Table 1. Physical and Orbital Properties of the Irregular Satellites*

Name	a[a] (km)	i[b] (deg)	e[c]	Peri[d] (deg)	Node[e] (deg)	M[f] (deg)	Period[g] (days)	mag.[h] (m_R)	H_R[i]	Diam.[j] (km)	Year[k]
Themisto Group	Prograde										
XVIII Themisto	7507000	43.08	0.242	219.6	191.7	161.8	130.0	21.0	14.4	8	2000
Himalia Group	Prograde										
XIII Leda	11165000	27.46	0.164	272.3	217.1	228.1	240.9	20.2	13.5	18	1974
VI Himalia	11461000	27.50	0.162	332.0	57.2	68.7	250.6	14.8	8.1	184	1904
X Lysithea	11717000	28.30	0.112	49.5	5.5	329.1	259.2	18.2	11.7	38	1938
VII Elara	11741000	26.63	0.217	143.6	109.4	333.0	259.6	16.6	10.0	78	1905
S/2000J11	12555000	28.27	0.248	184.8	290.3	309.9	287.0	22.4	16.1	4	2000
Ananke Group	Retrograde										
S/2001J10	19394000	145.8	0.143	89.4	65.7	275.5	553.1	23.1	16.5	2	2001
S/2001J7	21027000	148.9	0.230	325.0	261.4	114.1	620.0	22.8	16.2	3	2001
XXII Harpalyke	21105000	148.6	0.226	140.6	37.2	351.7	623.3	22.2	15.2	4	2000
XXVII Praxidike	21147000	149.0	0.230	196.3	287.6	251.8	625.3	21.2	15.0	7	2000
S/2001J9	21168000	146.0	0.281	222.5	229.4	341.4	623.0	23.1	16.5	2	2001
S/2001J3	21252000	150.7	0.212	308.0	338.3	258.5	631.9	22.1	15.5	4	2001
XXIV Iocaste	21269000	149.4	0.216	68.4	276.8	345.8	631.5	21.8	14.5	5	2000
XII Ananke	21276000	148.9	0.244	100.6	7.6	248.8	629.8	18.9	12.2	28	1951
S/2001J2	21312000	148.5	0.228	100.4	240.8	14.5	632.4	22.3	15.7	4	2001
Pasiphae Group	Retrograde										
S/2001J4	23219000	150.4	0.278	230.7	311.8	358.9	720.8	22.7	16.1	3	2001
VIII Pasiphae	23624000	151.4	0.409	170.5	313.0	280.2	743.6	16.9	10.3	58	1908
XIX Megaclite	23806000	152.8	0.421	287.8	286.8	189.7	752.8	21.7	15.0	6	2000
S/2001J5	23808000	151.0	0.312	71.7	126.9	226.7	749.1	23.0	16.4	2	2001
IX Sinope	23939000	158.1	0.250	346.4	303.1	168.4	758.9	18.3	11.6	38	1914
XVII Callirrhoe	24102000	147.1	0.283	30.5	291.6	152.6	758.8	20.8	14.2	7	1999
S/2001J1	24122000	152.4	0.319	58.5	279.7	192.0	765.1	22.0	15.4	4	2001
Carme Group	Retrograde										
S/2001J6	23029000	165.1	0.267	242.3	336.6	279.2	716.3	23.2	16.6	2	2001
S/2002J1	23064000	163.1	0.244	161.6	350.7	126.7	715.6	22.8	16.0	3	2002
S/2001J8	23124000	165.0	0.267	53.3	68.7	274.8	720.9	23.0	16.4	2	2001
XXI Chaldene	23179000	165.2	0.251	256.0	145.1	330.7	723.8	22.5	15.7	4	2000
XXVI Isonoe	23217000	165.2	0.246	125.2	138.8	186.9	725.5	22.5	15.9	4	2000
XXV Erinome	23279000	164.9	0.266	20.0	326.3	325.6	728.3	22.8	16.0	3	2000
XX Taygete	23360000	165.2	0.252	239.9	312.8	154.1	732.2	21.9	15.4	5	2000
XI Carme	23404000	164.9	0.253	28.2	113.7	234.0	734.2	17.9	11.3	46	1938
S/2001J11	23547000	165.2	0.264	114.3	19.6	163.0	741.0	22.7	16.1	3	2001
XXIII Kalyke	23583000	165.2	0.245	232.8	56.0	311.0	743.0	21.8	15.3	5	2000

*Orbital data are from Robert Jacobson, Jet Propulsion Laboratory. Only satellites having well-determined orbits are listed.

[a]Mean orbital semi-major axis with respect to Jupiter.

[b]Mean inclination of orbit with respect to Jupiter's equator.

[c]Mean orbital eccentricity.

[d]Mean Argument of periapsis.

[e]Mean Longitude of ascending node.

[f]Mean anomaly of the orbit.

[g]Mean sidereal orbital period of satellite.

[h]Apparent red (0.65 micron wavelength) magnitude.

[i]Absolute magnitude of satellite if at zero phase angle and 1 AU from both the Earth and Sun.

[j]Diameter of satellite computed assuming a geometric albedo of 0.04.

[k]Year of the discovery.