	0.13		429.59%	429.01%	472.13%	471.49%
Desdemona	62700	0	64		0.1		0.1	0.1		336.90%	336.79%	370.26%	370.14%
Juliet	64400	0	93.6		0.1		0.14	0.14		471.73%	470.64%	518.44%	517.24%
Portia	66100	0	135.2		0.1		0.19	0.19		652.31%	652.10%	716.89%	716.66%
Rosalind	69900	0	72		0.3		0.09	0.09		317.74%	317.64%	349.20%	349.09%
Belinda	75300	0	80.6		0		0.09	0.09		317.23%	317.13%	348.64%	348.53%
Puck	86000	0	162		0.3		0.15	0.15		525.09%	524.94%	577.08%	576.92%
Miranda	129900	0	471.6	466	4.3		0.26	0.25		877.44%	874.61%	964.31%	961.20%
Ariel	190900	0	1157.8	1156	0.04		0.4	0.4		1374.25%	1370.45%	1510.30%	1506.13%
Umbriel	266000	0	1169.4		0.13		0.28	0.28		959.13%	950.90%	1054.09%	1045.04%
Titania	436300	0	1577.8		0.11		0.22	0.22		755.42%	753.66%	830.21%	828.27%
Oberon	583500	0	1522.8		0.07		0.16	0.16		536.96%	535.39%	590.12%	588.40%
Caliban	7231000	0.16	98				0	0		3.18%	2.31%	3.49%	2.53%
Sycorax	12179000	0.52	190				0	0		6.45%	2.02%	7.09%	2.22%
Neptune	4504300000	0.01	49248		1.77	29.6	0.02	0.02	0.05				
Naiad	48200	0	58		4.7		0.14	0.14		789.70%	788.74%	803.38%	802.40%
Thalassa	50100	0	80		0.2		0.18	0.18		1007.79%	1007.00%	1025.25%	1024.44%
Despina	52500	0	148		0.1		0.3	0.3		1703.54%	1702.90%	1733.05%	1732.40%
Galatea	62000	0	158		0.1		0.24	0.24		1356.36%	1355.91%	1379.86%	1379.40%
Larissa	73500	0	192	178	0.2		0.21	0.21		1170.79%	1165.87%	1191.07%	1186.07%
Proteus	117600	0	416	402	0		0.25	0.25		1387.76%	1386.36%	1411.80%	1410.37%
Triton	354800	0	2706.8		156.8		0.47	0.47		2629.96%	2629.96%	2675.51%	2675.51%
Nereid	5513400	0.75	340	290			0.01	0		69.06%	9.66%	70.26%	9.83%
Pluto	5913520000	0.25	2302		17.14	122.5	0.02	0.01	0.04				
Charon	19410	0	1186		0		3.72	3.72		20725.51%	20716.71%	34454.80%	34440.16%

KEY:
Green - Total eclipse occurs because moon's angle in column f or g is greater than planet's angle in column f or g
Orange - Annular eclipse occurs if moon's angle in f or g is smaller than planet's angle in f or g but not by too much
Blue - Earth-like total eclipse (corona is visible) possible column f or g is greater than planet's column f or g and less than angle of corona in column h
Blue prime candidate because the ratio of moon's angular size exceeds planet's by ratio similar to the Earth-Moon relative sizes.

Sources: JPL's solar system dynamics WWW site, <http://ssd.jpl.nasa.gov>, Observer's Handbook 2003, Royal Astronomical Society of Canada, Rajiv Gupta (ed.), and The Nine Planets (web site) <http://seds.lpl.arizona.edu/nineplanets/nineplanets/nineplanets.html>