Cassini Solstice Mission Titan Flyby Summary

| Flyby | | REV | SEQ | Date | DOY | C/A Time | Hyd gms | Alt | Inbound to c/a (hours) -22 -21 -20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 | Outbound from c/a (hours) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 | Inner Ring Plane Crossing | Ring Crossing Geometry | Occ | LST Dec-Hr | Dual pb? | C/A Lat (deg) | C/A Long (deg) | Phase Angle (deg) | Flyby |
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Cassini Solstice Mission Titan Flyby Summary

Flyby		REV	SEQ	Date	DOY	C/A Time	Hyd gmts	Alt	Inbound to c/a (hours)	Outbound from c/a (hours)	Inbound Pass Type	Inbound Pass Type	Occ	LST	Dual pb?	C/A LAT (deg)	C/A LON (deg)	Phase Angle (deg)	Flyby
									-22 -21 -20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26					Dec-Hr				
T76	Equatorial - 1	148	S68	05/08/11	128	22:53:44	1873		CIRS VIMS DUVS VIMS CIRS DSN Pass		Out	IN		19.58	DPB	0.3	-247.6	46.7	T76
T77		149	S68	06/20/11	171	18:32:00	1359		PWS RADAR CIRS VIMS CIRS DSN		Out	Out		11.93		0.4	106.0	73.2	T77
T78		153	S70	09/12/11	255	02:50:06	5821		CIRS RPI CAPS UVIS DSN Pass DSN Pass		Out	IN	UV	17.22	DPB	-0.4	-60.2	159.1	T78
T79		158	S71	12/13/11	347	20:11:23	3583	Originally CAPS	CIRS VIMS CIRS DSN Pass		Out	Out		12.59		7.4	290.0	100.1	T79
T80		159	S71	01/02/12	2	16:13:38	29614		CIRS ISS RADAR VIMS DSN Pass		Out	IN	V	18.34		-59.1	246.9	75.8	T80
T81		160	S72	01/30/12	30	13:39:48	31133		CIRS PWS ISS UVIS CIRS DSN Pass		Out	Out		12.33	DPB	-59.7	105.1	96.3	T81
T82		161	S72	02/19/12	50	08:43:17	3803		CIRS ISS CIRS DSN Pass		Out	IN		18.08		9.5	61.4	142.6	T82
T83		166	S73	05/22/12	143	01:10:11	954		VIMS CIRS Radar RADAR VIMS CIRS DSN Pass		Out	Out		13.40	DPB	72.7	127.7	71.2	T83
T84	Inclined - 2	167	S73	06/07/12	159	00:07:21	959		CIRS VIMS CIRS RADAR VIMS CIRS DSN Pass		Out	Out		13.38	DPB	38.8	282.7	74.6	T84
T85		169	S74	07/24/12	206	20:03:07	1012		CIRS CIRS VIMS CIRS VIMS CIRS DSN Pass		Out	Out		13.27	DPB	62.0	149.3	58.3	T85
T86		172	S75	09/26/12	270	14:35:38	485.7	950	Dead Pointer CIRS VIMS CIRS CIRS CIRS DSN		Out	Out		13.13	DPB	62.6	200.6	46.6	T86
T87		174	S76	11/13/12	318	10:22:08	133.4	974	CIRS VIMS RADAR VIMS CIRS DSN Pass		Out	Out		13.01	DPB	11.7	124.6	68.2	T87
T88		175	S76	11/29/12	334	08:56:59	278.9	1015	CIRS VIMS CIRS CIRS DSN		Out	Out		12.97	DPB	25.9	147.9	44.1	T88
T89		181	S77	02/17/13	48	01:56:35	1978		CIRS RSS CIRS DSN Pass		Out	Out		12.78		21.1	154.9	34.8	T89
T90		185	S78	04/05/13	95	21:43:30	1400		CIRS VIMS CIRS DSN Pass		Out	Out		12.66	DPB	-16.5	129.7	68.7	T90
T91		190	S78	05/23/13	143	17:32:55	318.4	970	CIRS RADAR ISS CIRS DSN		Out	Out		12.54	DPB	46.1	239.9	50.3	T91
T92		194	S79	07/10/13	191	13:21:47	466.9	964	ISS CIRS RADAR VIMS ISS DSN Pass		Out	Out		12.43	DPB	37.0	234.7	45.9	T92
T93		195	S79	07/26/13	207	11:56:22	1389		CIRS ISS CIRS UVIS ISS VIMS ISS CIRS VIMS DSN Pass		Out	Out		12.39	DPB	28.1	249.2	58.9	T93
T94		197	S80	09/12/13	255	07:43:56	1397		CIRS ISS CIRS UVIS VIMS DSN Pass		IN	Out		12.27	DPB	17.3	206.0	21.0	T94
T95		198	S80	10/14/13	287	04:56:27	391.6	961	CIRS ISS CIRS RADAR RADAR CIRS DSN Pass		IN	Out		12.19	DPB	8.3	205.3	24.7	T95
T96		199	S81	12/01/13	335	00:41:19	1400		CIRS CIRS ISS VIMS CIRS VIMS DSN Pass		IN	IN		12.07	DPB	-13.6	143.4	50.4	T96
T97		200	S82	01/01/14	1	21:59:41	1400		CIRS ISS CIRS UVIS VIMS CIRS ISS CIRS DSN Pass		IN	IN		12.00	DPB	-14.1	176.7	35.1	T97
T98		201	S82	02/02/14	33	18:12:38	237.8	1236	CIRS ISS RADAR CIRS DSN Pass		IN	IN		11.92	DPB	-22.6	176.8	43.9	T98
T99		202	S82	03/06/14	65	16:26:47	1500		ISS RSS CIRS DSN Pass		IN	IN		11.84		-31.1	176.9	52.6	T99
T100		203	S83	04/07/14	97	13:41:14	235.6	963	CIRS ISS CIRS VIMS C V RI CIRS UVIS CIRS DSN Pass		IN	IN	V	11.76	DPB	-36.8	187.7	59.5	T100
T101		204	S83	05/17/14	137	16:12:15	236.1	2992	CIRS ISS UVIS RSS CIRS DSN Pass		IN	Out	RU	0.04	DPB	-37.3	161.7	157.7	T101
T102		205	S84	06/18/14	169	13:28:25	236.3	3659	CIRS ISS CIRS RSS CIRS ISS DSN Pass		IN	Out	R	23.97		-36.5	178.6	165.5	T102
T103		206	S84	07/20/14	201	10:40:58	5103		CIRS ISS CIRS VIMS CIRS VIMS CIRS ISS DSN Pass		IN	Out	UV	23.89	DPB	-31.8	178.9	170.8	T103
T104		207	S85	8/21/14	233	08:09:00	362.5	964	CIRS ISS CIRS VIMS RADAR VIMS CIRS ISS CIRS DSN Pass		IN	Out		23.82	DPB	34.5	360.0	11.9	T104
T105		208	S85	9/22/14	265	05:23:19	1401		CIRS UVIS VIMS CIRS UV CIRS DSN Pass		IN	Out	U	23.75	DPB	43.8	0.8	21.0	T105
T106		209	S86	10/24/14	297	02:40:30	322.8	1013	CIRS ISS CIRS VIMS RSS VIMS CIRS DSN Pass		IN	Out		23.67		37.5	322.3	31.4	T106
T107		210	S86	12/10/14	344	22:26:35	316.6	980	CIRS CIRS ISS UVIS CIRS VIMS CIRS DSN Pass		IN	Out		23.55	DPB	53.8	87.4	56.0	T107
T108		211	S87	1/11/15	11	19:48:35	263.4	979	UVIS RSS CIRS VIMS RADAR CIRS DSN Pass		IN	Out		23.48	DPB	69.3	-1.2	45.8	T108
T109		212	S87	2/12/15	43	17:08:04	188.3	1200	VIMS UVIS VIMS CIRS UVIS CIRS DSN Pass		IN	Out		23.40	DPB	78.7	4.3	55.0	T109
T110		213	S88	03/16/15	75	14:29:48	2276		CIRS VIMS CIRS DSN Pass		IN	Out		23.33	DPB	74.8	95.0	70.5	T110
T111	Equatorial - 2	215	S89	05/07/15	127	22:50:23	2722		CIRS VIMS CIRS DSN Pass		IN	IN		6.00	DPB	-0.8	67.0	33.8	T111
T112		218	S89	07/07/15	188	08:09:50	10943		CIRS ISS CIRS VIMS CIRS DSN Pass		IN	Out		0.77		0.8	293.9	78.5	T112
T113		222	S91	09/28/15	271	21:37:12	312.1	1035	CIRS ISS CIRS V RI RADAR CIRS DSN Pass		IN	IN		6.35	DPB	-0.8	61.4	41.9	T113
T114		225	S91	11/13/15	317	05:46:31	11297		CIRS VIMS CIRS VIMS ISS CIRS UVIS VIMS DSN Pass		IN	Out		2.49		-14.4	122.4	91.8	T114
T115		230	S92	01/16/16	16	02:20:24	3548		CIRS UVIS CIRS VIMS DSN Pass		IN	Out		2.46		-19.0	300.2	104.0	T115
T116	Inclined - 3	231	S92	02/01/16	32	01:00:05	1398		CIRS ISS UVIS CIRS DSN Pass		IN	Out	UV	2.42	DPB	-82.1	174.9	121.2	T116
T117		232	S93	02/16/16	47	23:49:41	307.8	1018	CIRS VIMS RSS CIRS DSN Pass		IN	Out	R	2.40		-39.1	284.0	122.4	T117
T118		234	S93	04/04/16	95	19:42:42	316.1	990	CIRS UVIS ISS UVIS VIMS DSN Pass		IN	Out	UV	2.28	DPB	-62.1	243.5	138.5	T118
T119		235	S94	05/06/16	127	16:54:37	445.9	969	CIRS ISS CIRS RSS VIMS CIRS DSN Pass		IN	Out	R	2.20		-59.1	178.6	139.2	T119
T120		236	S94	06/07/16	159	14:06:17	313.6	974	CIRS RADAR CIRS DSN Pass		IN	Out		2.11	DPB	-35.8	146.8	124.6	T120
T121		238	S95	07/25/16	207	09:58:23	351.9	975	CIRS V RADAR VIMS CIRS DSN Pass		IN	Out	V	1.99	DPB	-6.4	129.2	101.2	T121
T122	F Ring/Proximal Orbits	239	S95	08/10/16	223	08:30:53	1698		RSS ISS DSN Pass		IN	Out		1.95		12.3	123.9	88.4	T122
T123		243	S96	09/27/16	271	04:16:59	1775		CIRS VIMS UVIS VIMS CIRS UVIS VIMS DSN Pass		IN	Out	UV	1.82	DPB	22.6	124.5	86.1	T123
T124		248	S96	11/13/16	318	23:55:50	1585		CIRS ISS CIRS VIMS RSS CIRS ISS CIRS DSN Pass		IN	Out		1.69		37.3	120.9	78.4	T124
T125		250	S97	11/29/16	334	22:14:32	3159		VIMS ISS CIRS DSN Pass		IN	Out		1.63	DPB	42.3	127.0	80.9	T125
nT253		253	S97	12/15/16	350	21:52:44	342353		ISS CIRS PIE CIRS CIRS PIE CIRS PIE CIRS PIE		ALL	IN		1.75		67.9	96.0	58.43	nT253
nT255		255	S97	12/31/16	366	12:19:04	679042		ISS DSN Pass		ALL	IN		1.00		45.2	-44.5	29.09	nT255
nT259		259	S97	02/01/17	32	19:52:54	219437		ISS CIRS PIE CIRS PIE ISS CIRS PIE ISS DSN Pass		IN	Out		2.00		-30.5	312.0	90.27	nT259
nT261		261	S98	02/17/17	48	13:10:28	186751		ISS CIRS ISS CIRS PIE ISS PIE ISS PIE DSN Pass		ALL	Out		1.25		56.6	128.3	77.57	nT261
nT264		264	S98	03/05/17	64	11:53:50	489582		ISS PIE ISS PIE ISS PIE ISS PIE ISS DSN Pass		ALL	IN		1.25		60.0	-57.4	42.43	nT264
T126		270	S99	04/22/17	112	06:08:07	992.4	980	CIRS ISS CIRS ISS RADAR VIMS CIRS DSN		IN	Out		1.03	DPB	65.5	100.5	63.93	T126
nT273		273	S99	05/07/17	127	20:32:16	496014		ISS ISS ISS CIRS ISS ISS PIE DSN Pass		ALL	IN		0.75		38.1	-41.2	30.69	nT273
nT275		275	S99	05/24/17	144	00:18:54	117956		ISS V Gap CIRS R PIE CIRS ISS CIRS ISS CIRS ISS DSN Pass		ALL	IN		0.50		-24.1	323.1	69.0	nT275
nT276		276	S100	06/08/17	159	18:44:40	367299		ISS CIRS ISS CIRS ISS CIRS ISS CIRS ISS CIRS ISS CIRS ISS CIRS ISS DSN Pass		ALL	IN		0.75		52.6	-44.6	37.86	nT276
nT283		283	S101	07/10/17	191	13:50:51	264317		ISS CIRS PIE CIRS PIE CIRS PIE CIRS PIE CIRS ISS PIE U Gap ISS C ISS DSN Pass		ALL	IN		0.25		72.2	65.8	56.3	nT283
nT285		285	S101	07/26/17	207	23:20:01	494283		ISS CIRS ISS ISS ISS ISS ISS DSN Pass		ALL	Out		0.75		-14.2	319.6	66.22	nT285
nT288		288	S101	08/11/17	223	05:04:09	194991		ISS CIRS PIE CIRS PIE CIRS PIE PIE CIRS PIE CIRS ISS DSN Pass		Out	IN		0.00		70.9	131.9	77.44	nT288
nT292		292	S101	09/11/17	254	19:04:48	119733		PIE CIRS ISS CIRS PIE ISS PIE R PIE ISS PIE CIRS ISS CIRS PIE CIRS ISS CIRS ISS		Out	Out		23.50		63.3	132.7	85.63	nT292

Engine day
Caboose day
Instrument to Pandar
Data lost

Please direct questions or comments regarding this Summary to cassini_titan_mission_reps@jpl.nasa.gov

Earth	R	Rank In
Solar	UV	Tail
Stellar	U	Flank Out
Stellar & Solar	UV	Nose