

Galileo Orbits and Satellite Encounters

Flyby (a)	C/A time (SCET) (b)	System III RH (c)				(d)	Satellite Planetographic (e)			Data (f)	Geometry (g)
		R	Lat	Elon	Wlon	local time	Alt (km)	Lat	Lon		
I0	1995-Dec-07 17:45:58	5.88	-0.08	86.7	273.3	11.83	897.3	-9.55	258.9	LPW	Central Wake
G1	1996-Jun-27 06:29:07	15.02	0.13	185.1	174.9	11.27	835.0	30.39	246.7	LPW	Central Wake
G2	1996-Sep-06 18:59:34	15.00	0.19	202.0	158.0	10.78	261.4	79.29	236.4	LPW	Polar
C3	1996-Nov-04 13:34:28	26.23	-0.16	117.1	242.9	7.80	1135.9	13.19	282.3	LPW	Central Wake
E4	1996-Dec-19 06:52:58	9.43	-0.21	203.2	156.8	16.70	692.1	-1.65	322.4	LPW	Oblique Wake
E6	1997-Feb-20 17:06:10	9.43	-0.49	18.3	341.7	12.98	586.3	-17.02	34.7	No MAG	Wake
G7	1997-Apr-05 07:09:58	14.96	0.32	340.2	19.8	19.74	3101.9	55.80	270.4	LPW	Central Wake
G8	1997-May-07 15:56:10	14.98	0.07	73.3	286.7	8.11	1603.2	28.27	84.8	LPW	Upstream
C9	1997-Jun-25 13:47:50	26.21	-0.16	300.1	59.9	5.53	418.1	1.96	101.0	LPW	Upstream
C9G (h)	1997-Jun-26 17:19:35	15.16	-0.02	59.4	300.6	8.04	30.3Rg	-0.02	261.2	RTS	Distant Wake
C10	1997-Sep-17 00:18:55	26.19	-0.16	24.1	335.9	5.04	535.3	4.60	281.3	LPW	Central Wake
E11	1997-Nov-06 20:31:44	9.35	-0.30	137.3	222.7	10.95	2043.3	25.73	218.7	LPW	Oblique Wake
E12G (h)	1997-Dec-15 09:58:09	15.01	-0.12	349.8	10.2	6.75	5.47Rg	-5.81	266.1	RTS	Distant Wake
E12	1997-Dec-16 12:04:23	9.46	-0.13	242.3	117.7	14.65	200.9	-8.67	134.4	LPW	Upstream
E14	1998-Mar-29 13:21:05	9.49	0.01	175.7	184.3	14.41	1644.1	12.21	131.2	LPW	Upstream
E15	1998-May-31 21:12:56	9.51	-0.32	67.1	292.9	10.07	2514.5	15.00	225.4	LPW	Wake
E16	1998-Jul-21 05:03:44	9.38	-0.13	236.0	124.0	13.82	1834.2	-25.65	133.6	No Data	Upstream
E17	1998-Sep-26 03:54:20	9.39	-0.65	220.1	139.9	9.92	3582.4	-42.43	220.3	RTS	Wake
E18	1998-Nov-22 11:38:26	9.34	0.25	47.7	312.3	13.07	2270.8	41.34	139.3	No Data	Upstream
E19	1999-Feb-01 02:19:50	9.29	-0.14	99.3	260.7	9.85	1439.4	30.52	28.2	LPW	Upstream
C20	1999-May-05 13:56:18	26.28	0.17	206.7	153.3	17.83	1321.4	2.78	258.3	No Data	Wake
C21	1999-Jun-30 07:46:50	26.20	-0.19	43.9	316.1	1.75	1048.1	-0.70	286.0	RTS	Wake
C22	1999-Aug-14 08:30:52	26.25	0.13	333.2	26.8	18.14	2299.3	-2.30	252.5	RTS	Wake
C23	1999-Sep-16 17:27:02	26.25	0.13	81.2	278.8	17.93	1052.4	0.10	249.7	RTS	Wake
I24	1999-Oct-11 04:33:03	5.92	-0.003	279.6	80.4	10.70	611.3	4.51	135.9	LPW	Upstream
I25E (h)	1999-Nov-25 16:29:05	9.48	0.30	164.5	195.5	3.22	5.5 Re	62.31	266.0	RTS	Distant Wake
I25	1999-Nov-26 04:05:21	5.90	-0.31	208.5	151.5	10.21	300.5	-76.39	315.8	No Data	Polar
E26	2000-Jan-03 17:59:43	9.46	-0.58	357.7	2.3	2.91	348.4	-47.09	83.41	LPW	Upstream/Polar
I27	2000-Feb-22 13:46:41	5.95	0.06	278.6	81.4	8.92	2013	18.54	157.4	LPW	Upstream
G28	2000-May-20 10:10:10	14.99	-0.10	8.22	351.8	0.78	808.7	-18.96	92.41	LPW	Upstream
G29	2000-Dec-28 08:25:27	14.99	0.23	139.5	220.5	23.9	2337.5	62.21	269.0	LPW	Polar
C30	2001-May-25 11:23:58	26.29	0.20	283.8	76.2	13.16	131.91	13.65	254.6	LPW	Downstream
I31	2001-Aug-06 04:59:20	5.93	0.25	200.9	159.1	4.32	196.74	77.51	187.7	LPW	Polar
I32	2001-Oct-16 01:23:20	5.91	-0.26	100.2	259.8	5.04	182.4	-78.6	135.3	LPW	Polar
I33	2002-Jan-17 14:08:23	5.9	-0.2	350.3	9.7	1.3	103.2	-43.6	41.8	No Data	Upstream
A34	2002-Nov-05 06:18:40	2.5	-0.4	210.6	149.4	22.0	162.9	-47.7	74.8	LPW	Upstream
J35 (i)	2003-Sep-21 18:57:00	0.97	-0.19	196.6	163.4	21.4					

- (a) Each Galileo orbit is labelled with a satellite (usually a close flyby) and orbit number. I=Io, G=Ganymede, E=Europa, C=Callisto, J=Jupiter, A=Amalthea
(b) Spacecraft event time (SCET in UT) of closest approach (C/A) of the Galileo spacecraft to the satellite
(c) Co-ordinates the spacecraft relative to the center of Jupiter. Elon decreases with time for a stationary observer (completing a RH co-ordinate system with R and latitude). Wlon=360-Elon= System III longitude.
(d) Local time of the space craft in a system that is centered on Jupiter with the Jupiter-Sun line as 1200 (noon).
(e) Co-ordinates of the spacecraft relative to the center of the appropriate satellite.
(f) Type of data received from the spacecraft. LPW are (relatively) high-rate data, RTS are low-rate data.
(g) Geometry of the satellite encounter. See accompanying plots.
(h) Non-targeted encounter
(i) Prediction (based upon s030129a)