

## SATURNO - EFFEMERIDI 2009

Generato con Saturn Ephemeris Generator 2.2.

[http://pds-rings.seti.org/tools/ephem2\\_sat.html](http://pds-rings.seti.org/tools/ephem2_sat.html)

Effemeridi di Saturno dal 1/1/2009 al 31/12/2009

Intervallo: 5 giorni

mm = mese

gg = giorno

hr = ora

mi = minuto

fase = fase di Saturno, in gradi (angolo Sole-Saturno-Terra)

tilt = apertura degli anelli (latitudine saturnocentrica della Terra)

raggio = raggio equatoriale apparente del pianeta, in secondi d'arco

distsol = distanza di Saturno dal Sole, in miliardi di Km

dister = distanza di Saturno dalla Terra, in miliardi di Km

elong. = elongazione (distanza angolare di Saturno dal Sole visto dalla Terra)

anno	mm	gg	hr	mi	fase	tilt	raggio	distsol	dister	elong.
2009	1	1	0	0	5.699	-0.815	9.231	1.4013E+09	1.3467E+09	108.921
2009	1	6	0	0	5.500	-0.848	9.311	1.4015E+09	1.3351E+09	114.039
2009	1	11	0	0	5.256	-0.901	9.389	1.4017E+09	1.3241E+09	119.199
2009	1	16	0	0	4.968	-0.975	9.464	1.4019E+09	1.3135E+09	124.401
2009	1	21	0	0	4.637	-1.068	9.536	1.4022E+09	1.3036E+09	129.644
2009	1	26	0	0	4.264	-1.180	9.603	1.4024E+09	1.2945E+09	134.924
2009	1	31	0	0	3.853	-1.310	9.666	1.4026E+09	1.2861E+09	140.235
2009	2	5	0	0	3.407	-1.455	9.722	1.4028E+09	1.2787E+09	145.571
2009	2	10	0	0	2.930	-1.613	9.772	1.4030E+09	1.2722E+09	150.925
2009	2	15	0	0	2.425	-1.784	9.814	1.4033E+09	1.2667E+09	156.291
2009	2	20	0	0	1.899	-1.963	9.848	1.4035E+09	1.2623E+09	161.661
2009	2	25	0	0	1.357	-2.150	9.874	1.4037E+09	1.2590E+09	167.012
2009	3	2	0	0	0.811	-2.341	9.891	1.4039E+09	1.2568E+09	172.283
2009	3	7	0	0	0.317	-2.533	9.899	1.4041E+09	1.2559E+09	176.995
2009	3	12	0	0	0.435	-2.725	9.897	1.4043E+09	1.2560E+09	175.896
2009	3	17	0	0	0.960	-2.913	9.887	1.4046E+09	1.2574E+09	170.916
2009	3	22	0	0	1.506	-3.095	9.867	1.4048E+09	1.2599E+09	165.668
2009	3	27	0	0	2.045	-3.269	9.839	1.4050E+09	1.2635E+09	160.389
2009	4	1	0	0	2.566	-3.432	9.802	1.4052E+09	1.2682E+09	155.123
2009	4	6	0	0	3.064	-3.582	9.758	1.4054E+09	1.2739E+09	149.886
2009	4	11	0	0	3.535	-3.717	9.707	1.4057E+09	1.2807E+09	144.688
2009	4	16	0	0	3.975	-3.836	9.649	1.4059E+09	1.2883E+09	139.531
2009	4	21	0	0	4.380	-3.938	9.586	1.4061E+09	1.2968E+09	134.418
2009	4	26	0	0	4.749	-4.020	9.518	1.4063E+09	1.3060E+09	129.353
2009	5	1	0	0	5.077	-4.084	9.446	1.4065E+09	1.3160E+09	124.340
2009	5	6	0	0	5.364	-4.127	9.371	1.4068E+09	1.3266E+09	119.382
2009	5	11	0	0	5.609	-4.149	9.293	1.4070E+09	1.3377E+09	114.478
2009	5	16	0	0	5.811	-4.151	9.214	1.4072E+09	1.3492E+09	109.627
2009	5	21	0	0	5.970	-4.133	9.134	1.4074E+09	1.3610E+09	104.828
2009	5	26	0	0	6.085	-4.093	9.053	1.4076E+09	1.3732E+09	100.079
2009	5	31	0	0	6.157	-4.034	8.972	1.4079E+09	1.3855E+09	95.383
2009	6	5	0	0	6.188	-3.955	8.893	1.4081E+09	1.3979E+09	90.738
2009	6	10	0	0	6.177	-3.856	8.814	1.4083E+09	1.4104E+09	86.141
2009	6	15	0	0	6.126	-3.740	8.738	1.4085E+09	1.4227E+09	81.588
2009	6	20	0	0	6.037	-3.605	8.663	1.4087E+09	1.4349E+09	77.077

2009	6	25	0	0	5.911	-3.454	8.591	1.4090E+09	1.4469E+09	72.605
2009	6	30	0	0	5.750	-3.286	8.522	1.4092E+09	1.4586E+09	68.171
2009	7	5	0	0	5.555	-3.104	8.457	1.4094E+09	1.4700E+09	63.775
2009	7	10	0	0	5.329	-2.907	8.394	1.4096E+09	1.4809E+09	59.410
2009	7	15	0	0	5.073	-2.697	8.335	1.4098E+09	1.4914E+09	55.073
2009	7	20	0	0	4.790	-2.475	8.280	1.4101E+09	1.5013E+09	50.760
2009	7	25	0	0	4.480	-2.241	8.229	1.4103E+09	1.5106E+09	46.470
2009	7	30	0	0	4.147	-1.997	8.182	1.4105E+09	1.5193E+09	42.200
2009	8	4	0	0	3.793	-1.744	8.139	1.4107E+09	1.5273E+09	37.949
2009	8	9	0	0	3.420	-1.482	8.101	1.4110E+09	1.5346E+09	33.712
2009	8	14	0	0	3.030	-1.214	8.066	1.4112E+09	1.5411E+09	29.486
2009	8	19	0	0	2.624	-0.939	8.036	1.4114E+09	1.5468E+09	25.268
2009	8	24	0	0	2.206	-0.659	8.011	1.4116E+09	1.5517E+09	21.058
2009	8	29	0	0	1.778	-0.376	7.990	1.4118E+09	1.5558E+09	16.857
2009	9	3	0	0	1.343	-0.089	7.974	1.4121E+09	1.5589E+09	12.671
2009	9	8	0	0	0.906	0.200	7.963	1.4123E+09	1.5612E+09	8.519
2009	9	13	0	0	0.479	0.489	7.956	1.4125E+09	1.5625E+09	4.503
2009	9	18	0	0	0.211	0.778	7.954	1.4127E+09	1.5630E+09	1.981
2009	9	23	0	0	0.518	1.066	7.956	1.4130E+09	1.5625E+09	4.881
2009	9	28	0	0	0.947	1.352	7.963	1.4132E+09	1.5611E+09	8.964
2009	10	3	0	0	1.385	1.633	7.975	1.4134E+09	1.5587E+09	13.189
2009	10	8	0	0	1.819	1.910	7.992	1.4136E+09	1.5555E+09	17.468
2009	10	13	0	0	2.246	2.182	8.013	1.4139E+09	1.5514E+09	21.787
2009	10	18	0	0	2.662	2.447	8.039	1.4141E+09	1.5464E+09	26.141
2009	10	23	0	0	3.065	2.703	8.070	1.4143E+09	1.5405E+09	30.527
2009	10	28	0	0	3.451	2.951	8.105	1.4145E+09	1.5338E+09	34.944
2009	11	2	0	0	3.818	3.188	8.144	1.4148E+09	1.5263E+09	39.394
2009	11	7	0	0	4.165	3.415	8.189	1.4150E+09	1.5181E+09	43.879
2009	11	12	0	0	4.488	3.629	8.237	1.4152E+09	1.5092E+09	48.402
2009	11	17	0	0	4.786	3.829	8.290	1.4154E+09	1.4996E+09	52.965
2009	11	22	0	0	5.054	4.015	8.346	1.4157E+09	1.4894E+09	57.568
2009	11	27	0	0	5.292	4.186	8.407	1.4159E+09	1.4787E+09	62.211
2009	12	2	0	0	5.497	4.341	8.471	1.4161E+09	1.4675E+09	66.894
2009	12	7	0	0	5.668	4.478	8.539	1.4163E+09	1.4559E+09	71.621
2009	12	12	0	0	5.801	4.598	8.609	1.4166E+09	1.4439E+09	76.394
2009	12	17	0	0	5.894	4.699	8.682	1.4168E+09	1.4318E+09	81.213
2009	12	22	0	0	5.947	4.780	8.758	1.4170E+09	1.4194E+09	86.078
2009	12	27	0	0	5.958	4.841	8.835	1.4172E+09	1.4070E+09	90.987