

Jupiter and Satellites

| | Physical Parameters | | Satellite Orbit Parameters | | | |
|----------|---------------------|------------------------|----------------------------|----------------------|----------------------|-----------------|
| | Radius | Density | Average | Min | Max | Sidereal Period |
| Jupiter | 71492 km | 4189 kg/m ³ | 5.20 AU | ---- | ---- | 11.86 yrs |
| Io | 1818 km | 3530 kg/m ³ | 5.90 R _j | 5.87 R _j | 5.92 R _j | 42.46 hr |
| Europa | 1560 km | 2990 kg/m ³ | 9.38 R _j | 9.30 R _j | 9.47 R _j | 85.22 hr |
| Ganymede | 2634 km | 1940 kg/m ³ | 14.97 R _j | 14.94 R _j | 15.00 R _j | 171.71 hr |
| Callisto | 2409 km | 1851 kg/m ³ | 26.33 R _j | 26.14 R _j | 26.53 R _j | 400.54 hr |

Satellite Encounters

| Flyby | C/A time (SCET-UT) | System III RH | | | local time | Satellite Planetographic | | | Data | Geometry |
|-------------------|----------------------|---------------|----------|-----------|------------|--------------------------|--------|-------|---------|----------------|
| | | R (S3) | Lat (S3) | Elon (S3) | | Alt (km) | Lat | Lon | | |
| Io/J0 | 1995-Dec-07 17:45:58 | 5.88 | -0.08 | 86.7 | 11.83 | 900.6 | -9.56 | 258.9 | LPW | Central Wake |
| G1 | 1996-Jun-27 06:29:07 | 15.02 | 0.13 | 185.1 | 11.27 | 835.0 | 30.41 | 246.7 | LPW | Central Wake |
| G2 | 1996-Sep-06 18:59:34 | 15.00 | 0.19 | 202.0 | 10.78 | 261.4 | 79.30 | 236.4 | LPW | Polar |
| C3 | 1996-Nov-04 13:34:28 | 26.23 | -0.16 | 117.1 | 7.80 | 1129.9 | 13.20 | 282.3 | LPW | Central Wake |
| E4 | 1996-Dec-19 06:52:58 | 9.43 | -0.21 | 203.2 | 16.70 | 697.1 | -1.65 | 322.4 | LPW | Oblique Wake |
| E6 | 1997-Feb-20 17:06:10 | 9.43 | -0.49 | 18.3 | 12.98 | 591.3 | -17.02 | 34.7 | No MAG | Wake |
| G7 | 1997-Apr-05 07:09:58 | 14.96 | 0.32 | 340.2 | 19.74 | 3101.9 | 55.79 | 270.4 | LPW | Central Wake |
| G8 | 1997-May-07 15:56:10 | 14.98 | 0.07 | 73.3 | 8.11 | 1603.2 | 28.27 | 84.8 | LPW | Upstream |
| C9 | 1997-Jun-25 13:47:50 | 26.21 | -0.16 | 300.1 | 5.53 | 412.1 | 1.96 | 101.0 | LPW | Upstream |
| G9A | 1997-Jun-26 17:19:35 | 15.16 | -0.02 | 59.4 | 8.04 | 30.3R _g | -0.02 | 261.2 | RTS | Distant Wake |
| C10 | 1997-Sep-17 00:18:55 | 26.19 | -0.16 | 24.1 | 5.04 | 529.3 | 4.60 | 281.3 | LPW | Central Wake |
| E11 | 1997-Nov-06 20:31:44 | 9.35 | -0.30 | 137.3 | 10.95 | 2048.3 | 25.73 | 218.7 | LPW | Oblique Wake |
| G12A ¹ | 1997-Dec-15 10:00 | 15.01 | -0.12 | 349.8 | 6.75 | 5.47R _g | -5.81 | 266.1 | RTS | Distant Wake |
| E12 | 1997-Dec-16 12:03:20 | 9.46 | -0.13 | 242.3 | 14.65 | 206.0 | -8.66 | 134.4 | LPW | Upstream |
| E14 | 1998-Mar-29 13:21:05 | 9.49 | 0.01 | 175.7 | 14.41 | 1649.1 | 12.20 | 131.2 | LPW | Upstream |
| E15 | 1998-May-31 21:12:56 | 9.51 | -0.32 | 67.1 | 10.07 | 2519.5 | 15.01 | 225.4 | LPW | Wake |
| E16 | 1998-Jul-21 05:04:43 | 9.38 | -0.13 | 236.0 | 13.82 | 1839.5 | -25.61 | 133.6 | No Data | Upstream |
| E17 | 1998-Sep-26 03:54:20 | 9.39 | -0.65 | 220.1 | 9.92 | 3587.4 | -42.43 | 220.3 | LPW | Wake |
| E18 | 1998-Nov-22 11:44:56 | 9.34 | 0.25 | 47.7 | 13.07 | 2275.8 | 41.71 | 139.3 | No Data | Upstream |
| E19 | 1999-Feb-01 02:19:50 | 9.29 | -0.14 | 99.3 | 9.85 | 1444.4 | 30.52 | 28.2 | LPW | Upstream |
| C20 | 1999-May-05 13:56:17 | 26.28 | 0.17 | 206.7 | 17.83 | 1315.4 | 2.78 | 258.3 | No Data | Wake |
| C21 | 1999-Jun-30 07:46:50 | 26.20 | -0.19 | 43.9 | 1.75 | 1042.1 | -0.71 | 286.0 | RTS | Wake |
| C22 | 1999-Aug-14 08:30:52 | 26.25 | 0.13 | 333.2 | 18.14 | 2293.3 | -2.26 | 252.5 | RTS | Wake |
| C23 | 1999-Sep-16 17:27:02 | 26.25 | 0.13 | 81.2 | 17.93 | 1046.4 | 0.10 | 249.7 | RTS | Wake |
| I24 | 1999-Oct-11 04:33:03 | 5.92 | -0.003 | 279.6 | 10.70 | 614.6 | 4.51 | 135.9 | LPW | Upstream |
| E25A | 1999-Nov-25 16:29:05 | 9.48 | 0.30 | 164.5 | 3.22 | 5.5 Re | 62.31 | 266.0 | RTS | Distant Wake |
| I25 | 1999-Nov-26 04:05:22 | 5.90 | -0.31 | 208.5 | 10.21 | 303.8 | -76.39 | 315.8 | No Data | Polar |
| E26 | 2000-Jan-03 17:59:43 | 9.46 | -0.58 | 357.7 | 2.91 | 348.4 | -47.09 | 83.41 | LPW | Upstream/Polar |
| I27 | 2000-Feb-22 13:46:41 | 5.95 | 0.06 | 278.6 | 8.92 | 2013 | 18.54 | 157.4 | LPW | Upstream |
| G28 | 2000-May-20 10:10:10 | 14.99 | -0.10 | 8.22 | 0.78 | 808.7 | -18.96 | 92.41 | LPW | Upstream |
| G29 | 2000-Dec-28 08:25:27 | 14.99 | 0.23 | 139.5 | 23.9 | 2337.5 | 62.21 | 269.0 | LPW | Polar |
| C30 | 2001-May-25 11:23:58 | 26.29 | 0.20 | 283.8 | 13.16 | 131.91 | 13.65 | 254.6 | LPW | Downstream |
| I31 | 2001-Aug-06 04:59:20 | 5.93 | 0.25 | 200.9 | 4.32 | 196.74 | 77.51 | 187.7 | LPW | Polar |
| I32 | 2001-Oct-16 01:23:20 | 5.91 | -0.26 | 100.2 | 5.04 | 182.4 | -78.6 | 135.3 | LPW | Polar |
| I33 | 2002-Jan-17 14:08:23 | 5.9 | -0.2 | 350.3 | 1.3 | 103.2 | -43.6 | 41.8 | No Data | Upstream |
| A34* | 2002-Nov-05 06:19:18 | 2.5 | -0.4 | 210.6 | 22.0 | 294.9 | 8.9 | 71.5 | Predict | Upstream |

¹ Snapshots available * predicts based upon s011018a