Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	97	251	08/09/1997	42122.30847	0.00018135	1.79667	289.68604	48.42549	356.91729	347.91905
METEOSAT-7	97	258	15/09/1997	42167.84447	0.00017954	1.78085	289.53511	301.04481	113.30913	349.88069
METEOSAT-7	97	265	22/09/1997	42165.60962	0.00023931	1.77568	289.47915	295.54865	125.71423	349.83569
METEOSAT-7	97	272	29/09/1997	42167.02511	0.00020283	1.76168	289.37412	322.76164	105.43002	349.76218
METEOSAT-7	97	279	06/10/1997	42166.13389	0.00015874	1.75961	289.39611	295.23427	139.80499	349.73480
METEOSAT-7	97	286	13/10/1997	42166.80823	0.00023675	1.74443	289.39539	312.10487	129.82078	349.72402
METEOSAT-7	97	293	20/10/1997	42165.74093	0.00026447	1.73954	289.57375	309.76750	138.85930	349.70706
METEOSAT-7	97	300	27/10/1997	42166.46575	0.00026472	1.72561	289.58836	330.46129	125.04455	349.70429
METEOSAT-7	97	307	03/11/1997	42166.49423	0.00019313	1.72129	289.82730	314.70045	147.45055	349.69165
METEOSAT-7	97	314	10/11/1997	42165.78335	0.00029851	1.70399	289.90839	321.58618	147.38276	349.69361
METEOSAT-7	97	321	17/11/1997	42166.30473	0.00029058	1.69463	290.26991	323.20813	152.29467	349.69141
METEOSAT-7	97	328	24/11/1997	42165.74510	0.00031335	1.67719	290.32478	337.73016	144.62832	349.70377
METEOSAT-7	97	335	01/12/1997	42166.75264	0.00021735	1.66677	290.67736	329.35857	159.54773	349.70538
METEOSAT-7	97	342	08/12/1997	42165.03278	0.00034069	1.64525	290.71190	330.35480	165.42621	349.71507
METEOSAT-7	97	349	15/12/1997	42166.80477	0.00030114	1.62984	291.08743	334.57309	167.74435	349.72691
METEOSAT-7	97	356	22/12/1997	42165.12862	0.00034165	1.60950	291.01035	344.82880	164.49479	349.75512
METEOSAT-7	97	363	29/12/1997	42166.77896	0.00022877	1.59387	291.28957	340.56252	175.39924	349.77134
METEOSAT-7	98	5	05/01/1998	42164.65821	0.00036106	1.57071	291.12320	337.40747	185.63750	349.78640
METEOSAT-7	98	12	12/01/1998	42166.87616	0.00030297	1.55233	291.35186	346.16282	183.58798	349.81903
METEOSAT-7	98	19	19/01/1998	42164.88114	0.00034397	1.53301	291.06039	353.54334	183.43595	349.85392
METEOSAT-7	98	26	26/01/1998	42166.46826	0.00022885	1.51664	291.17571	355.25067	188.54807	349.88676
METEOSAT-7	98	33	02/02/1998	42164.70072	0.00035354	1.49606	290.82796	347.57876	203.49094	349.90805
METEOSAT-7	98	40	09/02/1998	42166.48946	0.00029262	1.47834	290.92172	356.98468	200.94173	349.95713
METEOSAT-7	98	47	16/02/1998	42165.05202	0.00031573	1.46531	290.49558	2.15340	203.15066	350.00745
METEOSAT-7	98	54	23/02/1998	42165.79158	0.00021617	1.45242	290.54249	7.98598	204.22590	350.06160
METEOSAT-7	98	61	02/03/1998	42165.07855	0.00031905	1.43974	290.13172	354.34051	225.21731	350.09668
METEOSAT-7	98	68	09/03/1998	42165.81156	0.00026558	1.42526	290.21034	8.06816	218.37215	350.15828
METEOSAT-7	98	75	16/03/1998	42165.50155	0.00027147	1.41927	289.88264	7.21613	226.51870	350.22604
METEOSAT-7	98	82	23/03/1998	42164.99454	0.00019698	1.40870	290.04154	17.15165	223.39877	350.30194
METEOSAT-7	98	89	30/03/1998	42165.62491	0.00028847	1.40092	289.82357	355.09338	252.62664	350.35544
METEOSAT-7	98	96	06/04/1998	42164.96676	0.00024734	1.38695	290.04776	13.18279	241.29346	350.43801
METEOSAT-7	98	103	13/04/1998	42165.89211	0.00022748	1.38339	289.97713	7.40924	254.12647	350.52921

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	98	110	20/04/1998	42164.28521	0.00016963	1.37109	290.31454	21.84366	246.35394	350.63089
METEOSAT-7	98	117	27/04/1998	42165.94110	0.00025022	1.36445	290.35247	351.31690	283.82658	350.71716
METEOSAT-7	98	124	04/05/1998	42164.17600	0.00020942	1.34724	290.70880	15.94623	265.84786	350.82629
METEOSAT-7	98	131	11/05/1998	42165.87367	0.00017921	1.34224	290.85627	1.17950	287.48718	350.94838
METEOSAT-7	98	138	18/05/1998	42108.72859	0.00021835	1.32512	291.26759	334.30511	324.17949	354.27973
METEOSAT-7	98	145	25/05/1998	42110.47026	0.00035040	1.31490	291.45376	324.90915	345.37529	359.36721
METEOSAT-7	98	152	01/06/1998	42167.17526	0.00027241	1.29280	291.81521	60.00035	258.47549	1.02036
METEOSAT-7	98	159	08/06/1998	42168.22018	0.00019606	1.28322	291.99058	60.66129	264.39870	0.87986
METEOSAT-7	98	166	15/06/1998	42166.63073	0.00021142	1.26108	292.28485	70.83931	260.72161	0.77457
METEOSAT-7	98	173	22/06/1998	42167.38841	0.00017969	1.24782	292.45886	33.98000	304.22205	0.68906
METEOSAT-7	98	180	29/06/1998	42166.06223	0.00023195	1.22307	292.57294	56.83775	288.10352	0.64139
METEOSAT-7	98	187	06/07/1998	42166.07597	0.00014786	1.21102	292.68367	59.03379	292.69110	0.63476
METEOSAT-7	98	194	13/07/1998	42165.79161	0.00016819	1.18689	292.71174	61.28750	297.33926	0.66363
METEOSAT-7	98	201	20/07/1998	42165.32577	0.00016028	1.17308	292.77115	21.18136	344.33952	0.71623
METEOSAT-7	98	208	27/07/1998	42165.16287	0.00020628	1.14966	292.58110	45.96664	326.73158	0.80264
METEOSAT-7	98	215	03/08/1998	42164.00410	0.00010999	1.13881	292.56048	43.70717	336.03759	0.92792
METEOSAT-7	98	222	10/08/1998	42169.75615	0.00009529	1.11689	292.31416	354.52739	32.21786	0.78180
METEOSAT-7	98	229	17/08/1998	42167.97044	0.00017804	1.10551	292.31860	328.21971	65.19274	0.55335
METEOSAT-7	98	236	24/08/1998	42168.79137	0.00015702	1.08736	291.91456	0.09701	40.42245	0.35661
METEOSAT-7	98	243	31/08/1998	42166.95394	0.00011949	1.08005	291.90467	319.80204	87.46420	0.19401
METEOSAT-7	98	250	07/09/1998	42168.90780	0.00016758	1.06310	291.55056	343.09698	71.29673	0.06825
METEOSAT-7	98	257	14/09/1998	42166.23141	0.00024375	1.05465	291.70478	328.15070	92.88720	359.96765
METEOSAT-7	98	264	21/09/1998	42167.58545	0.00021561	1.04238	291.33911	352.74392	75.48884	359.89817
METEOSAT-7	98	271	28/09/1998	42165.69340	0.00018347	1.03759	291.57545	325.95290	108.90356	359.85956
METEOSAT-7	98	278	05/10/1998	42167.45297	0.00024988	1.02445	291.35887	342.41187	99.55821	359.85817
METEOSAT-7	98	285	12/10/1998	42164.74994	0.00030951	1.01602	291.86115	332.49884	115.89067	359.88141
METEOSAT-7	98	292	19/10/1998	42166.05434	0.00028114	1.00612	291.73515	351.93379	103.53716	359.93837
METEOSAT-7	98	299	26/10/1998	42164.68035	0.00024418	0.99966	292.33663	334.48148	127.37329	0.02508
METEOSAT-7	98	306	02/11/1998	42165.23773	0.00033529	0.98650	292.35488	343.91336	124.94601	0.14920
METEOSAT-7	98	313	09/11/1998	42163.58261	0.00036640	0.97392	293.18191	338.43765	136.64413	0.29969
METEOSAT-7	98	320	16/11/1998	42164.18017	0.00034651	0.96212	293.26842	353.75941	128.32214	0.48689
METEOSAT-7	98	327	23/11/1998	42163.69714	0.00029422	0.94980	294.10925	342.57647	145.78183	0.70515

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	98	334	30/11/1998	42162.74357	0.00040942	0.93372	294.21705	347.01790	148.38630	0.95930
METEOSAT-7	98	341	07/12/1998	42168.68269	0.00026922	0.91474	295.13973	335.74547	165.46219	0.78567
METEOSAT-7	98	348	14/12/1998	42168.08002	0.00025808	0.89950	295.21306	354.48062	153.34367	0.57571
METEOSAT-7	98	355	21/12/1998	42168.56318	0.00018965	0.88095	295.99278	341.27245	172.49385	0.39738
METEOSAT-7	98	362	28/12/1998	42166.62925	0.00031810	0.86260	295.92625	347.60979	172.97344	0.24762
METEOSAT-7	99	4	04/01/1999	42167.96246	0.00027283	0.83903	296.62436	347.64568	179.02598	0.13398
METEOSAT-7	99	11	11/01/1999	42166.19793	0.00028686	0.82310	296.42417	3.56178	170.13068	0.05430
METEOSAT-7	99	18	18/01/1999	42167.40647	0.00019625	0.80185	296.88553	356.43331	183.64961	0.00593
METEOSAT-7	99	25	25/01/1999	42165.06668	0.00033293	0.78555	296.50488	357.50544	189.82874	359.97633
METEOSAT-7	99	32	01/02/1999	42167.02147	0.00026450	0.76218	296.81767	0.86655	193.06790	359.98936
METEOSAT-7	99	39	08/02/1999	42164.66137	0.00029215	0.75061	296.34879	14.03152	187.31651	0.03405
METEOSAT-7	99	46	15/02/1999	42165.99448	0.00019247	0.73155	296.51251	12.76399	195.39822	0.11218
METEOSAT-7	99	53	22/02/1999	42163.89451	0.00032421	0.72116	296.03468	7.58711	208.04108	0.20056
METEOSAT-7	99	60	01/03/1999	42165.51681	0.00025066	0.70184	296.11074	15.08498	207.50789	0.34179
METEOSAT-7	99	67	08/03/1999	42163.58278	0.00027480	0.69608	295.58210	24.64714	205.54140	0.50935
METEOSAT-7	99	74	15/03/1999	42164.20933	0.00018518	0.68085	295.76150	29.51325	207.59906	0.71326
METEOSAT-7	99	81	22/03/1999	42163.01137	0.00029954	0.67570	295.66059	15.43267	228.88896	0.92242
METEOSAT-7	99	88	29/03/1999	42169.27045	0.00010244	0.65961	295.87549	17.38957	233.52216	0.82827
METEOSAT-7	99	95	05/04/1999	42168.36128	0.00010651	0.65803	296.09484	25.23970	232.14101	0.61743
METEOSAT-7	99	102	12/04/1999	42167.80555	0.00004081	0.64381	296.58014	64.49055	199.13362	0.44703
METEOSAT-7	99	109	19/04/1999	42167.85393	0.00014265	0.63950	297.14390	1.27734	268.51360	0.27841
METEOSAT-7	99	116	26/04/1999	42167.12021	0.00007485	0.62288	297.64955	43.85603	232.22255	0.17258
METEOSAT-7	99	123	03/05/1999	42167.43604	0.00006172	0.61993	298.50279	33.11777	248.93189	0.09769
METEOSAT-7	99	130	10/05/1999	42165.76985	0.00004593	0.60343	299.28017	116.70798	171.42781	0.06192
METEOSAT-7	99	137	17/05/1999	42166.94786	0.00010532	0.59612	300.42632	350.95910	302.89769	0.02971
METEOSAT-7	99	144	24/05/1999	42165.09052	0.00005252	0.57617	301.10261	77.17246	222.92855	0.05079
METEOSAT-7	99	151	31/05/1999	42166.31764	0.00001791	0.56905	302.34311	22.56282	283.25580	0.10947
METEOSAT-7	99	158	07/06/1999	42164.02457	0.00005424	0.54895	303.12071	155.05874	156.97641	0.20405
METEOSAT-7	99	165	14/06/1999	42165.74915	0.00008944	0.53745	304.58605	326.21576	351.35817	0.30858
METEOSAT-7	99	172	21/06/1999	42163.36594	0.00003602	0.51481	305.10453	120.75732	203.34634	0.45711
METEOSAT-7	99	179	28/06/1999	42164.81867	0.00003039	0.50347	306.51049	250.84671	78.94106	0.64748
METEOSAT-7	99	186	05/07/1999	42162.66608	0.00006150	0.48125	306.92557	192.49811	143.99880	0.87195

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	99	193	12/07/1999	42170.01697	0.00009095	0.46722	308.39692	32.12341	309.59580	0.66589
METEOSAT-7	99	200	19/07/1999	42167.99025	0.00013311	0.44454	308.45523	92.05116	256.25383	0.41026
METEOSAT-7	99	207	26/07/1999	42168.88755	0.00006477	0.43176	309.74308	89.26369	264.44479	0.20191
METEOSAT-7	99	214	02/08/1999	42167.61946	0.00007846	0.41104	309.56926	107.02447	253.57815	0.02251
METEOSAT-7	99	221	09/08/1999	42168.17015	0.00007734	0.39709	310.98583	0.91277	5.01827	359.86780
METEOSAT-7	99	228	16/08/1999	42167.10741	0.00008823	0.37879	310.47157	81.22882	291.98373	359.73538
METEOSAT-7	99	235	23/08/1999	42166.94773	0.00001425	0.36761	311.65214	59.93438	318.91226	359.65047
METEOSAT-7	99	242	30/08/1999	42167.02756	0.00003134	0.35193	311.08226	53.70886	332.54765	359.59082
METEOSAT-7	99	249	06/09/1999	42166.28940	0.00010879	0.34051	312.70881	333.82793	57.67151	359.56079
METEOSAT-7	99	256	13/09/1999	42166.36596	0.00006979	0.32899	312.09083	40.53037	358.47322	359.54738
METEOSAT-7	99	263	20/09/1999	42165.09167	0.00005034	0.32105	313.73805	312.51871	91.77180	359.58200
METEOSAT-7	99	270	27/09/1999	42166.47570	0.00008042	0.31146	313.41717	351.45771	60.11275	359.64161
METEOSAT-7	99	277	04/10/1999	42164.43142	0.00016329	0.30221	315.94114	325.58806	90.45044	359.73413
METEOSAT-7	99	284	11/10/1999	42165.40620	0.00010582	0.29686	316.08501	5.94867	56.95560	359.84426
METEOSAT-7	99	291	18/10/1999	42163.49053	0.00010770	0.29096	318.83967	314.89860	112.30844	0.00224
METEOSAT-7	99	298	25/10/1999	42165.43832	0.00015610	0.28506	319.65507	341.63931	91.83659	0.18701
METEOSAT-7	99	305	01/11/1999	42162.64544	0.00022497	0.27640	323.63182	321.72547	114.89298	0.40685
METEOSAT-7	99	312	08/11/1999	42164.01225	0.00016494	0.27346	325.14642	349.55198	92.69443	0.64991
METEOSAT-7	99	319	15/11/1999	42167.93479	0.00008375	0.26777	329.32610	259.87035	184.94429	0.49831
METEOSAT-7	99	326	22/11/1999	42169.27884	0.00010742	0.26283	331.51397	314.44891	134.88436	0.30534
METEOSAT-7	99	333	29/11/1999	42166.82304	0.00016506	0.25364	337.05371	296.17591	154.35579	0.14399
METEOSAT-7	99	340	06/12/1999	42168.03291	0.00008796	0.25107	339.82217	335.89810	118.63043	0.00981
METEOSAT-7	99	347	13/12/1999	42166.83514	0.00009047	0.24457	345.22637	284.35671	171.57477	359.91741
METEOSAT-7	99	354	20/12/1999	42166.97106	0.00016814	0.23978	348.45849	313.58201	145.94969	359.85028
METEOSAT-7	99	361	27/12/1999	42165.76468	0.00018260	0.23145	355.21628	297.05251	162.58656	359.81589
METEOSAT-7	00	3	03/01/2000	42166.20736	0.00013830	0.22926	358.67795	330.69824	132.37391	359.81110
METEOSAT-7	00	10	10/01/2000	42165.94270	0.00010075	0.22343	4.77321	298.25524	165.65299	359.84295
METEOSAT-7	00	17	17/01/2000	42164.78430	0.00021172	0.22010	8.28265	307.63155	159.72017	359.89636
METEOSAT-7	00	24	24/01/2000	42165.18615	0.00018081	0.21456	15.35961	296.93161	170.33112	359.98476
METEOSAT-7	00	31	31/01/2000	42164.33755	0.00017989	0.21437	18.50055	325.24714	145.89433	0.10494
METEOSAT-7	00	38	07/02/2000	42165.01402	0.00011171	0.21113	24.33688	308.72994	163.62862	0.25881
METEOSAT-7	00	45	14/02/2000	42162.98152	0.00023440	0.21130	27.05552	303.63051	173.08218	0.43209

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	00	52	21/02/2000	42164.62069	0.00017143	0.20983	33.11350	302.42853	175.34057	0.64694
METEOSAT-7	00	59	28/02/2000	42167.74212	0.00011154	0.21339	34.91199	296.05651	186.66106	0.49443
METEOSAT-7	00	66	06/03/2000	42169.01649	0.00004982	0.21266	39.38611	246.04204	238.91578	0.30928
METEOSAT-7	00	73	13/03/2000	42166.74095	0.00016146	0.21820	40.56591	277.17026	213.33848	0.14048
METEOSAT-7	00	80	20/03/2000	42168.70414	0.00007785	0.22069	44.77475	274.09702	218.98074	0.01881
METEOSAT-7	00	87	27/03/2000	42166.27538	0.00010837	0.22945	45.11710	314.03558	185.50996	359.92939
METEOSAT-7	00	94	03/04/2000	42167.46072	0.00002108	0.23410	48.11247	323.89359	179.49962	359.87295
METEOSAT-7	00	101	10/04/2000	42165.57453	0.00013144	0.24669	48.29042	287.67127	222.40057	359.82995
METEOSAT-7	00	108	17/04/2000	42166.98717	0.00005905	0.25350	51.05056	322.56767	191.65011	359.83651
METEOSAT-7	00	115	24/04/2000	42165.13921	0.00010177	0.26857	50.89493	336.03201	185.28166	359.87723
METEOSAT-7	00	122	01/05/2000	42165.52313	0.00005622	0.27755	53.12548	26.50928	139.54681	359.95060
METEOSAT-7	00	129	08/05/2000	42164.61294	0.00009680	0.29723	53.39547	300.63028	232.14136	0.03655
METEOSAT-7	00	136	15/05/2000	42164.84957	0.00008089	0.30735	55.59204	7.25688	170.35374	0.17251
METEOSAT-7	00	143	22/05/2000	42164.19954	0.00009161	0.32752	55.86594	358.71862	185.69068	0.34544
METEOSAT-7	00	150	29/05/2000	42163.36101	0.00009294	0.33880	58.00346	42.21658	147.16060	0.55122
METEOSAT-7	00	157	05/06/2000	42168.81837	0.00017177	0.36272	58.82410	284.18620	271.10104	0.38230
METEOSAT-7	00	164	12/06/2000	42167.74437	0.00011727	0.37396	60.90681	324.42197	235.49173	0.19184
METEOSAT-7	00	171	19/06/2000	42168.32394	0.00011674	0.39579	61.78090	308.87925	256.91112	0.04288
METEOSAT-7	00	178	26/06/2000	42166.49871	0.00006716	0.40621	63.82506	335.85168	234.67518	359.92390
METEOSAT-7	00	185	03/07/2000	42167.90249	0.00013628	0.43052	65.00482	271.62902	304.51646	359.82261
METEOSAT-7	00	192	10/07/2000	42166.92999	0.00014761	0.66460	296.07503	103.22625	248.60447	359.67985
METEOSAT-7	00	199	17/07/2000	42168.30119	0.00013014	0.64397	296.74259	81.55755	276.38887	359.56320
METEOSAT-7	00	206	24/07/2000	42166.05308	0.00008940	0.62733	296.16872	105.58719	259.74148	359.47156
METEOSAT-7	00	213	31/07/2000	42167.82885	0.00014666	0.60419	296.82225	46.44071	325.06497	359.40232
METEOSAT-7	00	220	07/08/2000	42165.52160	0.00010599	0.58966	296.18063	108.17573	270.82324	359.35410
METEOSAT-7	00	227	14/08/2000	42166.96525	0.00008788	0.57003	296.49780	68.73848	316.84694	359.35803
METEOSAT-7	00	234	21/08/2000	42165.02979	0.00004706	0.55891	295.69289	82.58737	310.72715	359.38258
METEOSAT-7	00	241	28/08/2000	42166.33579	0.00013802	0.53801	296.10648	28.84538	11.00834	359.43580
METEOSAT-7	00	248	04/09/2000	42164.52765	0.00006627	0.52949	295.52713	93.71795	313.68006	359.50127
METEOSAT-7	00	255	11/09/2000	42165.24499	0.00007411	0.51291	295.74589	32.88900	21.31266	359.62425
METEOSAT-7	00	262	18/09/2000	42164.31764	0.00006330	0.50768	295.26167	24.85580	36.87116	359.76595
METEOSAT-7	00	269	25/09/2000	42164.46565	0.00015989	0.48924	295.79289	13.98773	54.28478	359.94344

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	00	276	02/10/2000	42163.71873	0.00006764	0.48529	295.86850	51.96879	23.31413	0.13014
METEOSAT-7	00	283	09/10/2000	42163.19425	0.00010739	0.47013	296.44458	5.62859	76.22563	0.37823
METEOSAT-7	00	290	16/10/2000	42163.63894	0.00011965	0.46703	296.83408	14.16917	74.46313	0.64645
METEOSAT-7	00	297	23/10/2000	42168.14339	0.00006760	0.44847	297.82460	7.67753	86.73212	0.51497
METEOSAT-7	00	304	30/10/2000	42168.52281	0.00005963	0.44457	298.90182	129.92429	330.11084	0.31834
METEOSAT-7	00	311	06/11/2000	42166.95867	0.00002965	0.42770	300.02594	333.57433	132.09865	0.18085
METEOSAT-7	00	318	13/11/2000	42168.47576	0.00005470	0.42229	301.41781	41.28208	69.78219	0.06462
METEOSAT-7	00	325	20/11/2000	42166.17020	0.00012113	0.40016	302.83189	6.94116	109.53087	359.98697
METEOSAT-7	00	332	27/11/2000	42167.34102	0.00007208	0.39278	304.83591	74.95561	46.35206	359.92714
METEOSAT-7	00	339	04/12/2000	42165.36213	0.00007740	0.37223	306.30548	359.79641	126.93245	359.91830
METEOSAT-7	00	346	11/12/2000	42167.13946	0.00011833	0.36269	308.44315	32.84758	98.65684	359.93202
METEOSAT-7	00	353	18/12/2000	42164.44649	0.00016882	0.33678	310.03458	11.41982	125.44081	359.98003
METEOSAT-7	00	360	25/12/2000	42165.90223	0.00012259	0.32589	312.61135	55.25502	86.00210	0.05373
METEOSAT-7	01	1	01/01/2001	42164.19189	0.00011771	0.30255	314.01062	13.71883	133.15381	0.16893
METEOSAT-7	01	8	08/01/2001	42165.19635	0.00017975	0.29062	316.56957	30.87270	120.48148	0.30982
METEOSAT-7	01	15	15/01/2001	42163.12272	0.00020375	0.26380	317.95852	18.53327	138.50337	0.48161
METEOSAT-7	01	22	22/01/2001	42164.20520	0.00017927	0.25190	320.93421	50.98936	110.17722	0.68763
METEOSAT-7	01	29	29/01/2001	42163.25865	0.00015063	0.22985	321.82258	26.71674	140.70095	0.92755
METEOSAT-7	01	36	05/02/2001	42168.64894	0.00013241	0.21948	324.79584	2.55431	168.61956	0.75738
METEOSAT-7	01	43	12/02/2001	42167.99795	0.00012971	0.19646	325.81908	355.49818	181.33826	0.54362
METEOSAT-7	01	50	19/02/2001	42168.06522	0.00010023	0.18773	329.49933	45.09406	134.78820	0.37017
METEOSAT-7	01	57	26/02/2001	42168.05180	0.00006530	0.17098	329.92836	359.30507	186.90037	0.22282
METEOSAT-7	01	64	05/03/2001	42166.62026	0.00014958	0.16573	333.98895	20.02370	168.90532	0.10741
METEOSAT-7	01	71	12/03/2001	42167.47517	0.00010771	0.15014	335.27012	23.19893	171.26224	0.02124
METEOSAT-7	01	78	19/03/2001	42166.20967	0.00014792	0.14756	340.66870	55.87034	140.04764	359.97705
METEOSAT-7	01	85	26/03/2001	42167.02604	0.00006842	0.13794	341.88337	43.11593	158.46418	359.95434
METEOSAT-7	01	92	02/04/2001	42164.91346	0.00016493	0.13973	348.26463	29.81001	172.29932	359.96530
METEOSAT-7	01	99	09/04/2001	42166.73102	0.00011549	0.13253	351.16843	48.73830	157.40874	0.00727
METEOSAT-7	01	106	16/04/2001	42164.44506	0.00019064	0.13753	358.53711	54.54930	151.21382	0.09249
METEOSAT-7	01	113	23/04/2001	42165.67301	0.00010086	0.13503	1.51216	61.34161	148.45210	0.19860
METEOSAT-7	01	120	30/04/2001	42163.45575	0.00017911	0.14478	9.38725	30.90134	178.05778	0.33952
METEOSAT-7	01	127	07/05/2001	42165.27187	0.00015301	0.14570	13.44900	55.87944	156.09206	0.51411

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	01	134	14/05/2001	42162.90771	0.00022030	0.15814	20.69490	47.02174	164.82254	0.73324
METEOSAT-7	01	141	21/05/2001	42169.18801	0.00005434	0.16154	24.37613	356.08099	218.81314	0.56480
METEOSAT-7	01	148	28/05/2001	42167.53716	0.00014049	0.17818	31.40670	344.80766	229.75398	0.36336
METEOSAT-7	01	155	04/06/2001	42168.58601	0.00008647	0.18506	35.10142	21.21988	196.37803	0.19475
METEOSAT-7	01	162	11/06/2001	42167.05726	0.00013024	0.20183	40.79628	14.07533	204.60448	0.07199
METEOSAT-7	01	169	18/06/2001	42167.16165	0.00004860	0.20856	43.95155	36.93538	185.38826	359.97151
METEOSAT-7	01	176	25/06/2001	42166.59812	0.00010410	0.22865	49.49495	341.64787	241.96003	359.89960
METEOSAT-7	01	183	02/07/2001	42166.50519	0.00009547	0.23730	52.19507	39.35011	188.41539	359.85780
METEOSAT-7	01	190	09/07/2001	42166.22701	0.00010284	0.25452	56.66037	17.92649	212.27563	359.86013
METEOSAT-7	01	197	16/07/2001	42165.18804	0.00006423	0.26158	58.98084	66.95298	167.85401	359.88592
METEOSAT-7	01	204	23/07/2001	42165.87806	0.00006397	0.28166	63.27038	336.07536	261.39346	359.93773
METEOSAT-7	01	211	30/07/2001	42164.55934	0.00010401	0.29112	65.01601	54.22582	188.47488	0.01573
METEOSAT-7	01	218	06/08/2001	42164.88440	0.00005694	0.37950	299.36476	162.84846	212.56947	0.18220
METEOSAT-7	01	225	13/08/2001	42162.91069	0.00007683	0.36949	299.11527	226.94148	155.82481	0.38140
METEOSAT-7	01	232	20/08/2001	42164.47751	0.00002123	0.34385	299.16764	46.95321	342.88741	0.60855
METEOSAT-7	01	239	27/08/2001	42162.28740	0.00010014	0.33435	299.49432	210.77672	185.88660	0.85841
METEOSAT-7	01	246	03/09/2001	42169.87163	0.00011318	0.31511	298.98003	13.71044	30.28098	0.77268
METEOSAT-7	01	253	10/09/2001	42167.63542	0.00011694	0.30991	299.18331	342.15299	68.31530	0.55332
METEOSAT-7	01	260	17/09/2001	42169.25245	0.00018221	0.28901	299.06125	11.92144	45.37933	0.36429
METEOSAT-7	01	267	24/09/2001	42167.00048	0.00008401	0.28299	300.43087	340.65957	82.00037	0.19359
METEOSAT-7	01	274	01/10/2001	42168.27987	0.00015042	0.26812	300.21063	357.32631	72.33979	0.08007
METEOSAT-7	01	281	08/10/2001	42166.55471	0.00016049	0.26538	301.95081	340.03497	94.69975	359.98937
METEOSAT-7	01	288	15/10/2001	42167.46449	0.00021507	0.24743	302.59219	1.65352	79.27981	359.92990
METEOSAT-7	01	295	22/10/2001	42165.90499	0.00012604	0.24219	305.95957	339.32873	105.09418	359.88741
METEOSAT-7	01	302	29/10/2001	42166.30198	0.00020376	0.22843	306.94062	346.46670	103.88794	359.90071
METEOSAT-7	01	309	05/11/2001	42165.66945	0.00020300	0.22506	310.99564	338.21016	115.02606	359.93780
METEOSAT-7	01	316	12/11/2001	42165.38326	0.00025746	0.20743	313.19754	350.48184	107.52079	0.00657
METEOSAT-7	01	323	19/11/2001	42164.96981	0.00016543	0.20167	319.18969	337.21455	121.78530	0.09644
METEOSAT-7	01	330	26/11/2001	42164.13976	0.00025755	0.18711	322.01294	334.20228	129.01455	0.23715
METEOSAT-7	01	337	03/12/2001	42164.81662	0.00023544	0.18422	328.98344	330.54396	132.77033	0.40558
METEOSAT-7	01	344	10/12/2001	42163.24019	0.00029529	0.16705	333.55924	335.03306	130.80434	0.60492
METEOSAT-7	01	351	17/12/2001	42163.94875	0.00019690	0.16366	342.43288	327.31738	136.77450	0.83354

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	01	358	24/12/2001	42167.82824	0.00019639	0.15034	347.72345	294.36553	171.17174	0.66992
METEOSAT-7	01	365	31/12/2001	42169.42004	0.00014559	0.15095	357.22325	292.41737	170.31731	0.46759
METEOSAT-7	02	7	07/01/2002	42166.97233	0.00019710	0.13833	4.70816	300.55458	161.41920	0.29207
METEOSAT-7	02	14	14/01/2002	42168.35359	0.00009352	0.14250	15.01327	292.19397	166.23475	0.15258
METEOSAT-7	02	21	21/01/2002	42166.42239	0.00019394	0.13463	21.98949	276.46322	181.77847	0.04227
METEOSAT-7	02	28	28/01/2002	42168.03363	0.00014278	0.14378	30.91546	284.39875	171.74307	359.96883
METEOSAT-7	02	35	04/02/2002	42165.48294	0.00019352	0.13936	38.45386	286.01111	169.43861	359.91560
METEOSAT-7	02	42	11/02/2002	42166.94725	0.00010279	0.15114	45.95238	298.85688	155.98301	359.90476
METEOSAT-7	02	49	18/02/2002	42165.44046	0.00017198	0.14869	50.97769	266.98252	189.73966	359.91283
METEOSAT-7	02	56	25/02/2002	42166.14643	0.00015062	0.16342	56.05052	287.73323	170.86701	359.96421
METEOSAT-7	02	63	04/03/2002	42164.43318	0.00018003	0.16453	60.19007	287.15074	174.27709	0.03183
METEOSAT-7	02	70	11/03/2002	42165.28431	0.00012919	0.17964	64.02024	313.65197	150.96144	0.14803
METEOSAT-7	02	77	18/03/2002	42164.57781	0.00014393	0.18016	65.75000	276.15891	193.75447	0.27829
METEOSAT-7	02	84	25/03/2002	42163.94013	0.00016875	0.19730	67.85494	301.98330	172.90430	0.45792
METEOSAT-7	02	91	01/04/2002	42163.71958	0.00016325	0.20230	68.87352	303.98690	176.97806	0.65439
METEOSAT-7	02	98	08/04/2002	42163.33479	0.00016599	0.22017	70.74468	331.11967	155.12303	0.90376
METEOSAT-7	02	105	15/04/2002	42169.25078	0.00014582	0.22515	70.38955	241.11551	252.20550	0.72744
METEOSAT-7	02	112	22/04/2002	42167.51805	0.00013839	0.24588	71.58264	276.69932	222.13193	0.53128
METEOSAT-7	02	119	29/04/2002	42168.66700	0.00009827	0.25634	71.08216	270.88162	235.17174	0.35338
METEOSAT-7	02	126	06/05/2002	42167.04870	0.00008694	0.27760	72.58890	318.21144	193.10870	0.22739
METEOSAT-7	02	133	13/05/2002	42167.98022	0.00007928	0.28853	71.80538	247.24596	271.64623	0.11635
METEOSAT-7	02	140	20/05/2002	42165.74133	0.00010584	0.31265	73.27581	306.44787	217.81050	0.05344
METEOSAT-7	02	147	27/05/2002	42167.57495	0.00004255	0.32871	72.78043	310.61891	220.99167	0.01061
METEOSAT-7	02	154	03/06/2002	42165.25568	0.00009314	0.35159	74.58098	356.61342	180.10079	0.01522
METEOSAT-7	02	161	10/06/2002	42166.48552	0.00001995	0.36689	74.22517	227.21147	316.78134	0.03833
METEOSAT-7	02	168	17/06/2002	42164.36009	0.00008625	0.39150	76.15183	339.79478	209.23425	0.10153
METEOSAT-7	02	175	24/06/2002	42166.46742	0.00005937	0.42121	296.74707	172.67075	162.71041	0.15015
METEOSAT-7	02	182	01/07/2002	42164.35028	0.00011471	0.39496	296.85267	165.08537	177.17890	0.23914
METEOSAT-7	02	189	08/07/2002	42165.17558	0.00004605	0.38162	298.09889	230.33738	117.69344	0.35225
METEOSAT-7	02	196	15/07/2002	42163.82279	0.00008823	0.35345	298.01097	155.66105	199.50200	0.49685
METEOSAT-7	02	203	22/07/2002	42164.51999	0.00009530	0.33738	299.56715	202.95339	157.72865	0.67241
METEOSAT-7	02	210	29/07/2002	42168.36347	0.00003032	0.31346	298.79591	284.57319	83.67945	0.57214

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	02	217	05/08/2002	42168.18007	0.00012151	0.30074	300.00090	306.12918	67.61976	0.37384
METEOSAT-7	02	224	12/08/2002	42168.00607	0.00004287	0.27585	298.93631	334.30693	47.22962	0.19725
METEOSAT-7	02	231	19/08/2002	42167.52942	0.00010328	0.26122	300.74340	284.24923	102.23915	0.05663
METEOSAT-7	02	238	26/08/2002	42167.63417	0.00008517	0.24350	299.09012	295.70686	99.23191	359.95421
METEOSAT-7	02	245	02/09/2002	42166.33377	0.00016821	0.23355	300.77066	298.76808	101.31875	359.88332
METEOSAT-7	02	252	09/09/2002	42167.30791	0.00008396	0.21487	299.19095	319.78636	88.72292	359.82651
METEOSAT-7	02	259	16/09/2002	42165.69776	0.00015008	0.20237	302.13030	286.64824	125.80357	359.80894
METEOSAT-7	02	266	23/09/2002	42166.79981	0.00013548	0.19124	300.64314	306.30667	114.55119	359.82833
METEOSAT-7	02	273	30/09/2002	42164.71265	0.00020970	0.18363	304.13783	298.50974	125.80638	359.88173
METEOSAT-7	02	280	07/10/2002	42166.31722	0.00012458	0.16992	303.62152	320.03349	111.76431	359.94761
METEOSAT-7	02	287	14/10/2002	42164.02076	0.00018526	0.15854	309.48761	287.80999	145.12833	0.05474
METEOSAT-7	02	294	21/10/2002	42165.48391	0.00018127	0.15109	310.03229	307.91184	131.52664	0.20003
METEOSAT-7	02	301	28/10/2002	42163.33385	0.00024010	0.14484	317.23159	293.29813	146.02240	0.38185
METEOSAT-7	02	308	04/11/2002	42164.71325	0.00016519	0.13391	319.88801	311.96403	131.79742	0.57969
METEOSAT-7	02	315	11/11/2002	42162.55961	0.00020674	0.12596	330.87942	277.82536	162.08420	0.81966
METEOSAT-7	02	322	18/11/2002	42169.34220	0.00010356	0.12100	335.12041	268.17417	174.22835	0.65408
METEOSAT-7	02	329	25/11/2002	42167.90047	0.00014567	0.12045	347.17359	248.18420	188.86638	0.45577
METEOSAT-7	02	336	02/12/2002	42168.40608	0.00006223	0.11502	354.32477	273.57257	163.04608	0.27551
METEOSAT-7	02	343	09/12/2002	42167.16915	0.00010526	0.11907	9.10149	216.56290	212.03908	0.13600
METEOSAT-7	02	350	16/12/2002	42167.23857	0.00011772	0.12023	15.76960	254.34394	174.38418	0.03075
METEOSAT-7	02	357	23/12/2002	42166.98133	0.00012090	0.13183	27.65242	225.82342	197.85489	359.96422
METEOSAT-7	02	364	30/12/2002	42166.33354	0.00007618	0.13550	34.76901	268.27721	155.13500	359.91517
METEOSAT-7	03	6	06/01/2003	42166.30353	0.00006364	0.15167	45.32533	200.72770	219.01813	359.90553
METEOSAT-7	03	13	13/01/2003	42165.26659	0.00012451	0.15787	49.96011	244.71362	177.31482	359.92341
METEOSAT-7	03	20	20/01/2003	42166.26235	0.00008072	0.17614	57.27849	220.35906	201.30912	359.98195
METEOSAT-7	03	27	27/01/2003	42164.45160	0.00009187	0.18386	61.25988	277.21028	147.45196	0.05786
METEOSAT-7	03	34	03/02/2003	42165.41972	0.00002010	0.20228	67.29663	247.93449	177.70683	0.17418
METEOSAT-7	03	41	10/02/2003	42163.65145	0.00011927	0.20853	69.44162	252.42158	178.11300	0.31292
METEOSAT-7	03	48	17/02/2003	42165.36268	0.00004700	0.22684	73.68549	265.24758	168.12708	0.49733
METEOSAT-7	03	55	24/02/2003	42162.79156	0.00011800	0.23460	75.15440	296.94749	142.05939	0.69893
METEOSAT-7	03	62	03/03/2003	42169.89889	0.00007707	0.25080	78.61412	179.14887	263.10748	0.50861
METEOSAT-7	03	69	10/03/2003	42168.07144	0.00014383	0.25610	78.71979	214.46282	234.34177	0.26304

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	03	76	17/03/2003	42169.51658	0.00006332	0.27292	81.06535	196.04747	257.11495	0.06699
METEOSAT-7	03	83	24/03/2003	42167.07985	0.00007037	0.28192	80.46275	256.57190	203.91248	359.88687
METEOSAT-7	03	90	31/03/2003	42168.35782	0.00001657	0.29653	82.32409	129.51614	335.86947	359.74998
METEOSAT-7	03	97	07/04/2003	42167.03906	0.00007710	0.30432	80.99866	224.71155	248.78164	359.63274
METEOSAT-7	03	104	14/04/2003	42167.41689	0.00002092	0.32146	82.30953	344.89090	134.12226	359.56410
METEOSAT-7	03	111	21/04/2003	42166.01633	0.00005693	0.33596	80.78622	324.24628	163.13590	359.51036
METEOSAT-7	03	118	28/04/2003	42166.57576	0.00006727	0.35187	81.92875	39.33261	93.79525	359.49914
METEOSAT-7	03	125	05/05/2003	42166.07943	0.00000792	0.36619	80.32149	276.98143	224.66382	359.50973
METEOSAT-7	03	132	12/05/2003	42165.12568	0.00009862	0.38530	81.42747	18.25832	129.23565	359.56493
METEOSAT-7	03	139	19/05/2003	42165.23697	0.00008831	0.40700	80.09231	15.63766	140.16383	359.63773
METEOSAT-7	03	146	26/05/2003	42165.00340	0.00014379	0.46992	290.69619	191.58153	120.60229	359.72481
METEOSAT-7	03	153	02/06/2003	42165.42398	0.00006794	0.45617	292.61040	199.51440	117.75984	359.82983
METEOSAT-7	03	160	09/06/2003	42163.48684	0.00017389	0.43318	292.58512	179.91267	144.42919	359.97251
METEOSAT-7	03	167	16/06/2003	42164.88540	0.00013784	0.41352	294.87131	186.54261	142.57958	0.13938
METEOSAT-7	03	174	23/06/2003	42163.07015	0.00019706	0.39196	294.58779	197.61394	138.89603	0.34396
METEOSAT-7	03	181	30/06/2003	42164.16792	0.00012182	0.37375	296.67863	213.19918	128.35730	0.58164
METEOSAT-7	03	188	07/07/2003	42161.91885	0.00021802	0.35078	296.11814	189.79592	159.48640	0.84729
METEOSAT-7	03	195	14/07/2003	42169.79049	0.00007526	0.32815	298.47146	146.88755	206.77695	0.68317
METEOSAT-7	03	202	21/07/2003	42167.46149	0.00011088	0.30855	297.52791	178.32495	182.97584	0.47625
METEOSAT-7	03	209	28/07/2003	42168.68418	0.00002510	0.28888	299.56479	217.83522	148.16069	0.30869
METEOSAT-7	03	216	04/08/2003	42166.81736	0.00012969	0.26958	298.19855	171.79468	202.31451	0.15609
METEOSAT-7	03	223	11/08/2003	42168.24656	0.00006580	0.24709	300.51660	194.32982	184.25306	0.04832
METEOSAT-7	03	230	18/08/2003	42166.33591	0.00010318	0.23321	298.90722	207.64395	179.36616	359.96658
METEOSAT-7	03	237	25/08/2003	42166.99182	0.00007428	0.21517	301.05885	262.20145	129.51747	359.92754
METEOSAT-7	03	244	01/09/2003	42166.01287	0.00010976	0.20221	299.32525	195.64767	204.66899	359.89211
METEOSAT-7	03	251	08/09/2003	42166.40787	0.00008402	0.18196	302.07749	237.80473	166.67769	359.91061
METEOSAT-7	03	258	15/09/2003	42165.56389	0.00009538	0.17496	300.88729	239.82830	172.78477	359.95158
METEOSAT-7	03	265	22/09/2003	42165.10170	0.00012265	0.15970	304.28141	276.05241	140.15278	0.03828
METEOSAT-7	03	272	29/09/2003	42165.28071	0.00008696	0.15243	304.02770	216.51575	206.92786	0.12348
METEOSAT-7	03	279	06/10/2003	42164.37163	0.00011293	0.13453	309.07878	258.85990	166.57809	0.26946
METEOSAT-7	03	286	13/10/2003	42164.74502	0.00009611	0.13240	310.64950	264.16653	166.76935	0.43852
METEOSAT-7	03	293	20/10/2003	42163.13741	0.00015992	0.11992	317.85685	276.37834	154.46693	0.65578

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	03	300	27/10/2003	42164.31989	0.00006344	0.11677	321.79814	232.45992	201.56168	0.87383
METEOSAT-7	03	307	03/11/2003	42168.50360	0.00012594	0.10350	332.89069	190.45033	239.18110	0.67668
METEOSAT-7	03	314	10/11/2003	42169.70702	0.00008775	0.10651	338.91002	170.74293	259.52032	0.42834
METEOSAT-7	03	321	17/11/2003	42167.56162	0.00009991	0.10219	352.11613	202.90802	220.84704	0.22668
METEOSAT-7	03	328	24/11/2003	42169.14825	0.00010984	0.10726	359.92931	120.00892	302.63578	0.02996
METEOSAT-7	03	335	01/12/2003	42166.76926	0.00008531	0.10814	15.59612	165.13573	248.59842	359.88673
METEOSAT-7	03	342	08/12/2003	42168.16590	0.00003584	0.11989	21.53306	125.47214	289.11009	359.77216
METEOSAT-7	03	349	15/12/2003	42166.22347	0.00006225	0.12907	33.50700	183.46697	225.96765	359.69896
METEOSAT-7	03	356	22/12/2003	42167.48011	0.00008171	0.14192	39.23735	55.48233	355.05757	359.63504
METEOSAT-7	03	363	29/12/2003	42165.53050	0.00003925	0.15553	50.00930	140.69031	265.95397	359.61182
METEOSAT-7	04	5	05/01/2004	42166.41957	0.00002724	0.17171	52.85308	346.99771	63.71150	359.62098
METEOSAT-7	04	12	12/01/2004	42165.33168	0.00001520	0.18651	60.30477	206.95536	203.24741	359.66671
METEOSAT-7	04	19	19/01/2004	42165.58998	0.00010097	0.20293	62.51713	2.83383	52.11930	359.72988
METEOSAT-7	04	26	26/01/2004	42164.71010	0.00002074	0.21848	69.01313	11.30642	44.14443	359.82401
METEOSAT-7	04	33	02/02/2004	42164.53225	0.00007968	0.23384	70.11403	321.00531	100.37453	359.95436
METEOSAT-7	04	40	09/02/2004	42164.72029	0.00005151	0.24725	74.84981	334.33434	89.37408	0.11921
METEOSAT-7	04	47	16/02/2004	42163.67713	0.00015431	0.26284	75.40935	342.20466	88.03349	0.30898
METEOSAT-7	04	54	23/02/2004	42163.98283	0.00007968	0.27481	79.23374	349.59873	83.92932	0.52370
METEOSAT-7	04	61	01/03/2004	42162.67478	0.00013405	0.28827	79.07023	323.05147	117.79585	0.78001
METEOSAT-7	04	68	08/03/2004	42170.26297	0.00002799	0.29881	81.86547	181.58980	263.17485	0.59309
METEOSAT-7	04	75	15/03/2004	42168.07177	0.00007276	0.31440	81.14024	321.00272	131.14685	0.35339
METEOSAT-7	04	82	22/03/2004	42169.18292	0.00001448	0.32337	83.12510	110.49573	346.35173	0.13664
METEOSAT-7	04	89	29/03/2004	42167.32138	0.00005687	0.33798	81.99956	288.37976	176.31957	359.96361
METEOSAT-7	04	96	05/04/2004	42169.06707	0.00005171	0.34746	83.35690	22.17628	87.92446	359.82290
METEOSAT-7	04	103	12/04/2004	42166.41925	0.00012417	0.36750	82.04124	346.18180	132.02380	359.71271
METEOSAT-7	04	110	19/04/2004	42167.80970	0.00006610	0.37678	82.74253	35.12870	89.18624	359.62390
METEOSAT-7	04	117	26/04/2004	42166.04237	0.00007667	0.39649	81.45315	345.64154	146.81815	359.57988
METEOSAT-7	04	124	03/05/2004	42167.19609	0.00013466	0.40812	82.12573	26.35988	112.31183	359.56495
METEOSAT-7	04	131	10/05/2004	42165.00385	0.00017363	0.43503	81.09928	5.39456	141.21818	359.58002
METEOSAT-7	04	138	17/05/2004	42166.12544	0.00012922	0.44737	81.40698	40.34161	112.90095	359.61797
METEOSAT-7	04	145	24/05/2004	42164.98254	0.00011388	0.47254	80.71564	19.10521	141.81202	359.70169
METEOSAT-7	04	152	31/05/2004	42164.86785	0.00020796	0.48676	81.31686	33.84124	133.48248	359.80971

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	04	159	07/06/2004	42163.95478	0.00020533	0.51833	81.05986	21.28640	153.33437	359.95000
METEOSAT-7	04	166	14/06/2004	42164.22687	0.00018238	0.53272	81.47270	49.49010	131.78339	0.11572
METEOSAT-7	04	173	21/06/2004	42163.99646	0.00014541	0.56015	81.51919	40.84280	147.49640	0.32809
METEOSAT-7	04	180	28/06/2004	42162.64719	0.00025963	0.57420	82.23572	42.26879	152.48529	0.55964
METEOSAT-7	04	187	05/07/2004	42168.81347	0.00012916	0.60613	82.62907	0.49343	200.67979	0.47223
METEOSAT-7	04	194	12/07/2004	42167.84833	0.00009578	0.61927	83.13580	44.77409	162.59117	0.27118
METEOSAT-7	04	201	19/07/2004	42168.48883	0.00004637	0.64566	83.69778	23.17069	190.37727	0.11602
METEOSAT-7	04	208	26/07/2004	42166.51401	0.00016297	0.65605	84.30420	38.14940	181.54912	359.97331
METEOSAT-7	04	215	02/08/2004	42168.18428	0.00009038	0.68444	85.05746	27.58538	198.16032	359.87398
METEOSAT-7	04	222	09/08/2004	42166.15921	0.00011490	0.69454	85.33298	74.21074	158.08397	359.79900
METEOSAT-7	04	229	16/08/2004	42167.33464	0.00005705	0.71596	86.05174	93.90529	144.53918	359.76803
METEOSAT-7	04	236	23/08/2004	42165.29905	0.00015444	0.72354	86.29213	59.66468	185.41393	359.74331
METEOSAT-7	04	243	30/08/2004	42167.18918	0.00007250	0.74666	87.01997	79.77173	171.50324	359.76823
METEOSAT-7	04	250	06/09/2004	42164.79021	0.00013548	0.75400	86.87846	100.07791	158.28499	359.81565
METEOSAT-7	04	257	13/09/2004	42165.88643	0.00010026	0.77150	87.42968	128.66383	136.13787	359.90664
METEOSAT-7	04	264	20/09/2004	42164.31338	0.00014251	0.77825	87.11738	83.55158	188.55679	0.00216
METEOSAT-7	04	271	27/09/2004	42165.48772	0.00010496	0.79785	87.61731	124.06217	154.59547	0.15243
METEOSAT-7	04	278	04/10/2004	42163.69441	0.00015161	0.80602	86.96737	122.75211	163.62845	0.32659
METEOSAT-7	04	285	11/10/2004	42163.99675	0.00014725	0.82284	87.24989	147.70711	145.50828	0.54500
METEOSAT-7	04	292	18/10/2004	42163.31177	0.00012932	0.83306	86.26531	109.62475	191.70360	0.77443
METEOSAT-7	04	299	25/10/2004	42169.41754	0.00008123	0.85254	86.56744	79.85238	227.88016	0.58161
METEOSAT-7	04	306	01/11/2004	42168.85553	0.00009738	0.86661	85.64981	81.96518	233.34166	0.33895
METEOSAT-7	04	313	08/11/2004	42168.04561	0.00006411	0.88576	85.84921	121.78142	200.02493	0.13833
METEOSAT-7	04	320	15/11/2004	42168.53191	0.00010622	0.90469	84.96082	54.53448	274.87042	359.94879
METEOSAT-7	04	327	22/11/2004	42167.24295	0.00006322	0.92652	85.30712	133.73434	202.08253	359.80720
METEOSAT-7	04	334	29/11/2004	42167.86046	0.00005111	0.94804	84.54676	106.27009	237.09809	359.69793
METEOSAT-7	04	341	06/12/2004	42166.13481	0.00006392	0.96906	84.93019	170.34681	179.46442	359.62418
METEOSAT-7	04	348	13/12/2004	42167.53537	0.00006003	0.99471	84.32308	36.16948	321.09210	359.56688
METEOSAT-7	04	355	20/12/2004	42165.39766	0.00007087	1.01671	84.88365	184.16817	179.41054	359.54407
METEOSAT-7	04	362	27/12/2004	42166.74122	0.00001571	1.04215	84.52260	186.17696	184.68106	359.56156
METEOSAT-7	05	3	03/01/2005	42164.66156	0.00006824	1.06082	85.13966	213.70167	163.48604	359.60780
METEOSAT-7	05	10	10/01/2005	42166.29003	0.00006230	1.08786	84.88338	343.59936	40.81642	359.67891

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	05	17	17/01/2005	42164.00009	0.00008338	1.10560	85.56492	220.82952	169.89586	359.76975
METEOSAT-7	05	24	24/01/2005	42165.34305	0.00004869	1.12982	85.50160	275.60817	122.22258	359.91157
METEOSAT-7	05	31	31/01/2005	42163.65279	0.00007774	1.14217	86.14790	256.12842	148.12111	0.07684
METEOSAT-7	05	38	07/02/2005	42164.62894	0.00011016	1.16635	86.04669	324.15808	87.29224	0.27676
METEOSAT-7	05	45	14/02/2005	42163.00360	0.00009061	1.17745	86.58344	253.32408	164.69726	0.48540
METEOSAT-7	05	52	21/02/2005	42163.56148	0.00009648	1.19820	86.56831	297.01938	128.18667	0.75611
METEOSAT-7	05	59	28/02/2005	42168.79928	0.00008227	1.20435	86.96260	192.30035	239.24748	0.59363
METEOSAT-7	05	66	07/03/2005	42168.56766	0.00002603	1.22612	86.80563	301.99013	136.41582	0.39643
METEOSAT-7	05	73	14/03/2005	42168.05352	0.00009615	1.23248	86.97958	192.78369	252.15238	0.20239
METEOSAT-7	05	80	21/03/2005	42167.50332	0.00004094	1.25193	86.84345	231.71986	220.12299	0.07515
METEOSAT-7	05	87	28/03/2005	42168.01836	0.00002068	1.25597	86.85471	194.55120	264.06802	359.96486
METEOSAT-7	05	94	04/04/2005	42166.58188	0.00007047	1.27881	86.60149	340.69977	125.00426	359.89855
METEOSAT-7	05	101	11/04/2005	42167.13423	0.00004063	1.28568	86.39171	184.36304	288.38509	359.83476
METEOSAT-7	05	108	18/04/2005	42165.59640	0.00003913	1.30746	86.18150	322.24393	157.61409	359.83620
METEOSAT-7	05	115	25/04/2005	42167.00662	0.00004656	1.3148	85.9005	42.00158	85.05331	359.85339
METEOSAT-7	05	122	02/05/2005	42164.66248	0.00011803	1.34190	85.69929	2.83014	131.38469	359.91315
METEOSAT-7	05	129	09/05/2005	42165.92757	0.00003685	1.35339	85.29503	84.98321	56.60355	359.98122
METEOSAT-7	05	136	16/05/2005	42163.96112	0.00007519	1.37876	85.19264	9.92107	138.79620	0.10936
METEOSAT-7	05	143	23/05/2005	42165.45222	0.00011079	1.39149	84.84543	49.10538	107.00507	0.25469
METEOSAT-7	05	150	30/05/2005	42162.93089	0.00015655	1.42202	84.87489	21.87455	141.29274	0.44009
METEOSAT-7	05	157	06/06/2005	42164.36564	0.00009244	1.43850	84.50230	75.06961	95.57575	0.64408
METEOSAT-7	05	164	13/06/2005	42162.68313	0.00010829	1.46500	84.64187	37.42477	140.23969	0.90108
METEOSAT-7	05	171	20/06/2005	42169.36292	0.00006870	1.48107	84.39492	1.11297	183.51708	0.71788
METEOSAT-7	05	178	27/06/2005	42167.59883	0.00011820	1.51105	84.69255	348.19793	202.81198	0.49364
METEOSAT-7	05	185	04/07/2005	42168.60126	0.00000494	1.52957	84.44230	115.17942	82.78663	0.29771
METEOSAT-7	05	192	11/07/2005	42167.68569	0.00005117	1.55287	84.79931	333.76343	230.59371	0.14440
METEOSAT-7	05	199	18/07/2005	42167.17267	0.00007749	1.56888	84.54924	46.43398	164.94794	0.01794
METEOSAT-7	05	206	25/07/2005	42166.76826	0.00007011	1.59405	85.00516	17.72796	200.00709	359.92624
METEOSAT-7	05	213	01/08/2005	42166.76502	0.00006583	1.61156	84.82102	125.20547	99.55657	359.86901
METEOSAT-7	05	220	08/08/2005	42166.76469	0.00001579	1.62863	85.24706	99.48537	131.72526	359.84415
METEOSAT-7	05	227	15/08/2005	42165.32712	0.00009822	1.64240	85.07254	86.30475	151.97969	359.84468
METEOSAT-7	05	234	22/08/2005	42166.37522	0.00004578	1.66073	85.50984	104.91016	139.86748	359.87691

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METEOSAT-7	05	241	29/08/2005	42165.00906	0.00013237	1.67656	85.27453	137.44718	114.53379	359.94748
METEOSAT-7	05	248	05/09/2005	42165.77907	0.00007620	1.68767	85.59693	152.35343	106.29883	0.04403
METEOSAT-7	05	255	12/09/2005	42163.78780	0.00013069	1.70068	85.29499	117.94054	148.03669	0.17056
METEOSAT-7	05	262	19/09/2005	42165.67671	0.00010726	1.71384	85.56296	156.28455	116.47968	0.32904
METEOSAT-7	05	269	26/09/2005	42163.28778	0.00019344	1.73054	85.19738	148.99584	131.22929	0.52816
METEOSAT-7	05	276	03/10/2005	42164.39711	0.00013821	1.73918	85.32469	166.40591	120.81201	0.75163
METEOSAT-7	05	283	10/10/2005	42168.43562	0.00011443	1.75566	84.87798	84.44766	209.98685	0.62460
METEOSAT-7	05	290	17/10/2005	42170.12721	0.00005234	1.76777	84.93840	138.61370	162.40870	0.37532
METEOSAT-7	05	297	24/10/2005	42167.75913	0.00012710	1.78903	84.50195	134.92132	173.22775	0.16753
METEOSAT-7	05	304	31/10/2005	42168.64156	0.00005493	1.79907	84.53848	160.34466	154.48177	359.98243
METEOSAT-7	05	311	07/11/2005	42167.26110	0.00009010	1.82332	84.09369	119.06958	202.95153	359.83273
METEOSAT-7	05	318	14/11/2005	42168.04901	0.00010461	1.83827	84.03901	180.44169	148.41201	359.71004
METEOSAT-7	05	325	21/11/2005	42166.60167	0.00013616	1.86533	83.71199	160.37915	175.62147	359.62868
METEOSAT-7	05	332	28/11/2005	42166.68318	0.00009918	1.87949	83.67825	194.64913	148.22801	359.56926
METEOSAT-7	05	339	05/12/2005	42166.32773	0.00007756	1.91023	83.41060	158.40687	191.61562	359.54423
METEOSAT-7	05	346	12/12/2005	42165.91691	0.00015264	1.92735	83.38723	199.66992	157.27558	359.54058
METEOSAT-7	05	353	19/12/2005	42165.76309	0.00013641	1.95745	83.28897	183.71315	180.27580	359.58222
METEOSAT-7	05	360	26/12/2005	42164.74492	0.00013768	1.97287	83.31757	214.55447	156.37264	359.64541
METEOSAT-7	06	2	02/01/2006	42165.55145	0.00007149	2.00426	83.30855	197.63095	180.30674	359.74353
METEOSAT-7	06	9	09/01/2006	42164.01801	0.00018174	2.01974	83.34864	215.15555	169.75897	359.85760
METEOSAT-7	06	16	16/01/2006	42164.96799	0.00012763	2.04708	83.46133	206.74194	185.12863	0.02399
METEOSAT-7	06	23	23/01/2006	42163.09042	0.00015476	2.05772	83.54712	231.73430	167.13999	0.21232
METEOSAT-7	06	30	30/01/2006	42164.62937	0.00007397	2.08646	83.65351	238.13895	167.75582	0.43878
METEOSAT-7	06	37	06/02/2006	42162.39744	0.00019176	2.09788	83.66121	230.05406	182.97016	0.67693
METEOSAT-7	06	44	13/02/2006	42170.01471	0.00011919	2.11907	83.83918	156.18134	263.38524	0.49907
METEOSAT-7	06	51	20/02/2006	42167.95179	0.00009210	2.12490	83.82222	183.63844	242.60930	0.26634
METEOSAT-7	06	58	27/02/2006	42169.39123	0.00006155	2.14905	83.91743	123.42359	309.43231	0.07334
METEOSAT-7	06	65	06/03/2006	42167.24512	0.00011906	2.15748	83.77053	191.49838	248.21376	359.88736
METEOSAT-7	06	72	13/03/2006	42168.47011	0.00006444	2.17453	83.88107	153.81488	292.55789	359.76358
METEOSAT-7	06	79	20/03/2006	42166.93874	0.00004512	2.17958	83.66549	188.27425	265.10458	359.65954
METEOSAT-7	06	86	27/03/2006	42167.57305	0.00004676	2.20025	83.70705	75.87110	24.29517	359.59392
METEOSAT-7	06	93	03/04/2006	42166.21292	0.00007313	2.21143	83.35475	190.22979	277.12358	359.53400

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	06	100	10/04/2006	42166.55728	0.00002947	2.22824	83.38390	93.70050	20.51913	359.53397
METEOSAT-7	06	107	17/04/2006	42166.06533	0.00001957	2.23796	82.98955	99.23752	22.29219	359.55339
METEOSAT-7	06	114	24/04/2006	42165.49692	0.00008177	2.25983	82.99763	49.73932	78.73487	359.60867
METEOSAT-7	06	121	01/05/2006	42165.31360	0.00004385	2.27721	82.56181	146.34281	349.53197	359.67480
METEOSAT-7	06	128	08/05/2006	42164.45935	0.00007344	2.29605	82.57955	49.14462	93.73146	359.79382
METEOSAT-7	06	135	15/05/2006	42165.14867	0.00006756	2.31345	82.17460	71.41646	78.90822	359.93587
METEOSAT-7	06	142	22/05/2006	42163.40037	0.00012901	2.33701	82.24263	52.92240	104.41137	0.11026
METEOSAT-7	06	149	29/05/2006	42164.31244	0.00008010	2.36050	81.87572	106.08884	58.71223	0.30650
METEOSAT-7	06	156	05/06/2006	42162.61703	0.00012426	2.38063	82.03692	53.20432	118.57448	0.54056
METEOSAT-7	06	163	12/06/2006	42164.04882	0.00011804	2.40320	81.72549	79.17771	100.08258	0.80477
METEOSAT-7	06	170	19/06/2006	42167.09570	0.00004367	2.42533	81.89736	48.62339	137.24084	0.67517
METEOSAT-7	06	177	26/06/2006	42168.60253	0.00007775	2.45188	81.65877	173.50672	19.33707	0.51043
METEOSAT-7	06	184	03/07/2006	42166.65804	0.00003648	2.46857	81.84421	55.88093	143.54931	0.37752
METEOSAT-7	06	191	10/07/2006	42168.00397	0.00006373	2.49275	81.66142	132.67428	73.74982	0.28410
METEOSAT-7	06	198	17/07/2006	42120.77719	0.00016006	2.51004	81.88423	81.07709	135.19272	3.44852
METEOSAT-7	06	205	24/07/2006	42121.91752	0.00015712	2.53576	81.77040	118.61538	108.69529	7.47426
METEOSAT-7	06	212	31/07/2006	42120.56330	0.00014197	2.54700	81.96212	85.84198	152.23929	11.53963
METEOSAT-7	06	219	07/08/2006	42119.78576	0.00018871	2.56853	81.84643	102.92310	146.31038	15.68300
METEOSAT-7	06	226	14/08/2006	42119.29369	0.00017773	2.57991	82.00633	104.39093	155.77217	19.88226
METEOSAT-7	06	233	21/08/2006	42118.00974	0.00022961	2.60296	81.94159	123.91657	147.49436	24.17708
METEOSAT-7	06	240	28/08/2006	42117.86883	0.00017390	2.60808	82.01937	109.34108	173.23503	28.53172
METEOSAT-7	06	247	04/09/2006	42115.18171	0.00025323	2.62816	81.89927	113.67163	180.37037	32.98773
METEOSAT-7	06	254	11/09/2006	42116.35976	0.00021347	2.63573	81.91133	126.74498	178.70099	37.51047
METEOSAT-7	06	261	18/09/2006	42113.22859	0.00030476	2.65721	81.82440	131.94065	185.11231	42.13305
METEOSAT-7	06	268	25/09/2006	42113.55922	0.00023026	2.66107	81.73524	128.53327	200.19701	46.81831
METEOSAT-7	06	275	02/10/2006	42111.72125	0.00029727	2.68136	81.56252	125.43045	215.15340	51.59189
METEOSAT-7	06	282	09/10/2006	42111.70369	0.00029272	2.69044	81.41795	145.10414	207.35762	56.41419
METEOSAT-7	06	289	16/10/2006	42169.10632	0.00005446	2.71327	81.28157	306.13712	54.34187	57.38679
METEOSAT-7	06	296	23/10/2006	42166.39472	0.00007209	2.72060	81.07113	302.14009	65.29384	57.22401
METEOSAT-7	06	303	30/10/2006	42166.25596	0.00003512	2.74550	80.89514	342.33246	32.11970	57.15912
METEOSAT-7	06	310	06/11/2006	42164.87631	0.00011019	2.75891	80.65677	243.42275	138.14732	57.13228
METEOSAT-7	06	317	13/11/2006	42164.91509	0.00007459	2.78586	80.56833	220.82284	167.79115	57.18248

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	06	324	20/11/2006	42163.46274	0.00011568	2.79871	80.31422	258.32101	137.55380	57.28571
METEOSAT-7	06	331	27/11/2006	42164.20863	0.00006364	2.82806	80.24346	256.13761	146.87889	57.45473
METEOSAT-7	06	338	04/12/2006	42161.93895	0.00018657	2.84608	80.01930	239.01324	171.33390	57.66177
METEOSAT-7	06	345	11/12/2006	42168.90838	0.00001155	2.87488	80.05556	105.88336	311.16259	57.49915
METEOSAT-7	06	352	18/12/2006	42166.63276	0.00006389	2.89116	79.86610	290.40085	133.54651	57.31570
METEOSAT-7	06	359	25/12/2006	42167.80485	0.00003789	2.92056	79.94632	354.96314	75.67589	57.19357
METEOSAT-7	07	1	01/01/2007	42165.29548	0.00010787	2.94021	79.78641	254.13592	183.47249	57.11103
METEOSAT-7	07	8	08/01/2007	42166.63349	0.00005571	2.96464	79.94518	283.99314	160.34310	57.10639
METEOSAT-7	07	15	15/01/2007	42164.27596	0.00012604	2.98014	79.82042	286.04197	165.35641	57.15365
METEOSAT-7	07	22	22/01/2007	42165.22296	0.00008611	3.00407	80.05509	310.59864	147.55617	57.25442
METEOSAT-7	07	29	29/01/2007	42163.07888	0.00015637	3.02189	79.91195	270.44983	194.87876	57.39480
METEOSAT-7	07	36	05/02/2007	42163.77447	0.00013302	3.03920	80.10286	298.56353	173.67915	57.60816
METEOSAT-7	07	43	12/02/2007	42162.26135	0.00018047	3.05133	79.95481	294.44843	185.09759	57.87056
METEOSAT-7	07	50	19/02/2007	42167.91117	0.00002338	3.06880	80.12701	285.78670	200.35348	57.74165
METEOSAT-7	07	57	26/02/2007	42166.71084	0.00010469	3.08502	79.95525	244.40916	248.64095	57.58255
METEOSAT-7	07	64	05/03/2007	42166.33089	0.00007056	3.09518	80.06200	301.09467	198.65687	57.49095
METEOSAT-7	07	71	12/03/2007	42166.01260	0.00009175	3.10751	79.80648	286.48748	220.38227	57.45146
METEOSAT-7	07	78	19/03/2007	42164.60539	0.00008323	3.12048	79.89669	330.34985	183.34393	57.46134
METEOSAT-7	07	85	26/03/2007	42164.62702	0.00009791	3.13973	79.60598	273.71877	247.23073	57.51954
METEOSAT-7	07	92	02/04/2007	42163.20637	0.00012524	3.14750	79.61653	330.72516	197.24295	57.64024
METEOSAT-7	07	99	09/04/2007	42168.25050	0.00006305	3.16430	79.29801	248.99014	286.10878	57.54286
METEOSAT-7	07	106	16/04/2007	42165.80608	0.00003360	3.17792	79.29147	342.94798	198.90639	57.38190
METEOSAT-7	07	113	23/04/2007	42166.89379	0.00007200	3.20267	78.98468	230.45471	318.51347	57.27847
METEOSAT-7	07	120	30/04/2007	42164.80721	0.00006831	3.21352	78.91852	349.64177	206.25480	57.23122
METEOSAT-7	07	127	07/05/2007	42165.90424	0.00002997	3.23641	78.62942	317.74625	245.37200	57.25503
METEOSAT-7	07	134	14/05/2007	42163.18080	0.00007600	3.25159	78.59881	26.22876	183.89722	57.32556
METEOSAT-7	07	141	21/05/2007	42164.63203	0.00001412	3.28105	78.36723	195.57640	21.82303	57.46266
METEOSAT-7	07	148	28/05/2007	42162.46138	0.00010648	3.29544	78.29919	23.50429	201.04883	57.64670
METEOSAT-7	07	155	04/06/2007	42168.80707	0.00007209	3.32338	78.11865	237.50688	354.03443	57.55530
METEOSAT-7	07	162	11/06/2007	42166.66988	0.00002005	3.33855	78.10504	224.45933	13.80099	57.36460
METEOSAT-7	07	169	18/06/2007	42167.60722	0.00009971	3.37121	78.00339	205.31729	39.81886	57.24494
METEOSAT-7	07	176	25/06/2007	42165.94422	0.00001064	3.38398	77.96524	2.53218	249.45290	57.16463

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	07	183	02/07/2007	42165.85571	0.00005255	3.41247	77.91232	165.84713	93.08348	57.16796
METEOSAT-7	07	190	09/07/2007	42164.82488	0.00005874	3.42542	77.91046	140.51049	125.35100	57.20925
METEOSAT-7	07	197	16/07/2007	42164.64999	0.00012046	3.45502	77.92542	166.86886	105.97828	57.32288
METEOSAT-7	07	204	23/07/2007	42163.92894	0.00005980	3.46473	77.88981	116.13931	163.77692	57.46946
METEOSAT-7	07	211	30/07/2007	42162.64346	0.00013194	3.48984	77.92104	140.19600	146.80382	57.69673
METEOSAT-7	07	218	06/08/2007	42167.69820	0.00001609	3.49933	77.87503	156.44606	137.38286	57.59002
METEOSAT-7	07	225	13/08/2007	42166.28168	0.00009209	3.52340	77.94086	172.61752	127.94040	57.49327
METEOSAT-7	07	232	20/08/2007	42166.51431	0.00001934	3.52968	77.84838	103.20248	204.27767	57.42851
METEOSAT-7	07	239	27/08/2007	42164.31277	0.00011300	3.54992	77.88768	147.78578	166.56237	57.43873
METEOSAT-7	07	246	03/09/2007	42165.58478	0.00009324	3.55841	77.74011	162.74046	158.69892	57.48170
METEOSAT-7	07	253	10/09/2007	42163.24192	0.00017526	3.57753	77.78534	168.17120	160.23686	57.59208
METEOSAT-7	07	260	17/09/2007	42164.07023	0.00008896	3.58369	77.59403	161.03626	174.61899	57.74064
METEOSAT-7	07	267	24/09/2007	42166.25866	0.00008723	3.60212	77.589	168.34934	174.14368	57.66424
METEOSAT-7	07	274	01/10/2007	42167.78054	0.00007614	3.61293	77.32677	201.96324	147.54703	57.50762
METEOSAT-7	07	281	08/10/2007	42165.12843	0.00015341	3.63089	77.33960	190.68584	165.63479	57.41826
METEOSAT-7	07	288	15/10/2007	42165.99339	0.00008014	3.64134	77.05610	212.23636	151.24251	57.37905
METEOSAT-7	07	295	22/10/2007	42164.16147	0.00015909	3.66089	77.02156	183.39565	187.05370	57.40163
METEOSAT-7	07	302	29/10/2007	42165.02696	0.00016173	3.67940	76.69754	205.26096	172.49470	57.47094
METEOSAT-7	07	309	05/11/2007	42162.86701	0.00021913	3.69841	76.69433	199.67451	185.13099	57.60690
METEOSAT-7	07	316	12/11/2007	42163.21093	0.00016414	3.71710	76.43835	216.33090	175.83478	57.80274
METEOSAT-7	07	323	19/11/2007	42168.32293	0.00009387	3.73876	76.42921	169.14244	229.73200	57.59755
METEOSAT-7	07	330	26/11/2007	42167.91253	0.00009855	3.76409	76.15373	214.38911	191.43753	57.37255
METEOSAT-7	07	337	03/12/2007	42166.95619	0.00012280	3.78449	76.17930	205.44248	207.09533	57.21118
METEOSAT-7	07	344	10/12/2007	42166.28689	0.00010061	3.80840	75.95859	243.08210	176.47999	57.12031
METEOSAT-7	07	351	17/12/2007	42166.43192	0.00011846	3.82904	76.02209	203.42831	222.91687	57.07563
METEOSAT-7	07	358	24/12/2007	42164.73715	0.00016432	3.85714	75.84048	235.34068	198.09231	57.09385
METEOSAT-7	07	365	31/12/2007	42165.17142	0.00014485	3.87488	75.92088	230.10295	210.21202	57.17048
METEOSAT-7	08	7	07/01/2008	42163.39894	0.00016869	3.89880	75.79683	258.67513	188.79540	57.31837
METEOSAT-7	08	14	14/01/2008	42164.27616	0.00014347	3.91464	75.90070	230.77371	223.66083	57.50294
METEOSAT-7	08	21	21/01/2008	42161.80354	0.00021557	3.94088	75.79478	252.83550	208.83659	57.75161
METEOSAT-7	08	28	28/01/2008	42168.71000	0.00004856	3.95240	75.86212	216.17323	252.25826	57.69283
METEOSAT-7	08	35	04/02/2008	42166.29396	0.00009433	3.97275	75.78592	281.08093	194.17750	57.55633

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	08	42	11/02/2008	42167.38996	0.00004736	3.98216	75.85607	216.32229	265.65053	57.45030
METEOSAT-7	08	49	18/02/2008	42164.85892	0.00011582	4.00514	75.76340	270.29817	218.61950	57.40918
METEOSAT-7	08	56	25/02/2008	42166.07933	0.00006756	4.01081	75.75964	299.94995	195.87446	57.41433
METEOSAT-7	08	63	03/03/2008	42163.88718	0.00014474	4.02918	75.64752	304.47009	198.43785	57.48415
METEOSAT-7	08	70	10/03/2008	42164.52110	0.00005810	4.03559	75.61907	300.14577	209.79779	57.58525
METEOSAT-7	08	77	17/03/2008	42162.59939	0.00014223	4.05781	75.49225	298.22711	218.91849	57.75073
METEOSAT-7	08	84	24/03/2008	42167.35689	0.00002759	4.06299	75.37570	310.74213	213.36872	57.68637
METEOSAT-7	08	91	31/03/2008	42166.19030	0.00008356	4.08249	75.22722	303.23152	227.83394	57.57732
METEOSAT-7	08	98	07/04/2008	42165.75174	0.00000623	4.09034	75.09756	31.89548	146.14422	57.50509
METEOSAT-7	08	105	14/04/2008	42164.91602	0.00007234	4.11626	74.96216	297.96458	247.12099	57.49795
METEOSAT-7	08	112	21/04/2008	42164.27944	0.00008935	4.12525	74.77116	5.45791	186.78098	57.54305
METEOSAT-7	08	119	28/04/2008	42164.34249	0.00009579	4.14873	74.63456	340.33060	219.07770	57.66003
METEOSAT-7	08	126	05/05/2008	42166.87033	0.00002567	4.16123	74.46159	178.17605	28.15152	57.49385
METEOSAT-7	08	133	12/05/2008	42167.26527	0.00006785	4.19074	74.37914	259.34284	313.82132	57.33830
METEOSAT-7	08	140	19/05/2008	42165.67792	0.00004658	4.20481	74.17764	21.04409	199.12858	57.23991
METEOSAT-7	08	147	26/05/2008	42166.61462	0.00003031	4.23114	74.11177	311.93045	275.18742	57.21788
METEOSAT-7	08	154	02/06/2008	42164.01096	0.00006171	4.24682	73.95367	88.84826	145.34906	57.24288
METEOSAT-7	08	161	09/06/2008	42165.24253	0.00001092	4.27677	73.95730	285.81415	315.35942	57.33050
METEOSAT-7	08	168	16/06/2008	42163.08073	0.00009608	4.29352	73.79154	56.64239	191.72988	57.47625
METEOSAT-7	08	175	23/06/2008	42164.24526	0.00004565	4.31835	73.81919	77.08209	178.36727	57.69705
METEOSAT-7	08	182	30/06/2008	42166.72638	0.00001127	4.33408	73.69343	16.85604	245.46887	57.56519
METEOSAT-7	08	189	07/07/2008	42168.03898	0.00007040	4.36051	73.76575	274.75040	354.24291	57.42520
METEOSAT-7	08	196	14/07/2008	42165.90601	0.00005000	4.37633	73.63102	20.80587	255.11591	57.33955
METEOSAT-7	08	203	21/07/2008	42166.54285	0.00001905	4.39588	73.71281	211.88945	70.81476	57.32329
METEOSAT-7	08	210	28/07/2008	42164.60083	0.00005871	4.41051	73.58316	121.61256	168.12859	57.34882
METEOSAT-7	08	217	04/08/2008	42165.20608	0.00004442	4.42951	73.67888	200.68973	95.91778	57.42596
METEOSAT-7	08	224	11/08/2008	42163.74105	0.00005654	4.44342	73.53557	94.63930	209.12803	57.55396
METEOSAT-7	08	231	18/08/2008	42163.27723	0.00010037	4.45723	73.60977	157.88906	152.88651	57.74296
METEOSAT-7	08	238	25/08/2008	42167.16526	0.00002872	4.47103	73.44208	78.85674	238.86409	57.62208
METEOSAT-7	08	245	01/09/2008	42166.61858	0.00003556	4.48413	73.49515	244.33450	80.10730	57.49272
METEOSAT-7	08	252	08/09/2008	42166.19323	0.00003492	4.49771	73.31096	36.42128	295.03683	57.41634
METEOSAT-7	08	259	15/09/2008	42164.56685	0.00008442	4.50797	73.32554	177.14151	161.19388	57.39539

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	08	266	22/09/2008	42165.17818	0.00006363	4.52458	73.10583	157.21992	188.27903	57.42216
METEOSAT-7	08	273	29/09/2008	42163.47243	0.00009470	4.53507	73.08400	202.67632	149.84225	57.50027
METEOSAT-7	08	280	06/10/2008	42164.00253	0.00003380	4.55218	72.85672	176.74129	183.06530	57.63894
METEOSAT-7	08	287	13/10/2008	42166.22701	0.00006842	4.56263	72.81199	161.63929	204.97245	57.47842
METEOSAT-7	08	294	20/10/2008	42167.65333	0.00003662	4.58532	72.53263	119.94223	253.71588	57.32459
METEOSAT-7	08	301	27/10/2008	42165.14903	0.00005880	4.59713	72.45853	216.74001	163.81266	57.22704
METEOSAT-7	08	308	03/11/2008	42166.11939	0.00001612	4.62123	72.25846	333.62758	54.01486	57.20124
METEOSAT-7	08	315	10/11/2008	42163.89160	0.00012020	4.63418	72.17469	195.53782	199.11807	57.22028
METEOSAT-7	08	322	17/11/2008	42165.38747	0.00006173	4.66474	71.97636	207.59773	194.25448	57.31205
METEOSAT-7	08	329	24/11/2008	42162.71782	0.00012104	4.67911	71.89592	232.32959	176.65083	57.46000
METEOSAT-7	08	336	01/12/2008	42163.50270	0.00007673	4.70732	71.75828	259.28983	156.94800	57.68548
METEOSAT-7	08	343	08/12/2008	42167.57480	0.00010258	4.72237	71.71681	162.53794	260.46669	57.52194
METEOSAT-7	08	350	15/12/2008	42168.17823	0.00003305	4.75540	71.61696	144.42827	285.40450	57.36553
METEOSAT-7	08	357	22/12/2008	42166.17850	0.00004520	4.76927	71.56273	223.11626	213.54541	57.26001
METEOSAT-7	08	364	29/12/2008	42166.22810	0.00003477	4.79659	71.51848	321.31641	122.23829	57.23153
METEOSAT-7	09	5	05/01/2009	42165.70869	0.00007750	4.80824	71.49336	202.70986	247.74716	57.23327
METEOSAT-7	09	12	12/01/2009	42164.87279	0.00006584	4.83859	71.48252	282.43813	174.98277	57.31138
METEOSAT-7	09	19	19/01/2009	42164.24549	0.00008319	4.84947	71.42480	279.18773	185.28735	57.43182
METEOSAT-7	09	26	26/01/2009	42163.23032	0.00011767	4.87170	71.43553	312.86012	158.67451	57.62365
METEOSAT-7	09	33	02/02/2009	42163.63287	0.00008031	4.87912	71.38466	260.32728	218.35640	57.83906
METEOSAT-7	09	40	09/02/2009	42166.66458	0.00003445	4.90310	71.39665	298.91634	186.53149	57.72727
METEOSAT-7	09	47	16/02/2009	42167.44290	0.00001580	4.91062	71.28743	303.40279	188.90855	57.58761
METEOSAT-7	09	54	23/02/2009	42165.44125	0.00008769	4.92808	71.28830	343.80054	155.33604	57.51426
METEOSAT-7	09	61	02/03/2009	42166.43779	0.00001397	4.93363	71.15941	199.90264	306.22181	57.46709
METEOSAT-7	09	68	09/03/2009	42163.76781	0.00011538	4.95367	71.14345	333.24162	179.82767	57.48451
METEOSAT-7	09	75	16/03/2009	42165.17058	0.00008514	4.96197	70.95563	350.30558	169.93009	57.54542
METEOSAT-7	09	82	23/03/2009	42162.75625	0.00016249	4.97822	70.92004	351.56162	175.75642	57.67060
METEOSAT-7	09	89	30/03/2009	42167.54163	0.00002984	4.98728	70.71012	219.48850	314.84155	57.54820
METEOSAT-7	09	96	06/04/2009	42165.09455	0.00011286	5.00730	70.66958	329.56706	211.62069	57.44000
METEOSAT-7	09	103	13/04/2009	42166.21334	0.00007443	5.02070	70.42853	353.25774	195.04625	57.38875
METEOSAT-7	09	110	20/04/2009	42164.26298	0.00013516	5.03851	70.37554	354.78354	200.51249	57.40338
METEOSAT-7	09	117	27/04/2009	42164.71827	0.00004871	5.05468	70.13714	27.32292	175.19844	57.46823

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METEOSAT-7	09	124	04/05/2009	42163.09783	0.00015509	5.07635	70.10254	355.80597	213.78767	57.58872
METEOSAT-7	09	131	11/05/2009	42167.81874	0.00003368	5.09627	69.87625	2.91243	213.72238	57.49205
METEOSAT-7	09	138	18/05/2009	42167.01785	0.00006358	5.11530	69.84890	355.49986	227.91926	57.34398
METEOSAT-7	09	145	25/05/2009	42166.25456	0.00004575	5.13738	69.64455	107.79802	122.63546	57.25531
METEOSAT-7	09	152	01/06/2009	42165.76850	0.00008458	5.15856	69.64350	2.47374	234.81203	57.21454
METEOSAT-7	09	159	08/06/2009	42164.83250	0.00009249	5.18242	69.47528	50.81492	193.56556	57.25568
METEOSAT-7	09	166	15/06/2009	42165.22555	0.00007722	5.19973	69.48869	41.85590	209.49302	57.35796
METEOSAT-7	09	173	22/06/2009	42163.16821	0.00011844	5.22382	69.34009	94.20144	164.33358	57.52108
METEOSAT-7	09	180	29/06/2009	42167.90747	0.00009499	5.24166	69.37057	339.25761	286.05678	57.45836
METEOSAT-7	09	187	06/07/2009	42166.03455	0.00007014	5.26552	69.26537	38.46743	233.73812	57.37365
METEOSAT-7	09	194	13/07/2009	42167.13560	0.00003278	5.27761	69.29935	14.92318	264.08647	57.34059
METEOSAT-7	09	201	20/07/2009	42164.37778	0.00008937	5.29994	69.19039	109.33822	176.67546	57.36362
METEOSAT-7	09	208	27/07/2009	42165.68996	0.00005793	5.31234	69.21562	15.49749	277.41821	57.41467
METEOSAT-7	09	215	03/08/2009	42163.37557	0.00009504	5.33337	69.13964	82.67835	217.32129	57.54224
METEOSAT-7	09	222	10/08/2009	42164.42750	0.00005596	5.33999	69.14481	120.83987	186.21265	57.71289
METEOSAT-7	09	229	17/08/2009	42166.20709	0.00005495	5.36001	69.04341	90.75793	223.23404	57.65695
METEOSAT-7	09	236	24/08/2009	42167.41666	0.00008281	5.36770	69.01684	346.58170	334.19938	57.51776
METEOSAT-7	09	243	31/08/2009	42165.33692	0.00006284	5.38663	68.92867	55.96576	271.74378	57.44965
METEOSAT-7	09	250	07/09/2009	42165.67300	0.00002108	5.39063	68.86904	187.89427	146.76470	57.42357
METEOSAT-7	09	257	14/09/2009	42164.08991	0.00007638	5.41041	68.74679	136.41523	205.31564	57.45164
METEOSAT-7	09	264	21/09/2009	42164.39877	0.00002696	5.41655	68.61529	304.05267	44.80350	57.51838
METEOSAT-7	09	271	28/09/2009	42163.17631	0.00004421	5.43628	68.50448	116.19687	239.83811	57.65609
METEOSAT-7	09	278	05/10/2009	42167.07754	0.00001464	5.44222	68.37431	349.82957	13.15216	57.54200
METEOSAT-7	09	285	12/10/2009	42166.86289	0.00004269	5.46540	68.24344	80.04382	289.82927	57.37234
METEOSAT-7	09	292	19/10/2009	42165.99864	0.00007053	5.47582	68.08288	331.81324	45.02629	57.25024
METEOSAT-7	09	299	26/10/2009	42165.85385	0.00005087	5.49893	67.97504	28.46495	355.35716	57.20046
METEOSAT-7	09	306	02/11/2009	42164.07496	0.00006800	5.50993	67.81272	234.91123	155.99448	57.20295
METEOSAT-7	09	313	09/11/2009	42165.09930	0.00001991	5.53767	67.71596	221.48226	176.50744	57.27755
METEOSAT-7	09	320	16/11/2009	42163.03830	0.00009745	5.55307	67.54560	286.40685	118.79025	57.41025
METEOSAT-7	09	327	23/11/2009	42163.74984	0.00004382	5.57889	67.48600	306.19447	106.16377	57.61541
METEOSAT-7	09	334	30/11/2009	42166.64311	0.00005317	5.59399	67.34203	181.54309	237.70566	57.47374
METEOSAT-7	09	341	07/12/2009	42168.33682	0.00004198	5.62329	67.31608	91.56298	334.46108	57.34111

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METEOSAT-7	09	348	14/12/2009	42165.55063	0.00005432	5.64131	67.17662	310.48364	122.48071	57.26709
METEOSAT-7	09	355	21/12/2009	42166.50559	0.00004586	5.66515	67.18407	23.09918	56.72067	57.25965
METEOSAT-7	09	362	28/12/2009	42164.47997	0.00007082	5.68025	67.07231	246.68839	200.14810	57.29834
METEOSAT-7	10	4	04/01/2010	42165.86249	0.00005588	5.70593	67.10959	330.64766	123.12339	57.40496
METEOSAT-7	10	11	11/01/2010	42163.15236	0.00013024	5.72290	66.99388	307.85045	153.06004	57.56375
METEOSAT-7	10	18	18/01/2010	42163.74717	0.00010366	5.74029	67.03771	333.91915	134.03127	57.77925
METEOSAT-7	10	25	25/01/2010	42167.28690	0.00005934	5.75249	66.93063	214.15357	260.66327	57.66480
METEOSAT-7	10	32	01/02/2010	42167.43833	0.00005589	5.77100	66.97817	352.30913	129.22343	57.54804
METEOSAT-7	10	39	08/02/2010	42165.75667	0.00009474	5.78574	66.84964	319.72409	168.75333	57.47748
METEOSAT-7	10	46	15/02/2010	42165.52668	0.00009277	5.79659	66.87292	356.17350	139.15728	57.45880
METEOSAT-7	10	53	22/02/2010	42165.27169	0.00006211	5.80735	66.72640	299.88105	202.51911	57.47769
METEOSAT-7	10	60	01/03/2010	42163.89273	0.00016689	5.82058	66.73341	347.56750	161.80665	57.54643
METEOSAT-7	10	67	08/03/2010	42163.77273	0.00016522	5.83603	66.56348	336.72202	179.86057	57.66409
METEOSAT-7	10	74	15/03/2010	42162.47337	0.00018121	5.84397	66.53264	356.76972	166.94154	57.83420
METEOSAT-7	10	81	22/03/2010	42167.96461	0.00004798	5.85797	66.34123	266.39735	264.28131	57.67829
METEOSAT-7	10	88	29/03/2010	42165.55085	0.00014991	5.87009	66.29509	350.14846	187.34088	57.50862
METEOSAT-7	10	95	05/04/2010	42166.68165	0.00011583	5.88976	66.10147	340.19156	204.32120	57.40207
METEOSAT-7	10	102	12/04/2010	42164.50114	0.00014600	5.89943	66.03012	7.71732	183.75388	57.35423
METEOSAT-7	10	109	19/04/2010	42165.63080	0.00007031	5.92015	65.82935	351.39168	207.22417	57.36524
METEOSAT-7	10	116	26/04/2010	42162.98268	0.00022162	5.93387	65.75557	5.86630	199.80848	57.42336
METEOSAT-7	10	123	03/05/2010	42164.48193	0.00016533	5.95933	65.58408	5.90556	207.00007	57.56175
METEOSAT-7	10	130	10/05/2010	42166.81578	0.00009589	5.97131	65.50523	15.96023	203.83379	57.46005
METEOSAT-7	10	137	17/05/2010	42167.81428	0.00001456	5.99779	65.34701	5.97025	220.73034	57.30508
METEOSAT-7	10	144	24/05/2010	42165.60675	0.00015864	6.01260	65.28013	14.35318	219.19544	57.19256
METEOSAT-7	10	151	31/05/2010	42166.56380	0.00009905	6.04088	65.17040	25.56748	214.95453	57.17100
METEOSAT-7	10	158	07/06/2010	42164.80298	0.00013387	6.05292	65.11073	39.88774	207.60652	57.20742
METEOSAT-7	10	165	14/06/2010	42164.94244	0.00007841	6.08129	65.01838	70.42788	184.13439	57.31384
METEOSAT-7	10	172	21/06/2010	42163.65015	0.00018472	6.09474	64.96371	34.29699	227.32245	57.45304
METEOSAT-7	10	179	28/06/2010	42163.50797	0.00014667	6.12112	64.91983	56.92800	211.82459	57.68254
METEOSAT-7	10	186	05/07/2010	42167.70191	0.00006055	6.13039	64.86934	27.41889	248.21846	57.65666
METEOSAT-7	10	193	12/07/2010	42166.52198	0.00004344	6.15610	64.83093	125.66443	156.78651	57.56998
METEOSAT-7	10	200	19/07/2010	42166.40331	0.00010749	6.16667	64.76700	26.35314	262.96144	57.50421

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METEOSAT-7	10	207	26/07/2010	42165.05565	0.00007840	6.18694	64.73648	83.28090	212.95546	57.52485
METEOSAT-7	10	214	02/08/2010	42165.63345	0.00006120	6.19284	64.66710	82.06043	221.18402	57.58497
METEOSAT-7	10	221	09/08/2010	42163.28147	0.00011215	6.21399	64.64338	134.00052	176.26712	57.69759
METEOSAT-7	10	228	16/08/2010	42164.25109	0.00008914	6.22237	64.53976	57.60731	259.79104	57.82715
METEOSAT-7	10	235	23/08/2010	42166.17073	0.00004226	6.23868	64.52770	74.16400	250.09771	57.77149
METEOSAT-7	10	242	30/08/2010	42167.29204	0.00001623	6.24335	64.40581	5.90579	325.27446	57.65113
METEOSAT-7	10	249	06/09/2010	42164.49159	0.00007178	6.26118	64.36793	163.03857	175.03477	57.58159
METEOSAT-7	10	256	13/09/2010	42165.97976	0.00006157	6.27072	64.20686	5.64899	339.47564	57.53884
METEOSAT-7	10	263	20/09/2010	42163.61313	0.00006141	6.28514	64.16884	142.14703	209.98013	57.56548
METEOSAT-7	10	270	27/09/2010	42164.52748	0.00004400	6.29292	63.99251	198.93186	160.39152	57.64323
METEOSAT-7	10	277	04/10/2010	42162.23204	0.00010960	6.31067	63.92672	181.46326	185.00174	57.77663
METEOSAT-7	10	284	11/10/2010	42168.32772	0.00011505	6.32538	63.73282	22.98764	350.40902	57.57505
METEOSAT-7	10	291	18/10/2010	42166.40782	0.00007250	6.34128	63.67466	90.40308	289.79045	57.37928
METEOSAT-7	10	298	25/10/2010	42166.52075	0.00000888	6.35574	63.47888	54.97566	332.21409	57.25055
METEOSAT-7	10	305	01/11/2010	42165.38389	0.00003566	6.37554	63.42214	153.22868	240.87284	57.18451
METEOSAT-7	10	312	08/11/2010	42165.42660	0.00007132	6.39678	63.22699	349.87419	51.33072	57.18080
METEOSAT-7	10	319	15/11/2010	42164.46363	0.00002861	6.41475	63.18371	138.08372	270.12589	57.24111
METEOSAT-7	10	326	22/11/2010	42163.45436	0.00006448	6.43521	63.01359	255.40451	160.00260	57.37837
METEOSAT-7	10	333	29/11/2010	42163.74725	0.00004502	6.45572	62.99186	247.07989	175.42819	57.57801
METEOSAT-7	10	340	06/12/2010	42167.11993	0.00005394	6.48067	62.84424	27.42961	41.99914	57.47996
METEOSAT-7	10	347	13/12/2010	42167.25148	0.00007445	6.49740	62.83437	112.40133	323.79647	57.37490
METEOSAT-7	10	354	20/12/2010	42165.28512	0.00003229	6.51957	62.71567	236.33864	206.80384	57.34294
METEOSAT-7	10	361	27/12/2010	42166.65574	0.00001613	6.53661	62.72384	59.96382	30.04640	57.36355
METEOSAT-7	11	3	03/01/2011	42164.19906	0.00009452	6.56052	62.62958	333.46299	123.57986	57.44828
METEOSAT-7	11	10	10/01/2011	42165.03000	0.00002197	6.57202	62.63612	36.23990	67.77732	57.57268
METEOSAT-7	11	17	17/01/2011	42162.71950	0.00009208	6.59147	62.54855	293.09370	178.05713	57.75830
METEOSAT-7	11	24	24/01/2011	42168.31793	0.00004414	6.60246	62.55384	66.20593	51.73273	57.68180
METEOSAT-7	11	31	31/01/2011	42165.41935	0.00009219	6.62292	62.47568	348.64374	136.18065	57.61180
METEOSAT-7	11	38	07/02/2011	42166.36075	0.00005171	6.62852	62.45518	56.02464	75.67221	57.57510
METEOSAT-7	11	45	14/02/2011	42164.45139	0.00006587	6.64507	62.36052	318.27315	180.43353	57.59119
METEOSAT-7	11	52	21/02/2011	42165.47762	0.00011750	6.65190	62.31688	12.14583	133.56603	57.64169
METEOSAT-7	11	59	28/02/2011	42163.02700	0.00017584	6.67079	62.22610	352.01345	160.81564	57.74647

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	11	66	07/03/2011	42163.48685	0.00012272	6.67415	62.14284	17.65710	142.33035	57.88925
METEOSAT-7	11	73	14/03/2011	42167.29913	0.00006114	6.69109	62.02249	286.13926	240.79637	57.77855
METEOSAT-7	11	80	21/03/2011	42166.95039	0.00010777	6.69800	61.91906	10.30276	163.48669	57.58549
METEOSAT-7	11	87	28/03/2011	42165.77653	0.00013762	6.71895	61.81180	352.14782	188.56628	57.45644
METEOSAT-7	11	94	04/04/2011	42165.32446	0.00010079	6.72505	61.67960	26.45872	161.25889	57.38069
METEOSAT-7	11	101	11/04/2011	42165.33934	0.00009202	6.74585	61.55558	347.19705	207.57528	57.36650
METEOSAT-7	11	108	18/04/2011	42163.60977	0.00020701	6.75696	61.41826	20.13127	181.75098	57.39962
METEOSAT-7	11	115	25/04/2011	42167.04249	0.00012191	6.78110	61.32256	2.64448	206.18002	57.31491
METEOSAT-7	11	122	02/05/2011	42165.48021	0.00011454	6.79203	61.17550	40.67735	175.11752	57.21816
METEOSAT-7	11	129	09/05/2011	42166.28811	0.00007507	6.81623	61.08420	6.70242	216.06581	57.18938
METEOSAT-7	11	136	16/05/2011	42163.70707	0.00020825	6.83005	60.92615	32.37059	197.48138	57.21685
METEOSAT-7	11	143	23/05/2011	42165.11157	0.00015672	6.85543	60.87306	28.43666	208.46921	57.33103
METEOSAT-7	11	150	30/05/2011	42162.72028	0.00018496	6.86922	60.74567	53.31608	190.77393	57.51398
METEOSAT-7	11	157	06/06/2011	42168.35198	0.00006076	6.89363	60.70682	338.63396	272.26124	57.41444
METEOSAT-7	11	164	13/06/2011	42165.79053	0.00016711	6.90975	60.59047	30.62106	227.13712	57.30362
METEOSAT-7	11	171	20/06/2011	42167.29400	0.00009775	6.93223	60.58380	29.68238	234.90456	57.27337
METEOSAT-7	11	178	27/06/2011	42164.86458	0.00013006	6.94565	60.47812	61.96406	209.60545	57.30192
METEOSAT-7	11	185	04/07/2011	42165.64612	0.00005985	6.96626	60.48121	50.51568	227.98191	57.38419
METEOSAT-7	11	192	11/07/2011	42163.64686	0.00018270	6.98115	60.37527	52.51475	233.05783	57.50202
METEOSAT-7	11	199	18/07/2011	42164.36808	0.00012047	6.99747	60.38894	73.71255	218.89064	57.68854
METEOSAT-7	11	206	25/07/2011	42162.83287	0.00016065	7.00862	60.28557	83.24401	216.56056	57.92029
METEOSAT-7	11	213	01/08/2011	42167.59521	0.00003499	7.02369	60.29434	340.62721	325.99928	57.87261
METEOSAT-7	11	220	08/08/2011	42166.64773	0.00012653	7.03720	60.17682	34.66427	278.82028	57.72309
METEOSAT-7	11	227	15/08/2011	42166.17591	0.00004815	7.04756	60.17492	81.36354	238.93606	57.63376
METEOSAT-7	11	234	22/08/2011	42165.92185	0.00006661	7.05751	60.04661	80.44790	246.84978	57.58839
METEOSAT-7	11	241	29/08/2011	42164.36187	0.00003428	7.06831	60.03035	164.26777	169.96728	57.58287
METEOSAT-7	11	248	05/09/2011	42164.63016	0.00009308	7.08308	59.88297	59.16052	282.18520	57.60856
METEOSAT-7	11	255	12/09/2011	42163.05216	0.00008568	7.09040	59.83957	141.70337	206.71709	57.69397
METEOSAT-7	11	262	19/09/2011	42167.12507	0.00005151	7.10272	59.68258	46.17007	309.29204	57.62761
METEOSAT-7	11	269	26/09/2011	42164.54047	0.00002546	7.11273	59.62835	227.71370	134.65244	57.52503
METEOSAT-7	11	276	03/10/2011	42165.81644	0.00008754	7.13208	59.46107	31.47522	337.95470	57.46855
METEOSAT-7	11	283	10/10/2011	42163.57241	0.00005161	7.14061	59.37926	170.88826	205.58096	57.47730

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	11	290	17/10/2011	42167.30940	0.00005319	7.15855	59.21458	40.79878	342.66461	57.36486
METEOSAT-7	11	297	24/10/2011	42164.55703	0.00002180	7.17047	59.13927	256.33888	134.04365	57.27660
METEOSAT-7	11	304	31/10/2011	42166.08672	0.00009655	7.19611	58.98563	23.35046	14.08190	57.25072
METEOSAT-7	11	311	07/11/2011	42163.77874	0.00003524	7.20772	58.89500	191.47784	212.99401	57.29130
METEOSAT-7	11	318	14/11/2011	42164.57655	0.00003214	7.23104	58.76304	303.09316	108.53456	57.42003
METEOSAT-7	11	325	21/11/2011	42166.01755	0.00001057	7.24476	58.69666	80.76086	337.73668	57.34182
METEOSAT-7	11	332	28/11/2011	42166.87327	0.00010529	7.27371	58.58990	33.23548	32.18632	57.28919
METEOSAT-7	11	339	05/12/2011	42165.19623	0.00003007	7.28822	58.53581	148.23301	284.10168	57.28917
METEOSAT-7	11	346	12/12/2011	42165.04493	0.00004161	7.31301	58.46059	331.57595	107.77106	57.37620
METEOSAT-7	11	353	19/12/2011	42164.34228	0.00004879	7.32526	58.41187	312.22856	134.14615	57.51122
METEOSAT-7	11	360	26/12/2011	42166.75505	0.00007114	7.35214	58.36213	29.06847	64.17609	57.48836
METEOSAT-7	12	2	02/01/2012	42166.10068	0.00004253	7.36243	58.30541	166.99138	293.13335	57.46780
METEOSAT-7	12	9	09/01/2012	42164.78107	0.00005535	7.38367	58.26927	309.20603	157.85620	57.52149
METEOSAT-7	12	16	16/01/2012	42165.39948	0.00004611	7.39192	58.21527	326.47551	147.58385	57.60927
METEOSAT-7	12	23	23/01/2012	42163.63287	0.00012223	7.41324	58.19285	353.27017	127.81733	57.75001
METEOSAT-7	12	30	30/01/2012	42164.04975	0.00002791	7.41911	58.11600	316.22269	171.98621	57.91629
METEOSAT-7	12	37	06/02/2012	42166.13536	0.00004313	7.43545	58.08457	299.27286	195.75492	57.81177
METEOSAT-7	12	44	13/02/2012	42167.65810	0.00002370	7.44099	57.98518	22.45805	119.44650	57.68274
METEOSAT-7	12	51	20/02/2012	42164.97844	0.00010519	7.45637	57.95467	10.29435	138.48148	57.60421
METEOSAT-7	12	58	27/02/2012	42165.99524	0.00002307	7.46252	57.83728	79.71266	76.06531	57.55603
METEOSAT-7	12	65	05/03/2012	42163.65720	0.00010844	7.47661	57.78219	340.58172	182.20261	57.56377
METEOSAT-7	12	72	12/03/2012	42165.23507	0.00010275	7.48463	57.63785	16.49287	153.43396	57.60869
METEOSAT-7	12	79	19/03/2012	42162.38090	0.00018016	7.49985	57.58075	13.36426	163.68071	57.71136
METEOSAT-7	12	86	26/03/2012	42167.67694	0.00001345	7.50843	57.42066	150.29607	33.68914	57.53272
METEOSAT-7	12	93	02/04/2012	42165.95226	0.00009119	7.52377	57.34724	330.28928	220.55292	57.35970
METEOSAT-7	12	100	09/04/2012	42166.66492	0.00008947	7.53746	57.17798	25.08474	172.76081	57.24090
METEOSAT-7	12	107	16/04/2012	42164.50198	0.00014388	7.55429	57.11425	21.37973	183.42581	57.19252
METEOSAT-7	12	114	23/04/2012	42164.81939	0.00008495	7.56882	56.94846	54.51083	157.41699	57.21457
METEOSAT-7	12	121	30/04/2012	42164.08936	0.00012598	7.58638	56.88532	8.36575	210.63199	57.30030
METEOSAT-7	12	128	07/05/2012	42163.35986	0.00017991	7.60573	56.72711	43.05630	183.15920	57.45348
METEOSAT-7	12	135	14/05/2012	42167.06873	0.00009411	7.62331	56.68175	25.33887	207.70143	57.34169
METEOSAT-7	12	142	21/05/2012	42166.31444	0.00006906	7.64222	56.54251	80.65126	159.31579	57.25233

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METEOSAT-7	12	149	28/05/2012	42166.56800	0.00007435	7.65940	56.50881	8.03375	238.79893	57.22040
METEOSAT-7	12	156	04/06/2012	42164.55595	0.00015304	7.68120	56.38470	60.54313	193.29992	57.25484
METEOSAT-7	12	163	11/06/2012	42165.30164	0.00012523	7.69674	56.36258	59.62557	201.18554	57.35769
METEOSAT-7	12	170	18/06/2012	42163.42316	0.00015036	7.71611	56.26134	91.65025	176.27432	57.53348
METEOSAT-7	12	177	25/06/2012	42167.24438	0.00006641	7.72937	56.24892	13.64432	261.16076	57.56481
METEOSAT-7	12	184	02/07/2012	42164.59264	0.00015425	7.75010	56.15514	70.14909	211.59862	57.57309
METEOSAT-7	12	191	09/07/2012	42166.17479	0.00009874	7.76079	56.13805	77.15129	211.52382	57.63912
METEOSAT-7	12	198	16/07/2012	42163.64011	0.00015137	7.77786	56.05827	106.48234	189.24623	57.76041
METEOSAT-7	12	205	23/07/2012	42164.71985	0.00007281	7.78588	56.04321	80.02341	222.73393	57.90881
METEOSAT-7	12	212	30/07/2012	42165.72479	0.00011324	7.80397	55.95887	101.65696	208.02789	57.87272
METEOSAT-7	12	219	06/08/2012	42167.13554	0.00008267	7.80979	55.92052	143.72260	172.81189	57.78879
METEOSAT-7	12	226	13/08/2012	42164.83735	0.00015157	7.82426	55.83778	143.09073	180.40219	57.75435
METEOSAT-7	12	233	20/08/2012	42165.40112	0.00007085	7.82873	55.78823	167.11771	163.34230	57.74605
METEOSAT-7	12	240	27/08/2012	42163.64206	0.00015712	7.84569	55.69419	127.28757	210.23608	57.77628
METEOSAT-7	12	247	03/09/2012	42164.08152	0.00016206	7.84968	55.61245	160.04296	184.59272	57.85461
METEOSAT-7	12	254	10/09/2012	42166.84795	0.00025756	7.86419	55.51187	174.12191	177.44320	57.72489
METEOSAT-7	12	261	17/09/2012	42166.28799	0.00022175	7.86893	55.41895	192.89902	165.53908	57.54197
METEOSAT-7	12	268	24/09/2012	42165.68164	0.00023929	7.88796	55.31312	167.69403	197.68001	57.40733
METEOSAT-7	12	275	01/10/2012	42164.90787	0.00030469	7.89418	55.19061	185.72816	186.66053	57.33668
METEOSAT-7	12	282	08/10/2012	42165.01039	0.00030186	7.91165	55.08214	181.91602	197.54026	57.33866
METEOSAT-7	12	289	15/10/2012	42165.23550	0.00024262	7.92032	54.96252	199.11882	187.32766	57.26285
METEOSAT-7	12	296	22/10/2012	42165.85288	0.00023495	7.94322	54.86481	174.66588	218.74306	57.19302
METEOSAT-7	12	303	29/10/2012	42164.06086	0.00031584	7.95693	54.72279	193.87973	206.59742	57.19962
METEOSAT-7	12	310	05/11/2012	42165.10121	0.00028196	7.97789	54.63655	191.57150	215.98772	57.29177
METEOSAT-7	12	317	12/11/2012	42165.47141	0.00022799	7.99071	54.51980	202.34872	212.13109	57.20892
METEOSAT-7	12	324	19/11/2012	42166.90116	0.00020659	8.01617	54.45752	174.57125	246.78260	57.14856
METEOSAT-7	12	331	26/11/2012	42164.55197	0.00028478	8.03066	54.33909	198.11370	230.23028	57.16368
METEOSAT-7	12	338	03/12/2012	42165.76105	0.00023030	8.05183	54.29550	197.71042	237.62121	57.26287
METEOSAT-7	12	345	10/12/2012	42163.11896	0.00024763	8.06539	54.20048	215.28253	227.13375	57.41772
METEOSAT-7	12	352	17/12/2012	42167.49929	0.00017656	8.08869	54.18124	170.39710	278.88561	57.43301
METEOSAT-7	12	359	24/12/2012	42165.24649	0.00024218	8.10288	54.08700	198.82085	257.38260	57.42919
METEOSAT-7	12	366	31/12/2012	42165.87626	0.00017117	8.11970	54.07741	202.14856	260.96422	57.49544

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	13	7	07/01/2013	42164.17807	0.00018065	8.13100	53.99295	217.84101	252.30113	57.60052
METEOSAT-7	13	14	14/01/2013	42164.68167	0.00012884	8.14806	53.99182	188.22645	288.91155	57.74450
METEOSAT-7	13	21	21/01/2013	42166.18781	0.00022688	8.15943	53.89880	193.76824	290.27956	57.69602
METEOSAT-7	13	28	28/01/2013	42165.73101	0.00013455	8.16999	53.88893	199.98227	290.92576	57.66537
METEOSAT-7	13	35	04/02/2013	42165.38517	0.00013870	8.17914	53.78748	206.43756	291.46963	57.66531
METEOSAT-7	13	42	11/02/2013	42164.53974	0.00010133	8.19031	53.76863	169.61902	335.25659	57.70008
METEOSAT-7	13	49	18/02/2013	42164.21419	0.00017054	8.20050	53.65142	199.89204	312.10183	57.76910
METEOSAT-7	13	56	25/02/2013	42162.59268	0.00006728	8.20780	53.61179	230.03837	289.06274	57.88963
METEOSAT-7	13	63	04/03/2013	42167.78552	0.00002804	8.21862	53.47737	79.65950	86.41452	57.77032
METEOSAT-7	13	70	11/03/2013	42165.66888	0.00010906	8.22737	53.42394	69.58784	103.32998	57.59583
METEOSAT-7	13	77	18/03/2013	42166.36627	0.00005075	8.24028	53.28213	129.73507	50.16838	57.46898
METEOSAT-7	13	84	25/03/2013	42164.06230	0.00011188	8.24820	53.21225	27.92498	158.95131	57.40099
METEOSAT-7	13	91	01/04/2013	42165.71935	0.00009267	8.26454	53.06199	53.74868	140.23748	57.39193
METEOSAT-7	13	98	08/04/2013	42162.85755	0.00017406	8.27458	52.98393	59.59012	141.48793	57.44545
METEOSAT-7	13	105	15/04/2013	42167.31137	0.00002950	8.29247	52.84349	126.88712	81.14780	57.31371
METEOSAT-7	13	112	22/04/2013	42165.09842	0.00011882	8.30289	52.76435	21.34944	193.58987	57.20560
METEOSAT-7	13	119	29/04/2013	42166.56911	0.00009489	8.32519	52.63187	56.36258	165.59590	57.17407
METEOSAT-7	13	126	06/05/2013	42163.75302	0.00016613	8.33672	52.55335	63.84309	165.13436	57.21496
METEOSAT-7	13	133	13/05/2013	42164.63220	0.00010136	8.35852	52.44428	88.02739	148.06277	57.33681
METEOSAT-7	13	140	20/05/2013	42166.29836	0.00010856	8.37005	52.37933	25.17380	217.82692	57.31775
METEOSAT-7	13	147	27/05/2013	42166.68128	0.00010628	8.39480	52.28468	74.15330	175.77211	57.29740
METEOSAT-7	13	154	03/06/2013	42164.81030	0.00015208	8.40635	52.22000	77.29507	179.57692	57.34196
METEOSAT-7	13	161	10/06/2013	42164.87055	0.00011750	8.42772	52.15045	106.54251	157.34802	57.46276
METEOSAT-7	13	168	17/06/2013	42164.42668	0.00013583	8.43711	52.09984	59.89792	211.02978	57.62607
METEOSAT-7	13	175	24/06/2013	42163.28749	0.00019784	8.45987	52.04327	94.81467	183.21961	57.85357
METEOSAT-7	13	182	01/07/2013	42167.41532	0.00010233	8.46879	51.98126	87.02836	197.88370	57.84077
METEOSAT-7	13	189	08/07/2013	42166.34446	0.00010222	8.48670	51.94015	128.55695	163.16861	57.77448
METEOSAT-7	13	196	15/07/2013	42166.82160	0.00007880	8.49245	51.88456	64.93201	233.65747	57.73169
METEOSAT-7	13	203	22/07/2013	42164.48541	0.00017715	8.51092	51.84487	113.72482	233.65747	57.73596
METEOSAT-7	13	210	29/07/2013	42165.56813	0.00014893	8.51709	51.76867	118.13653	191.77394	57.77527
METEOSAT-7	13	217	05/08/2013	42163.45861	0.00018742	8.53031	51.72882	140.86954	178.65872	57.86436
METEOSAT-7	13	224	12/08/2013	42164.49681	0.00011074	8.53382	51.64663	114.64414	211.99507	57.97149

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METEOSAT-7	13	231	19/08/2013	42165.66396	0.00021910	8.54872	51.59885	109.64636	223.82267	57.81668
METEOSAT-7	13	238	26/08/2013	42167.35640	0.00016355	8.55423	52.10816	111.50059	227.41683	57.65392
METEOSAT-7	13	245	02/09/2013	42164.77905	0.00019476	8.56537	51.43481	134.67199	212.60722	57.54621
METEOSAT-7	13	252	09/09/2013	42165.81505	0.00012301	8.57017	51.31514	107.46006	246.83792	57.47175
METEOSAT-7	13	259	16/09/2013	42163.41475	0.00024715	8.58428	51.25103	129.39513	231.91773	57.44507
METEOSAT-7	13	266	23/09/2013	42164.68316	0.00018891	8.59293	51.11099	140.59043	227.87590	57.47999
METEOSAT-7	13	273	30/09/2013	42165.74442	0.00023576	8.60503	51.03902	133.52430	241.88789	57.38271
METEOSAT-7	13	280	07/10/2013	42166.09423	0.00016016	8.61486	50.89656	116.14252	266.25316	57.26148
METEOSAT-7	13	287	14/10/2013	42164.63673	0.00027743	8.63074	50.82742	131.02015	258.33101	57.19847
METEOSAT-7	13	294	21/10/2013	42164.83081	0.00021203	8.64643	50.69577	145.16092	251.27343	57.21602
METEOSAT-7	13	301	28/10/2013	42163.95453	0.00023067	8.66099	50.62730	149.60675	253.90947	57.31428
METEOSAT-7	13	308	04/11/2013	42163.03930	0.00014204	8.67646	50.49143	147.25261	263.46378	57.48344
METEOSAT-7	13	315	11/11/2013	42167.51956	0.00016737	8.69408	50.43870	130.70391	286.86832	57.41012
METEOSAT-7	13	322	18/11/2013	42166.41701	0.00009899	8.71291	50.31645	166.15570	258.29272	57.30522
METEOSAT-7	13	329	25/11/2013	42166.86036	0.00009795	8.72810	50.27188	157.07950	274.22873	57.27709
METEOSAT-7	13	336	02/12/2013	42164.66807	0.00002486	8.74608	50.16574	219.78794	218.49454	57.31518
METEOSAT-7	13	343	09/12/2013	42165.58847	0.00012970	8.76225	50.13974	149.00321	296.20796	57.39595
METEOSAT-7	13	350	16/12/2013	42163.53746	0.00009841	8.78124	50.05205	208.82523	243.44953	57.55550
METEOSAT-7	13	357	23/12/2013	42167.33342	0.00005311	8.79248	50.03060	127.23026	331.93817	57.60839
METEOSAT-7	13	364	30/12/2013	42164.51583	0.00003739	8.80892	49.94972	334.28097	131.82486	57.64030
METEOSAT-7	14	6	06/01/2014	42166.05051	0.00009526	8.82014	49.93299	126.48028	346.53283	57.69546
METEOSAT-7	14	13	13/01/2014	42163.59423	0.00004327	8.83613	49.86612	245.53609	234.50514	57.80821
METEOSAT-7	14	20	20/01/2014	42164.73647	0.00002570	8.84188	49.83830	17.60477	109.48797	57.96509
METEOSAT-7	14	27	27/01/2014	42162.29323	0.00008819	8.85483	49.75904	334.58978	159.65706	58.15381
METEOSAT-7	14	34	03/02/2014	42168.18682	0.00012921	8.86119	49.72300	152.56776	348.46786	57.99957
METEOSAT-7	14	41	10/02/2014	42166.03210	0.00008844	8.87432	49.64571	213.96606	293.90663	57.83381
METEOSAT-7	14	48	17/02/2014	42166.41912	0.00001651	8.87685	49.58683	153.50780	1.24746	57.71339
METEOSAT-7	14	55	24/02/2014	42165.08126	0.00002592	8.88925	49.48882	308.86678	212.86322	57.63043
METEOSAT-7	14	62	03/03/2014	42165.24241	0.00008515	8.89412	49.41460	130.03106	38.69251	57.57736
METEOSAT-7	14	69	10/03/2014	42164.02320	0.00004198	8.90784	49.31904	235.24525	300.55332	57.57566
METEOSAT-7	14	76	17/03/2014	42163.25554	0.00006328	8.91146	49.22343	33.02944	149.90787	57.63338
METEOSAT-7	14	83	24/03/2014	42167.08593	0.00003713	8.92677	49.11433	230.47334	319.38341	57.46252

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	14	90	31/03/2014	42165.82587	0.00009261	8.93413	49.00982	144.10697	52.66503	57.29859
METEOSAT-7	14	97	07/04/2014	42165.81062	0.00007266	8.95133	48.91151	213.35344	350.38442	57.20126
METEOSAT-7	14	104	14/04/2014	42163.98821	0.00005350	8.95896	48.80064	57.97367	152.80305	57.17906
METEOSAT-7	14	111	21/04/2014	42165.25013	0.00003225	8.97851	48.70481	101.17098	116.68900	57.23349
METEOSAT-7	14	118	28/04/2014	42162.78750	0.00012474	8.98948	48.59540	111.51097	113.49605	57.35930
METEOSAT-7	14	125	05/05/2014	42167.64780	0.00007334	9.00909	48.51868	250.26261	341.60905	57.25574
METEOSAT-7	14	132	12/05/2014	42165.32571	0.00006971	9.01969	48.41730	23.90451	214.86107	57.17765
METEOSAT-7	14	139	19/05/2014	42167.08246	0.00001333	9.04099	48.35431	81.37660	164.30678	57.18000
METEOSAT-7	14	146	26/05/2014	42164.06085	0.00010057	9.05369	48.25888	110.62266	142.06266	57.25169
METEOSAT-7	14	153	02/06/2014	42165.20675	0.00004157	9.07216	48.21404	175.71627	83.97815	57.39379
METEOSAT-7	14	160	09/06/2014	42163.14767	0.00010482	9.08280	48.12975	69.22738	197.56363	57.59355
METEOSAT-7	14	167	16/06/2014	42164.42759	0.00010057	9.10190	48.09863	118.76638	155.13102	57.85944
METEOSAT-7	14	174	23/06/2014	42166.07931	0.00007087	9.11367	48.01634	121.80961	158.96257	57.83730
METEOSAT-7	14	181	30/06/2014	42166.80923	0.00005224	9.12777	47.99351	207.22430	80.36837	57.81239
METEOSAT-7	14	188	07/07/2014	42165.59143	0.00006194	9.13604	47.91541	66.69161	227.82029	57.81985
METEOSAT-7	14	195	14/07/2014	42165.57553	0.00010514	9.15026	47.89787	146.93869	154.49361	57.87330
METEOSAT-7	14	202	21/07/2014	42164.07326	0.00014399	9.16008	47.81310	141.09865	167.37350	57.96009
METEOSAT-7	14	209	28/07/2014	42166.45807	0.00015061	9.16891	47.78699	196.75620	118.65924	57.98867
METEOSAT-7	14	216	04/08/2014	42166.26850	0.00007578	9.17513	47.69620	164.14921	158.18471	57.90482
METEOSAT-7	14	223	11/08/2014	42164.71234	0.00021601	9.18489	47.66758	173.14172	156.10590	57.85802
METEOSAT-7	14	230	18/08/2014	42164.83053	0.00021278	9.19406	47.56346	172.39574	163.89641	57.84661
METEOSAT-7	14	237	25/08/2014	42163.47377	0.00023846	9.19967	47.51665	189.83502	153.50766	57.88191
METEOSAT-7	14	244	01/09/2014	42164.15650	0.00015735	9.20688	47.40271	175.38962	175.11433	57.94729
METEOSAT-7	14	251	08/09/2014	42165.86697	0.00030668	9.21488	47.34943	159.43227	197.8935	57.73065
METEOSAT-7	14	258	15/09/2014	42167.27738	0.00026863	9.22655	47.22668	160.42101	203.80071	57.51547
METEOSAT-7	14	265	22/09/2014	42164.95764	0.00028618	9.23263	47.15505	175.61115	195.51868	57.36623
METEOSAT-7	14	272	29/09/2014	42166.06742	0.00021539	9.24404	47.02533	160.84540	217.29819	57.27095
METEOSAT-7	14	279	06/10/2014	42163.32719	0.00037013	9.25338	46.95320	171.60132	213.54426	57.23428
METEOSAT-7	14	286	13/10/2014	42165.11768	0.00031374	9.27179	46.84332	175.92285	216.32615	57.27669
METEOSAT-7	14	293	20/10/2014	42162.53175	0.00034431	9.28047	46.76373	187.13685	212.24498	57.39971
METEOSAT-7	14	300	27/10/2014	42167.40466	0.00016749	9.29746	46.64292	185.08245	221.27319	57.34436
METEOSAT-7	14	307	03/11/2014	42165.27618	0.00031844	9.30923	46.57249	187.08580	226.12968	57.24777

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	14	314	10/11/2014	42166.32820	0.00026338	9.32984	46.47141	198.18307	221.99587	57.24526
METEOSAT-7	14	321	17/11/2014	42164.44185	0.00029367	9.34027	46.40371	206.11355	221.05408	57.32218
METEOSAT-7	14	328	24/11/2014	42164.49486	0.00020628	9.36031	46.31537	207.98686	226.24436	57.47060
METEOSAT-7	14	335	01/12/2014	42163.42572	0.00033851	9.37200	46.26125	200.10300	241.19078	57.66552
METEOSAT-7	14	342	08/12/2014	42167.24545	0.00023157	9.39241	46.19775	200.64663	247.53861	57.68519
METEOSAT-7	14	349	15/12/2014	42166.72035	0.00023649	9.40126	46.14730	203.66034	251.35631	57.65918
METEOSAT-7	14	356	22/12/2014	42165.45062	0.00015520	9.41953	46.09081	210.76612	251.14334	57.68602
METEOSAT-7	14	363	29/12/2014	42165.60311	0.00027881	9.42810	46.04623	197.79884	271.02089	57.73335
METEOSAT-7	15	5	05/01/2015	42164.16658	0.00022891	9.44443	46.00680	221.72030	254.08294	57.84639
METEOSAT-7	15	12	12/01/2015	42164.87736	0.00021218	9.44918	45.95435	217.91637	264.94040	57.99794
METEOSAT-7	15	19	19/01/2015	42162.42955	0.00015120	9.46315	45.90885	238.14681	251.81124	58.18340
METEOSAT-7	15	26	26/01/2015	42167.92962	0.00018375	9.46819	45.84920	188.06196	308.76648	58.09970
METEOSAT-7	15	33	02/02/2015	42165.64917	0.00011598	9.47977	45.80651	232.46890	271.17813	57.95947
METEOSAT-7	15	40	09/02/2015	42166.92314	0.00008302	9.48176	45.72971	212.17409	298.38529	57.85636
METEOSAT-7	15	47	16/02/2015	42164.10285	0.00004467	9.49279	45.66969	284.78638	232.72275	57.78831
METEOSAT-7	15	54	23/02/2015	42165.69154	0.00013375	9.49734	45.57709	193.12512	331.39876	57.73528
METEOSAT-7	15	61	02/03/2015	42163.18736	0.00009078	9.50757	45.51528	262.99269	268.58515	57.73986
METEOSAT-7	15	68	09/03/2015	42164.20092	0.00002760	9.51109	45.40682	247.42092	291.32137	57.79958
METEOSAT-7	15	75	16/03/2015	42165.78565	0.00005785	9.52273	45.33055	230.35695	315.28083	57.62482
METEOSAT-7	15	82	23/03/2015	42166.81799	0.00017029	9.53077	45.21223	190.18898	2.37716	57.44449
METEOSAT-7	15	89	30/03/2015	42164.82279	0.00009839	9.54264	45.14021	237.90383	321.60593	57.33468
METEOSAT-7	15	96	06/04/2015	42164.94613	0.00004779	9.55103	45.01661	181.58710	24.98525	57.30547
METEOSAT-7	15	103	13/04/2015	42164.02972	0.00002090	9.56521	44.94222	179.45194	34.18796	57.34877
METEOSAT-7	15	110	20/04/2015	42163.77392	0.00013326	9.57799	44.82145	170.44622	50.35244	57.45873
METEOSAT-7	15	117	27/04/2015	42166.90521	0.00010955	9.59206	44.75835	286.82380	300.82116	57.33791
METEOSAT-7	15	124	04/05/2015	42165.86525	0.00003749	9.60482	44.64484	357.17282	237.38309	57.25464
METEOSAT-7	15	131	11/05/2015	42166.35593	0.00003446	9.62013	44.59093	332.00771	269.45458	57.24868
METEOSAT-7	15	138	18/05/2015	42164.66945	0.00006615	9.63567	44.48867	164.39441	84.07248	57.31391
METEOSAT-7	15	145	25/05/2015	42164.95058	0.00005224	9.64933	44.44722	294.09957	321.36024	57.44554
METEOSAT-7	15	152	01/06/2015	42162.95323	0.00007541	9.66315	44.35636	73.97835	188.58877	57.65628
METEOSAT-7	15	159	08/06/2015	42164.48412	0.00003790	9.67639	44.32526	108.37553	161.29483	57.92985
METEOSAT-7	15	166	15/06/2015	42166.64276	0.00003163	9.69161	44.24486	208.60510	67.95373	57.93722

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	15	173	22/06/2015	42167.71442	0.00010138	9.70152	44.21693	298.38860	344.93000	57.86159
METEOSAT-7	15	180	29/06/2015	42165.38562	0.00005213	9.71379	44.14343	41.84346	248.33987	57.83648
METEOSAT-7	15	187	06/07/2015	42167.12441	0.00002345	9.72257	44.11815	235.03908	62.02041	57.85311
METEOSAT-7	15	194	13/07/2015	42164.06868	0.00009424	9.73532	44.04900	169.00824	135.02281	57.90526
METEOSAT-7	15	201	20/07/2015	42165.21392	0.00006047	9.74060	44.01655	249.24215	61.77447	57.98477
METEOSAT-7	15	208	27/07/2015	42163.29854	0.00006735	9.75012	43.94213	120.67284	197.42546	58.09419
METEOSAT-7	15	215	03/08/2015	42164.27842	0.00010975	9.75508	43.90566	183.67510	141.52286	58.23394
METEOSAT-7	15	222	10/08/2015	42161.90392	0.00017043	9.76596	43.82991	174.54566	157.84596	58.40431
METEOSAT-7	15	229	17/08/2015	42167.63475	0.00003633	9.76821	43.77386	291.16841	47.98206	58.14240
METEOSAT-7	15	236	24/08/2015	42166.66474	0.00006648	9.77704	43.68494	84.29044	261.70296	57.91573
METEOSAT-7	15	243	31/08/2015	42166.19852	0.00009685	9.78072	43.62127	186.70523	166.15951	57.73099
METEOSAT-7	15	250	07/09/2015	42165.14749	0.00012388	9.79245	43.53183	180.43015	179.38965	57.59709
METEOSAT-7	15	257	14/09/2015	42164.66951	0.00010120	9.79529	43.44731	222.56465	144.26412	57.52077
METEOSAT-7	15	264	21/09/2015	42164.71898	0.00007246	9.80657	43.34596	162.76622	211.13717	57.49774
METEOSAT-7	15	271	28/09/2015	42162.78337	0.00020638	9.81237	43.25917	201.28600	179.72692	57.53530
METEOSAT-7	15	278	05/10/2015	42167.21106	0.00010065	9.82755	43.16585	193.32862	194.56730	57.35776
METEOSAT-7	15	285	12/10/2015	42165.35302	0.00010271	9.83351	43.06485	236.73144	158.10498	57.24990
METEOSAT-7	15	292	19/10/2015	42166.18157	0.00003984	9.84885	42.96965	176.81375	224.98740	57.19413
METEOSAT-7	15	299	26/10/2015	42163.47669	0.00019703	9.85803	42.87837	214.26715	194.53952	57.20834
METEOSAT-7	15	306	02/11/2015	42165.13611	0.00014937	9.87660	42.80229	220.61849	195.24508	57.31391
METEOSAT-7	15	313	09/11/2015	42162.62513	0.00018902	9.88614	42.71064	244.38281	178.61429	57.50637
METEOSAT-7	15	320	16/11/2015	42167.70348	0.00004491	9.90382	42.64267	166.05955	263.79331	57.46309
METEOSAT-7	15	327	23/11/2015	42165.11429	0.00018623	9.91480	42.56557	215.36843	221.33850	57.42600
METEOSAT-7	15	334	30/11/2015	42166.85745	0.00012200	9.93428	42.53411	229.31260	214.27031	57.46832
METEOSAT-7	15	341	07/12/2015	42164.30667	0.00016347	9.94396	42.46045	252.53247	198.02646	57.57647
METEOSAT-7	15	348	14/12/2015	42165.06057	0.00007370	9.95990	42.42308	252.11301	205.43812	57.73740
METEOSAT-7	15	355	21/12/2015	42163.23221	0.00021503	9.96927	42.35946	237.31734	227.28703	57.92740
METEOSAT-7	15	362	28/12/2015	42166.91184	0.00010343	9.98323	42.33173	269.79196	201.67240	57.94537
METEOSAT-7	16	4	04/01/2016	42165.29944	0.00014176	9.99031	42.27120	279.01035	199.38229	57.98195
METEOSAT-7	16	11	11/01/2016	42165.02954	0.00008439	10.00153	42.24469	311.61113	173.72079	58.04248
METEOSAT-7	16	18	18/01/2016	42164.33079	0.00016404	10.00799	42.17704	257.98421	234.35956	58.10987
METEOSAT-7	16	25	25/01/2016	42163.74999	0.00017022	10.01639	42.15067	297.45193	201.93722	58.22605

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	16	32	01/02/2016	42166.55960	0.00011105	10.02083	42.07045	285.93714	220.41755	58.18260
METEOSAT-7	16	39	08/02/2016	42164.92703	0.00008701	10.02805	42.03200	332.75653	180.49908	58.09340
METEOSAT-7	16	46	15/02/2016	42165.46312	0.00012923	10.03411	41.94183	259.72736	260.51103	58.01303
METEOSAT-7	16	53	22/02/2016	42163.69235	0.00015475	10.03967	41.89302	313.88586	213.36758	57.98940
METEOSAT-7	16	60	29/02/2016	42164.64292	0.00012692	10.04499	41.78920	313.28288	221.10112	58.01325
METEOSAT-7	16	67	07/03/2016	42165.40009	0.00012765	10.05159	41.72929	314.26806	226.95015	57.78383
METEOSAT-7	16	74	14/03/2016	42166.83640	0.00017635	10.06085	41.61859	262.94655	285.18998	57.58716
METEOSAT-7	16	81	21/03/2016	42164.38021	0.00018833	10.06742	41.54930	309.20965	245.87143	57.46622
METEOSAT-7	16	88	28/03/2016	42165.67693	0.00013944	10.07703	41.43296	305.85640	256.28402	57.42233
METEOSAT-7	16	95	04/04/2016	42162.94630	0.00014103	10.08572	41.36343	336.78476	232.42057	57.44890
METEOSAT-7	16	102	11/04/2016	42167.44254	0.00017178	10.10008	41.25293	254.95302	321.20672	57.34646
METEOSAT-7	16	109	18/04/2016	42164.98553	0.00015661	10.10886	41.18368	306.78665	276.27076	57.25367
METEOSAT-7	16	116	25/04/2016	42165.83850	0.00009237	10.12290	41.07924	299.62066	290.44098	57.25774
METEOSAT-7	16	123	02/05/2016	42163.96023	0.00008142	10.13312	41.01879	331.58922	265.48385	57.33991
METEOSAT-7	16	130	09/05/2016	42164.67959	0.00011194	10.15060	40.92797	254.36265	349.79551	57.49054
METEOSAT-7	16	137	16/05/2016	42166.23289	0.00005568	10.16024	40.87148	355.89542	255.14563	57.49369
METEOSAT-7	16	144	23/05/2016	42166.08935	0.00005710	10.17542	40.79133	93.46276	164.48100	57.50977
METEOSAT-7	16	151	30/05/2016	42165.58773	0.00006808	10.18476	40.74612	89.37543	175.48598	57.58770
METEOSAT-7	16	158	06/06/2016	42164.91718	0.00009362	10.20198	40.68382	168.80066	103.04391	57.72041
METEOSAT-7	16	165	13/06/2016	42164.33747	0.00004915	10.20940	40.63855	56.87022	221.98581	57.89760
METEOSAT-7	16	172	20/06/2016	42163.03798	0.00012595	10.22314	40.58141	111.93383	174.01845	58.14095
METEOSAT-7	16	179	27/06/2016	42167.68727	0.00001578	10.22889	40.54222	125.18285	167.60624	58.12474
METEOSAT-7	16	186	04/07/2016	42165.62030	0.00010132	10.24302	40.49387	190.75401	108.88470	58.09412
METEOSAT-7	16	193	11/07/2016	42166.18868	0.00002088	10.24499	40.45594	323.62372	342.89592	58.08308
METEOSAT-7	16	200	18/07/2016	42164.04511	0.00010087	10.25713	40.39600	136.21698	177.27672	58.11604
METEOSAT-7	16	207	25/07/2016	42165.70176	0.00008009	10.25968	40.34471	169.82560	150.68457	58.17321
METEOSAT-7	16	214	01/08/2016	42162.75966	0.00016770	10.27013	40.29487	183.28596	144.29308	58.25759
METEOSAT-7	16	221	08/08/2016	42166.95602	0.00001927	10.27190	40.22773	349.81775	344.66162	58.13204
METEOSAT-7	16	228	15/08/2016	42164.64569	0.00010809	10.28001	40.16760	135.99819	205.39934	58.01102
METEOSAT-7	16	235	22/08/2016	42166.23941	0.00008555	10.28198	40.09182	182.71110	165.67389	57.92628
METEOSAT-7	16	242	29/08/2016	42163.26260	0.00016339	10.29127	40.03076	189.92216	165.49116	57.88597
METEOSAT-7	16	249	05/09/2016	42164.35864	0.00006141	10.29236	39.94681	212.92422	149.58863	57.88939

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-7	16	256	12/09/2016	42166.53657	0.00014138	10.30268	39.86460	127.78348	241.58397	57.65303
METEOSAT-7	16	263	19/09/2016	42167.14487	0.00010460	10.30736	39.76666	174.85108	201.39045	57.42946
METEOSAT-7	16	270	26/09/2016	42165.03360	0.00015339	10.31820	39.69773	184.52960	198.61466	57.27661
METEOSAT-7	16	277	03/10/2016	42165.38440	0.00006067	10.32465	39.59012	200.52184	189.61990	57.19814
METEOSAT-7	16	284	10/10/2016	42164.64746	0.00013825	10.33622	39.51513	161.42501	235.73317	57.19428
METEOSAT-7	16	291	17/10/2016	42163.73430	0.00017990	10.34542	39.41247	208.86219	195.39259	57.26961
METEOSAT-7	16	298	24/10/2016	42163.17880	0.00019291	10.35902	39.35163	208.45289	202.91627	57.43282
METEOSAT-7	16	305	31/10/2016	42166.30642	0.00005343	10.36965	39.25059	255.15330	163.18065	57.43388
METEOSAT-7	16	312	07/11/2016	42166.59625	0.00007453	10.38315	39.19245	166.44556	258.75756	57.40635
METEOSAT-7	16	319	14/11/2016	42164.37677	0.00016699	10.39546	39.10532	235.31962	196.82998	57.44965
METEOSAT-7	16	326	21/11/2016	42165.38154	0.00013609	10.40935	39.06596	236.22247	202.88807	57.57244
METEOSAT-7	16	333	28/11/2016	42163.44818	0.00014219	10.42146	38.98597	270.89815	175.27592	57.77017
METEOSAT-7	16	340	05/12/2016	42164.40778	0.00008236	10.43351	38.95172	233.88089	219.35817	58.01968
METEOSAT-7	16	347	12/12/2016	42165.74427	0.00014790	10.44532	38.88414	243.40074	216.72023	58.04705
METEOSAT-7	16	354	19/12/2016	42167.58191	0.00008602	10.45589	38.86312	252.14180	214.77522	58.02456
METEOSAT-7	16	361	26/12/2016	42164.94870	0.00012483	10.46599	38.79967	292.88162	180.93546	58.04727
METEOSAT-7	17	2	02/01/2017	42166.03036	0.00003495	10.47353	38.77606	270.22065	210.50819	58.10586
METEOSAT-7	17	9	09/01/2017	42163.62662	0.00018604	10.48236	38.71181	271.18929	216.52639	58.16950
METEOSAT-7	17	16	16/01/2017	42165.17526	0.00013511	10.48770	38.68816	296.47260	198.25884	58.27716
METEOSAT-7	17	23	23/01/2017	42162.76574	0.00019017	10.49496	38.62054	309.99198	191.85847	58.41503
METEOSAT-7	17	30	30/01/2017	42167.37568	0.00003060	10.49784	38.58308	251.48057	257.24641	58.31346
METEOSAT-7	17	37	06/02/2017	42165.87230	0.00016592	10.50547	38.51056	268.28601	247.28499	58.12073
METEOSAT-7	17	44	13/02/2017	42166.28146	0.00011374	10.50792	38.46300	306.30702	216.15231	57.97590
METEOSAT-7	17	51	20/02/2017	42164.99918	0.00014339	10.51447	38.37866	314.49492	214.94998	57.87444
METEOSAT-7	17	58	27/02/2017	42164.36185	0.00007435	10.51700	38.31845	340.57099	195.88697	57.81382
METEOSAT-7	17	65	06/03/2017	42164.04168	0.00016605	10.52620	38.22814	293.33654	250.19980	57.78366
METEOSAT-7	17	72	13/03/2017	42166.35611	0.00010519	10.52946	38.15617	316.22766	234.18588	57.57713
METEOSAT-7	17	79	20/03/2017	42166.50635	0.00010586	10.53927	38.06065	313.34275	243.99222	57.39978
METEOSAT-7	17	86	27/03/2017	42164.54947	0.00005829	10.54384	37.98467	3.66904	200.62032	57.29022
METEOSAT-7	17	93	03/04/2017	42165.38910	0.00013138	10.55729	37.89381	288.76651	282.52753	57.23578
METEOSAT-7	17	100	10/04/2017	42725.59138	0.00106719	10.56220	37.82151	312.15656	230.85336	22.36141

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	03	230	18/08/2003	42165.54504	0.00029390	1.25128	308.33723	155.78334	211.18456	-10.64377
METEOSAT-8	03	237	25/08/2003	42166.93443	0.00020779	1.23510	308.74071	151.38510	222.06969	-10.65436
METEOSAT-8	03	244	01/09/2003	42165.69610	0.00032920	1.22065	308.44168	151.27790	229.34410	-10.68682
METEOSAT-8	03	251	08/09/2003	42167.09292	0.00025819	1.20211	308.90507	151.23224	235.81725	-10.69642
METEOSAT-8	03	258	15/09/2003	42165.93535	0.00027230	1.19408	308.65160	156.28670	237.90205	-10.71060
METEOSAT-8	03	265	22/09/2003	42166.43115	0.00019850	1.18018	309.10326	155.68686	244.95193	-10.70870
METEOSAT-8	03	272	29/09/2003	42166.27209	0.00031699	1.17215	308.97237	151.17653	256.46474	-10.73646
METEOSAT-8	03	279	06/10/2003	42166.46941	0.00024732	1.15481	309.52983	154.14673	259.84006	-10.73265
METEOSAT-8	03	286	13/10/2003	42166.48126	0.00025255	1.15221	309.56771	153.31942	267.52499	-10.73589
METEOSAT-8	03	293	20/10/2003	42165.80717	0.00018929	1.13855	310.20199	157.50979	269.61431	-10.72062
METEOSAT-8	03	300	27/10/2003	42166.81866	0.00030740	1.13368	310.43001	148.01607	285.76270	-10.73628
METEOSAT-8	03	307	03/11/2003	42165.73824	0.00023202	1.11477	311.16394	155.00238	284.95837	-10.71894
METEOSAT-8	03	314	10/11/2003	42166.84220	0.00023944	1.11270	311.59120	147.46148	298.98201	-10.70716
METEOSAT-8	03	321	17/11/2003	42165.26739	0.00017946	1.09594	312.39665	155.12482	297.44089	-10.67799
METEOSAT-8	03	328	24/11/2003	42167.06155	0.00030251	1.08956	312.96967	142.67653	316.21582	-10.67673
METEOSAT-8	03	335	01/12/2003	42165.12536	0.00021666	1.06613	313.80679	152.47780	312.50501	-10.64796
METEOSAT-8	03	342	08/12/2003	42166.83555	0.00023458	1.06067	314.50371	140.41830	330.79256	-10.62167
METEOSAT-8	03	349	15/12/2003	42165.00566	0.00017730	1.03871	315.29420	148.29071	329.06965	-10.58085
METEOSAT-8	03	356	22/12/2003	42166.84705	0.00030151	1.02886	316.03090	136.87100	346.67112	-10.56157
METEOSAT-8	03	363	29/12/2003	42164.88615	0.00021070	1.00137	316.74011	147.19360	342.57518	-10.52536
METEOSAT-8	04	5	05/01/2004	42166.45544	0.00023566	0.99197	317.48682	133.69224	2.26840	-10.48634
METEOSAT-8	04	12	12/01/2004	42165.12568	0.00019024	0.96658	318.03726	140.36889	1.98916	-10.43852
METEOSAT-8	04	19	19/01/2004	42124.20290	0.00018216	0.95528	318.74830	116.82432	34.17919	-7.98215
METEOSAT-8	04	26	26/01/2004	42123.17062	0.00009396	0.92759	319.13906	129.65336	31.68788	-4.15446
METEOSAT-8	04	33	02/02/2004	42167.01341	0.00011414	0.91769	319.79871	36.74101	131.58484	-3.41053
METEOSAT-8	04	40	09/02/2004	42167.08054	0.00007940	0.89389	320.00420	24.98027	149.97978	-3.47123
METEOSAT-8	04	47	16/02/2004	42166.39615	0.00013385	0.88451	320.69111	70.35820	110.76868	-3.51776
METEOSAT-8	04	54	23/02/2004	42166.60225	0.00006003	0.86197	320.75311	41.57882	146.35628	-3.54782
METEOSAT-8	04	61	01/03/2004	42165.59897	0.00012668	0.85575	321.42815	43.58028	150.57964	-3.54807
METEOSAT-8	04	68	08/03/2004	42166.88819	0.00007423	0.83725	321.45137	54.58937	146.47075	-3.52470
METEOSAT-8	04	75	15/03/2004	42165.01068	0.00015303	0.83201	322.34600	75.27769	131.82955	-3.48282
METEOSAT-8	04	82	22/03/2004	42166.11402	0.00006322	0.81668	322.38227	66.04126	147.98443	-3.42783

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METEOSAT-8	04	89	29/03/2004	42164.40761	0.00013153	0.81443	323.31912	52.14289	167.93430	-3.33912
METEOSAT-8	04	96	05/04/2004	42166.26736	0.00008530	0.80154	323.48567	82.93719	143.98528	-3.22663
METEOSAT-8	04	103	12/04/2004	42166.58693	0.00010544	0.79829	324.84496	71.94631	160.42439	-3.31863
METEOSAT-8	04	110	19/04/2004	42168.06714	0.00001275	0.78864	325.12406	18.12222	220.75938	-3.42774
METEOSAT-8	04	117	26/04/2004	42166.34136	0.00008023	0.78701	326.50319	34.07955	210.24874	-3.50120
METEOSAT-8	04	124	03/05/2004	42167.74568	0.00004684	0.77679	326.98749	108.48333	142.20811	-3.55271
METEOSAT-8	04	131	10/05/2004	42165.50787	0.00011395	0.77186	328.84299	83.12946	172.57954	-3.57893
METEOSAT-8	04	138	17/05/2004	42166.81833	0.00001829	0.76375	329.46583	123.46866	138.50069	-3.59467
METEOSAT-8	04	145	24/05/2004	42165.64006	0.00006101	0.75943	331.20405	45.60884	221.54266	-3.57354
METEOSAT-8	04	152	31/05/2004	42165.84707	0.00008460	0.74893	331.94348	121.15472	152.19411	-3.53574
METEOSAT-8	04	159	07/06/2004	42164.78806	0.00011213	0.74009	334.12841	90.53739	187.58612	-3.47553
METEOSAT-8	04	166	14/06/2004	42165.34830	0.00003758	0.73144	334.95398	145.38999	138.88367	-3.39880
METEOSAT-8	04	173	21/06/2004	42165.06024	0.00004062	0.72250	336.86455	53.98399	235.39185	-3.28550
METEOSAT-8	04	180	28/06/2004	42166.65969	0.00004852	0.71119	337.67397	129.64628	165.74035	-3.36446
METEOSAT-8	04	187	05/07/2004	42167.11826	0.00004838	0.69833	339.94346	58.42613	241.50495	-3.45022
METEOSAT-8	04	194	12/07/2004	42166.50346	0.00003737	0.68932	340.78425	244.27532	61.64534	-3.51920
METEOSAT-8	04	201	19/07/2004	42167.11988	0.00005717	0.67680	342.64497	317.07074	353.85520	-3.55286
METEOSAT-8	04	208	26/07/2004	42165.32830	0.00005994	0.66641	343.33297	146.28698	170.82008	-3.58323
METEOSAT-8	04	215	02/08/2004	42166.97480	0.00002101	0.65160	345.47230	23.00314	298.86654	-3.58116
METEOSAT-8	04	222	09/08/2004	42165.19795	0.00005780	0.64479	346.16131	233.63699	94.46042	-3.56406
METEOSAT-8	04	229	16/08/2004	42166.43215	0.00006918	0.63167	347.81374	294.27867	39.11753	-3.51270
METEOSAT-8	04	236	23/08/2004	42164.45575	0.00006088	0.62559	348.34028	164.96829	174.85039	-3.46336
METEOSAT-8	04	243	30/08/2004	42166.47706	0.00003149	0.61193	350.21998	294.57062	50.35734	-3.37432
METEOSAT-8	04	250	06/09/2004	42164.16897	0.00007816	0.61073	350.77969	236.18093	115.19032	-3.27104
METEOSAT-8	04	257	13/09/2004	42168.12767	0.00009391	0.60022	352.25295	322.21092	34.51662	-3.34133
METEOSAT-8	04	264	20/09/2004	42166.52645	0.00002495	0.60160	352.78360	92.99590	269.99226	-3.44979
METEOSAT-8	04	271	27/09/2004	42167.99382	0.00006978	0.59163	354.50421	330.19116	37.91346	-3.51259
METEOSAT-8	04	278	04/10/2004	42166.14489	0.00005562	0.59785	355.17748	285.69111	88.59071	-3.56178
METEOSAT-8	04	285	11/10/2004	42166.76496	0.00010723	0.59175	356.68660	307.85707	71.79985	-3.57736
METEOSAT-8	04	292	18/10/2004	42166.01753	0.00001043	0.60069	357.56891	30.59801	355.05641	-3.59725
METEOSAT-8	04	299	25/10/2004	42166.34084	0.00008905	0.59490	359.36100	304.58357	86.20391	-3.57178
METEOSAT-8	04	306	01/11/2004	42165.63449	0.00007429	0.60723	0.44460	288.99737	107.64843	-3.52953

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METEOSAT-8	04	313	08/11/2004	42165.14261	0.00012662	0.60420	2.17646	297.02802	104.85950	-3.45560
METEOSAT-8	04	320	15/11/2004	42165.00556	0.00003851	0.62014	3.65295	349.24132	58.18288	-3.34202
METEOSAT-8	04	327	22/11/2004	42164.00091	0.00012334	0.61631	5.64373	296.75585	115.74019	-3.17899
METEOSAT-8	04	334	29/11/2004	42168.04197	0.00002101	0.63072	7.19762	353.85685	63.90199	-3.26186
METEOSAT-8	04	341	06/12/2004	42166.50966	0.00006816	0.62754	9.11612	307.12838	115.51334	-3.35993
METEOSAT-8	04	348	13/12/2004	42167.90496	0.00007193	0.64206	10.99107	60.61259	6.96234	-3.45127
METEOSAT-8	04	355	20/12/2004	42165.94364	0.00006862	0.63743	13.07365	298.79616	133.53273	-3.51410
METEOSAT-8	04	362	27/12/2004	42167.31443	0.00003857	0.64985	14.89295	346.50194	90.87523	-3.54599
METEOSAT-8	05	3	03/01/2005	42165.33018	0.00007914	0.64437	16.77739	308.57697	133.80357	-3.55746
METEOSAT-8	05	10	10/01/2005	42167.08058	0.00008379	0.65704	18.74051	40.73144	46.58848	-3.55435
METEOSAT-8	05	17	17/01/2005	42164.84617	0.00008532	0.65060	20.62216	298.04637	154.30745	-3.53805
METEOSAT-8	05	24	24/01/2005	42166.35372	0.00005578	0.66035	22.41423	344.23430	113.28312	-3.48166
METEOSAT-8	05	31	31/01/2005	42164.63524	0.00008118	0.65290	23.89931	317.23389	145.76892	-3.41039
METEOSAT-8	05	38	07/02/2005	42165.88446	0.00009961	0.66410	25.62810	26.72211	81.54567	-3.31592
METEOSAT-8	05	45	14/02/2005	42166.55621	0.00007866	0.65807	26.97562	262.56674	211.16613	-3.40254
METEOSAT-8	05	52	21/02/2005	42167.43713	0.00002512	0.66701	28.47852	303.76521	175.29700	-3.46967
METEOSAT-8	05	59	28/02/2005	42166.62969	0.00003844	0.66109	29.35887	286.12491	198.89890	-3.52694
METEOSAT-8	05	66	07/03/2005	42166.79439	0.00006635	0.67346	30.75845	36.63536	93.86123	-3.55406
METEOSAT-8	05	73	14/03/2005	42166.17165	0.00006137	0.67151	31.45598	261.24911	235.41506	-3.58833
METEOSAT-8	05	80	21/03/2005	42165.94880	0.00003399	0.68286	32.65474	330.70951	171.67632	-3.56748
METEOSAT-8	05	87	28/03/2005	42166.36443	0.00001278	0.68246	33.01596	316.57541	192.37716	-3.53900
METEOSAT-8	05	94	04/04/2005	42165.24853	0.00008096	0.69839	34.26346	33.96078	120.70603	-3.47704
METEOSAT-8	05	101	11/04/2005	42165.73598	0.00004158	0.70343	34.53858	250.89273	270.45408	-3.42166
METEOSAT-8	05	108	18/04/2005	42164.41962	0.00004331	0.71857	35.66338	351.70171	175.53190	-3.30999
METEOSAT-8	05	115	25/04/2005	42165.84943	0.00002020	0.72547	35.84860	80.69359	93.37411	-3.19054
METEOSAT-8	05	122	02/05/2005	42166.78184	0.00003531	0.74445	37.22094	356.69545	182.81571	-3.27486
METEOSAT-8	05	129	09/05/2005	42168.05909	0.00009922	0.75631	37.44566	232.61563	313.44727	-3.39840
METEOSAT-8	05	136	16/05/2005	42166.21743	0.00005166	0.77325	38.71419	276.30120	275.32165	-3.47011
METEOSAT-8	05	143	23/05/2005	42167.89520	0.00004625	0.78539	39.01101	197.70897	0.45378	-3.53341
METEOSAT-8	05	150	30/05/2005	42165.43412	0.00003256	0.80447	40.61030	28.61935	174.81147	-3.56627
METEOSAT-8	05	157	06/06/2005	42167.01066	0.00009383	0.82006	40.98060	217.85318	352.08174	-3.59189
METEOSAT-8	05	164	13/06/2005	42165.34537	0.00003761	0.83526	42.41812	259.56183	315.85318	-3.57432

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	05	171	20/06/2005	42165.54221	0.00006735	0.79035	38.89487	185.20721	40.70534	-3.49934
METEOSAT-8	05	178	27/06/2005	42163.91774	0.00001530	0.58437	338.20062	156.88645	136.72488	-3.39081
METEOSAT-8	05	185	04/07/2005	42165.16240	0.00011292	0.58251	339.86938	270.81130	28.15380	-3.26767
METEOSAT-8	05	192	11/07/2005	42167.12826	0.00005629	0.56506	341.76075	5.18342	298.72757	-3.33000
METEOSAT-8	05	199	18/07/2005	42166.97051	0.00001760	0.56230	343.22100	181.84078	127.41618	-3.42322
METEOSAT-8	05	206	25/07/2005	42166.42423	0.00003619	0.54229	345.43131	61.27551	252.60114	-3.49301
METEOSAT-8	05	213	01/08/2005	42166.73282	0.00007524	0.54109	347.14072	279.48503	39.53498	-3.53984
METEOSAT-8	05	220	08/08/2005	42166.69106	0.00005437	0.52374	348.71552	330.91771	353.40510	-3.56190
METEOSAT-8	05	227	15/08/2005	42165.49261	0.00003739	0.52322	350.10008	208.38561	121.44387	-3.57023
METEOSAT-8	05	234	22/08/2005	42166.43518	0.00002852	0.50550	351.96693	324.27113	10.60550	-3.55605
METEOSAT-8	05	241	29/08/2005	42165.39068	0.00010124	0.50762	353.62517	264.16366	75.99554	-3.51489
METEOSAT-8	05	248	05/09/2005	42166.17067	0.00007356	0.49392	354.81045	304.56920	41.36364	-3.45567
METEOSAT-8	05	255	12/09/2005	42164.33596	0.00005994	0.49841	356.17430	227.16396	124.38170	-3.37860
METEOSAT-8	05	262	19/09/2005	42166.26510	0.00007454	0.48642	357.68432	293.78772	63.24806	-3.27822
METEOSAT-8	05	269	26/09/2005	42166.73379	0.00006957	0.49396	359.40180	262.63366	99.51139	-3.35115
METEOSAT-8	05	276	03/10/2005	42167.95796	0.00006659	0.48648	0.39822	329.50873	38.44835	-3.44235
METEOSAT-8	05	283	10/10/2005	42166.05181	0.00002432	0.49736	2.01959	213.72459	159.44114	-3.51203
METEOSAT-8	05	290	17/10/2005	42167.97898	0.00007835	0.49245	3.40758	310.74998	67.88120	-3.55819
METEOSAT-8	05	297	24/10/2005	42165.64673	0.00009855	0.50529	5.42424	260.48315	123.01480	-3.57457
METEOSAT-8	05	304	31/10/2005	42166.72992	0.00008901	0.50388	6.56952	308.58698	80.66361	-3.57622
METEOSAT-8	05	311	07/11/2005	42165.31845	0.00004286	0.51934	8.70547	252.48897	141.54748	-3.55414
METEOSAT-8	05	318	14/11/2005	42166.39076	0.00011755	0.52016	10.23255	292.21354	107.23846	-3.51107
METEOSAT-8	05	325	21/11/2005	42164.86642	0.00011912	0.53533	12.61317	261.31225	142.73417	-3.43585
METEOSAT-8	05	332	28/11/2005	42165.16554	0.00011627	0.53702	14.03659	295.88366	113.72911	-3.34556
METEOSAT-8	05	339	05/12/2005	42164.74879	0.00005908	0.55368	16.61372	265.54238	148.50870	-3.22985
METEOSAT-8	05	346	12/12/2005	42167.50549	0.00008402	0.55679	18.27187	282.97770	136.22173	-3.32284
METEOSAT-8	05	353	19/12/2005	42167.26336	0.00006427	0.57050	20.85214	244.54115	178.88487	-3.41565
METEOSAT-8	05	360	26/12/2005	42166.47513	0.00007273	0.57190	22.34982	298.56547	130.18327	-3.49458
METEOSAT-8	06	2	02/01/2006	42167.22940	0.00000386	0.58646	25.07267	134.27291	298.59921	-3.54806
METEOSAT-8	06	9	09/01/2006	42165.94353	0.00010865	0.58940	26.59775	279.76477	158.43641	-3.59316
METEOSAT-8	06	16	16/01/2006	42166.84333	0.00005807	0.59932	29.06180	255.32203	187.31098	-3.59685
METEOSAT-8	06	23	23/01/2006	42165.17615	0.00008692	0.59921	30.27212	296.76443	151.56453	-3.58968

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	06	30	30/01/2006	42166.76852	0.00001517	0.61093	32.75545	10.34514	82.43354	-3.55614
METEOSAT-8	06	37	06/02/2006	42164.71831	0.00012045	0.61385	33.83191	279.55664	179.07904	-3.52185
METEOSAT-8	06	44	13/02/2006	42166.24996	0.00005071	0.62052	35.89918	269.34828	194.20124	-3.44010
METEOSAT-8	06	51	20/02/2006	42164.27818	0.00008872	0.62098	36.50860	299.49769	170.43338	-3.34819
METEOSAT-8	06	58	27/02/2006	42165.90345	0.00003092	0.63117	38.50075	6.93631	108.02327	-3.22694
METEOSAT-8	06	65	06/03/2006	42166.70562	0.00011310	0.63735	38.95377	245.56853	235.72945	-3.33465
METEOSAT-8	06	72	13/03/2006	42168.11821	0.00006033	0.64366	40.50309	208.20729	278.35012	-3.42531
METEOSAT-8	06	79	20/03/2006	42166.56325	0.00005619	0.64884	40.51776	245.03690	248.32435	-3.50604
METEOSAT-8	06	86	27/03/2006	42167.45820	0.00003346	0.66032	42.04829	140.94936	357.73046	-3.55651
METEOSAT-8	06	93	03/04/2006	42166.04860	0.00010308	0.67279	42.05078	240.11139	265.41068	-3.61122
METEOSAT-8	06	100	10/04/2006	42166.64923	0.00004167	0.68177	43.24441	206.57908	304.64759	-3.61268
METEOSAT-8	06	107	17/04/2006	42166.08332	0.00004613	0.69453	43.01492	228.36967	289.99542	-3.60340
METEOSAT-8	06	114	24/04/2006	42165.80424	0.00003388	0.70838	44.34742	125.93140	38.03966	-3.56487
METEOSAT-8	06	121	01/05/2006	42165.53749	0.00009547	0.72823	44.30776	228.15724	302.79323	-3.52506
METEOSAT-8	06	128	08/05/2006	42164.94313	0.00002260	0.73990	45.44801	188.16195	348.63637	-3.43697
METEOSAT-8	06	135	15/05/2006	42165.58077	0.00004847	0.75941	45.37738	202.54445	341.32689	-3.33468
METEOSAT-8	06	142	22/05/2006	42166.86743	0.00003299	0.77411	46.74672	234.51074	314.91427	-3.31182
METEOSAT-8	06	149	29/05/2006	42167.72226	0.00014321	0.79858	46.95702	235.80310	320.20254	-3.42116
METEOSAT-8	06	156	05/06/2006	42166.17269	0.00005366	0.81028	48.16378	251.45805	310.16929	-3.49277
METEOSAT-8	06	163	12/06/2006	42167.66280	0.00009507	0.83296	48.40200	228.72921	339.50779	-3.54504
METEOSAT-8	06	170	19/06/2006	42165.40759	0.00004068	0.84566	49.82106	203.12219	10.56335	-3.57749
METEOSAT-8	06	177	26/06/2006	42166.96251	0.00014898	0.87057	50.29476	223.60963	356.49127	-3.58843
METEOSAT-8	06	184	03/07/2006	42165.11893	0.00004977	0.87914	51.49701	229.88163	355.92942	-3.57576
METEOSAT-8	06	191	10/07/2006	42166.67121	0.00010671	0.90124	51.95095	213.97186	18.32387	-3.53683
METEOSAT-8	06	198	17/07/2006	42164.36361	0.00006919	0.90982	53.25439	190.18398	47.75899	-3.48557
METEOSAT-8	06	205	24/07/2006	42165.98644	0.00016559	0.93240	53.86094	213.06521	31.25348	-3.40264
METEOSAT-8	06	212	31/07/2006	42164.51430	0.00006991	0.93637	54.85173	210.98385	39.33756	-3.30812
METEOSAT-8	06	219	07/08/2006	42165.26470	0.00012716	0.95619	55.32775	201.81304	55.05953	-3.17986
METEOSAT-8	06	226	14/08/2006	42166.81440	0.00004567	0.96079	56.30690	220.37409	42.32237	-3.27558
METEOSAT-8	06	233	21/08/2006	42167.80618	0.00013692	0.98069	56.86005	221.81687	47.12760	-3.37320
METEOSAT-8	06	240	28/08/2006	42167.11084	0.00005778	0.98160	57.45526	248.04198	27.11076	-3.46820
METEOSAT-8	06	247	04/09/2006	42165.97751	0.00011239	0.52421	324.99442	312.62702	61.88400	-3.47168

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	06	254	11/09/2006	42165.92013	0.00011075	0.51198	325.18944	320.43325	60.79240	-3.46163
METEOSAT-8	06	261	18/09/2006	42165.73527	0.00018703	0.50194	327.21693	311.53724	74.61280	-3.40949
METEOSAT-8	06	268	25/09/2006	42165.92944	0.00011344	0.49652	327.25675	331.05365	62.00800	-3.35748
METEOSAT-8	06	275	02/10/2006	42164.45206	0.00014509	0.49074	329.40817	302.43647	95.46832	-3.26256
METEOSAT-8	06	282	09/10/2006	42168.33416	0.00010346	0.48647	330.04236	331.63967	72.49656	-3.29635
METEOSAT-8	06	289	16/10/2006	42166.83250	0.00016323	0.47918	332.54686	308.39598	100.04513	-3.38653
METEOSAT-8	06	296	23/10/2006	42167.74741	0.00009947	0.48000	333.20876	340.04676	74.54335	-3.47498
METEOSAT-8	06	303	30/10/2006	42165.77123	0.00012305	0.47597	335.97204	300.13463	118.54620	-3.52052
METEOSAT-8	06	310	06/11/2006	42167.71245	0.00014728	0.47724	337.34597	323.85870	100.30647	-3.56159
METEOSAT-8	06	317	13/11/2006	42165.44748	0.00019897	0.47087	340.42489	301.35524	126.62948	-3.56271
METEOSAT-8	06	324	20/11/2006	42166.70072	0.00013241	0.47454	341.82878	327.71033	105.77484	-3.55771
METEOSAT-8	06	331	27/11/2006	42164.83413	0.00015667	0.46981	345.16600	295.50288	141.58800	-3.51437
METEOSAT-8	06	338	04/12/2006	42166.47815	0.00018518	0.47350	347.16752	314.75079	127.28851	-3.46383
METEOSAT-8	06	345	11/12/2006	42164.39349	0.00022186	0.46613	350.58612	295.43152	150.17599	-3.37661
METEOSAT-8	06	352	18/12/2006	42167.57616	0.00011342	0.46991	352.41748	325.68264	124.92234	-3.44715
METEOSAT-8	06	359	25/12/2006	42166.41164	0.00012537	0.46300	356.03026	287.20861	166.61557	-3.51480
METEOSAT-8	07	1	01/01/2007	42167.11660	0.00016231	0.46740	358.25502	308.89184	149.54990	-3.57189
METEOSAT-8	07	8	08/01/2007	42166.02420	0.00017291	0.45830	1.58122	289.64931	172.34236	-3.59538
METEOSAT-8	07	15	15/01/2007	42166.12279	0.00013840	0.46162	3.36917	318.15758	148.93854	-3.60238
METEOSAT-8	07	22	22/01/2007	42166.06953	0.00012932	0.45331	6.82076	284.07159	186.48623	-3.58871
METEOSAT-8	07	29	29/01/2007	42165.58533	0.00017938	0.45895	8.82533	302.61400	172.86707	-3.56033
METEOSAT-8	07	36	05/02/2007	42165.77988	0.00015911	0.44956	11.60987	287.79012	191.86551	-3.50077
METEOSAT-8	07	43	12/02/2007	42164.72411	0.00015429	0.45438	12.93720	313.72840	171.57959	-3.42046
METEOSAT-8	07	50	19/02/2007	42165.78465	0.00012087	0.44727	15.81554	280.58290	208.84101	-3.32579
METEOSAT-8	07	57	26/02/2007	42166.77182	0.00012430	0.45668	17.35155	295.73953	198.99605	-3.37759
METEOSAT-8	07	64	05/03/2007	42167.98940	0.00008176	0.44999	19.32913	275.15500	224.41661	-3.46349
METEOSAT-8	07	71	12/03/2007	42166.11503	0.00009812	0.45946	20.13097	316.41609	189.19075	-3.52589
METEOSAT-8	07	78	19/03/2007	42167.74887	0.00005924	0.45651	22.29385	252.03214	258.26007	-3.57722
METEOSAT-8	07	85	26/03/2007	42165.55379	0.00012118	0.47221	23.48945	294.42020	221.54575	-3.60745
METEOSAT-8	07	92	02/04/2007	42167.16314	0.00006137	0.47085	24.80426	276.97042	244.58198	-3.60581
METEOSAT-8	07	99	09/04/2007	42165.18396	0.00009298	0.48680	25.44112	315.38767	212.45483	-3.57846
METEOSAT-8	07	106	16/04/2007	42166.58145	0.00004928	0.48929	27.11556	245.40584	287.69967	-3.54070

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	07	113	23/04/2007	42164.56501	0.00011114	0.51131	28.36479	290.87294	247.94438	-3.47946
METEOSAT-8	07	120	30/04/2007	42165.79686	0.00004111	0.51554	29.42958	282.54432	262.20017	-3.38714
METEOSAT-8	07	127	07/05/2007	42164.46109	0.00007940	0.53663	30.34001	311.14808	239.70630	-3.26667
METEOSAT-8	07	134	14/05/2007	42167.86277	0.00009220	0.54328	31.82714	188.97521	7.23656	-3.32193
METEOSAT-8	07	141	21/05/2007	42166.78012	0.00009066	0.56859	33.36793	237.78689	323.67944	-3.42657
METEOSAT-8	07	148	28/05/2007	42167.18233	0.00006236	0.57590	34.43193	179.25828	27.95549	-3.51483
METEOSAT-8	07	155	04/06/2007	42166.96622	0.00005322	0.59862	35.72881	221.93953	350.81761	-3.57450
METEOSAT-8	07	162	11/06/2007	42166.29325	0.00010328	0.60645	37.14389	179.32438	38.86730	-3.62452
METEOSAT-8	07	169	18/06/2007	42166.45224	0.00010473	0.63096	38.89541	220.09294	3.22475	-3.64696
METEOSAT-8	07	176	25/06/2007	42165.61334	0.00007317	0.63818	39.95266	160.91080	68.24461	-3.65148
METEOSAT-8	07	183	02/07/2007	42166.78994	0.00007000	0.65915	41.47088	207.33398	27.21436	-3.64009
METEOSAT-8	07	190	09/07/2007	42165.06112	0.00011686	0.66588	42.68250	173.24555	67.00586	-3.62477
METEOSAT-8	07	197	16/07/2007	42166.23682	0.00012349	0.68650	44.45978	209.87080	35.54932	-3.57844
METEOSAT-8	07	204	23/07/2007	42164.62002	0.00008785	0.69189	45.29637	155.76006	95.77965	-3.52142
METEOSAT-8	07	211	30/07/2007	42166.26396	0.00010108	0.70927	46.79943	198.40276	58.62834	-3.42640
METEOSAT-8	07	218	06/08/2007	42163.91294	0.00014360	0.71461	47.61940	172.69780	90.51243	-3.32632
METEOSAT-8	07	225	13/08/2007	42168.10713	0.00010202	0.73064	49.18823	219.01558	49.46312	-3.38827
METEOSAT-8	07	232	20/08/2007	42166.35568	0.00005167	0.73462	49.60389	146.84902	128.02261	-3.47859
METEOSAT-8	07	239	27/08/2007	42167.83051	0.00008432	0.74906	50.86403	207.88890	72.57347	-3.52687
METEOSAT-8	07	246	03/09/2007	42165.64548	0.00011213	0.75521	51.14839	178.32651	108.70445	-3.57275
METEOSAT-8	07	253	10/09/2007	42167.07720	0.00013108	0.76843	52.36100	212.46754	80.23933	-3.58345
METEOSAT-8	07	260	17/09/2007	42165.79434	0.00006898	0.77426	52.26347	172.29877	127.39864	-3.58937
METEOSAT-8	07	267	24/09/2007	42166.26837	0.00012574	0.78818	53.19567	200.68602	105.01575	-3.55204
METEOSAT-8	07	274	01/10/2007	42165.08989	0.00013761	0.79910	52.99813	187.68767	125.14958	-3.51328
METEOSAT-8	07	281	08/10/2007	42165.72183	0.00016175	0.81274	53.88296	210.98799	107.93865	-3.43857
METEOSAT-8	07	288	15/10/2007	42164.79506	0.00010079	0.78414	51.47816	195.86753	132.47633	-3.32598
METEOSAT-8	07	295	22/10/2007	42166.73413	0.00011876	0.50779	322.79954	282.86940	141.05697	-3.32498
METEOSAT-8	07	302	29/10/2007	42167.05283	0.00010685	0.51119	324.69193	277.34639	151.50838	-3.40356
METEOSAT-8	07	309	05/11/2007	42166.47098	0.00014057	0.49780	326.45234	299.61596	134.33486	-3.44649
METEOSAT-8	07	316	12/11/2007	42166.90693	0.00006006	0.50288	328.42405	281.15905	157.69073	-3.47514
METEOSAT-8	07	323	19/11/2007	42165.14476	0.00015656	0.49016	330.53994	284.03777	159.60207	-3.46867
METEOSAT-8	07	330	26/11/2007	42166.68303	0.00011632	0.49442	333.25123	285.43473	162.40936	-3.45253

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METEOSAT-8	07	337	03/12/2007	42164.93198	0.00016577	0.48058	335.45373	297.68297	154.90477	-3.40588
METEOSAT-8	07	344	10/12/2007	42166.05879	0.00007478	0.48447	338.04148	295.61148	161.35643	-3.33738
METEOSAT-8	07	351	17/12/2007	42164.02847	0.00017779	0.47027	340.43762	283.37315	178.19098	-3.24457
METEOSAT-8	07	358	24/12/2007	42168.47129	0.00006297	0.47358	343.58627	288.28842	176.94507	-3.32608
METEOSAT-8	07	365	31/12/2007	42166.18103	0.00011606	0.45872	345.88381	298.83018	170.91648	-3.41489
METEOSAT-8	08	7	07/01/2008	42167.50966	0.00003431	0.46094	348.68358	336.18239	137.60373	-3.47518
METEOSAT-8	08	14	14/01/2008	42165.85595	0.00012165	0.44590	350.95747	280.22838	198.13426	-3.52439
METEOSAT-8	08	21	21/01/2008	42167.29346	0.00006930	0.44868	354.14934	300.73502	181.31358	-3.54615
METEOSAT-8	08	28	28/01/2008	42165.43217	0.00010779	0.43476	356.03989	300.96479	186.08821	-3.55074
METEOSAT-8	08	35	04/02/2008	42166.39157	0.00005277	0.43732	358.63274	345.01276	146.37136	-3.52633
METEOSAT-8	08	42	11/02/2008	42165.62432	0.00011336	0.42471	0.40995	277.90922	218.61274	-3.51078
METEOSAT-8	08	49	18/02/2008	42165.96902	0.00007564	0.42909	3.33544	308.03893	192.50963	-3.45837
METEOSAT-8	08	56	25/02/2008	42165.23958	0.00008590	0.41980	4.52740	302.15468	204.16764	-3.39213
METEOSAT-8	08	63	03/03/2008	42166.72242	0.00009174	0.42549	6.74669	327.53333	183.44344	-3.41799
METEOSAT-8	08	70	10/03/2008	42167.05317	0.00013633	0.41879	7.90602	275.63927	241.01782	-3.47782
METEOSAT-8	08	77	17/03/2008	42166.13056	0.00011274	0.42757	10.54809	304.23128	216.66779	-3.49345
METEOSAT-8	08	84	24/03/2008	42166.64329	0.00009744	0.42604	11.12870	293.67293	233.54285	-3.49567
METEOSAT-8	08	91	31/03/2008	42165.27190	0.00009524	0.43661	13.13505	332.65233	199.49294	-3.45947
METEOSAT-8	08	98	07/04/2008	42128.30512	0.00013411	0.43801	13.94518	227.67176	312.79804	-1.22446
METEOSAT-8	08	105	14/04/2008	42126.09870	0.00006385	0.45144	16.55637	257.25668	291.02594	2.29970
METEOSAT-8	08	112	21/04/2008	42127.38566	0.00007509	0.45816	16.99807	215.53958	342.75654	5.85524
METEOSAT-8	08	119	28/04/2008	42125.06135	0.00001844	0.47243	19.07642	275.33454	291.40075	9.47291
METEOSAT-8	08	126	05/05/2008	42169.02641	0.00010077	0.48071	19.91501	26.19099	186.72169	9.58929
METEOSAT-8	08	133	12/05/2008	42166.58812	0.00019076	0.49687	22.64720	17.89231	199.04044	9.44170
METEOSAT-8	08	140	19/05/2008	42167.49039	0.00015925	0.50890	23.29297	34.35243	188.73955	9.34720
METEOSAT-8	08	147	26/05/2008	42165.79925	0.00020886	0.52387	25.54526	25.30185	202.41209	9.32169
METEOSAT-8	08	154	02/06/2008	42165.96437	0.00010639	0.53564	26.51501	31.30811	202.34709	9.33322
METEOSAT-8	08	161	09/06/2008	42164.46559	0.00018530	0.55125	29.30002	16.20102	221.64461	9.40889
METEOSAT-8	08	168	16/06/2008	42167.77113	0.00009376	0.56498	30.11328	20.23064	223.57986	9.28758
METEOSAT-8	08	175	23/06/2008	42167.19792	0.00012803	0.57758	32.40861	4.01878	244.29952	9.19110
METEOSAT-8	08	182	30/06/2008	42166.16700	0.00003730	0.58978	33.36233	1.41054	252.79830	9.13605
METEOSAT-8	08	189	07/07/2008	42165.93435	0.00011705	0.60206	35.96346	348.47568	270.03224	9.13672

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	08	196	14/07/2008	42164.84520	0.00008589	0.61488	36.73375	25.92670	238.76803	9.19462
METEOSAT-8	08	203	21/07/2008	42165.43347	0.00010179	0.62350	38.86310	353.79599	275.79116	9.31696
METEOSAT-8	08	210	28/07/2008	42163.27893	0.00002052	0.63491	39.58421	16.52057	259.41200	9.48436
METEOSAT-8	08	217	04/08/2008	42164.10189	0.00010043	0.64299	41.76560	337.08871	303.78104	9.70360
METEOSAT-8	08	224	11/08/2008	42167.88427	0.00006877	0.65479	42.26463	188.83667	98.33932	9.60982
METEOSAT-8	08	231	18/08/2008	42169.16901	0.00009567	0.65992	43.99219	230.35753	61.81394	9.43355
METEOSAT-8	08	238	25/08/2008	42166.41085	0.00014017	0.67199	44.32253	196.69567	101.91512	9.30408
METEOSAT-8	08	245	01/09/2008	42167.67059	0.00011092	0.67718	45.89622	235.31249	68.54361	9.22371
METEOSAT-8	08	252	08/09/2008	42165.46097	0.00008985	0.68990	46.00075	189.59520	121.03424	9.20231
METEOSAT-8	08	259	15/09/2008	42166.59100	0.00013196	0.69431	47.18947	220.86097	95.51996	9.24308
METEOSAT-8	08	266	22/09/2008	42164.01447	0.00016561	0.71028	47.15459	196.96400	126.43980	9.33160
METEOSAT-8	08	273	29/09/2008	42165.02993	0.00013326	0.71593	48.10619	229.04279	100.44743	9.47003
METEOSAT-8	08	280	06/10/2008	42166.80405	0.00003772	0.49667	326.82266	234.13374	183.51467	9.44225
METEOSAT-8	08	287	13/10/2008	42166.89921	0.00009089	0.48638	327.69965	300.54508	123.07048	9.38711
METEOSAT-8	08	294	20/10/2008	42165.35804	0.00010629	0.49031	330.15165	270.32201	157.73564	9.38175
METEOSAT-8	08	301	27/10/2008	42165.58205	0.00008335	0.48266	331.29608	319.91334	113.94660	9.42915
METEOSAT-8	08	308	03/11/2008	42164.71923	0.00004182	0.48743	333.79043	269.81793	168.55893	9.54100
METEOSAT-8	08	315	10/11/2008	42163.48517	0.00013759	0.48030	335.20528	295.03377	148.99479	9.70827
METEOSAT-8	08	322	17/11/2008	42168.44202	0.00017766	0.48512	338.47742	234.48754	213.01124	9.55106
METEOSAT-8	08	329	24/11/2008	42167.52824	0.00011346	0.47995	340.11986	250.55933	202.02098	9.37571
METEOSAT-8	08	336	01/12/2008	42167.60988	0.00011726	0.48370	343.17304	215.94658	240.37247	9.26811
METEOSAT-8	08	343	08/12/2008	42165.51773	0.00018018	0.47710	344.95160	253.09386	208.28472	9.20684
METEOSAT-8	08	350	15/12/2008	42166.71613	0.00015426	0.48049	348.68208	230.60548	233.94080	9.20536
METEOSAT-8	08	357	22/12/2008	42164.64227	0.00010804	0.47563	350.52366	254.51492	215.13831	9.25449
METEOSAT-8	08	364	29/12/2008	42165.40310	0.00009140	0.47670	353.76093	212.22425	261.21023	9.37339
METEOSAT-8	09	5	05/01/2009	42163.10981	0.00016965	0.46975	355.49087	251.63859	227.12156	9.52954
METEOSAT-8	09	12	12/01/2009	42164.78163	0.00011942	0.47138	359.19756	224.17797	257.99925	9.75363
METEOSAT-8	09	19	19/01/2009	42167.80149	0.00004961	0.46690	0.80494	55.04666	72.32493	9.65593
METEOSAT-8	09	26	26/01/2009	42168.74105	0.00010061	0.46694	4.00559	88.86253	42.03039	9.47824
METEOSAT-8	09	33	02/02/2009	42166.83958	0.00000980	0.46060	5.05525	296.93014	199.66805	9.33369
METEOSAT-8	09	40	09/02/2009	42167.98356	0.00007218	0.46160	8.33762	87.33967	52.80364	9.26150
METEOSAT-8	09	47	16/02/2009	42165.55562	0.00008060	0.46033	9.32628	47.01911	99.00600	9.23249

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	09	54	23/02/2009	42166.03453	0.00012651	0.46038	11.82875	71.96150	78.50311	9.27476
METEOSAT-8	09	61	02/03/2009	42164.92502	0.00002732	0.46002	12.44675	35.29895	121.51623	9.34385
METEOSAT-8	09	68	09/03/2009	42164.82618	0.00010577	0.46309	15.14157	61.28799	99.87936	9.49111
METEOSAT-8	09	75	16/03/2009	42167.72466	0.00019548	0.46829	15.52514	31.38909	136.20142	9.39830
METEOSAT-8	09	82	23/03/2009	42167.17868	0.00023143	0.47197	17.57831	42.11278	130.21237	9.28646
METEOSAT-8	09	89	30/03/2009	42167.08268	0.00014119	0.47958	17.79601	23.35378	155.56963	9.20284
METEOSAT-8	09	96	06/04/2009	42165.68186	0.00022840	0.48642	20.10070	34.41794	149.09418	9.19646
METEOSAT-8	09	103	13/04/2009	42165.79803	0.00021046	0.49951	20.30274	33.53230	156.71792	9.23693
METEOSAT-8	09	110	20/04/2009	42164.12306	0.00026035	0.50723	22.17337	39.96959	155.41910	9.34630
METEOSAT-8	09	117	27/04/2009	42164.96528	0.00015215	0.52275	22.48674	27.73221	174.38520	9.48871
METEOSAT-8	09	124	04/05/2009	42166.92213	0.00027927	0.53265	24.68312	12.72046	193.98415	9.37245
METEOSAT-8	09	131	11/05/2009	42167.97567	0.00023788	0.55149	25.13946	9.88585	203.14167	9.25205
METEOSAT-8	09	138	18/05/2009	42165.63752	0.00027913	0.56082	27.00617	17.93900	200.06540	9.19590
METEOSAT-8	09	145	25/05/2009	42166.91694	0.00018527	0.58091	27.64946	358.08688	226.15826	9.18028
METEOSAT-8	09	152	01/06/2009	42164.23960	0.00028937	0.59072	29.80972	14.02959	214.99853	9.22377
METEOSAT-8	09	159	08/06/2009	42165.50860	0.00023453	0.61182	30.62070	10.49652	224.72813	9.33169
METEOSAT-8	09	166	15/06/2009	42163.29818	0.00027122	0.61945	32.47008	16.20888	224.23275	9.49855
METEOSAT-8	09	173	22/06/2009	42167.80242	0.00009947	0.64026	33.35325	342.48998	263.95463	9.48519
METEOSAT-8	09	180	29/06/2009	42165.60293	0.00020149	0.64780	35.36558	10.64505	240.62584	9.42435
METEOSAT-8	09	187	06/07/2009	42166.33892	0.00014370	0.66739	36.35297	6.19634	250.99978	9.43766
METEOSAT-8	09	194	13/07/2009	42164.97196	0.00016672	0.67150	38.00651	9.85465	252.65388	9.50433
METEOSAT-8	09	201	20/07/2009	42164.81862	0.00008186	0.69016	38.89826	347.02418	281.61381	9.62635
METEOSAT-8	09	208	27/07/2009	42163.71643	0.00019032	0.69451	40.53060	7.59055	266.47086	9.78296
METEOSAT-8	09	215	03/08/2009	42168.83782	0.00002518	0.71148	41.47249	287.88818	352.01875	9.67123
METEOSAT-8	09	222	10/08/2009	42168.65258	0.00004281	0.71218	42.70315	301.64663	343.72755	9.46999
METEOSAT-8	09	229	17/08/2009	42167.22405	0.00008049	0.72902	43.40568	220.24561	71.18246	9.32733
METEOSAT-8	09	236	24/08/2009	42167.33702	0.00006203	0.73124	44.48142	330.90845	326.22678	9.21103
METEOSAT-8	09	243	31/08/2009	42165.90356	0.00002136	0.74685	45.16921	234.09384	69.22220	9.18041
METEOSAT-8	09	250	07/09/2009	42166.74478	0.00005589	0.74688	45.82233	272.66260	36.91486	9.19573
METEOSAT-8	09	257	14/09/2009	42164.30882	0.00009529	0.76445	46.27742	211.97916	104.11883	9.27195
METEOSAT-8	09	264	21/09/2009	42167.14227	0.00009108	0.39415	337.71602	48.39801	343.15591	9.26398
METEOSAT-8	09	271	28/09/2009	42164.93686	0.00001418	0.39348	340.31521	38.41444	357.46518	9.28926

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	09	278	05/10/2009	42166.20715	0.00007078	0.39104	340.87446	0.56054	41.73179	9.36185
METEOSAT-8	09	285	12/10/2009	42163.40987	0.00007214	0.39395	343.93572	288.48769	117.77713	9.49599
METEOSAT-8	09	292	19/10/2009	42164.69572	0.00009115	0.39551	345.03096	28.52388	23.71414	9.66503
METEOSAT-8	09	299	26/10/2009	42167.78207	0.00010331	0.39893	348.07964	146.62345	269.37641	9.57597
METEOSAT-8	09	306	02/11/2009	42168.60790	0.00003574	0.40261	349.21289	123.19960	298.38507	9.39473
METEOSAT-8	09	313	09/11/2009	42166.31309	0.00006983	0.40817	352.84555	189.85620	234.87544	9.27466
METEOSAT-8	09	320	16/11/2009	42167.22962	0.00008854	0.41510	354.45013	88.17046	341.77848	9.19721
METEOSAT-8	09	327	23/11/2009	42165.64671	0.00008054	0.41990	357.87016	132.67313	300.75099	9.19280
METEOSAT-8	09	334	30/11/2009	42165.38611	0.00000847	0.42640	359.47720	33.74411	45.01570	9.23619
METEOSAT-8	09	341	07/12/2009	42164.31772	0.00004004	0.43209	3.41647	183.03082	258.79263	9.33939
METEOSAT-8	09	348	14/12/2009	42164.29192	0.00008374	0.44096	5.27574	60.20348	26.81260	9.49194
METEOSAT-8	09	355	21/12/2009	42167.99466	0.00013061	0.44433	8.71753	153.93913	296.42651	9.38366
METEOSAT-8	09	362	28/12/2009	42166.56130	0.00007046	0.45073	10.38694	196.83957	258.63525	9.26287
METEOSAT-8	10	4	04/01/2010	42167.00586	0.00010797	0.45462	14.20357	169.25363	289.24326	9.20188
METEOSAT-8	10	11	11/01/2010	42165.70678	0.00006561	0.46333	15.90710	105.43629	358.24833	9.19380
METEOSAT-8	10	18	18/01/2010	42166.00047	0.00011344	0.46373	18.95850	131.47682	336.10836	9.24624
METEOSAT-8	10	25	25/01/2010	42163.88063	0.00003815	0.46931	20.24130	189.39378	283.90519	9.34351
METEOSAT-8	10	32	01/02/2010	42165.45937	0.00009086	0.47128	23.47980	132.61600	344.50241	9.50180
METEOSAT-8	10	39	08/02/2010	42162.91501	0.00007889	0.48036	24.65729	69.41124	53.64157	9.71438
METEOSAT-8	10	46	15/02/2010	42169.44745	0.00013632	0.47931	26.98311	170.16171	317.37382	9.62340
METEOSAT-8	10	53	22/02/2010	42167.25264	0.00012879	0.48648	27.61331	211.83503	281.77338	9.42711
METEOSAT-8	10	60	01/03/2010	42168.95806	0.00011935	0.48841	29.98723	167.93754	330.06345	9.29405
METEOSAT-8	10	67	08/03/2010	42166.02163	0.00004090	0.50069	30.55140	165.49483	338.76207	9.21469
METEOSAT-8	10	74	15/03/2010	42166.86311	0.00011627	0.50117	32.05898	151.23232	358.39408	9.19218
METEOSAT-8	10	81	22/03/2010	42165.13062	0.00009372	0.51346	32.18301	199.49793	316.92850	9.21677
METEOSAT-8	10	88	29/03/2010	42165.92674	0.00009357	0.51829	33.76896	137.67555	24.15128	9.30344
METEOSAT-8	10	95	05/04/2010	42163.70637	0.00004224	0.53609	34.02189	114.33987	54.27598	9.44567
METEOSAT-8	10	102	12/04/2010	42168.17105	0.00009842	0.54093	35.02609	187.16234	347.27762	9.37433
METEOSAT-8	10	109	19/04/2010	42167.31869	0.00013742	0.56014	35.11939	223.83853	317.27585	9.24225
METEOSAT-8	10	116	26/04/2010	42166.75009	0.00005439	0.56884	36.29617	176.10336	10.66118	9.16943
METEOSAT-8	10	123	03/05/2010	42165.92443	0.00004612	0.59201	36.71675	218.78300	334.44776	9.15632
METEOSAT-8	10	130	10/05/2010	42165.08993	0.00008200	0.60051	37.61782	165.19000	34.08256	9.19941

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	10	137	17/05/2010	42165.29183	0.00011700	0.62481	38.08386	212.89881	352.90298	9.29470
METEOSAT-8	10	144	24/05/2010	42163.49643	0.00005300	0.63568	39.17888	126.08376	85.67006	9.44200
METEOSAT-8	10	151	31/05/2010	42164.02902	0.00004300	0.66073	39.97900	183.70932	34.35898	9.65663
METEOSAT-8	10	158	07/06/2010	42167.57381	0.00005600	0.66974	40.94238	272.41943	311.43506	9.50663
METEOSAT-8	10	165	14/06/2010	42168.63598	0.00014900	0.69500	41.80675	256.97247	332.75116	9.34033
METEOSAT-8	10	172	21/06/2010	42166.13297	0.00005600	0.70517	42.86245	323.32969	272.11393	9.21650
METEOSAT-8	10	179	28/06/2010	42167.41522	0.00009200	0.72806	43.95399	278.23556	322.96752	9.16789
METEOSAT-8	10	186	05/07/2010	42165.02626	0.00004000	0.73474	44.85991	260.02781	347.16936	9.16869
METEOSAT-8	10	193	12/07/2010	42166.30925	0.00013600	0.75743	45.92108	247.85150	5.24242	9.22720
METEOSAT-8	10	200	19/07/2010	42163.74661	0.00003900	0.76504	46.78657	334.08853	285.12963	9.31785
METEOSAT-8	10	207	26/07/2010	42164.99448	0.00007500	0.78346	47.94088	264.22047	0.91613	9.49145
METEOSAT-8	10	214	02/08/2010	42167.53363	0.00009000	0.78679	48.58428	345.99737	285.32212	9.41889
METEOSAT-8	10	221	09/08/2010	42168.19672	0.00010300	0.80555	49.59140	291.82175	345.25524	9.28440
METEOSAT-8	10	228	16/08/2010	42166.27542	0.00013200	0.81133	50.07746	359.32218	284.05785	9.17465
METEOSAT-8	10	235	23/08/2010	42166.80329	0.00009300	0.82561	51.06424	327.29974	321.97106	9.15318
METEOSAT-8	10	242	30/08/2010	42165.66654	0.00008200	0.82780	51.26178	334.77513	321.21964	9.17584
METEOSAT-8	10	249	06/09/2010	42165.13482	0.00009000	0.84401	52.04442	283.03680	19.15872	9.26007
METEOSAT-8	10	256	13/09/2010	42164.37193	0.00012600	0.85094	52.04296	354.41196	314.79144	9.36738
METEOSAT-8	10	263	20/09/2010	42163.71443	0.00007200	0.86389	52.74880	320.69133	354.90209	9.56388
METEOSAT-8	10	270	27/09/2010	42168.70341	0.00015200	0.86925	52.49862	273.12674	49.54126	9.48885
METEOSAT-8	10	277	04/10/2010	42166.89219	0.00019500	0.88590	53.05228	253.91737	74.95677	9.34892
METEOSAT-8	10	284	11/10/2010	42167.36443	0.00014200	0.89808	52.69165	296.84183	39.18117	9.23734
METEOSAT-8	10	291	18/10/2010	42165.61237	0.00015300	0.91294	53.20865	260.06879	82.30872	9.20878
METEOSAT-8	10	298	25/10/2010	42166.19351	0.00018200	0.37318	338.81837	344.76248	78.98384	9.28536
METEOSAT-8	10	305	01/11/2010	42163.56033	0.00022200	0.36892	342.00174	324.46455	103.11327	9.40068
METEOSAT-8	10	312	08/11/2010	42164.84195	0.00017000	0.37941	344.35555	359.73179	72.54420	9.55328
METEOSAT-8	10	319	15/11/2010	42162.48114	0.00018400	0.37555	347.35593	323.01219	113.39000	9.78030
METEOSAT-8	10	326	22/11/2010	42169.07580	0.00008700	0.38663	349.55298	354.26035	86.71112	9.64724
METEOSAT-8	10	333	29/11/2010	42166.37048	0.00011200	0.38339	353.10334	317.17421	127.00115	9.50189
METEOSAT-8	10	340	06/12/2010	42167.72743	0.00011036	0.39569	355.93041	26.44393	61.70684	9.40488
METEOSAT-8	10	347	13/12/2010	42165.59049	0.00007417	0.39203	359.12657	319.77768	132.04077	9.36917
METEOSAT-8	10	354	20/12/2010	42166.18700	0.00011694	0.40298	1.64185	343.25282	112.97511	9.39453

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	10	361	27/12/2010	42164.24927	0.00012456	0.39907	5.16246	321.85050	137.83209	9.47020
METEOSAT-8	11	3	03/01/2011	42164.95943	0.00013849	0.41076	7.97187	11.00404	92.90175	9.60330
METEOSAT-8	11	10	10/01/2011	42163.64167	0.00008788	0.40580	10.86002	327.21268	140.88784	9.78662
METEOSAT-8	11	17	17/01/2011	42168.44887	0.00002600	0.41560	13.13357	5.73742	106.82106	9.61868
METEOSAT-8	11	24	24/01/2011	42167.91231	0.00000763	0.41090	16.12478	21.12303	95.15496	9.42984
METEOSAT-8	11	31	31/01/2011	42167.46666	0.00010471	0.42172	18.51210	50.86057	69.80426	9.30453
METEOSAT-8	11	38	07/02/2011	42167.12262	0.00003807	0.41632	20.60709	103.32750	22.05932	9.22202
METEOSAT-8	11	45	14/02/2011	42165.46349	0.00006461	0.42583	22.28051	7.63164	122.96472	9.20557
METEOSAT-8	11	52	21/02/2011	42166.37750	0.00005930	0.42242	24.34786	49.43651	86.01972	9.23329
METEOSAT-8	11	59	28/02/2011	42164.55660	0.00014539	0.43454	26.09764	39.55053	101.14887	9.32672
METEOSAT-8	11	66	07/03/2011	42165.02457	0.00007078	0.43162	27.19698	70.46041	76.17359	9.46121
METEOSAT-8	11	73	14/03/2011	42167.02672	0.00002889	0.44405	28.25690	294.41149	217.99028	9.38934
METEOSAT-8	11	80	21/03/2011	42168.76235	0.00004342	0.44495	29.36359	116.22392	41.83527	9.25393
METEOSAT-8	11	87	28/03/2011	42165.94789	0.00008835	0.46093	30.68199	46.55232	117.01936	9.18517
METEOSAT-8	11	94	04/04/2011	42166.84694	0.00006135	0.46353	31.05866	128.37597	41.69309	9.15969
METEOSAT-8	11	101	11/04/2011	42164.66410	0.00003438	0.48064	31.92994	11.21452	164.92380	9.20052
METEOSAT-8	11	108	18/04/2011	42166.13507	0.00008761	0.48778	32.49539	84.61088	97.94872	9.28765
METEOSAT-8	11	115	25/04/2011	42163.31609	0.00012635	0.50793	33.81120	49.53701	138.75922	9.44020
METEOSAT-8	11	122	02/05/2011	42164.07512	0.00008744	0.51653	34.02799	102.18702	92.99379	9.64193
METEOSAT-8	11	129	09/05/2011	42167.99534	0.00008310	0.53742	35.16605	273.87244	286.98353	9.55528
METEOSAT-8	11	136	16/05/2011	42168.34147	0.00001207	0.54943	35.67917	121.91226	85.15232	9.37796
METEOSAT-8	11	143	23/05/2011	42166.53620	0.00004296	0.57097	37.22858	1.94695	210.35649	9.26632
METEOSAT-8	11	150	30/05/2011	42166.58302	0.00005029	0.58284	37.61407	179.93860	38.81976	9.20714
METEOSAT-8	11	157	06/06/2011	42166.01107	0.00005369	0.60387	39.08725	270.02586	314.15797	9.20646
METEOSAT-8	11	164	13/06/2011	42165.06439	0.00005110	0.61756	39.70901	87.43150	143.07562	9.25197
METEOSAT-8	11	171	20/06/2011	42164.71434	0.00003217	0.63666	41.43061	36.05840	199.74088	9.36601
METEOSAT-8	11	178	27/06/2011	42163.59790	0.00006247	0.64819	41.95283	146.53008	95.81301	9.53270
METEOSAT-8	11	185	04/07/2011	42168.82542	0.00012400	0.66595	43.60797	315.54709	291.95909	9.45137
METEOSAT-8	11	192	11/07/2011	42166.80983	0.00010274	0.67869	44.19916	15.64598	238.00741	9.29055
METEOSAT-8	11	199	18/07/2011	42167.69679	0.00010407	0.69269	45.86769	343.93495	274.85832	9.19956
METEOSAT-8	11	206	25/07/2011	42165.57500	0.00003668	0.70189	46.29891	4.08381	261.14052	9.16283
METEOSAT-8	11	213	01/08/2011	42166.75612	0.00010839	0.71511	47.84347	310.42199	320.17025	9.17605

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	11	220	08/08/2011	42164.18021	0.00009237	0.72638	48.21468	24.05289	253.12275	9.23172
METEOSAT-8	11	227	15/08/2011	42165.61372	0.00007671	0.73506	49.57231	336.49326	306.35204	9.35987
METEOSAT-8	11	235	22/08/2011	42163.13881	0.00002321	0.74280	49.71047	17.88892	271.89920	9.54197
METEOSAT-8	11	241	29/08/2011	42169.10530	0.00020812	0.75243	50.91275	293.23138	2.11570	9.40402
METEOSAT-8	11	248	05/09/2011	42166.62419	0.00012390	0.76440	50.92327	324.20071	337.87618	9.24530
METEOSAT-8	11	255	12/09/2011	42167.78958	0.00015967	0.77048	51.80864	296.81126	11.19542	9.16120
METEOSAT-8	11	262	19/09/2011	42165.82343	0.00011800	0.77997	51.57391	291.46950	23.64144	9.13149
METEOSAT-8	11	269	26/09/2011	42166.16440	0.00020100	0.78900	52.33745	288.49551	32.77078	9.15087
METEOSAT-8	11	276	03/10/2011	42164.49999	0.00012118	0.80541	52.04607	319.15707	9.35974	9.21043
METEOSAT-8	11	283	10/10/2011	42164.74807	0.00015349	0.81263	52.51131	287.43474	47.64994	9.34377
METEOSAT-8	11	290	17/10/2011	42163.87177	0.00013018	0.82795	52.10402	289.20902	53.37512	9.53603
METEOSAT-8	11	297	24/10/2011	42167.84467	0.00009334	0.83952	52.58496	303.32603	45.60676	9.46556
METEOSAT-8	11	304	31/10/2011	42167.48509	0.00009719	0.86250	52.30594	15.05544	340.89699	9.30594
METEOSAT-8	11	311	07/11/2011	42166.51931	0.00005299	0.87362	52.63267	301.44805	60.98917	9.21725
METEOSAT-8	11	318	14/11/2011	42166.83733	0.00005630	0.89529	52.39882	335.29497	34.24941	9.19018
METEOSAT-8	11	325	21/11/2011	42164.72485	0.00010411	0.90942	52.90721	297.80274	78.15581	9.21243
METEOSAT-8	11	332	28/11/2011	42165.57039	0.00010551	0.93721	52.94365	4.55011	18.34183	9.28177
METEOSAT-8	11	339	05/12/2011	42163.33769	0.00007928	0.95265	53.40247	291.12251	98.36241	9.43340
METEOSAT-8	11	346	12/12/2011	42164.45995	0.00008886	0.97725	53.56015	326.76014	69.68996	9.65605
METEOSAT-8	11	353	19/12/2011	42167.12556	0.00001476	0.99044	54.18964	8.76050	33.81460	9.51068
METEOSAT-8	11	360	26/12/2011	42168.57024	0.00012650	1.01773	54.58494	52.48676	356.43205	9.34978
METEOSAT-8	12	2	02/01/2012	42166.21501	0.00002830	1.02816	55.12630	120.35435	294.81286	9.24052
METEOSAT-8	12	9	09/01/2012	42167.40008	0.00006607	1.05053	55.58060	47.24100	14.33318	9.20243
METEOSAT-8	12	16	16/01/2012	42164.83601	0.00004664	1.05938	56.20711	355.41644	72.43504	9.20733
METEOSAT-8	12	23	23/01/2012	42166.08980	0.00013586	1.08197	56.76876	39.34457	34.90797	9.27110
METEOSAT-8	12	30	30/01/2012	42164.11695	0.00002465	1.08758	57.20865	56.70228	24.11516	9.37749
METEOSAT-8	12	37	06/02/2012	42164.48476	0.00008596	1.10530	57.69604	20.64976	66.76064	9.55938
METEOSAT-8	12	44	13/02/2012	42167.64899	0.00003868	1.11012	58.06341	132.29918	321.55861	9.47592
METEOSAT-8	12	51	20/02/2012	42168.03056	0.00010796	1.12782	58.55653	75.12581	24.99403	9.33267
METEOSAT-8	12	58	27/02/2012	42166.93838	0.00008493	1.13065	58.66851	138.73726	328.06505	9.22893
METEOSAT-8	12	65	05/03/2012	42166.07247	0.00004758	1.14558	58.99300	74.43568	38.91276	9.20110
METEOSAT-8	12	72	12/03/2012	42165.91044	0.00005389	1.15020	58.97066	80.77936	39.50036	9.21153

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METEOSAT-8	12	79	19/03/2012	42165.02936	0.00012706	1.16646	59.28360	61.33081	65.61150	9.28818
METEOSAT-8	12	86	26/03/2012	42164.92099	0.00008461	1.17146	59.03623	114.59760	19.60849	9.40555
METEOSAT-8	12	93	02/04/2012	42162.96995	0.00007503	1.18725	59.19451	44.21614	96.92188	9.59624
METEOSAT-8	12	100	09/04/2012	42169.23783	0.00003653	1.19673	58.88276	298.95810	209.30648	9.51126
METEOSAT-8	12	107	16/04/2012	42167.05739	0.00007628	1.21486	59.10795	9.70922	145.07082	9.35171
METEOSAT-8	12	114	23/04/2012	42167.73194	0.00002940	1.22589	58.70209	209.97789	311.99562	9.23886
METEOSAT-8	12	121	30/04/2012	42165.37562	0.00008285	1.24453	58.87366	330.38858	198.26844	9.19311
METEOSAT-8	12	128	07/05/2012	42167.10213	0.00003563	1.26051	58.50803	14.47092	161.45257	9.19288
METEOSAT-8	12	135	14/05/2012	42164.20508	0.00010322	1.28052	58.82662	26.46113	156.10803	9.25589
METEOSAT-8	12	142	21/05/2012	42165.21609	0.00002162	1.29745	58.51000	120.87269	69.03042	9.37192
METEOSAT-8	12	149	28/05/2012	42163.12661	0.00008573	1.31709	58.84511	355.46048	201.18410	9.54720
METEOSAT-8	12	156	04/06/2012	42169.21883	0.00013587	1.33734	58.63991	350.88812	212.78630	9.47074
METEOSAT-8	12	163	11/06/2012	42166.60745	0.00017807	1.35633	59.11358	1.39864	208.55124	9.31901
METEOSAT-8	12	170	18/06/2012	42167.34255	0.00008255	1.37522	59.00161	345.89543	230.97500	9.22709
METEOSAT-8	12	177	25/06/2012	42166.02554	0.00017754	1.39211	59.50515	343.43858	239.78651	9.18513
METEOSAT-8	12	184	02/07/2012	42166.08703	0.00013436	1.41261	59.47931	7.79971	222.36459	9.19560
METEOSAT-8	12	191	09/07/2012	42164.64463	0.00015669	1.42692	60.03379	8.39170	228.19130	9.26955
METEOSAT-8	12	198	16/07/2012	42164.45403	0.00006935	1.44422	60.06210	8.32140	235.26658	9.40421
METEOSAT-8	12	205	23/07/2012	42164.17962	0.00015782	1.45573	60.60314	347.65594	262.46547	9.58045
METEOSAT-8	12	212	30/07/2012	42168.07037	0.00018682	1.47386	60.64726	63.89953	193.02674	9.53162
METEOSAT-8	12	219	06/08/2012	42168.12367	0.00016749	1.48205	61.12776	58.91270	204.25652	9.35745
METEOSAT-8	12	226	13/08/2012	42166.70823	0.00015041	1.49647	61.15678	85.76376	184.16529	9.24904
METEOSAT-8	12	233	20/08/2012	42167.39597	0.00013466	1.50291	61.56792	42.83704	233.50561	9.17649
METEOSAT-8	12	240	27/08/2012	42165.13748	0.00019573	1.51919	61.55974	73.27581	209.96093	9.16521
METEOSAT-8	12	247	03/09/2012	42166.28217	0.00014697	1.52334	61.81255	68.87423	221.05218	9.21027
METEOSAT-8	12	254	10/09/2012	42163.94181	0.00016017	1.53683	61.73702	94.79413	202.21531	9.32015
METEOSAT-8	12	261	17/09/2012	42165.15237	0.00012101	1.54139	61.90461	49.41502	254.47014	9.46533
METEOSAT-8	12	268	24/09/2012	42166.82738	0.00009395	1.55919	61.79476	91.29911	219.52119	9.39200
METEOSAT-8	12	275	01/10/2012	42168.29608	0.00002967	1.56363	61.78061	103.81579	213.79125	9.26535
METEOSAT-8	12	282	08/10/2012	42165.84035	0.00008346	1.57983	61.60785	138.33749	186.27992	9.20314
METEOSAT-8	12	289	15/10/2012	42166.83150	0.00003102	1.58706	61.56781	336.89970	354.63339	9.17846
METEOSAT-8	12	296	22/10/2012	42164.45915	0.00009022	1.60947	61.43450	105.95398	232.64500	9.20993

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METEOSAT-8	12	303	29/10/2012	42165.45188	0.00003740	1.61840	61.26209	157.28016	188.48756	9.30464
METEOSAT-8	12	310	05/11/2012	42163.73322	0.00007907	1.63949	61.13630	150.84853	202.10623	9.46373
METEOSAT-8	12	317	12/11/2012	42163.70893	0.00002628	1.65135	61.04728	288.51026	71.63805	9.66591
METEOSAT-8	12	324	19/11/2012	42167.84392	0.00019953	1.67847	61.04903	137.79389	229.11008	9.52078
METEOSAT-8	12	331	26/11/2012	42167.80156	0.00017563	1.69208	60.91652	162.01423	211.75418	9.35042
METEOSAT-8	12	338	03/12/2012	42167.27607	0.00019160	1.71585	60.98541	155.03858	225.45880	9.24596
METEOSAT-8	12	345	10/12/2012	42165.99178	0.00011565	1.72995	60.98821	170.73509	216.60247	9.18723
METEOSAT-8	12	352	17/12/2012	42166.02272	0.00018595	1.75731	61.21527	139.63226	254.36855	9.17596
METEOSAT-8	12	359	24/12/2012	42164.79721	0.00017447	1.77165	61.20612	169.92149	231.04255	9.22949
METEOSAT-8	12	366	31/12/2012	42165.42482	0.00016675	1.79312	61.48370	155.94208	251.76520	9.35021
METEOSAT-8	13	7	07/01/2013	42163.07151	0.00010695	1.80522	61.56924	177.44476	237.24367	9.51796
METEOSAT-8	13	14	14/01/2013	42169.29246	0.00014029	1.82735	61.94184	92.02481	329.14447	9.47278
METEOSAT-8	13	21	21/01/2013	42167.13636	0.00005861	1.83862	61.97903	137.17080	290.67532	9.28982
METEOSAT-8	13	28	28/01/2013	42168.41648	0.00008677	1.85424	62.33233	92.94510	341.33117	9.17612
METEOSAT-8	13	35	04/02/2013	42198.33636	0.00004656	1.86240	62.36506	40.97730	38.65915	7.67207
METEOSAT-8	13	42	11/02/2013	42199.87490	0.00014422	1.87785	62.72063	83.10581	0.10998	4.70911
METEOSAT-8	13	49	18/02/2013	42167.19579	0.00004644	1.88613	62.65639	112.02061	337.63263	4.18634
METEOSAT-8	13	56	25/02/2013	42168.57691	0.00009807	1.89676	62.92157	71.36237	24.79498	4.05964
METEOSAT-8	13	63	04/03/2013	42166.10778	0.00007453	1.90831	62.81414	24.75924	78.30654	3.96492
METEOSAT-8	13	70	11/03/2013	42167.48279	0.00014554	1.91958	63.01758	73.40781	36.29166	3.90573
METEOSAT-8	13	77	18/03/2013	42165.59186	0.00004440	1.92883	62.79640	84.98442	31.81383	3.88681
METEOSAT-8	13	84	25/03/2013	42166.15133	0.00011044	1.93841	62.90954	51.56577	72.05341	3.92347
METEOSAT-8	13	91	01/04/2013	42167.14389	0.00004593	1.95028	62.62406	49.66170	81.01433	3.79673
METEOSAT-8	13	98	08/04/2013	42167.70238	0.00013211	1.96198	62.69880	89.09533	48.28522	3.67683
METEOSAT-8	13	105	15/04/2013	42166.69731	0.00006274	1.97633	62.38994	128.47226	16.03718	3.59682
METEOSAT-8	13	112	22/04/2013	42166.00277	0.00009591	1.98823	62.42769	60.33240	91.01196	3.56841
METEOSAT-8	13	119	29/04/2013	42165.92574	0.00007881	2.00695	62.11878	62.11178	96.44829	3.57368
METEOSAT-8	13	126	06/05/2013	42165.25788	0.00015629	2.02101	62.16746	84.61594	80.84359	3.61901
METEOSAT-8	13	133	13/05/2013	42165.27691	0.00008850	2.04105	61.92265	113.18645	59.50982	3.70736
METEOSAT-8	13	140	20/05/2013	42163.51417	0.00013316	2.05521	61.99899	58.52429	121.13345	3.84128
METEOSAT-8	13	147	27/05/2013	42168.53595	0.00012132	2.07911	61.80950	32.41498	154.23708	3.74197
METEOSAT-8	13	154	03/06/2013	42166.55984	0.00016979	2.09396	61.92411	57.63018	135.69077	3.62167

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METEOSAT-8	13	161	10/06/2013	42167.40652	0.00007876	2.11642	61.83987	64.45760	135.77743	3.54781
METEOSAT-8	13	168	17/06/2013	42165.24615	0.00017972	2.12950	62.00304	36.30582	170.63289	3.51199
METEOSAT-8	13	175	24/06/2013	42167.18647	0.00012878	2.15425	61.97768	52.38613	161.48814	3.51980
METEOSAT-8	13	182	01/07/2013	42164.42540	0.00018838	2.16656	62.15501	66.94446	153.70035	3.56662
METEOSAT-8	13	189	08/07/2013	42165.63522	0.00010035	2.18728	62.21455	81.71438	145.86795	3.66352
METEOSAT-8	13	196	15/07/2013	42163.72001	0.00018193	2.19621	62.41185	47.45239	186.95879	3.79103
METEOSAT-8	13	203	22/07/2013	42168.93723	0.00006140	2.21802	62.49777	88.88742	152.22817	3.68348
METEOSAT-8	13	210	29/07/2013	42166.37708	0.00011618	2.22566	62.65236	92.12510	155.61353	3.56464
METEOSAT-8	13	217	05/08/2013	42167.32327	0.00007600	2.24241	62.76532	143.20882	111.24641	3.49844
METEOSAT-8	13	224	12/08/2013	42166.13680	0.00008575	2.24672	62.89087	58.75901	202.42236	3.45538
METEOSAT-8	13	231	19/08/2013	42166.46021	0.00009921	2.26455	62.98510	112.44380	155.54824	3.46580
METEOSAT-8	13	238	26/08/2013	42165.04118	0.00012325	2.26877	63.01714	110.34216	164.55576	3.50972
METEOSAT-8	13	245	02/09/2013	42165.07387	0.00011272	2.28249	63.08506	148.84673	132.97443	3.60685
METEOSAT-8	13	252	09/09/2013	42164.89220	0.00007485	2.28520	63.05358	80.72951	208.13353	3.72292
METEOSAT-8	13	259	16/09/2013	42167.19169	0.00012661	2.30135	63.08671	162.19323	133.48638	3.67718
METEOSAT-8	13	266	23/09/2013	42167.29132	0.00011674	2.30619	62.94957	166.12535	136.48932	3.57879
METEOSAT-8	13	273	30/09/2013	42166.08948	0.00016944	2.32027	62.94109	183.84995	125.62480	3.53287
METEOSAT-8	13	280	07/10/2013	42166.89120	0.00005178	2.32609	62.75278	186.55889	129.97515	3.50504
METEOSAT-8	13	287	14/10/2013	42164.75068	0.00016747	2.34415	62.74093	167.32775	156.14171	3.52860
METEOSAT-8	13	294	21/10/2013	42166.01172	0.00013793	2.35403	62.48536	179.13729	151.55266	3.59186
METEOSAT-8	13	301	28/10/2013	42163.85636	0.00019826	2.37117	62.46145	187.10643	150.62455	3.70600
METEOSAT-8	13	308	04/11/2013	42165.23299	0.00007544	2.38331	62.21895	198.42634	146.58782	3.84246
METEOSAT-8	13	315	11/11/2013	42166.45464	0.00012158	2.40471	62.25262	156.71347	195.05959	3.73035
METEOSAT-8	13	322	18/11/2013	42168.10801	0.00007021	2.42085	62.01608	176.38213	182.42178	3.61914
METEOSAT-8	13	329	25/11/2013	42165.81084	0.00012228	2.44042	62.08040	187.12534	178.45801	3.55718
METEOSAT-8	13	336	02/12/2013	42167.00620	0.00001524	2.45772	61.90418	270.39785	102.23406	3.52382
METEOSAT-8	13	343	09/12/2013	42164.75658	0.00012921	2.47984	62.06534	168.91991	210.45821	3.52612
METEOSAT-8	13	350	16/12/2013	42165.99832	0.00008280	2.49902	61.94608	195.73918	190.72137	3.58481
METEOSAT-8	13	357	23/12/2013	42166.72716	0.00010515	2.51642	62.13224	167.42630	225.70711	3.54063
METEOSAT-8	13	364	30/12/2013	42166.96850	0.00001807	2.53363	62.07836	78.79495	321.22547	3.47194
METEOSAT-8	14	6	06/01/2014	42165.77083	0.00013295	2.55155	62.33165	150.46793	256.15685	3.42929
METEOSAT-8	14	13	13/01/2014	42166.00854	0.00007177	2.56895	62.30406	173.11777	240.45227	3.44826

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	14	20	20/01/2014	42165.57890	0.00008261	2.58018	62.54734	166.86626	253.42193	3.51261
METEOSAT-8	14	27	27/01/2014	42164.51469	0.00000710	2.59396	62.52615	15.33412	51.97343	3.61539
METEOSAT-8	14	34	03/02/2014	42164.68288	0.00012276	2.60498	62.77357	147.19983	286.87687	3.73765
METEOSAT-8	14	41	10/02/2014	42167.25531	0.00003009	2.61868	62.75204	323.75032	117.19286	3.68958
METEOSAT-8	14	48	17/02/2014	42168.01167	0.00003458	2.62416	62.91256	29.45817	58.12096	3.59336
METEOSAT-8	14	55	24/02/2014	42165.84698	0.00010541	2.63557	62.83455	354.08636	100.40659	3.53700
METEOSAT-8	14	62	03/03/2014	42167.07594	0.00006668	2.64221	62.94624	94.22460	7.01015	3.49794
METEOSAT-8	14	69	10/03/2014	42165.04665	0.00004427	2.65532	62.84667	329.41816	138.82913	3.51830
METEOSAT-8	14	76	17/03/2014	42166.47724	0.00006100	2.65916	62.86797	32.51628	82.66824	3.58292
METEOSAT-8	14	83	24/03/2014	42163.81196	0.00011668	2.67269	62.70855	0.43293	121.90992	3.68679
METEOSAT-8	14	90	31/03/2014	42168.28988	0.00014744	2.67956	62.68351	81.25830	47.94787	3.62817
METEOSAT-8	14	97	07/04/2014	42165.99797	0.00008539	2.69601	62.52722	38.32342	97.85878	3.54962
METEOSAT-8	14	104	14/04/2014	42167.25819	0.00014950	2.70255	62.44450	53.15977	89.97186	3.51584
METEOSAT-8	14	111	21/04/2014	42164.93586	0.00016758	2.72153	62.26630	33.50641	116.71049	3.52066
METEOSAT-8	14	118	28/04/2014	42166.18752	0.00016584	2.73192	62.17270	79.87316	77.37236	3.55161
METEOSAT-8	14	125	05/05/2014	42164.43131	0.00010251	2.75295	62.04955	48.12103	116.23421	3.63257
METEOSAT-8	14	132	12/05/2014	42164.70176	0.00018322	2.76361	61.96311	53.97077	117.50379	3.75879
METEOSAT-8	14	139	19/05/2014	42167.11712	0.00012670	2.78760	61.87779	18.51675	159.88852	3.69667
METEOSAT-8	14	146	26/05/2014	42167.40752	0.00010291	2.80091	61.81147	79.01636	106.24041	3.57425
METEOSAT-8	14	153	02/06/2014	42166.64701	0.00005066	2.82376	61.80408	21.48517	170.61220	3.49983
METEOSAT-8	14	160	09/06/2014	42165.69421	0.00014295	2.83567	61.77674	43.21980	155.78086	3.46903
METEOSAT-8	14	167	16/06/2014	42166.05007	0.00011504	2.86008	61.82270	37.20382	168.66817	3.48018
METEOSAT-8	14	174	23/06/2014	42165.03429	0.00012702	2.87309	61.81294	86.86927	125.96594	3.52937
METEOSAT-8	14	181	30/06/2014	42165.29755	0.00004785	2.89333	61.91868	61.34248	158.38593	3.62554
METEOSAT-8	14	188	07/07/2014	42163.43167	0.00015753	2.90301	61.93559	55.52252	171.22621	3.76253
METEOSAT-8	14	195	14/07/2014	42168.70933	0.00007345	2.92385	62.07123	120.17923	113.23666	3.66665
METEOSAT-8	14	202	21/07/2014	42166.40451	0.00016215	2.93417	62.07341	130.46029	109.74572	3.56278
METEOSAT-8	14	209	28/07/2014	42167.39365	0.00009895	2.94915	62.23058	161.01546	85.87022	3.50501
METEOSAT-8	14	216	04/08/2014	42165.28129	0.00012662	2.95537	62.22815	102.96373	150.79457	3.48274
METEOSAT-8	14	223	11/08/2014	42167.29863	0.00011900	2.97106	62.37820	140.58554	119.93943	3.50780
METEOSAT-8	14	230	18/08/2014	42164.38501	0.00019832	2.97872	62.32660	137.79757	129.73163	3.57021
METEOSAT-8	14	237	25/08/2014	42165.58170	0.00013961	2.98891	62.44337	163.93097	110.47952	3.67806

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METEOSAT-8	14	244	01/09/2014	42163.82360	0.00014404	2.99382	62.35176	120.04342	161.48734	3.81672
METEOSAT-8	14	251	08/09/2014	42168.78165	0.00020304	3.00563	62.44598	176.54690	111.73287	3.76858
METEOSAT-8	14	258	15/09/2014	42166.36529	0.00024625	3.01417	62.29454	167.54450	127.67016	3.65973
METEOSAT-8	14	265	22/09/2014	42167.13217	0.00022883	3.02280	62.33227	189.21388	112.79393	3.59643
METEOSAT-8	14	272	29/09/2014	42166.17208	0.00016693	3.03053	62.14087	165.95812	143.10118	3.56055
METEOSAT-8	14	279	06/10/2014	42166.06322	0.00026126	3.04260	62.15851	178.16374	137.78759	3.57186
METEOSAT-8	14	286	13/10/2014	42165.01624	0.00027327	3.05572	61.93844	174.55627	148.56364	3.61985
METEOSAT-8	14	293	20/10/2014	42164.75915	0.00027000	3.06654	61.91917	191.40067	138.73479	3.71301
METEOSAT-8	14	300	27/10/2014	42164.83490	0.00019208	3.08069	61.68983	175.22658	162.16460	3.83399
METEOSAT-8	14	307	03/11/2014	42166.94580	0.00027101	3.09581	61.69105	168.10865	176.07806	3.72377
METEOSAT-8	14	314	10/11/2014	42167.44846	0.00024883	3.11488	61.48706	166.16363	185.02211	3.61025
METEOSAT-8	14	321	17/11/2014	42165.96595	0.00024689	3.12878	61.48965	182.26682	175.75919	3.54375
METEOSAT-8	14	328	24/11/2014	42166.97713	0.00017144	3.14891	61.32352	159.86069	205.20530	3.50758
METEOSAT-8	14	335	01/12/2014	42164.63018	0.00029632	3.16516	61.38153	175.95619	195.96523	3.51142
METEOSAT-8	14	342	08/12/2014	42166.13565	0.00024412	3.18800	61.28358	174.60130	204.38322	3.56740
METEOSAT-8	14	349	15/12/2014	42163.85301	0.00025816	3.20165	61.36169	188.38806	197.52810	3.66970
METEOSAT-8	14	356	22/12/2014	42165.27533	0.00016685	3.22319	61.30384	168.72378	224.29417	3.80782
METEOSAT-8	14	363	29/12/2014	42166.36755	0.00035576	3.23689	61.42813	170.15993	229.48138	3.65240
METEOSAT-8	15	5	05/01/2015	42168.04233	0.00029063	3.25804	61.43969	167.00981	239.42621	3.55773
METEOSAT-8	15	12	12/01/2015	42165.82203	0.00029284	3.26688	61.55933	176.35879	236.80494	3.50712
METEOSAT-8	15	19	19/01/2015	42166.84656	0.00022096	3.28525	61.57425	157.91871	262.11483	3.49622
METEOSAT-8	15	26	26/01/2015	42164.84964	0.00034622	3.29351	61.69840	173.09358	253.71936	3.50679
METEOSAT-8	15	33	02/02/2015	42165.90715	0.00027422	3.31009	61.74432	171.31997	262.41765	3.58639
METEOSAT-8	15	40	09/02/2015	42164.53266	0.00027458	3.31333	61.81393	176.03119	264.64668	3.70724
METEOSAT-8	15	47	16/02/2015	42167.74458	0.00013235	3.32760	61.81809	151.95091	295.60222	3.69837
METEOSAT-8	15	54	23/02/2015	42166.92751	0.00025850	3.33209	61.84648	172.27864	282.01107	3.57533
METEOSAT-8	15	61	02/03/2015	42166.81672	0.00017815	3.34560	61.85687	173.50399	287.61152	3.52331
METEOSAT-8	15	68	09/03/2015	42166.65984	0.00018364	3.34712	61.81040	171.45542	296.58195	3.50972
METEOSAT-8	15	75	16/03/2015	42165.26117	0.00012228	3.36098	61.75798	153.16524	321.84336	3.53806
METEOSAT-8	15	82	23/03/2015	42165.76789	0.00025713	3.36613	61.66817	170.36317	311.66529	3.57549
METEOSAT-8	15	89	30/03/2015	42164.37315	0.00016217	3.38077	61.62674	175.98706	313.08228	3.67981
METEOSAT-8	15	96	06/04/2015	42165.31725	0.00018217	3.38553	61.47767	165.69691	330.56371	3.82390

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METEOSAT-8	15	103	13/04/2015	42166.73487	0.00003181	3.40221	61.40151	159.19428	344.05997	3.84033
METEOSAT-8	15	110	20/04/2015	42168.16917	0.00017851	3.41211	61.24317	177.89645	332.27666	3.69693
METEOSAT-8	15	117	27/04/2015	42165.92727	0.00008071	3.43009	61.20306	203.88277	313.15417	3.61417
METEOSAT-8	15	124	04/05/2015	42167.36734	0.00009980	3.44040	61.03459	169.76865	354.30652	3.57497
METEOSAT-8	15	131	11/05/2015	42164.73318	0.00004515	3.46066	61.00769	138.98359	32.03055	3.57634
METEOSAT-8	15	138	18/05/2015	42166.35802	0.00018230	3.47521	60.86117	173.18348	4.91315	3.60028
METEOSAT-8	15	145	25/05/2015	42164.09422	0.00007636	3.49487	60.88979	193.59254	351.46489	3.67725
METEOSAT-8	15	152	01/06/2015	42165.16181	0.00010867	3.50878	60.76791	156.57640	35.64093	3.80299
METEOSAT-8	15	159	08/06/2015	42166.86402	0.00003993	3.52901	60.83209	40.92883	158.07627	3.74405
METEOSAT-8	15	166	15/06/2015	42167.93749	0.00010508	3.54545	60.74707	172.46519	33.39721	3.60725
METEOSAT-8	15	173	22/06/2015	42166.38163	0.00002759	3.56263	60.85326	255.70023	316.87282	3.51728
METEOSAT-8	15	180	29/06/2015	42166.41298	0.00005383	3.57636	60.79349	117.34743	102.15131	3.47917
METEOSAT-8	15	187	06/07/2015	42165.65312	0.00004022	3.59300	60.92929	101.44911	124.82135	3.48135
METEOSAT-8	15	194	13/07/2015	42165.62540	0.00012807	3.60785	60.88950	166.60148	66.64936	3.52427
METEOSAT-8	15	201	20/07/2015	42165.12580	0.00004270	3.61936	61.02639	205.13648	34.95582	3.60807
METEOSAT-8	15	208	27/07/2015	42166.48465	0.00005031	3.63050	60.99065	82.94651	164.01447	3.54954
METEOSAT-8	15	215	03/08/2015	42167.26706	0.00001449	3.64148	61.13226	100.79406	152.86098	3.49580
METEOSAT-8	15	222	10/08/2015	42165.84146	0.00010384	3.65393	61.08857	170.87871	89.69663	3.48547
METEOSAT-8	15	229	17/08/2015	42166.31837	0.00004694	3.65992	61.18686	242.98627	24.40219	3.51093
METEOSAT-8	15	236	24/08/2015	42164.35002	0.00006716	3.66886	61.11583	119.10997	155.30731	3.58370
METEOSAT-8	15	243	31/08/2015	42166.22251	0.00005740	3.67571	61.19592	184.14923	97.18406	3.69406
METEOSAT-8	15	250	07/09/2015	42163.59512	0.00014420	3.68792	61.10628	175.32737	113.13440	3.84643
METEOSAT-8	15	257	14/09/2015	42168.30821	0.00009212	3.69134	61.11767	281.25912	13.98705	3.75307
METEOSAT-8	15	264	21/09/2015	42166.21028	0.00001131	3.70169	60.98612	67.42430	234.74874	3.65705
METEOSAT-8	15	271	28/09/2015	42168.12203	0.00007396	3.70815	60.98156	244.31205	64.70162	3.59850
METEOSAT-8	15	278	05/10/2015	42165.18951	0.00011378	3.72373	60.84631	203.91963	112.10807	3.57962
METEOSAT-8	15	285	12/10/2015	42166.35408	0.00011096	3.72942	60.78042	261.49341	61.51793	3.59591
METEOSAT-8	15	292	19/10/2015	42164.73864	0.00003357	3.74471	60.62204	208.07344	122.05619	3.65092
METEOSAT-8	15	299	26/10/2015	42165.61764	0.00012906	3.75447	60.56671	229.49760	107.68900	3.74425
METEOSAT-8	15	306	02/11/2015	42166.44430	0.00008263	3.77536	60.44415	210.78589	133.34266	3.65291
METEOSAT-8	15	313	09/11/2015	42167.03642	0.00010130	3.78527	60.36564	277.03234	74.00003	3.56538
METEOSAT-8	15	320	16/11/2015	42166.14478	0.00002105	3.80841	60.24042	292.52132	65.51701	3.53171

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METEOSAT-8	15	327	23/11/2015	42165.59582	0.00012576	3.82134	60.20346	239.25589	125.73931	3.53680
METEOSAT-8	15	334	30/11/2015	42165.02149	0.00011447	3.84539	60.16266	231.37138	140.63002	3.58742
METEOSAT-8	15	341	07/12/2015	42164.48899	0.00014418	3.85734	60.13256	269.01644	110.02422	3.68336
METEOSAT-8	15	348	14/12/2015	42167.69684	0.00003050	3.87982	60.12161	164.40011	221.44137	3.56210
METEOSAT-8	15	355	21/12/2015	42165.93433	0.00014595	3.89233	60.13648	219.25192	173.39770	3.47711
METEOSAT-8	15	362	28/12/2015	42166.82335	0.00010641	3.91439	60.19081	215.50903	183.95941	3.44503
METEOSAT-8	16	4	04/01/2016	42165.09201	0.00012278	3.92404	60.20758	253.21068	153.15656	3.45963
METEOSAT-8	16	11	11/01/2016	42166.26178	0.00002467	3.94301	60.27593	218.46105	194.78854	3.51276
METEOSAT-8	16	18	18/01/2016	42163.81451	0.00016575	3.95180	60.30575	230.50159	189.69809	3.59949
METEOSAT-8	16	25	25/01/2016	42165.51405	0.00010217	3.96806	60.40249	235.07381	192.06592	3.74626
METEOSAT-8	16	32	01/02/2016	42166.49112	0.00015094	3.97313	60.40419	229.72314	204.19218	3.63670
METEOSAT-8	16	39	08/02/2016	42167.86975	0.00007964	3.98701	60.47673	187.11898	253.53499	3.56280
METEOSAT-8	16	46	15/02/2016	42165.41917	0.00020729	3.99254	60.45095	217.71507	229.79790	3.51294
METEOSAT-8	16	53	22/02/2016	42167.05089	0.00013201	4.00361	60.51661	215.89370	238.45076	3.52724
METEOSAT-8	16	60	29/02/2016	42164.91251	0.00014126	4.00683	60.43955	235.51450	225.84405	3.58149
METEOSAT-8	16	67	07/03/2016	42165.66651	0.00006528	4.01805	60.46181	198.74606	269.56645	3.67324
METEOSAT-8	16	74	14/03/2016	42163.95360	0.00019921	4.02468	60.34850	221.49302	253.92587	3.77982
METEOSAT-8	16	81	21/03/2016	42168.01853	0.00004262	4.03454	60.35373	215.73425	266.53179	3.74208
METEOSAT-8	16	88	28/03/2016	42166.87805	0.00004923	4.04088	60.19887	240.05497	249.17510	3.65764
METEOSAT-8	16	95	04/04/2016	42166.41531	0.00003521	4.05338	60.17483	92.71787	43.38658	3.61033
METEOSAT-8	16	102	11/04/2016	42165.96792	0.00011740	4.06532	60.00160	213.31298	289.83015	3.57402
METEOSAT-8	16	109	18/04/2016	42165.49896	0.00002763	4.07760	59.98596	247.21729	262.87494	3.60149
METEOSAT-8	16	116	25/04/2016	42165.60893	0.00003595	4.08989	59.80800	224.41630	292.83144	3.66905
METEOSAT-8	16	123	02/05/2016	42166.85277	0.00006446	4.10518	59.79568	252.25977	2.09323	3.52575
METEOSAT-8	16	130	09/05/2016	42166.99980	0.00016836	4.12278	59.64173	206.36455	324.72909	3.52036
METEOSAT-8	16	137	16/05/2016	42165.31127	0.00005696	4.13718	59.65045	220.30440	317.67670	3.49959
METEOSAT-8	16	144	23/05/2016	42166.42453	0.00008892	4.15424	59.51883	199.07330	345.98333	3.52560
METEOSAT-8	16	151	30/05/2016	42163.93570	0.00005679	4.16968	59.55890	150.59362	41.40674	3.59221
METEOSAT-8	16	158	06/06/2016	42165.53729	0.00017436	4.19041	59.46784	201.83484	357.26414	3.68373
METEOSAT-8	16	165	13/06/2016	42165.77358	0.00001763	4.20346	59.52942	338.59246	227.31999	3.64598
METEOSAT-8	16	172	20/06/2016	42167.20763	0.00004071	4.22143	59.46926	173.26882	39.58301	3.61540
METEOSAT-8	16	179	27/06/2016	42164.67965	0.00005533	4.23364	59.55733	104.31133	115.36821	3.62559

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	16	186	04/07/2016	42166.26207	0.00012406	4.25308	59.53190	197.78041	28.87152	3.67102
METEOSAT-8	16	193	11/07/2016	42131.72090	0.00000426	4.26222	59.61307	61.19734	175.05577	6.45938
METEOSAT-8	16	200	18/07/2016	42132.24166	0.00006547	4.27760	59.59914	152.69641	93.53794	9.54149
METEOSAT-8	16	207	25/07/2016	42130.84340	0.00006533	4.28454	59.68725	135.09752	121.06342	12.67839
METEOSAT-8	16	214	01/08/2016	42130.65170	0.00013704	4.30061	59.68414	187.60001	78.64057	15.88208
METEOSAT-8	16	221	08/08/2016	42129.75068	0.00002347	4.30447	59.73626	196.59524	79.72702	19.14476
METEOSAT-8	16	228	15/08/2016	42128.03214	0.00010268	4.31683	59.71959	145.86403	140.69978	22.49694
METEOSAT-8	16	235	22/08/2016	42128.76474	0.00008481	4.32006	59.75016	168.92759	127.90200	25.91505
METEOSAT-8	16	242	29/08/2016	42126.03071	0.00016721	4.33379	59.73125	181.22752	126.00406	29.41198
METEOSAT-8	16	249	05/09/2016	42126.48879	0.00005706	4.33559	59.70317	198.84287	118.87423	32.97274
METEOSAT-8	16	256	12/09/2016	42123.79149	0.00013602	4.34727	59.64749	151.39362	176.93459	36.62071
METEOSAT-8	16	263	19/09/2016	42124.96537	0.00013209	4.35079	59.59714	185.41473	153.60148	40.34055
METEOSAT-8	16	270	26/09/2016	42166.64164	0.00020142	4.36509	59.54207	184.69396	162.44389	41.48849
METEOSAT-8	16	277	03/10/2016	42167.26927	0.00010224	4.36931	59.43896	203.24370	150.75878	41.33195
METEOSAT-8	16	284	10/10/2016	42165.37646	0.00015366	4.38391	59.35514	165.93260	195.00417	41.26295
METEOSAT-8	16	291	17/10/2016	42165.40610	0.00019094	4.39176	59.24906	198.32960	169.64433	41.27431
METEOSAT-8	16	298	24/10/2016	42163.16999	0.00023205	4.41030	59.19836	194.08418	180.96141	41.37633
METEOSAT-8	16	305	31/10/2016	42163.04129	0.00015283	4.41972	59.06741	211.09214	171.19099	41.56634
METEOSAT-8	16	312	07/11/2016	42168.00895	0.00006812	4.43819	59.00926	131.81585	257.26864	41.39673
METEOSAT-8	16	319	14/11/2016	42166.51525	0.00011380	4.45078	58.90808	215.18127	180.75107	41.23488
METEOSAT-8	16	326	21/11/2016	42165.65179	0.00011515	4.47472	58.89193	209.52177	193.28429	41.18782
METEOSAT-8	16	333	28/11/2016	42164.41428	0.00008634	4.48832	58.79555	256.58806	153.26316	41.23763
METEOSAT-8	16	340	05/12/2016	42164.47263	0.00005275	4.50828	58.81131	184.38357	232.48313	41.37469
METEOSAT-8	16	347	12/12/2016	42161.84164	0.00017128	4.52277	58.75899	233.10025	190.92463	41.59197
METEOSAT-8	16	354	19/12/2016	42168.97940	0.00002667	4.54255	58.83458	78.66667	352.08067	41.50461
METEOSAT-8	16	361	26/12/2016	42166.58983	0.00007390	4.55590	58.79253	351.40706	86.10767	41.34834
METEOSAT-8	17	2	02/01/2017	42167.26947	0.00008795	4.57239	58.87672	60.12013	24.11996	41.27411
METEOSAT-8	17	9	09/01/2017	42164.28807	0.00006078	4.58407	58.85830	272.09887	179.03602	41.27293
METEOSAT-8	17	16	16/01/2017	42165.72607	0.00004141	4.59818	58.97494	356.07958	101.91208	41.36855
METEOSAT-8	17	23	23/01/2017	42162.74555	0.00010796	4.60833	58.94114	335.38884	129.69736	41.55108
METEOSAT-8	17	30	30/01/2017	42163.45594	0.00008240	4.61863	59.03603	32.80088	79.33111	41.81061
METEOSAT-8	17	37	06/02/2017	42167.33305	0.00011252	4.62775	58.99566	195.58397	283.29431	41.63120

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METEOSAT-8	17	44	13/02/2017	42168.33867	0.00006411	4.63588	59.07993	150.01057	335.50853	41.46641
METEOSAT-8	17	51	20/02/2017	42165.76806	0.00001484	4.64357	59.00930	184.23381	308.16745	41.38357
METEOSAT-8	17	58	27/02/2017	42165.79874	0.00009200	4.64987	59.05468	115.41731	23.83191	41.37700
METEOSAT-8	17	65	06/03/2017	42164.03538	0.00008580	4.65949	58.96002	208.54525	297.75758	41.43072
METEOSAT-8	17	72	13/03/2017	42163.89452	0.00002200	4.66498	58.97394	107.77061	45.58032	41.58197
METEOSAT-8	17	79	20/03/2017	42167.68148	0.00011590	4.67472	58.84841	181.08328	339.21280	41.48663
METEOSAT-8	17	86	27/03/2017	42166.46688	0.00014580	4.68143	58.83467	150.02365	17.05871	41.34089
METEOSAT-8	17	93	03/04/2017	42165.93037	0.00017890	4.69577	58.70246	195.10038	338.95231	41.25776
METEOSAT-8	17	100	10/04/2017	42164.51904	0.00008860	4.70328	58.66279	166.56033	14.47226	41.27530
METEOSAT-8	17	107	17/04/2017	42164.47679	0.00010430	4.71809	58.52067	175.85472	12.35225	41.38420
METEOSAT-8	17	114	24/04/2017	42162.01545	0.00012490	4.72776	58.48620	141.66856	53.68771	41.57725
METEOSAT-8	17	121	01/05/2017	42168.57705	0.00014860	4.74795	58.37424	248.57093	313.63451	41.39594
METEOSAT-8	17	128	08/05/2017	42166.15975	0.00007390	4.75835	58.33328	307.45769	261.53550	41.22834
METEOSAT-8	17	135	15/05/2017	42166.94497	0.00007170	4.77765	58.23580	273.65991	302.27489	41.16206
METEOSAT-8	17	142	22/05/2017	42163.89459	0.00001650	4.78888	58.22576	341.69917	241.17044	41.18217
METEOSAT-8	17	149	29/05/2017	42165.13375	0.00013470	4.81242	58.17301	250.13265	339.78564	41.27869
METEOSAT-8	17	156	05/06/2017	42162.27663	0.00006690	4.82326	58.16349	327.45193	269.55985	41.47006
METEOSAT-8	17	163	12/06/2017	42168.79010	0.00014220	4.84350	58.13729	202.69682	41.16593	41.40699
METEOSAT-8	17	170	19/06/2017	42166.04846	0.00012600	4.85318	58.15890	181.13254	69.46384	41.27929
METEOSAT-8	17	177	26/06/2017	42166.99434	0.00021610	4.87541	58.17412	212.57846	44.83389	41.23115
METEOSAT-8	17	184	03/07/2017	42164.42850	0.00008680	4.88383	58.18719	197.20865	67.09970	41.26439
METEOSAT-8	17	191	10/07/2017	42164.61451	0.00014880	4.90088	58.21889	191.76690	79.52520	41.40557
METEOSAT-8	17	198	17/07/2017	42162.92007	0.00014590	4.90690	58.24064	182.08438	96.27628	41.62197
METEOSAT-8	17	205	24/07/2017	42168.20763	0.00012290	4.92435	58.29162	235.99490	49.06790	41.49838
METEOSAT-8	17	212	31/07/2017	42166.59269	0.00003800	4.92935	58.28742	321.47674	330.34300	41.37180
METEOSAT-8	17	219	07/08/2017	42165.66029	0.00005060	4.94197	58.32596	197.08121	101.56089	41.34961
METEOSAT-8	17	226	14/08/2017	42165.31890	0.00004760	4.94439	58.30790	206.54893	99.04646	41.39675
METEOSAT-8	17	233	21/08/2017	42163.75859	0.00013250	4.95841	58.34930	223.66807	88.90628	41.52341
METEOSAT-8	17	240	28/08/2017	42163.34439	0.00002990	4.96175	58.29077	286.04844	33.67305	41.71170
METEOSAT-8	17	247	04/09/2017	42167.16556	0.00009340	4.97165	58.30080	286.76725	39.76176	41.62296
METEOSAT-8	17	254	11/09/2017	42168.02220	0.00013250	4.97521	58.21604	292.00958	41.34717	41.45393
METEOSAT-8	17	261	18/09/2017	42165.26211	0.00017750	4.98731	58.22139	267.17005	73.01207	41.36775

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METEOSAT-8	17	268	25/09/2017	42165.78274	0.00015940	4.99313	58.09884	309.43083	37.77600	41.34837
METEOSAT-8	17	275	02/10/2017	42162.66054	0.00011900	5.00701	58.04422	267.53609	86.76477	41.46295
METEOSAT-8	17	282	09/10/2017	42164.01671	0.00017230	5.01557	57.90773	280.25909	81.30225	41.66001
METEOSAT-8	17	289	16/10/2017	42166.81786	0.00007900	5.02929	57.89263	279.28403	89.03301	41.47549
METEOSAT-8	17	296	23/10/2017	42167.68856	0.00012330	5.04093	57.74435	347.22400	27.98143	41.29173
METEOSAT-8	17	303	30/10/2017	42165.23842	0.00001700	5.05507	57.71768	319.94178	62.12271	41.20306
METEOSAT-8	17	310	06/11/2017	42166.14758	0.00009340	5.07019	57.58650	304.52333	84.58624	41.19984
METEOSAT-8	17	317	13/11/2017	42163.13598	0.00011670	5.08636	57.59567	274.43455	121.66760	41.28983
METEOSAT-8	17	324	20/11/2017	42163.66483	0.00012710	5.10338	57.47838	326.94891	76.35734	41.47118
METEOSAT-8	17	331	27/11/2017	42167.69304	0.00010400	5.11898	57.49386	166.99167	243.11103	41.38439
METEOSAT-8	17	338	04/12/2017	42167.32580	0.00009050	5.13780	57.41290	225.42270	191.50404	41.23515
METEOSAT-8	17	345	11/12/2017	42165.52300	0.00011690	5.15326	57.47275	223.55599	200.14059	41.17849
METEOSAT-8	17	352	18/12/2017	42166.30325	0.00006170	5.17134	57.41786	293.82148	136.79190	41.15989
METEOSAT-8	17	359	25/12/2017	42165.65111	0.00006780	5.18399	57.48329	205.45465	231.99035	41.18070
METEOSAT-8	18	1	01/01/2018	42163.82202	0.00014000	5.20169	57.45533	261.54948	182.90236	41.28717
METEOSAT-8	18	8	08/01/2018	42163.66140	0.00012030	5.21234	57.54359	258.46880	192.95945	41.48096
METEOSAT-8	18	15	15/01/2018	42162.08508	0.00011330	5.22759	57.52881	299.08374	159.51726	41.76886
METEOSAT-8	18	22	22/01/2018	42168.76025	0.00010200	5.23414	57.59886	11.14915	94.11897	41.63203
METEOSAT-8	18	29	29/01/2018	42165.97868	0.00017950	5.24809	57.57796	326.42678	145.59667	41.48982
METEOSAT-8	18	36	05/02/2018	42167.34629	0.00016290	5.25287	57.65233	341.82406	136.92776	41.41107
METEOSAT-8	18	43	12/02/2018	42164.69508	0.00023610	5.26473	57.62633	348.34424	137.32556	41.41657
METEOSAT-8	18	50	19/02/2018	42165.39854	0.00014210	5.26711	57.64831	358.80245	133.80979	41.48757
METEOSAT-8	18	57	26/02/2018	42162.44370	0.00023200	5.27950	57.60056	329.43981	170.26446	41.63168
METEOSAT-8	18	64	05/03/2018	42168.77412	0.00022650	5.28242	57.59279	317.33479	189.20133	41.54836
METEOSAT-8	18	71	12/03/2018	42165.77211	0.00028430	5.29441	57.52934	325.85578	187.52942	41.42046
METEOSAT-8	18	78	19/03/2018	42166.34538	0.00018540	5.29687	57.48565	321.98388	198.30535	41.36113
METEOSAT-8	18	85	26/03/2018	42163.89207	0.00030080	5.31186	57.40775	312.99079	214.31547	41.37584
METEOSAT-8	18	92	02/04/2018	42164.62212	0.00025780	5.31721	57.33642	328.24809	206.16070	41.47885
METEOSAT-8	18	99	09/04/2018	42162.30813	0.00030380	5.33268	57.25473	331.47044	210.14574	41.67418
METEOSAT-8	18	106	16/04/2018	42168.33325	0.00011810	5.33911	57.17284	14.42362	174.07520	41.54625
METEOSAT-8	18	113	23/04/2018	42166.90945	0.00018090	5.35882	57.10776	336.52404	218.75435	41.33387
METEOSAT-8	18	120	30/04/2018	42166.42930	0.00019110	5.36833	57.01854	7.15801	195.01710	41.21778

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METEOSAT-8	18	127	07/05/2018	42165.41463	0.00020740	5.38730	56.96631	1.79823	207.33247	41.20174
METEOSAT-8	18	134	14/05/2018	42163.89891	0.00015500	5.39743	56.89490	21.00517	195.17869	41.27059
METEOSAT-8	18	141	21/05/2018	42163.71823	0.00019300	5.41974	56.88408	344.83239	238.41801	41.41978
METEOSAT-8	18	148	28/05/2018	42167.30509	0.00010780	5.43223	56.81600	33.99351	196.13433	41.33087
METEOSAT-8	18	155	04/06/2018	42167.54979	0.00008580	5.45130	56.82160	19.56785	217.32434	41.20918
METEOSAT-8	18	162	11/06/2018	42164.91976	0.00008960	5.46220	56.78113	69.39943	174.38106	41.17299
METEOSAT-8	18	169	18/06/2018	42165.77457	0.00007500	5.48309	56.83185	335.12630	275.52362	41.21461
METEOSAT-8	18	176	25/06/2018	42163.19309	0.00013210	5.49488	56.79343	44.52848	213.16787	41.35038
METEOSAT-8	18	183	02/07/2018	42164.08851	0.00008430	5.51040	56.84618	35.34817	229.40463	41.59075
METEOSAT-8	18	190	09/07/2018	42166.85439	0.00006360	5.51922	56.82076	181.32449	90.26985	41.53904
METEOSAT-8	18	197	16/07/2018	42168.07727	0.00012170	5.53514	56.90654	257.30060	20.94671	41.40876
METEOSAT-8	18	204	23/07/2018	42165.22373	0.00001210	5.54464	56.87169	120.92090	164.18224	41.35990
METEOSAT-8	18	211	30/07/2018	42165.98865	0.00005810	5.55452	56.93318	220.34549	71.62137	41.41152
METEOSAT-8	18	218	06/08/2018	42163.45552	0.00007660	5.56066	56.88928	179.44134	119.56966	41.53342
METEOSAT-8	18	225	13/08/2018	42164.12572	0.00011410	5.57146	56.96141	247.98865	58.02657	41.72451
METEOSAT-8	18	232	20/08/2018	42167.04437	0.00011810	5.57944	56.89704	42.18471	270.64146	41.57822
METEOSAT-8	18	239	27/08/2018	42166.98584	0.00004580	5.58543	56.92823	45.31379	274.26457	41.46095
METEOSAT-8	18	246	03/09/2018	42165.60446	0.00005480	5.59186	56.83930	68.50638	258.02026	41.41202
METEOSAT-8	18	253	10/09/2018	42165.05995	0.00005790	5.59985	56.86840	317.75029	15.68646	41.43554
METEOSAT-8	18	260	17/09/2018	42163.74291	0.00010410	5.60998	56.76209	45.11400	295.44350	41.52732
METEOSAT-8	18	267	24/09/2018	42162.49605	0.00002700	5.61564	56.74884	99.41642	248.27321	41.71787
METEOSAT-8	18	274	01/10/2018	42168.51976	0.00011010	5.62652	56.62102	262.05658	92.56787	41.59397
METEOSAT-8	18	281	08/10/2018	42166.58078	0.00018840	5.63540	56.61143	267.56381	93.80737	41.39926
METEOSAT-8	18	288	15/10/2018	42166.48670	0.00009140	5.65067	56.48605	293.11167	75.19876	41.28053
METEOSAT-8	18	295	22/10/2018	42164.48078	0.00015910	5.66107	56.45686	246.30110	128.93539	41.24691
METEOSAT-8	18	302	29/10/2018	42165.48724	0.00014640	5.67866	56.33307	261.80349	120.53050	41.29314
METEOSAT-8	18	309	05/11/2018	42162.51892	0.00022160	5.69012	56.31742	264.16043	125.24565	41.42809
METEOSAT-8	18	316	12/11/2018	42168.03336	0.00006600	5.71062	56.21859	348.53313	47.74156	41.28340
METEOSAT-8	18	323	19/11/2018	42165.40201	0.00008340	5.72157	56.20352	243.62010	159.46896	41.17633
METEOSAT-8	18	330	26/11/2018	42166.70140	0.00007950	5.74381	56.13305	287.95483	122.09109	41.16391
METEOSAT-8	18	337	03/12/2018	42163.40469	0.00014710	5.75594	56.14279	279.79946	137.20449	41.24176
METEOSAT-8	18	344	10/12/2018	42164.28611	0.00008970	5.77765	56.11077	326.35150	97.73977	41.41500

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	18	351	17/12/2018	42166.71642	0.00021400	5.78780	56.12756	242.39611	188.47294	41.33407
METEOSAT-8	18	358	24/12/2018	42167.33888	0.00020320	5.80962	56.12274	262.89542	174.78047	41.26563
METEOSAT-8	18	365	31/12/2018	42164.60132	0.00025120	5.81879	56.15458	265.97158	178.55283	41.27993
METEOSAT-8	19	7	07/01/2019	42164.96047	0.00016950	5.83711	56.17331	279.33848	172.14055	41.38953
METEOSAT-8	19	14	14/01/2019	42163.56903	0.00022370	5.84262	56.19735	253.51393	204.98588	41.57091
METEOSAT-8	19	21	21/01/2019	42162.76511	0.00024740	5.86014	56.22271	275.68822	189.92286	41.84214
METEOSAT-8	19	28	28/01/2019	42168.01714	0.00013150	5.86481	56.23358	304.06656	168.32809	41.76526
METEOSAT-8	19	35	04/02/2019	42167.33822	0.00012620	5.87829	56.25929	340.51196	138.57807	41.60916
METEOSAT-8	19	42	11/02/2019	42166.92894	0.00008010	5.87994	56.24306	289.22275	196.67209	41.51351
METEOSAT-8	19	49	18/02/2019	42164.74718	0.00017760	5.89365	56.25275	317.52640	175.23959	41.50250
METEOSAT-8	19	56	25/02/2019	42164.99833	0.00015460	5.89699	56.20918	321.31319	178.45418	41.55940
METEOSAT-8	19	63	04/03/2019	42163.09108	0.00017790	5.90803	56.20436	345.00465	161.82475	41.70685
METEOSAT-8	19	70	11/03/2019	42163.46434	0.00010210	5.91021	56.12500	315.14251	198.89129	41.91299
METEOSAT-8	19	77	18/03/2019	42167.14388	0.00023520	5.92361	56.10413	8.49352	152.43548	41.86232
METEOSAT-8	19	84	25/03/2019	42168.44082	0.00021790	5.93025	56.00238	21.68813	146.04301	41.63257
METEOSAT-8	19	91	01/04/2019	42165.61692	0.00028710	5.94278	55.97391	24.82088	149.73842	41.49811
METEOSAT-8	19	98	08/04/2019	42166.33052	0.00018380	5.94968	55.85364	31.52620	150.02387	41.43192
METEOSAT-8	19	105	15/04/2019	42163.44523	0.00028370	5.96590	55.82848	12.40649	176.12625	41.45267
METEOSAT-8	19	112	22/04/2019	42164.74351	0.00026530	5.97803	55.70827	26.50694	169.18734	41.55902
METEOSAT-8	19	119	29/04/2019	42167.06041	0.00025880	5.99308	55.69187	7.09085	195.42369	41.43365
METEOSAT-8	19	126	06/05/2019	42167.48917	0.00015630	6.00563	55.57508	3.47042	205.90804	41.25766
METEOSAT-8	19	133	13/05/2019	42165.29000	0.00027220	6.02362	55.58226	355.70984	220.48953	41.16966
METEOSAT-8	19	140	20/05/2019	42165.73522	0.00023500	6.04024	55.48651	11.51359	211.69835	41.17895
METEOSAT-8	19	147	27/05/2019	42163.71833	0.00027330	6.05554	55.50410	13.32312	216.88315	41.29265
METEOSAT-8	19	154	03/06/2019	42163.19363	0.00018250	6.07083	55.42471	16.05823	221.31837	41.49538
METEOSAT-8	19	161	10/06/2019	42167.64484	0.00016900	6.08717	55.47663	346.93148	257.13489	41.35624
METEOSAT-8	19	168	17/06/2019	42166.82917	0.00012870	6.10463	55.42109	19.00729	231.87630	41.24497
METEOSAT-8	19	175	24/06/2019	42166.16538	0.00014150	6.11660	55.47074	13.03905	244.64988	41.23304
METEOSAT-8	19	182	01/07/2019	42164.37723	0.00006760	6.13098	55.42494	32.57899	232.09182	41.30746
METEOSAT-8	19	189	08/07/2019	42164.50242	0.00016510	6.14264	55.50007	356.34238	275.25680	41.45098
METEOSAT-8	19	196	15/07/2019	42162.49956	0.00014050	6.15816	55.47039	35.61084	243.11610	41.69015
METEOSAT-8	19	203	22/07/2019	42168.77603	0.00001420	6.16476	55.52090	247.51841	37.97809	41.64654

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	19	210	29/07/2019	42165.98611	0.00008030	6.17638	55.48016	174.96465	117.32614	41.53212
METEOSAT-8	19	217	05/08/2019	42166.98847	0.00005970	6.18317	55.53994	303.13262	355.91610	41.47505
METEOSAT-8	19	224	12/08/2019	42164.24286	0.00005540	6.19642	55.50542	121.83383	184.16182	41.50559
METEOSAT-8	19	231	19/08/2019	42165.17780	0.00003170	6.19872	55.52016	193.54822	119.43932	41.62057
METEOSAT-8	19	238	26/08/2019	42162.20964	0.00009660	6.20952	55.45758	170.16843	149.96998	41.80758
METEOSAT-8	19	245	02/09/2019	42168.63666	0.00014110	6.21345	55.47146	356.30857	330.62793	41.70845
METEOSAT-8	19	252	09/09/2019	42165.80730	0.00011350	6.22699	55.41441	49.40303	284.36082	41.55929
METEOSAT-8	19	259	16/09/2019	42166.40433	0.00006680	6.22884	55.37456	18.52293	322.14640	41.49707
METEOSAT-8	19	266	23/09/2019	42164.14171	0.00004660	6.24202	55.28762	66.21305	281.49236	41.51172
METEOSAT-8	19	273	30/09/2019	42164.50435	0.00012130	6.24729	55.24959	355.93447	358.82707	41.59067
METEOSAT-8	19	280	07/10/2019	42166.71177	0.00003710	6.26438	55.18048	137.16200	224.42413	41.40623
METEOSAT-8	19	287	14/10/2019	42166.37599	0.00007290	6.26951	55.10227	224.22549	144.24846	41.27601
METEOSAT-8	19	294	21/10/2019	42165.35494	0.00007520	6.28777	55.01772	203.26117	172.19282	41.23340
METEOSAT-8	19	301	28/10/2019	42164.28681	0.00008860	6.29905	54.95027	279.18730	103.31354	41.27956
METEOSAT-8	19	308	04/11/2019	42163.31710	0.00003110	6.32036	54.90293	178.61555	211.00015	41.42006
METEOSAT-8	19	315	11/11/2019	42166.83641	0.00015390	6.32993	54.82799	183.13622	213.33366	41.28219
METEOSAT-8	19	322	18/11/2019	42167.12585	0.00014379	6.35201	54.78778	171.07653	232.23189	41.17214
METEOSAT-8	19	329	25/11/2019	42164.87368	0.00008254	6.36401	54.74202	203.27094	206.95662	41.14788
METEOSAT-8	19	336	02/12/2019	42165.07573	0.00012260	6.38626	54.74495	150.71056	266.47393	41.21963
METEOSAT-8	19	343	09/12/2019	42162.72830	0.00015740	6.39717	54.69914	197.21530	227.06065	41.38825
METEOSAT-8	19	350	16/12/2019	42168.62463	0.00002140	6.41859	54.72107	253.09522	177.99314	41.35233
METEOSAT-8	19	354	20/12/2019	42166.21390	0.00007900	6.42258	54.72965	264.95558	169.99244	41.29804
METEOSAT-8	19	364	30/12/2019	42166.35419	0.00003300	6.44839	54.74835	33.41794	51.30701	41.29432
METEOSAT-8	20	6	06/01/2020	42163.80304	0.00009220	6.45682	54.72093	261.36043	190.34604	41.39323
METEOSAT-8	20	13	13/01/2020	42165.01031	0.00005520	6.47347	54.78097	312.66184	146.03320	41.58616
METEOSAT-8	20	20	20/01/2020	42166.26525	0.00008770	6.48208	54.75416	259.45088	206.04829	41.50397
METEOSAT-8	20	27	27/01/2020	42167.05435	0.00003990	6.49392	54.81182	173.67477	298.57604	41.44827
METEOSAT-8	20	34	03/02/2020	42164.99883	0.00012480	6.49934	54.76381	230.01566	249.16561	41.45935
METEOSAT-8	20	41	10/02/2020	42165.26699	0.00004970	6.51061	54.81483	261.36169	224.74727	41.55756
METEOSAT-8	20	48	17/02/2020	42162.84053	0.00008510	6.51821	54.75323	290.59574	202.62755	41.71968
METEOSAT-8	20	55	24/02/2020	42167.68393	0.00011780	6.52568	54.77509	48.91164	91.12967	41.65778
METEOSAT-8	20	62	02/03/2020	42166.54279	0.00003140	6.53136	54.68224	5.28583	141.63880	41.53607

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	20	69	09/03/2020	42165.30190	0.00013750	6.54066	54.69855	18.33978	135.45411	41.49964
METEOSAT-8	20	76	16/03/2020	42164.39565	0.00013980	6.55139	54.59242	13.34142	147.51971	41.52940
METEOSAT-8	20	83	23/03/2020	42166.37441	0.00010440	6.55850	54.57900	57.99322	109.70906	41.41974
METEOSAT-8	20	90	30/03/2020	42166.17210	0.00001100	6.56891	54.45146	88.20144	86.49247	41.34107
METEOSAT-8	20	97	06/04/2020	42163.67246	0.00013380	6.57958	54.44197	24.19130	157.46688	41.35077
METEOSAT-8	20	104	13/04/2020	42164.27592	0.00010660	6.59642	54.32462	29.38628	159.42380	41.43938
METEOSAT-8	20	111	20/04/2020	42166.58557	0.00011550	6.60594	54.30037	7.29630	188.38328	41.34353
METEOSAT-8	20	118	27/04/2020	42167.09003	0.00007970	6.62237	54.18065	311.17452	251.43018	41.21275
METEOSAT-8	20	125	04/05/2020	42164.09689	0.00018160	6.63477	54.17704	357.92533	211.57211	41.17340
METEOSAT-8	20	132	11/05/2020	42165.47566	0.00012820	6.65668	54.08977	355.75476	220.80505	41.22842
METEOSAT-8	20	139	18/05/2020	42162.57635	0.00014660	6.66744	54.07968	21.94504	201.69254	41.38766
METEOSAT-8	20	146	25/05/2020	42168.11910	0.00018550	6.68715	54.00208	333.58515	256.91176	41.27191
METEOSAT-8	20	153	01/06/2020	42165.41346	0.00029110	6.69880	54.02168	355.36814	241.89844	41.17490
METEOSAT-8	20	160	08/06/2020	42166.56448	0.00022550	6.72184	53.98325	353.71322	250.47444	41.18144
METEOSAT-8	20	167	15/06/2020	42163.81683	0.00023110	6.73075	53.99345	6.84728	244.30107	41.28650
METEOSAT-8	20	174	22/06/2020	42164.06669	0.00017080	6.75036	53.96180	347.13983	271.09720	41.48560
METEOSAT-8	20	181	29/06/2020	42166.99620	0.00026050	6.75871	53.99191	26.83601	238.16787	41.42799
METEOSAT-8	20	188	06/07/2020	42167.12120	0.00020170	6.77895	53.99292	38.40184	233.39128	41.36594
METEOSAT-8	20	195	13/07/2020	42165.40773	0.00021960	6.78378	54.00276	43.18906	235.46887	41.38855
METEOSAT-8	20	202	20/07/2020	42164.59426	0.00014040	6.80028	53.99565	46.64861	238.97988	41.49751
METEOSAT-8	20	209	27/07/2020	42163.86808	0.00025980	6.80457	54.00870	34.11895	258.51816	41.65863
METEOSAT-8	20	216	03/08/2020	42167.15313	0.00014910	6.82071	54.01886	81.06864	218.39225	41.62323
METEOSAT-8	20	223	10/08/2020	42166.81059	0.00014300	6.82232	53.99553	77.45652	228.83379	41.54974
METEOSAT-8	20	230	17/08/2020	42164.73176	0.00011760	6.83599	53.98217	109.11235	204.08783	41.55624
METEOSAT-8	20	237	24/08/2020	42165.12815	0.00017040	6.83882	53.95148	58.06209	262.12022	41.60531
METEOSAT-8	20	244	31/08/2020	42162.82386	0.00016690	6.85243	53.94823	94.15171	233.09272	41.75009
METEOSAT-8	20	251	07/09/2020	42168.25841	0.00012180	6.85442	53.87364	138.72225	195.42233	41.65063
METEOSAT-8	20	258	14/09/2020	42165.36584	0.00017710	6.86778	53.84131	158.51500	182.46403	41.51903
METEOSAT-8	20	265	21/09/2020	42166.45944	0.00009840	6.87317	53.76151	106.40813	241.50937	41.43588
METEOSAT-8	20	272	28/09/2020	42163.58178	0.00018080	6.88741	53.74187	141.84013	213.06079	41.45237
METEOSAT-8	20	279	05/10/2020	42164.46629	0.00013230	6.89363	53.62787	149.69153	212.37389	41.55204
METEOSAT-8	20	286	12/10/2020	42166.33682	0.00016750	6.90933	53.58852	198.28978	170.65365	41.44214

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-8	20	293	19/10/2020	42167.33704	0.00003530	6.92059	53.48537	224.95941	150.86794	41.27771
METEOSAT-8	20	300	26/10/2020	42164.88740	0.00014650	6.93955	53.47845	188.34955	194.34511	41.19852
METEOSAT-8	20	307	02/11/2020	42165.28029	0.00013790	6.95182	53.36294	213.58588	176.16795	41.21055
METEOSAT-8	20	314	09/11/2020	42163.36644	0.00017740	6.97004	53.34879	206.11865	190.68179	41.32153
METEOSAT-8	20	321	16/11/2020	42167.61465	0.00011170	6.98627	53.25780	174.19059	229.48181	41.19346
METEOSAT-8	20	328	23/11/2020	42165.74183	0.00021890	7.00417	53.28040	173.02304	237.44011	41.10949
METEOSAT-8	20	335	30/11/2020	42165.14680	0.00019340	7.02001	53.19492	192.72224	224.73292	41.13162
METEOSAT-8	20	342	07/12/2020	42164.53598	0.00021060	7.03724	53.22286	187.06031	237.36166	41.25335
METEOSAT-8	20	349	14/12/2020	42163.20319	0.00010930	7.05484	53.16754	192.03629	239.50927	41.46007
METEOSAT-8	20	356	21/12/2020	42167.72303	0.00014620	7.06923	53.22128	141.77805	296.53660	41.42730
METEOSAT-8	20	363	28/12/2020	42166.02613	0.00008390	7.08438	53.17181	175.90248	269.24443	41.36041
METEOSAT-8	21	4	04/01/2021	42166.64715	0.00009860	7.09668	53.22810	150.80725	301.15373	41.38335
METEOSAT-8	21	11	11/01/2021	42164.05761	0.00003660	7.11176	53.19198	81.73190	17.21288	41.48456

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	06	16	16/01/2006	42167.09478	0.00003417	1.78711	245.30303	192.76200	30.71747	-6.52265
METEOSAT-9	06	23	23/01/2006	42165.62209	0.00007581	1.77914	244.78878	148.77309	82.09242	-6.54991
METEOSAT-9	06	30	30/01/2006	42167.22127	0.00010019	1.75379	244.12361	202.83102	35.59158	-6.55623
METEOSAT-9	06	37	06/02/2006	42165.34793	0.00007855	1.74501	243.64667	119.98855	125.79388	-6.57077
METEOSAT-9	06	44	13/02/2006	42166.90135	0.00005126	1.72747	242.93561	184.49802	68.91726	-6.54577
METEOSAT-9	06	51	20/02/2006	42165.05308	0.00008844	1.72405	242.54625	154.12848	106.59808	-6.52026
METEOSAT-9	06	58	27/02/2006	42166.81415	0.00011319	1.70481	241.84980	200.50710	67.86024	-6.47215
METEOSAT-9	06	65	06/03/2006	42164.78687	0.00008640	1.69792	241.57175	128.07896	147.49599	-6.43887
METEOSAT-9	06	72	13/03/2006	42166.33161	0.00006970	1.68490	240.92341	184.91625	98.28157	-6.36084
METEOSAT-9	06	79	20/03/2006	42164.79987	0.00009437	1.68075	240.78834	164.55809	125.74941	-6.28306
METEOSAT-9	06	86	27/03/2006	42168.10637	0.00007584	1.66370	240.16906	213.08947	84.72302	-6.29498
METEOSAT-9	06	93	03/04/2006	42166.68631	0.00005722	1.65281	240.11908	97.70693	206.94188	-6.40687
METEOSAT-9	06	100	10/04/2006	42167.49530	0.00003655	1.63959	239.55652	195.04300	117.00203	-6.47225
METEOSAT-9	06	107	17/04/2006	42166.87380	0.00004104	1.62910	239.61026	168.88854	149.93694	-6.53764
METEOSAT-9	06	114	24/04/2006	42166.86728	0.00008403	1.61090	239.00556	213.97797	112.31022	-6.58028
METEOSAT-9	06	121	01/05/2006	42166.52614	0.00003833	1.59257	239.04818	98.08246	235.01117	-6.63328
METEOSAT-9	06	128	08/05/2006	42166.19554	0.00005721	1.57723	238.45570	201.09697	139.47902	-6.64507
METEOSAT-9	06	135	15/05/2006	42166.75377	0.00003403	1.55890	238.50206	197.79314	149.62978	-6.65356
METEOSAT-9	06	142	22/05/2006	42165.55855	0.00009045	1.54002	237.76876	220.97018	134.09887	-6.64314
METEOSAT-9	06	149	29/05/2006	42166.34141	0.00002010	1.51560	237.68908	71.86049	290.20084	-6.63265
METEOSAT-9	06	156	05/06/2006	42164.99397	0.00007172	1.50053	236.94084	211.81426	157.93946	-6.59067
METEOSAT-9	06	163	12/06/2006	42166.47346	0.00002891	1.47753	236.78737	235.83242	141.02746	-6.53955
METEOSAT-9	06	170	19/06/2006	42164.70833	0.00009325	1.46279	235.79813	229.47341	155.31926	-6.49748
METEOSAT-9	06	177	26/06/2006	42166.26454	0.00001869	1.43703	235.44427	26.79132	5.30526	-6.44809
METEOSAT-9	06	184	03/07/2006	42164.52041	0.00007746	1.42664	234.52081	221.27885	178.70927	-6.38026
METEOSAT-9	06	191	10/07/2006	42122.63379	0.00004909	1.40399	234.09986	2.51775	46.85298	-4.31799
METEOSAT-9	06	198	17/07/2006	42120.37123	0.00004190	1.39476	233.00968	295.82958	125.54307	-0.30445
METEOSAT-9	06	205	24/07/2006	42168.08901	0.00010344	1.37209	232.40943	24.81688	44.79526	0.43690
METEOSAT-9	06	212	31/07/2006	42166.65534	0.00002132	1.36878	231.47679	338.18191	99.16788	0.34428
METEOSAT-9	06	219	07/08/2006	42167.03772	0.00007411	1.34958	230.88850	2.35416	82.43211	0.29488
METEOSAT-9	06	226	14/08/2006	42165.74043	0.00005837	1.34706	229.90162	347.73386	104.90464	0.26289
METEOSAT-9	06	233	21/08/2006	42166.40775	0.00013068	1.32870	229.19495	23.31868	76.94113	0.27987

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	06	240	28/08/2006	42165.80163	0.00004823	1.33011	228.48899	11.10814	96.78436	0.30902
METEOSAT-9	06	247	04/09/2006	42165.00515	0.00010445	1.31355	227.89837	5.82913	109.63004	0.38685
METEOSAT-9	06	254	11/09/2006	42165.15685	0.00008927	1.31305	227.21034	17.52156	105.61559	0.47843
METEOSAT-9	06	261	18/09/2006	42164.55543	0.00016483	1.29608	226.52881	25.43847	105.42393	0.62286
METEOSAT-9	06	268	25/09/2006	42164.79864	0.00007811	1.29639	226.14541	27.19636	111.10275	0.77688
METEOSAT-9	06	275	02/10/2006	42168.57808	0.00003826	1.27876	225.60202	299.50671	206.15990	0.70080
METEOSAT-9	06	282	09/10/2006	42169.96019	0.00001489	1.27409	225.21102	153.99713	358.68654	0.42657
METEOSAT-9	06	289	16/10/2006	42168.14603	0.00006945	1.25485	224.51280	28.50322	131.55906	0.20598
METEOSAT-9	06	296	23/10/2006	42169.02847	0.00002720	1.24884	224.32713	181.27236	345.66676	-0.00361
METEOSAT-9	06	303	30/10/2006	42166.96087	0.00004314	1.22749	223.67131	355.46527	178.87427	-0.16040
METEOSAT-9	06	310	06/11/2006	42168.79249	0.00004562	1.21590	223.37553	91.45257	89.94040	-0.30379
METEOSAT-9	06	317	13/11/2006	42166.40417	0.00010028	1.19455	222.44564	40.61729	148.51325	-0.39746
METEOSAT-9	06	324	20/11/2006	42167.53379	0.00003333	1.18196	222.19891	121.18771	75.01165	-0.47608
METEOSAT-9	06	331	27/11/2006	42165.68185	0.00005992	1.15965	221.15977	29.85498	174.25424	-0.50624
METEOSAT-9	06	338	04/12/2006	42167.07662	0.00008014	1.14334	220.69073	87.08591	124.37701	-0.52176
METEOSAT-9	06	345	11/12/2006	42165.03590	0.00011689	1.12488	219.35600	53.21847	166.50990	-0.49119
METEOSAT-9	06	352	18/12/2006	42165.79911	0.00005874	1.11055	218.83238	109.23497	117.96755	-0.44010
METEOSAT-9	06	359	25/12/2006	42164.72739	0.00007116	1.09400	217.30971	51.03853	184.67797	-0.34806
METEOSAT-9	07	1	01/01/2007	42165.08894	0.00010692	1.07851	216.56077	91.78995	151.68397	-0.23829
METEOSAT-9	07	8	08/01/2007	42164.14329	0.00011453	1.06935	214.92674	67.05863	185.10149	-0.08474
METEOSAT-9	07	15	15/01/2007	42163.92035	0.00008261	1.05850	214.20010	114.31047	145.65399	0.09472
METEOSAT-9	07	22	22/01/2007	42163.99497	0.00007109	1.05241	212.46593	66.57423	202.23514	0.30722
METEOSAT-9	07	29	29/01/2007	42163.11756	0.00012324	1.04048	211.62148	101.05893	175.72803	0.54213
METEOSAT-9	07	36	05/02/2007	42163.46963	0.00009769	1.04148	210.09870	81.27503	204.21205	0.82114
METEOSAT-9	07	43	12/02/2007	42168.48428	0.00007907	1.03368	209.45946	7.47129	285.36839	0.63595
METEOSAT-9	07	50	19/02/2007	42169.58768	0.00014994	1.03530	207.94359	357.57025	303.44656	0.39839
METEOSAT-9	07	57	26/02/2007	42167.72663	0.00010532	1.02382	207.20941	30.62600	277.81275	0.18697
METEOSAT-9	07	64	05/03/2007	42168.96489	0.00013292	1.02867	206.09855	6.53831	309.74218	0.01854
METEOSAT-9	07	71	12/03/2007	42166.92449	0.00006834	1.01873	205.64741	11.57241	311.92200	-0.11841
METEOSAT-9	07	78	19/03/2007	42168.45881	0.00014609	1.02105	204.47728	358.18552	333.26452	-0.23291
METEOSAT-9	07	85	26/03/2007	42166.16049	0.00009761	1.00520	203.78699	33.58357	305.37074	-0.31932
METEOSAT-9	07	92	02/04/2007	42167.64101	0.00012373	1.00727	202.99671	2.35354	344.24636	-0.36444

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	07	99	09/04/2007	42165.64489	0.00006677	0.99154	202.51015	10.20099	343.77455	-0.37592
METEOSAT-9	07	106	16/04/2007	42166.81034	0.00014378	0.99053	201.49444	358.70516	3.19608	-0.36661
METEOSAT-9	07	113	23/04/2007	42164.83185	0.00009667	0.96982	200.54893	32.25397	337.53426	-0.32583
METEOSAT-9	07	120	30/04/2007	42165.81182	0.00011903	0.96750	199.78181	356.73863	20.79717	-0.24580
METEOSAT-9	07	127	07/05/2007	42164.56095	0.00007445	0.94804	198.89865	8.11514	17.32109	-0.12880
METEOSAT-9	07	134	14/05/2007	42164.71198	0.00014377	0.94517	197.78770	359.33918	34.24585	0.00898
METEOSAT-9	07	141	21/05/2007	42163.75686	0.00010679	0.92448	196.31556	30.81303	11.31824	0.18325
METEOSAT-9	07	148	28/05/2007	42163.66894	0.00012282	0.92135	195.35395	352.12744	58.07381	0.39224
METEOSAT-9	07	155	04/06/2007	42163.59272	0.00009027	0.90441	193.88802	12.60708	46.21035	0.64327
METEOSAT-9	07	162	11/06/2007	42162.49174	0.00015142	0.90390	192.62092	2.91525	64.33994	0.91505
METEOSAT-9	07	169	18/06/2007	42169.45352	0.00008279	0.89041	190.63290	129.61492	306.33794	0.72584
METEOSAT-9	07	176	25/06/2007	42168.26511	0.00003327	0.89076	189.54759	229.19548	214.48414	0.46863
METEOSAT-9	07	183	02/07/2007	42169.26534	0.00006038	0.88240	187.67677	154.36014	297.87841	0.25808
METEOSAT-9	07	190	09/07/2007	42167.25647	0.00001646	0.88631	186.47621	56.96152	43.18222	0.06408
METEOSAT-9	07	197	16/07/2007	42168.46666	0.00008390	0.88361	184.39945	119.41573	349.55394	-0.08561
METEOSAT-9	07	204	23/07/2007	42166.68531	0.00002032	0.88774	183.45347	264.44934	212.23112	-0.21955
METEOSAT-9	07	211	30/07/2007	42168.23008	0.00005926	0.88860	181.59985	134.30167	351.04694	-0.30427
METEOSAT-9	07	218	06/08/2007	42165.79267	0.00004305	0.89425	180.71715	60.75457	72.30327	-0.37692
METEOSAT-9	07	225	13/08/2007	42167.33886	0.00009791	0.89972	178.89869	111.98030	29.76773	-0.40497
METEOSAT-9	07	232	20/08/2007	42165.55270	0.00000948	0.90306	178.33691	22.70630	126.48597	-0.42220
METEOSAT-9	07	239	27/08/2007	42166.38386	0.00008524	0.90792	176.95593	116.98001	40.55680	-0.35887
METEOSAT-9	07	246	03/09/2007	42164.26482	0.00007935	0.90929	176.35802	81.37971	83.73544	-0.27854
METEOSAT-9	07	253	10/09/2007	42165.46861	0.00012957	0.91706	174.90903	110.81786	62.77361	-0.15181
METEOSAT-9	07	260	17/09/2007	42164.22818	0.00004183	0.91442	174.51291	98.16927	82.85691	-0.01349
METEOSAT-9	07	267	24/09/2007	42164.33481	0.00011365	0.91981	173.17238	104.39986	85.06058	0.17953
METEOSAT-9	07	274	01/10/2007	42163.34329	0.00010915	0.91352	172.54093	91.64434	105.55145	0.38318
METEOSAT-9	07	281	08/10/2007	42163.59596	0.00015600	0.91980	171.23454	109.96765	95.68707	0.63536
METEOSAT-9	07	288	15/10/2007	42169.22835	0.00006990	0.91022	170.63754	282.85513	290.10451	0.44345
METEOSAT-9	07	295	22/10/2007	42168.05766	0.00001849	0.91454	169.26021	51.44055	169.57991	0.22707
METEOSAT-9	07	302	29/10/2007	42168.50886	0.00001417	0.90285	168.20557	343.21486	245.55735	0.02479
METEOSAT-9	07	309	05/11/2007	42167.60982	0.00004553	0.90931	166.78888	127.38244	109.54899	-0.13207
METEOSAT-9	07	316	12/11/2007	42168.07542	0.00004433	0.89780	165.66320	269.43180	335.39181	-0.26447

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	07	323	19/11/2007	42166.13414	0.00005177	0.90517	164.12922	94.76661	158.40132	-0.35301
METEOSAT-9	07	330	26/11/2007	42167.67140	0.00001282	0.89541	162.51242	146.16292	115.45026	-0.42321
METEOSAT-9	07	337	03/12/2007	42165.72299	0.00007147	0.90697	161.02704	136.09474	133.87107	-0.45456
METEOSAT-9	07	344	10/12/2007	42166.81430	0.00004102	0.90129	159.44991	240.64536	37.79601	-0.45472
METEOSAT-9	07	351	17/12/2007	42164.73076	0.00007410	0.91616	158.01752	117.44882	169.35458	-0.42374
METEOSAT-9	07	358	24/12/2007	42166.52599	0.00003453	0.91506	156.15848	172.94206	122.67670	-0.36623
METEOSAT-9	07	365	31/12/2007	42164.17808	0.00008494	0.93323	154.99804	151.97408	151.79288	-0.27747
METEOSAT-9	08	7	07/01/2008	42165.36208	0.00005755	0.93639	153.43046	228.56367	83.79745	-0.15019
METEOSAT-9	08	14	14/01/2008	42163.75385	0.00008151	0.95678	152.49468	136.55511	183.78679	-0.00472
METEOSAT-9	08	21	21/01/2008	42164.87928	0.00005472	0.96341	150.86356	187.82063	141.23539	0.17826
METEOSAT-9	08	28	28/01/2008	42163.10745	0.00008296	0.98283	150.27254	171.12740	165.62867	0.38727
METEOSAT-9	08	35	04/02/2008	42163.63506	0.00008009	0.99032	149.01765	230.20882	114.95676	0.64134
METEOSAT-9	08	42	11/02/2008	42168.17658	0.00004892	0.79571	245.90414	215.03557	40.12791	0.62277
METEOSAT-9	08	49	18/02/2008	42168.08840	0.00010154	0.77343	245.34118	188.87618	73.59567	0.46924
METEOSAT-9	08	56	25/02/2008	42167.53271	0.00008924	0.76959	244.21692	191.88219	78.48388	0.34048
METEOSAT-9	08	63	03/03/2008	42166.93070	0.00015898	0.75220	243.78008	189.37006	88.25008	0.25874
METEOSAT-9	08	70	10/03/2008	42167.36274	0.00006345	0.74826	242.77462	213.65411	71.79216	0.18065
METEOSAT-9	08	77	17/03/2008	42166.08572	0.00011945	0.72695	242.26263	186.76007	106.07238	0.15562
METEOSAT-9	08	84	24/03/2008	42166.72394	0.00011311	0.72406	241.74005	201.49877	98.75321	0.15353
METEOSAT-9	08	91	31/03/2008	42165.07034	0.00017534	0.70532	241.45331	190.18823	117.29560	0.19918
METEOSAT-9	08	98	07/04/2008	42166.33762	0.00007723	0.69939	240.98073	219.19693	95.70733	0.24774
METEOSAT-9	08	105	14/04/2008	42164.15502	0.00013896	0.67493	240.44754	188.41338	134.02728	0.35108
METEOSAT-9	08	112	21/04/2008	42165.51251	0.00013299	0.66749	240.41010	208.91422	120.59246	0.48006
METEOSAT-9	08	119	28/04/2008	42163.37644	0.00018942	0.64556	239.96969	194.35740	142.66629	0.65666
METEOSAT-9	08	126	05/05/2008	42164.80844	0.00009324	0.63357	239.79847	224.83505	119.44502	0.84197
METEOSAT-9	08	133	12/05/2008	42168.16060	0.00009122	0.60580	238.85838	133.36693	218.54859	0.63717
METEOSAT-9	08	140	19/05/2008	42169.53474	0.00003841	0.59234	238.89471	154.53204	203.99998	0.39015
METEOSAT-9	08	147	26/05/2008	42167.72886	0.00009951	0.56765	237.88307	157.86861	208.37381	0.18885
METEOSAT-9	08	154	02/06/2008	42168.63394	0.00002745	0.55261	237.52172	48.83440	324.48051	0.00024
METEOSAT-9	08	161	09/06/2008	42166.87841	0.00008139	0.52521	235.62943	144.06851	237.89298	-0.14552
METEOSAT-9	08	168	16/06/2008	42167.66603	0.00003666	0.50901	235.27841	186.63626	202.46073	-0.26062
METEOSAT-9	08	175	23/06/2008	42166.76646	0.00008023	0.48759	233.16280	165.93866	232.10039	-0.33397

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METEOSAT-9	08	182	30/06/2008	42166.64382	0.00002061	0.47248	232.30628	19.31181	26.42552	-0.39168
METEOSAT-9	08	189	07/07/2008	42166.04921	0.00006658	0.45250	229.18956	149.42574	266.30460	-0.41498
METEOSAT-9	08	196	14/07/2008	42165.78007	0.00003579	0.43793	228.24160	221.02649	202.55972	-0.40644
METEOSAT-9	08	203	21/07/2008	42166.09185	0.00005531	0.42553	225.06479	166.72163	266.98837	-0.35890
METEOSAT-9	08	210	28/07/2008	42164.78050	0.00003209	0.41334	223.80115	2.24831	79.69207	-0.29143
METEOSAT-9	08	217	04/08/2008	42165.38491	0.00005405	0.40485	220.02649	144.17387	308.53579	-0.19617
METEOSAT-9	08	224	11/08/2008	42164.04220	0.00003192	0.39354	218.81147	258.58880	202.36442	-0.06695
METEOSAT-9	08	231	18/08/2008	42165.36989	0.00003817	0.39081	215.48018	141.40681	329.94476	0.10073
METEOSAT-9	08	238	25/08/2008	42163.09336	0.00005248	0.37996	214.26532	13.69542	105.96186	0.29224
METEOSAT-9	08	245	01/09/2008	42164.44326	0.00005283	0.37969	210.97441	129.15839	0.90676	0.50969
METEOSAT-9	08	252	08/09/2008	42162.51037	0.00002412	0.36837	209.92983	303.61468	194.64967	0.76487
METEOSAT-9	08	259	15/09/2008	42170.35414	0.00019765	0.36950	207.22375	110.29303	37.47238	0.66030
METEOSAT-9	08	266	22/09/2008	42167.81466	0.00017453	0.35521	206.04995	88.84618	66.75262	0.42026
METEOSAT-9	08	273	29/09/2008	42169.25664	0.00021047	0.35573	203.58045	116.85837	47.89541	0.20616
METEOSAT-9	08	280	06/10/2008	42167.49151	0.00014333	0.34017	202.37309	110.01721	62.66906	0.03168
METEOSAT-9	08	287	13/10/2008	42168.42504	0.00022154	0.33938	200.05600	109.32895	72.43530	-0.10710
METEOSAT-9	08	294	20/10/2008	42166.52264	0.00019953	0.31977	197.97751	95.45147	95.17869	-0.21935
METEOSAT-9	08	301	27/10/2008	42167.50418	0.00022792	0.31727	195.58361	121.26370	78.57322	-0.30604
METEOSAT-9	08	308	03/11/2008	42166.43995	0.00016897	0.29871	192.95936	118.91499	90.40069	-0.35117
METEOSAT-9	08	315	10/11/2008	42166.13383	0.00025601	0.29644	190.04616	113.81618	105.29711	-0.36631
METEOSAT-9	08	322	17/11/2008	42165.55823	0.00022267	0.27754	185.48058	110.48854	120.10341	-0.35282
METEOSAT-9	08	329	24/11/2008	42165.58692	0.00025072	0.27591	182.12338	133.54212	107.34611	-0.31320
METEOSAT-9	08	336	01/12/2008	42165.46341	0.00019319	0.26401	176.81022	138.16032	115.02433	-0.22950
METEOSAT-9	08	343	08/12/2008	42164.01249	0.00028903	0.26740	173.03599	130.24537	133.71936	-0.12310
METEOSAT-9	08	350	15/12/2008	42164.91853	0.00023323	0.26248	165.93973	136.20326	141.89765	0.01723
METEOSAT-9	08	357	22/12/2008	42163.66621	0.00027180	0.26898	162.38100	155.28603	133.43959	0.18375
METEOSAT-9	08	364	29/12/2008	42164.39474	0.00021025	0.27411	156.42928	164.10799	137.68199	0.39678
METEOSAT-9	09	5	05/01/2009	42162.38827	0.00030720	0.28588	153.83684	152.97491	158.53565	0.62550
METEOSAT-9	09	12	12/01/2009	42164.21390	0.00023322	0.29868	148.01169	162.91910	161.58781	0.89689
METEOSAT-9	09	19	19/01/2009	42168.37549	0.00019944	0.31022	146.14846	144.97390	188.09337	0.69452
METEOSAT-9	09	26	26/01/2009	42169.55630	0.00013399	0.32672	142.48905	141.76696	201.62300	0.45803
METEOSAT-9	09	33	02/02/2009	42167.65834	0.00024595	0.33844	141.62572	141.28663	209.63881	0.23064

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METEOSAT-9	09	40	09/02/2009	42169.42527	0.00016268	0.35780	138.27983	141.60868	219.38510	0.05325
METEOSAT-9	09	47	16/02/2009	42166.98654	0.00018429	0.36557	137.48564	161.47902	207.05057	-0.10469
METEOSAT-9	09	54	23/02/2009	42168.03972	0.00011727	0.38274	135.45351	160.75299	216.59800	-0.21527
METEOSAT-9	09	61	02/03/2009	42166.72791	0.00022097	0.38781	134.95422	152.84205	231.80091	-0.32206
METEOSAT-9	09	68	09/03/2009	42167.60572	0.00013979	0.40596	132.78508	160.04638	233.61207	-0.37549
METEOSAT-9	09	75	16/03/2009	42165.97428	0.00016093	0.40701	131.77315	173.03373	228.50126	-0.41032
METEOSAT-9	09	82	23/03/2009	42166.24934	0.00010166	0.42155	130.17935	178.94639	231.09398	-0.39835
METEOSAT-9	09	89	30/03/2009	42165.80936	0.00019948	0.42147	129.09563	160.33456	257.70896	-0.37816
METEOSAT-9	09	96	06/04/2009	42165.37541	0.00012363	0.43840	127.21773	179.45020	247.44675	-0.30219
METEOSAT-9	09	103	13/04/2009	42165.06756	0.00013868	0.43729	125.33641	180.78942	254.98636	-0.20382
METEOSAT-9	09	110	20/04/2009	42164.18422	0.00008998	0.45244	123.71142	197.00779	247.43546	-0.06072
METEOSAT-9	09	117	27/04/2009	42164.87284	0.00017708	0.45333	121.55208	166.84902	286.80510	0.09168
METEOSAT-9	09	124	04/05/2009	42163.18359	0.00010317	0.47323	119.89170	202.38029	260.03610	0.29423
METEOSAT-9	09	131	11/05/2009	42168.48711	0.00004435	0.56806	266.96377	104.80661	217.43586	0.29389
METEOSAT-9	09	138	18/05/2009	42166.63369	0.00007944	0.54640	266.74330	152.01896	177.22290	0.17293
METEOSAT-9	09	145	25/05/2009	42168.06843	0.00005428	0.53017	268.06671	21.80185	312.91047	0.06712
METEOSAT-9	09	152	01/06/2009	42165.70514	0.00008550	0.50467	267.57100	145.23273	196.80903	0.00085
METEOSAT-9	09	159	08/06/2009	42167.21066	0.00003395	0.48572	268.93138	128.55090	219.00210	-0.02728
METEOSAT-9	09	166	15/06/2009	42165.12102	0.00007908	0.46327	268.21436	162.45488	192.72237	-0.01999
METEOSAT-9	09	173	22/06/2009	42166.57956	0.00004134	0.44288	269.50377	1.99923	358.81834	0.00997
METEOSAT-9	09	180	29/06/2009	42164.31762	0.00008977	0.41832	268.34421	157.45162	211.48038	0.06499
METEOSAT-9	09	187	06/07/2009	42165.65585	0.00002966	0.39661	269.37579	159.00741	215.89570	0.16798
METEOSAT-9	09	194	13/07/2009	42164.08532	0.00006514	0.37743	267.78138	172.03975	211.49017	0.30068
METEOSAT-9	09	201	20/07/2009	42164.75654	0.00003909	0.35618	268.70650	335.81676	53.85120	0.46421
METEOSAT-9	09	208	27/07/2009	42163.35422	0.00008351	0.33690	266.64663	165.70814	233.09597	0.64087
METEOSAT-9	09	215	03/08/2009	42163.80789	0.00003013	0.31584	267.12929	194.52498	210.93040	0.87525
METEOSAT-9	09	222	10/08/2009	42169.37212	0.00010806	0.30359	264.68486	37.99595	16.67815	0.75011
METEOSAT-9	09	229	17/08/2009	42168.78676	0.00017114	0.28386	265.32044	11.40918	49.28533	0.50661
METEOSAT-9	09	236	24/08/2009	42168.60066	0.00010052	0.27212	262.89498	56.16380	13.61690	0.26797
METEOSAT-9	09	243	31/08/2009	42167.93133	0.00011419	0.25334	263.10367	23.16947	53.12491	0.09086
METEOSAT-9	09	250	07/09/2009	42168.59156	0.00013210	0.24739	260.95663	37.16669	48.01885	-0.06430
METEOSAT-9	09	257	14/09/2009	42166.88507	0.00018066	0.22860	261.77823	11.93763	79.20861	-0.18150

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	09	264	21/09/2009	42167.76278	0.00011520	0.22165	260.35260	55.19251	44.16397	-0.29621
METEOSAT-9	09	271	28/09/2009	42166.12451	0.00012394	0.20298	261.11396	20.06845	85.37190	-0.35056
METEOSAT-9	09	278	05/10/2009	42167.57296	0.00015802	0.19831	260.52451	37.14956	75.74631	-0.38379
METEOSAT-9	09	285	12/10/2009	42165.13830	0.00019682	0.17703	262.33059	11.77631	106.21735	-0.37951
METEOSAT-9	09	292	19/10/2009	42166.62309	0.00013403	0.16930	263.13191	50.92373	73.17915	-0.36834
METEOSAT-9	09	299	26/10/2009	42164.58945	0.00014054	0.14772	265.29189	16.32309	112.58773	-0.30009
METEOSAT-9	09	306	02/11/2009	42166.02368	0.00018755	0.13980	267.10866	30.88041	103.20354	-0.20958
METEOSAT-9	09	313	09/11/2009	42163.61743	0.00021504	0.11404	271.16505	7.07340	129.98141	-0.08202
METEOSAT-9	09	320	16/11/2009	42165.06300	0.00015640	0.10323	275.85619	38.38498	101.02124	0.06105
METEOSAT-9	09	327	23/11/2009	42163.38354	0.00015502	0.07897	282.33764	5.24248	134.77728	0.25633
METEOSAT-9	09	334	30/11/2009	42163.90757	0.00021862	0.06888	290.09833	9.48800	129.89014	0.47593
METEOSAT-9	09	341	07/12/2009	42162.43469	0.00022227	0.04431	309.90260	335.46401	151.26610	0.73243
METEOSAT-9	09	348	14/12/2009	42169.32138	0.00003896	0.04065	333.07656	14.28149	95.98290	0.54111
METEOSAT-9	09	355	21/12/2009	42168.50525	0.00003815	0.03731	14.57734	222.07143	213.36978	0.31902
METEOSAT-9	09	362	28/12/2009	42167.83802	0.00009834	0.04691	31.04840	263.69922	161.97260	0.12115
METEOSAT-9	10	4	04/01/2010	42167.81722	0.00008126	0.06689	56.03000	210.74382	196.68301	-0.04203
METEOSAT-9	10	11	11/01/2010	42167.47145	0.00006431	0.08322	59.61502	298.58483	112.02206	-0.17644
METEOSAT-9	10	18	18/01/2010	42167.60065	0.00001334	0.10262	70.12904	212.11396	194.78110	-0.27393
METEOSAT-9	10	25	25/01/2010	42166.03737	0.00010353	0.11503	71.50953	239.87695	172.46176	-0.34932
METEOSAT-9	10	32	01/02/2010	42167.42564	0.00004091	0.13835	78.25850	217.39653	195.05122	-0.39099
METEOSAT-9	10	39	08/02/2010	42165.72382	0.00009229	0.15235	77.77552	294.89397	124.92467	-0.40257
METEOSAT-9	10	46	15/02/2010	42166.60314	0.00002636	0.16838	82.31517	318.11595	104.08256	-0.38266
METEOSAT-9	10	53	22/02/2010	42164.65056	0.00009932	0.17759	81.51745	250.55112	179.38715	-0.34002
METEOSAT-9	10	60	01/03/2010	42166.70715	0.00003701	0.19608	84.72379	302.36625	131.34319	-0.26209
METEOSAT-9	10	67	08/03/2010	42164.10124	0.00012012	0.20785	82.82499	303.44572	139.17089	-0.15313
METEOSAT-9	10	74	15/03/2010	42165.28006	0.00005912	0.21965	84.96390	334.72705	112.78981	-0.01338
METEOSAT-9	10	81	22/03/2010	42163.49780	0.00009437	0.22876	82.70530	271.51929	185.32076	0.15184
METEOSAT-9	10	88	29/03/2010	42165.06987	0.00008283	0.24363	84.08985	331.26169	131.29636	0.35498
METEOSAT-9	10	95	05/04/2010	42162.66533	0.00014109	0.25783	81.37961	316.29474	156.10991	0.59192
METEOSAT-9	10	102	12/04/2010	42163.47709	0.00009110	0.26891	82.08322	345.96690	132.90358	0.86198
METEOSAT-9	10	109	19/04/2010	42168.99083	0.00013547	0.28371	79.36610	210.49795	277.77983	0.65278
METEOSAT-9	10	116	26/04/2010	42169.33536	0.00003609	0.29883	79.89229	212.83137	281.56545	0.39855

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	10	123	03/05/2010	42168.08711	0.00006981	0.31968	77.59351	250.18959	253.18872	0.18170
METEOSAT-9	10	130	10/05/2010	42168.03803	0.00003700	0.33307	77.93220	173.63301	336.12118	-0.00318
METEOSAT-9	10	137	17/05/2010	42167.97093	0.00010900	0.35585	76.03615	211.86842	306.52620	-0.15847
METEOSAT-9	10	144	24/05/2010	42167.07574	0.00001200	0.37272	76.53825	320.40800	204.25824	-0.28433
METEOSAT-9	10	151	31/05/2010	42167.21534	0.00004600	0.39912	75.43728	254.70432	277.87795	-0.36909
METEOSAT-9	10	158	07/06/2010	42166.08007	0.00002500	0.41387	76.01941	133.31544	45.52799	-0.42546
METEOSAT-9	10	165	14/06/2010	42167.04988	0.00009500	0.44136	75.28341	205.94982	340.50330	-0.45163
METEOSAT-9	10	172	21/06/2010	42165.16205	0.00003400	0.45793	75.98238	21.55405	171.09334	-0.45817
METEOSAT-9	10	179	28/06/2010	42166.25073	0.00003200	0.48455	76.02022	231.75094	327.80941	-0.40733
METEOSAT-9	10	186	05/07/2010	42164.30376	0.00003600	0.49732	76.79909	115.11629	90.64325	-0.32896
METEOSAT-9	10	193	12/07/2010	42165.86157	0.00009600	0.52471	76.82563	195.28829	17.45550	-0.21808
METEOSAT-9	10	200	19/07/2010	42163.51524	0.00004500	0.53824	77.50593	42.05697	177.02749	-0.09675
METEOSAT-9	10	207	26/07/2010	42165.12835	0.00002800	0.56270	77.97338	195.11236	30.58221	0.08099
METEOSAT-9	10	214	02/08/2010	42163.07525	0.00004600	0.57101	78.61526	118.07910	114.07401	0.28195
METEOSAT-9	10	221	09/08/2010	42168.29145	0.00002200	0.45468	297.50526	258.45082	121.65947	0.23029
METEOSAT-9	10	228	16/08/2010	42166.23288	0.00013500	0.44369	297.57646	171.55896	215.26788	0.11846
METEOSAT-9	10	235	23/08/2010	42167.44886	0.00006400	0.42361	298.40308	178.45768	214.39358	0.06987
METEOSAT-9	10	242	30/08/2010	42166.06113	0.00008600	0.41783	298.24333	192.50099	207.38248	0.04296
METEOSAT-9	10	249	06/09/2010	42166.40767	0.00003500	0.39944	299.50800	259.27706	146.25187	0.05353
METEOSAT-9	10	256	13/09/2010	42165.31185	0.00012500	0.39444	300.10074	170.12397	241.72258	0.06455
METEOSAT-9	10	263	20/09/2010	42165.51772	0.00006400	0.37818	301.06777	193.83839	224.01713	0.14111
METEOSAT-9	10	270	27/09/2010	42165.24991	0.00006800	0.37769	301.69415	189.40910	234.81851	0.24035
METEOSAT-9	10	277	04/10/2010	42164.28152	0.00004400	0.36233	303.43575	262.30473	167.21862	0.37819
METEOSAT-9	10	284	11/10/2010	42164.45919	0.00011400	0.36160	305.19613	160.31988	274.48478	0.52062
METEOSAT-9	10	291	18/10/2010	42163.39482	0.00006000	0.34770	306.89508	206.14736	234.06382	0.72660
METEOSAT-9	10	298	25/10/2010	42164.25292	0.00004800	0.34963	308.83558	173.83286	271.57083	0.96038
METEOSAT-9	10	305	01/11/2010	42168.35282	0.00018500	0.33511	311.48200	294.13716	155.29272	0.73341
METEOSAT-9	10	312	08/11/2010	42169.57130	0.00006700	0.33608	314.61746	260.12017	192.80243	0.46218
METEOSAT-9	10	319	15/11/2010	42167.65032	0.00016000	0.32252	317.28466	277.97315	178.96473	0.24514
METEOSAT-9	10	326	22/11/2010	42169.12284	0.00011700	0.32450	320.48234	285.48288	174.97094	0.05935
METEOSAT-9	10	333	29/11/2010	42166.60616	0.00018000	0.30971	324.02036	289.21843	174.44397	-0.09373
METEOSAT-9	10	340	06/12/2010	42168.27389	0.00005131	0.31104	328.20880	266.21798	200.02416	-0.22504

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	10	347	13/12/2010	42166.22967	0.00015406	0.29714	331.59668	271.27234	198.39037	-0.31625
METEOSAT-9	10	354	20/12/2010	42167.51369	0.00011029	0.29881	335.54953	284.33954	188.21364	-0.37243
METEOSAT-9	10	361	27/12/2010	42165.32286	0.00015870	0.28401	339.64541	282.73939	192.58745	-0.40261
METEOSAT-9	11	3	03/01/2011	42166.74923	0.00003603	0.28614	344.28297	280.20601	197.38315	-0.40232
METEOSAT-9	11	10	10/01/2011	42165.26122	0.00013096	0.27291	347.81268	261.57175	219.41527	-0.37436
METEOSAT-9	11	17	17/01/2011	42165.57752	0.00010281	0.27548	351.79498	284.89769	199.07353	-0.30740
METEOSAT-9	11	24	24/01/2011	42164.52271	0.00012102	0.26282	355.81557	275.95495	210.98367	-0.21899
METEOSAT-9	11	31	31/01/2011	42165.02798	0.00002773	0.26720	0.18469	322.52591	167.06944	-0.09276
METEOSAT-9	11	38	07/02/2011	42164.46577	0.00009543	0.25679	3.07832	249.89766	243.85003	0.05373
METEOSAT-9	11	45	14/02/2011	42163.53581	0.00009139	0.26224	6.37009	290.61895	206.92617	0.24340
METEOSAT-9	11	52	21/02/2011	42164.05815	0.00006982	0.25432	9.51484	270.45616	231.05399	0.45365
METEOSAT-9	11	59	28/02/2011	42163.12400	0.00004525	0.26286	13.07220	6.62646	138.47991	0.70770
METEOSAT-9	11	66	07/03/2011	42169.56638	0.00019655	0.25775	14.77855	215.47928	294.62421	0.51175
METEOSAT-9	11	73	14/03/2011	42167.76181	0.00015256	0.26807	17.15814	235.31014	279.08670	0.28521
METEOSAT-9	11	80	21/03/2011	42169.48440	0.00015129	0.26696	19.05319	209.93939	309.25677	0.08014
METEOSAT-9	11	87	28/03/2011	42167.31076	0.00007011	0.28093	21.86615	198.57362	324.54799	-0.08106
METEOSAT-9	11	94	04/04/2011	42168.31703	0.00017089	0.28270	22.59597	200.17822	328.97036	-0.22363
METEOSAT-9	11	101	11/04/2011	42166.28274	0.00011557	0.29853	24.55169	223.90257	310.09155	-0.32199
METEOSAT-9	11	108	18/04/2011	42168.27962	0.00012706	0.30469	25.67083	185.48215	354.21519	-0.39911
METEOSAT-9	11	115	25/04/2011	42165.61155	0.00005726	0.32348	28.22187	160.89635	23.11446	-0.43425
METEOSAT-9	11	122	02/05/2011	42166.81397	0.00015632	0.33172	28.74223	183.25928	7.11692	-0.44799
METEOSAT-9	11	129	09/05/2011	42165.11595	0.00009027	0.35149	30.84337	203.72922	351.47269	-0.42089
METEOSAT-9	11	136	16/05/2011	42166.38844	0.00012171	0.36307	31.80702	158.58453	42.60178	-0.37178
METEOSAT-9	11	143	23/05/2011	42164.27452	0.00007485	0.38365	34.39418	133.81441	71.77448	-0.28184
METEOSAT-9	11	150	30/05/2011	42165.02934	0.00015606	0.39529	35.08825	165.54427	46.36597	-0.16598
METEOSAT-9	11	157	06/06/2011	42164.18486	0.00008827	0.41636	37.39042	181.43602	35.22309	-0.01422
METEOSAT-9	11	164	13/06/2011	42164.17381	0.00013591	0.42983	38.36585	137.56074	85.19742	0.16069
METEOSAT-9	11	171	20/06/2011	42163.37536	0.00009808	0.44864	40.91926	129.22566	98.09607	0.37788
METEOSAT-9	11	178	27/06/2011	42163.05677	0.00016825	0.46019	41.70660	151.30711	82.37441	0.62552
METEOSAT-9	11	185	04/07/2011	42163.32398	0.00009846	0.47813	44.07732	166.44206	72.04804	0.90511
METEOSAT-9	11	192	11/07/2011	42167.90696	0.00023048	0.54903	307.12803	185.88771	156.32825	0.78384
METEOSAT-9	11	199	18/07/2011	42168.52326	0.00018735	0.52598	308.23512	181.23814	166.58934	0.60250

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	11	206	25/07/2011	42167.03694	0.00021421	0.51776	309.00601	200.32193	153.48473	0.45287
METEOSAT-9	11	213	01/08/2011	42168.24155	0.00013009	0.49547	310.10462	188.97364	170.51230	0.33087
METEOSAT-9	11	220	08/08/2011	42166.12274	0.00024685	0.48748	311.15482	185.89700	179.33755	0.23001
METEOSAT-9	11	227	15/08/2011	42167.62776	0.00018492	0.46734	311.81505	186.35722	185.06406	0.17720
METEOSAT-9	11	234	22/08/2011	42165.47726	0.00022415	0.46268	312.54001	200.41913	177.15469	0.15515
METEOSAT-9	11	241	29/08/2011	42167.02593	0.00013122	0.44403	313.37169	192.02123	191.62383	0.15839
METEOSAT-9	11	248	05/09/2011	42164.64523	0.00025044	0.44053	314.69475	186.47200	202.77159	0.18047
METEOSAT-9	11	255	12/09/2011	42166.28183	0.00018154	0.42590	315.16909	191.25255	204.48948	0.25374
METEOSAT-9	11	262	19/09/2011	42164.24924	0.00022043	0.42624	316.27724	199.84095	201.79747	0.35887
METEOSAT-9	11	269	26/09/2011	42165.28893	0.00013157	0.41291	317.23287	194.08182	213.63213	0.49056
METEOSAT-9	11	276	03/10/2011	42163.40853	0.00024450	0.41393	319.31601	184.11226	228.56856	0.64113
METEOSAT-9	11	283	10/10/2011	42164.36783	0.00017851	0.40497	320.15173	194.14619	224.80280	0.84567
METEOSAT-9	11	290	17/10/2011	42169.09801	0.00009898	0.40853	322.10211	159.16490	264.59761	0.71020
METEOSAT-9	11	297	24/10/2011	42168.99252	0.00005927	0.39961	323.61003	105.97090	322.92360	0.45072
METEOSAT-9	11	304	31/10/2011	42168.25766	0.00015015	0.40312	326.69890	141.32273	291.14292	0.21126
METEOSAT-9	11	311	07/11/2011	42168.13584	0.00006227	0.39723	328.21805	141.60710	296.04944	0.02196
METEOSAT-9	11	318	14/11/2011	42168.15391	0.00008708	0.40169	331.10203	141.09991	300.42013	-0.13002
METEOSAT-9	11	325	21/11/2011	42166.85517	0.00005490	0.39414	333.22258	86.06929	0.10314	-0.25651
METEOSAT-9	11	332	28/11/2011	42167.41304	0.00014638	0.39784	337.06642	123.81764	325.30616	-0.36087
METEOSAT-9	11	339	05/12/2011	42166.15251	0.00004247	0.39207	339.10391	124.19311	329.72879	-0.42469
METEOSAT-9	11	346	12/12/2011	42167.23843	0.00008728	0.39536	342.55854	114.46476	342.87869	-0.44806
METEOSAT-9	11	353	19/12/2011	42165.03033	0.00006814	0.38747	344.95007	63.72279	38.12731	-0.44935
METEOSAT-9	11	360	26/12/2011	42166.51814	0.00015438	0.38985	349.03531	103.62407	1.06604	-0.42375
METEOSAT-9	12	2	02/01/2012	42164.53845	0.00004021	0.38347	351.13591	86.73664	22.80713	-0.36857
METEOSAT-9	12	9	09/01/2012	42166.09794	0.00010207	0.38485	354.65645	88.02013	25.00269	-0.26858
METEOSAT-9	12	16	16/01/2012	42163.59602	0.00009649	0.37703	356.78357	51.53357	66.38027	-0.14992
METEOSAT-9	12	23	23/01/2012	42165.28970	0.00017200	0.37822	0.61203	85.62888	35.50823	0.00217
METEOSAT-9	12	30	30/01/2012	42163.33865	0.00006259	0.37233	2.19371	64.99343	61.63433	0.17509
METEOSAT-9	12	37	06/02/2012	42164.43152	0.00012904	0.37357	5.32011	67.06503	63.55992	0.39908
METEOSAT-9	12	44	13/02/2012	42162.50885	0.00013209	0.36847	6.76909	48.33557	87.98009	0.63935
METEOSAT-9	12	51	20/02/2012	42163.60908	0.00019748	0.37058	9.94680	72.57909	67.73963	0.92049
METEOSAT-9	12	58	27/02/2012	42168.93996	0.00006130	0.36848	10.70581	242.92407	263.33187	0.71732

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	12	65	05/03/2012	42168.87708	0.00001769	0.37212	13.19339	0.28017	150.14802	0.47758
METEOSAT-9	12	72	12/03/2012	42168.24978	0.00002500	0.37316	13.88108	350.12688	166.28954	0.25407
METEOSAT-9	12	79	19/03/2012	42168.29596	0.00007843	0.37869	16.43089	84.50481	76.08076	0.07342
METEOSAT-9	12	86	26/03/2012	42167.97690	0.00003193	0.38332	16.57648	209.78204	317.39419	-0.08977
METEOSAT-9	12	93	02/04/2012	42166.75236	0.00005232	0.39131	18.62047	33.77159	138.14817	-0.20188
METEOSAT-9	12	100	09/04/2012	42167.60486	0.00004032	0.40029	18.95591	63.33483	115.05290	-0.29797
METEOSAT-9	12	107	16/04/2012	42166.33492	0.00011192	0.40991	21.23555	78.56068	104.39273	-0.35236
METEOSAT-9	12	114	23/04/2012	42166.91680	0.00003828	0.42167	21.37575	143.34614	46.33303	-0.38595
METEOSAT-9	12	121	30/04/2012	42164.95779	0.00008647	0.43308	23.38388	47.40048	147.18205	-0.37417
METEOSAT-9	12	128	07/05/2012	42166.81541	0.00007601	0.44855	23.88931	85.13311	115.87487	-0.34292
METEOSAT-9	12	135	14/05/2012	42164.44308	0.00014530	0.46028	26.19179	78.22706	127.44865	-0.27247
METEOSAT-9	12	142	21/05/2012	42165.62448	0.00006938	0.47644	26.69035	121.97608	90.19821	-0.17495
METEOSAT-9	12	149	28/05/2012	42163.58543	0.00011062	0.48791	28.83944	56.92947	160.13060	-0.03982
METEOSAT-9	12	156	04/06/2012	42165.43459	0.00011123	0.50619	29.64263	91.49304	131.82443	0.12114
METEOSAT-9	12	163	11/06/2012	42162.82298	0.00016668	0.51679	31.94207	80.31499	147.80004	0.31844
METEOSAT-9	12	170	18/06/2012	42164.02493	0.00009996	0.53340	32.74133	116.86909	117.57818	0.55039
METEOSAT-9	12	177	25/06/2012	42162.53811	0.00012335	0.54259	34.85883	63.84023	175.65073	0.81199
METEOSAT-9	12	184	02/07/2012	42168.93391	0.00025475	0.53558	311.05550	155.95840	174.05940	0.63494
METEOSAT-9	12	191	09/07/2012	42167.15256	0.00028805	0.51447	311.91429	153.14605	182.74746	0.46959
METEOSAT-9	12	198	16/07/2012	42167.69721	0.00021011	0.50590	313.49997	164.59387	176.48409	0.34001
METEOSAT-9	12	205	23/07/2012	42167.16506	0.00024946	0.48595	314.17546	142.13786	205.05549	0.23107
METEOSAT-9	12	212	30/07/2012	42166.80506	0.00027036	0.47682	315.96366	158.17757	194.05401	0.15777
METEOSAT-9	12	219	06/08/2012	42166.40760	0.00026958	0.45867	316.38335	154.75275	203.91802	0.11690
METEOSAT-9	12	226	13/08/2012	42165.97619	0.00021581	0.45122	317.82896	168.39113	195.73330	0.11651
METEOSAT-9	12	233	20/08/2012	42166.50670	0.00023367	0.43508	318.17590	142.30710	228.36920	0.11565
METEOSAT-9	12	240	27/08/2012	42164.95349	0.00027008	0.42837	320.02800	161.13359	214.62775	0.15316
METEOSAT-9	12	247	03/09/2012	42165.89190	0.00023785	0.41647	320.16618	155.94137	226.65228	0.22411
METEOSAT-9	12	254	10/09/2012	42164.14566	0.00021556	0.41267	321.78297	171.42315	216.56614	0.33700
METEOSAT-9	12	261	17/09/2012	42165.47853	0.00021804	0.40296	322.07399	140.96537	253.75789	0.46253
METEOSAT-9	12	268	24/09/2012	42163.26571	0.00026241	0.39987	324.35610	162.09192	237.40862	0.62239
METEOSAT-9	12	275	01/10/2012	42170.06574	0.00033182	0.39530	324.74706	153.83301	251.97797	0.42443
METEOSAT-9	12	282	08/10/2012	42167.81222	0.00032242	0.39525	326.90761	162.92394	247.39695	0.19542

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	12	289	15/10/2012	42169.27984	0.00032039	0.39144	327.73849	141.20293	274.97186	-0.01900
METEOSAT-9	12	296	22/10/2012	42166.90082	0.00036815	0.39111	330.81896	155.51439	264.30023	-0.19823
METEOSAT-9	12	303	29/10/2012	42168.48374	0.00030661	0.39166	331.91861	148.81307	276.66224	-0.33720
METEOSAT-9	12	310	05/11/2012	42166.59670	0.00030624	0.39313	334.81843	155.44508	273.93174	-0.43537
METEOSAT-9	12	317	12/11/2012	42167.42723	0.00030182	0.39252	336.37503	133.44456	301.19359	-0.51678
METEOSAT-9	12	324	19/11/2012	42165.77249	0.00035247	0.39280	340.20555	146.86407	290.79049	-0.56947
METEOSAT-9	12	331	26/11/2012	42166.60582	0.00028269	0.39509	341.96258	139.92365	302.86202	-0.58066
METEOSAT-9	12	338	03/12/2012	42165.71714	0.00029486	0.39560	345.38054	142.51803	303.77818	-0.55173
METEOSAT-9	12	345	10/12/2012	42165.36128	0.00028683	0.39530	347.36779	122.36302	328.89362	-0.50342
METEOSAT-9	12	352	17/12/2012	42164.99345	0.00034641	0.39445	351.52903	134.19875	319.86844	-0.43132
METEOSAT-9	12	359	24/12/2012	42164.62647	0.00026318	0.39608	353.52578	127.87094	331.21138	-0.31880
METEOSAT-9	12	366	31/12/2012	42164.98741	0.00029579	0.39422	357.02378	126.85819	335.77944	-0.16510
METEOSAT-9	13	7	07/01/2013	42163.38524	0.00028214	0.39320	358.94679	109.22219	358.56691	0.01000
METEOSAT-9	13	14	14/01/2013	42164.30876	0.00035280	0.39075	2.88150	120.54301	350.40893	0.20786
METEOSAT-9	13	21	21/01/2013	42126.49764	0.00025846	0.39169	4.57893	109.20334	8.69968	1.95747
METEOSAT-9	13	28	28/01/2013	42127.81365	0.00031461	0.38826	7.69910	107.34951	17.87961	5.50419
METEOSAT-9	13	35	04/02/2013	42125.10963	0.00029855	0.38806	9.07593	93.35033	40.98341	9.08625
METEOSAT-9	13	42	11/02/2013	42169.18435	0.00020230	0.38526	12.34805	306.89847	191.60307	9.62653
METEOSAT-9	13	49	18/02/2013	42166.81264	0.00031208	0.38799	13.38406	302.80575	201.39716	9.46449
METEOSAT-9	13	56	25/02/2013	42167.89163	0.00025511	0.38554	15.78845	308.72381	199.88388	9.37409
METEOSAT-9	13	63	04/03/2013	42165.48922	0.00029627	0.38978	16.49364	315.12119	199.63418	9.32752
METEOSAT-9	13	70	11/03/2013	42166.51383	0.00019403	0.38960	18.84037	307.47759	211.83724	9.33411
METEOSAT-9	13	77	18/03/2013	42164.69266	0.00029308	0.39747	19.26910	300.57330	225.26988	9.39171
METEOSAT-9	13	84	25/03/2013	42164.74094	0.00024882	0.39885	21.01562	312.93120	218.19457	9.52121
METEOSAT-9	13	91	01/04/2013	42163.49820	0.00027158	0.41020	21.36971	314.75790	223.08919	9.69708
METEOSAT-9	13	98	08/04/2013	42168.68667	0.00006148	0.41432	23.10436	327.78908	215.12404	9.59815
METEOSAT-9	13	105	15/04/2013	42167.86099	0.00014164	0.42868	23.46082	296.70618	252.56914	9.41722
METEOSAT-9	13	112	22/04/2013	42166.62885	0.00012579	0.43446	24.94551	337.33814	217.23956	9.30465
METEOSAT-9	13	119	29/04/2013	42166.87585	0.00012268	0.45257	25.51931	327.76652	233.07296	9.24107
METEOSAT-9	13	126	06/05/2013	42165.59773	0.00004982	0.46019	27.11807	351.69312	214.44025	9.23407
METEOSAT-9	13	133	13/05/2013	42165.76064	0.00010901	0.47895	27.83550	292.79657	279.56885	9.28388
METEOSAT-9	13	140	20/05/2013	42163.63379	0.00011664	0.48688	29.37871	350.80335	227.02873	9.39411

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	13	147	27/05/2013	42165.07974	0.00008590	0.50830	30.39086	327.35973	256.52293	9.55713
METEOSAT-9	13	154	03/06/2013	42166.98966	0.00014178	0.43457	310.33378	121.44053	189.30615	9.46648
METEOSAT-9	13	161	10/06/2013	42167.86394	0.00008921	0.42649	312.97769	76.63642	238.25008	9.35059
METEOSAT-9	13	168	17/06/2013	42165.54437	0.00018723	0.41176	314.15887	103.07763	217.46358	9.28704
METEOSAT-9	13	175	24/06/2013	42167.28268	0.00012010	0.40204	317.25962	99.11081	225.22316	9.28084
METEOSAT-9	13	182	01/07/2013	42164.31913	0.00013475	0.38702	318.48190	127.12140	202.93676	9.32768
METEOSAT-9	13	189	08/07/2013	42165.35588	0.00006230	0.37653	321.26456	83.80899	250.47702	9.43847
METEOSAT-9	13	196	15/07/2013	42163.48453	0.00016711	0.36186	322.21464	104.03728	236.35252	9.59274
METEOSAT-9	13	203	22/07/2013	42164.45435	0.00009626	0.35097	325.42031	112.25061	232.05109	9.81058
METEOSAT-9	13	210	29/07/2013	42167.85031	0.00005771	0.33780	326.36163	33.65847	316.49907	9.70815
METEOSAT-9	13	217	05/08/2013	42168.38908	0.00012060	0.32740	329.06537	347.41589	6.75388	9.52447
METEOSAT-9	13	224	12/08/2013	42167.37264	0.00011870	0.31591	329.62500	39.99452	320.36822	9.37756
METEOSAT-9	13	231	19/08/2013	42167.03939	0.00006526	0.30665	332.77887	351.82718	12.20148	9.29769
METEOSAT-9	13	238	26/08/2013	42165.96475	0.00005424	0.29872	333.39934	349.11094	21.16503	9.26602
METEOSAT-9	13	245	02/09/2013	42165.46597	0.00012236	0.29135	336.03256	323.30633	51.27257	9.30278
METEOSAT-9	13	252	09/09/2013	42165.46180	0.00010182	0.28610	336.40960	20.91273	0.25810	9.37255
METEOSAT-9	13	259	16/09/2013	42163.79185	0.00006968	0.28089	339.64465	306.11760	78.85551	9.51030
METEOSAT-9	13	266	23/09/2013	42168.45334	0.00009781	0.28047	340.32012	31.07771	0.03481	9.42580
METEOSAT-9	13	273	30/09/2013	42166.72809	0.00010611	0.27787	343.18905	349.88476	45.13486	9.30232
METEOSAT-9	13	280	07/10/2013	42167.60081	0.00015932	0.28005	343.97922	37.56019	3.47886	9.21256
METEOSAT-9	13	287	14/10/2013	42165.08005	0.00005628	0.27955	347.64900	355.86403	48.38093	9.18888
METEOSAT-9	13	294	21/10/2013	42166.42620	0.00010433	0.28652	348.96767	4.63310	45.22463	9.22096
METEOSAT-9	13	301	28/10/2013	42163.96015	0.00011822	0.28805	352.31500	328.35618	85.15247	9.31967
METEOSAT-9	13	308	04/11/2013	42165.18774	0.00015453	0.29599	353.91697	18.94187	40.00062	9.45608
METEOSAT-9	13	315	11/11/2013	42162.47419	0.00007357	0.29894	358.09340	319.14206	102.71961	9.65227
METEOSAT-9	13	322	18/11/2013	42169.23906	0.00009206	0.31000	0.10741	51.73866	14.92505	9.56890
METEOSAT-9	13	329	25/11/2013	42166.91526	0.00004847	0.31373	3.82101	22.60799	47.08752	9.41470
METEOSAT-9	13	336	02/12/2013	42167.70202	0.00015987	0.32413	5.98326	44.68692	29.63521	9.30413
METEOSAT-9	13	343	09/12/2013	42165.58213	0.00004019	0.32844	10.34581	71.07896	5.71933	9.24334
METEOSAT-9	13	350	16/12/2013	42166.37268	0.00008874	0.33984	12.67875	21.92333	59.44880	9.25065
METEOSAT-9	13	357	23/12/2013	42164.96183	0.00006428	0.34269	16.31586	5.55344	79.15017	9.31965
METEOSAT-9	13	364	30/12/2013	42164.61970	0.00015756	0.35262	18.50147	24.13309	65.40092	9.43624

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	14	6	06/01/2014	42163.71196	0.00003989	0.35534	22.52286	43.09496	49.47355	9.59265
METEOSAT-9	14	13	13/01/2014	42168.16197	0.00004544	0.36548	24.61043	260.85257	196.45336	9.51820
METEOSAT-9	14	20	20/01/2014	42167.99698	0.00004151	0.36618	27.80846	232.25613	228.60779	9.37471
METEOSAT-9	14	27	27/01/2014	42166.36480	0.00005611	0.37459	29.51292	352.50716	113.45835	9.28136
METEOSAT-9	14	34	03/02/2014	42166.77951	0.00006769	0.37563	32.72340	179.61946	289.97559	9.22186
METEOSAT-9	14	41	10/02/2014	42165.22739	0.00005451	0.38508	34.23164	273.57023	201.42972	9.23576
METEOSAT-9	14	48	17/02/2014	42166.10853	0.00001649	0.38387	36.43729	229.97349	249.79388	9.30942
METEOSAT-9	14	55	24/02/2014	42163.54165	0.00006805	0.39240	37.33168	350.20886	135.68893	9.43488
METEOSAT-9	14	62	03/03/2014	42164.83610	0.00006190	0.39343	39.37995	160.19707	330.71268	9.59566
METEOSAT-9	14	69	10/03/2014	42162.46033	0.00005429	0.40443	40.14532	284.08261	213.19273	9.82740
METEOSAT-9	14	76	17/03/2014	42169.71792	0.00013113	0.40441	41.32769	271.22203	231.62031	9.67736
METEOSAT-9	14	83	24/03/2014	42166.92753	0.00015835	0.41726	41.62708	296.30626	212.94845	9.48966
METEOSAT-9	14	90	31/03/2014	42168.33019	0.00011656	0.42105	42.65497	241.61584	273.36284	9.34204
METEOSAT-9	14	97	07/04/2014	42165.96811	0.00018048	0.43649	42.99359	273.49817	247.96064	9.26139
METEOSAT-9	14	104	14/04/2014	42167.02714	0.00011073	0.44058	43.52840	279.88199	247.90942	9.22928
METEOSAT-9	14	111	21/04/2014	42164.86922	0.00013962	0.45884	43.86522	299.47469	234.89824	9.24793
METEOSAT-9	14	118	28/04/2014	42165.66883	0.00009690	0.46717	44.45001	240.95984	299.79147	9.31147
METEOSAT-9	14	125	05/05/2014	42164.03912	0.00016038	0.48709	44.95348	272.24873	275.02627	9.43883
METEOSAT-9	14	132	12/05/2014	42167.78648	0.00009655	0.37268	342.71501	59.53749	196.79130	9.35486
METEOSAT-9	14	139	19/05/2014	42166.95014	0.00011704	0.37740	346.12709	47.06231	212.63497	9.23587
METEOSAT-9	14	146	26/05/2014	42166.63644	0.00001742	0.37715	347.99526	93.75164	170.90816	9.16721
METEOSAT-9	14	153	02/06/2014	42166.07141	0.00008503	0.38025	351.38199	2.96950	265.19522	9.15930
METEOSAT-9	14	160	09/06/2014	42164.60543	0.00009877	0.37954	353.19706	70.25051	203.04751	9.20837
METEOSAT-9	14	167	16/06/2014	42165.26823	0.00008186	0.38281	356.96619	44.73389	231.79955	9.31332
METEOSAT-9	14	174	23/06/2014	42163.61592	0.00003238	0.38258	358.98169	142.34683	139.22736	9.47016
METEOSAT-9	14	181	30/06/2014	42164.02641	0.00005664	0.38363	2.41363	341.30774	303.95177	9.68786
METEOSAT-9	14	188	07/07/2014	42167.35679	0.00004465	0.38194	4.16290	292.17319	358.15275	9.60420
METEOSAT-9	14	195	14/07/2014	42169.04597	0.00010863	0.38355	7.86495	280.81833	12.53862	9.43762
METEOSAT-9	14	202	21/07/2014	42166.30239	0.00013426	0.38360	9.63964	240.17488	58.19162	9.32247
METEOSAT-9	14	209	28/07/2014	42167.28291	0.00016950	0.38256	12.71002	269.56086	32.58030	9.26793
METEOSAT-9	14	216	04/08/2014	42165.06890	0.00006177	0.38074	14.00067	245.93375	61.80664	9.25844
METEOSAT-9	14	223	11/08/2014	42166.78506	0.00014031	0.38149	17.22368	252.22451	59.24536	9.31133

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	14	230	18/08/2014	42163.76688	0.00017258	0.38293	18.41624	227.12345	90.15530	9.41337
METEOSAT-9	14	237	25/08/2014	42164.72853	0.00019565	0.38194	20.87589	252.61564	69.26763	9.57799
METEOSAT-9	14	244	01/09/2014	42167.70700	0.00000986	0.38276	21.49412	30.35532	297.71844	9.48732
METEOSAT-9	14	251	08/09/2014	42168.40578	0.00008225	0.38466	24.00149	245.60193	86.71798	9.34125
METEOSAT-9	14	258	15/09/2014	42166.20290	0.00010295	0.39014	24.52265	219.67828	118.92290	9.24423
METEOSAT-9	14	265	22/09/2014	42166.54021	0.00013276	0.39208	26.20038	257.03299	86.75781	9.21203
METEOSAT-9	14	272	29/09/2014	42165.75896	0.00002956	0.39811	26.37511	241.82448	108.69735	9.21830
METEOSAT-9	14	279	06/10/2014	42164.99644	0.00013607	0.40339	28.24548	230.50046	125.12331	9.29098
METEOSAT-9	14	286	13/10/2014	42164.31406	0.00013472	0.41549	28.46806	225.79454	136.63028	9.41519
METEOSAT-9	14	293	20/10/2014	42163.48813	0.00017016	0.42129	29.85591	248.28748	119.83873	9.60483
METEOSAT-9	14	300	27/10/2014	42168.79113	0.00009871	0.43511	29.97270	151.43125	223.39061	9.51774
METEOSAT-9	14	307	03/11/2014	42166.77367	0.00018320	0.44417	31.67291	191.26372	188.59666	9.35682
METEOSAT-9	14	314	10/11/2014	42167.53398	0.00015244	0.46232	32.17141	187.81675	198.34189	9.25395
METEOSAT-9	14	321	17/11/2014	42165.57391	0.00015927	0.47133	33.65608	210.55009	180.98421	9.21467
METEOSAT-9	14	328	24/11/2014	42166.60980	0.00008943	0.48986	34.24271	165.57781	232.27439	9.21956
METEOSAT-9	14	335	01/12/2014	42163.95028	0.00020421	0.50027	36.06985	198.60517	204.37914	9.27920
METEOSAT-9	14	342	08/12/2014	42165.45871	0.00014828	0.52062	37.04385	196.09775	212.93720	9.40422
METEOSAT-9	14	349	15/12/2014	42162.93331	0.00017128	0.52906	38.69611	214.04879	200.41882	9.58959
METEOSAT-9	14	356	22/12/2014	42169.28198	0.00008481	0.54790	39.72369	81.52791	338.78351	9.56144
METEOSAT-9	14	363	29/12/2014	42166.68748	0.00010129	0.55603	41.59121	180.91809	244.24283	9.37900
METEOSAT-9	15	5	05/01/2015	42168.06996	0.00004268	0.57413	42.85790	151.17632	279.50885	9.27047
METEOSAT-9	15	12	12/01/2015	42165.89938	0.00004360	0.57872	44.42631	207.58463	228.37851	9.21755
METEOSAT-9	15	19	19/01/2015	42166.47416	0.00006757	0.59444	45.54511	63.23276	18.50965	9.21631
METEOSAT-9	15	26	26/01/2015	42164.66006	0.00009157	0.59864	47.12736	185.34683	261.74375	9.24753
METEOSAT-9	15	33	02/02/2015	42165.20357	0.00002014	0.61272	48.30047	176.08472	276.84340	9.35894
METEOSAT-9	15	40	09/02/2015	42164.07373	0.00002579	0.61338	49.42546	207.37357	251.49337	9.52369
METEOSAT-9	15	47	16/02/2015	42167.62153	0.00004445	0.62599	50.26648	177.38485	287.38420	9.36766
METEOSAT-9	15	54	23/02/2015	42167.08486	0.00017999	0.62780	51.24375	193.06713	277.48952	9.23344
METEOSAT-9	15	61	02/03/2015	42166.39424	0.00010606	0.63993	52.05730	207.20436	269.38740	9.18291
METEOSAT-9	15	68	09/03/2015	42166.48734	0.00010877	0.63975	52.50356	196.76619	286.28142	9.18592
METEOSAT-9	15	75	16/03/2015	42164.55417	0.00003192	0.65197	52.97211	180.38385	309.15481	9.24625
METEOSAT-9	15	82	23/03/2015	42165.26677	0.00017548	0.65584	53.24319	188.59199	307.66129	9.33270

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	15	89	30/03/2015	42163.36956	0.00009300	0.66945	53.71731	212.69331	290.15423	9.50163
METEOSAT-9	15	96	06/04/2015	42164.57881	0.00010318	0.67319	53.62209	187.82491	322.23603	9.72037
METEOSAT-9	15	103	13/04/2015	42167.48424	0.00011023	0.68910	53.89248	307.43605	209.18944	9.65560
METEOSAT-9	15	110	20/04/2015	42168.90475	0.00013131	0.69769	53.79488	233.45972	289.95608	9.44865
METEOSAT-9	15	117	27/04/2015	42166.40086	0.00013771	0.71496	54.23553	281.29176	248.45302	9.31839
METEOSAT-9	15	124	04/05/2015	42167.64589	0.00008074	0.72437	54.00689	269.95389	266.84906	9.24806
METEOSAT-9	15	131	11/05/2015	42164.97130	0.00009212	0.74404	54.46806	311.84630	231.38280	9.23528
METEOSAT-9	15	138	18/05/2015	42166.31645	0.00011836	0.75763	54.39177	227.99768	322.23350	9.26106
METEOSAT-9	15	145	25/05/2015	42164.04637	0.00012112	0.77679	55.07314	280.95463	275.58885	9.35457
METEOSAT-9	15	152	01/06/2015	42164.66117	0.00005286	0.79003	55.04760	268.97678	294.64782	9.51016
METEOSAT-9	15	159	08/06/2015	42167.19037	0.00007897	0.81020	55.84740	215.76319	353.84061	9.38906
METEOSAT-9	15	166	15/06/2015	42167.76120	0.00020123	0.82578	55.99386	198.38870	17.83688	9.25745
METEOSAT-9	15	173	22/06/2015	42166.36764	0.00014146	0.84296	56.92443	224.45825	357.66434	9.18516
METEOSAT-9	15	180	29/06/2015	42165.85172	0.00011651	0.85622	57.13496	188.62348	40.17716	9.17419
METEOSAT-9	15	187	06/07/2015	42165.43625	0.00010762	0.87314	58.15840	198.75044	35.97326	9.21688
METEOSAT-9	15	194	13/07/2015	42164.78286	0.00021554	0.88754	58.45033	190.88652	50.53816	9.31055
METEOSAT-9	15	201	20/07/2015	42164.47984	0.00016024	0.89973	59.45031	213.40946	34.06205	9.45816
METEOSAT-9	15	208	27/07/2015	42162.81784	0.00013984	0.91026	59.71631	175.96788	78.34370	9.66538
METEOSAT-9	15	215	03/08/2015	42169.20161	0.00008940	0.92218	60.72890	248.12770	11.99081	9.58595
METEOSAT-9	15	222	10/08/2015	42167.16271	0.00014690	0.93404	60.96693	209.06091	57.55538	9.42319
METEOSAT-9	15	229	17/08/2015	42167.75058	0.00014458	0.94088	61.79543	246.99785	25.57764	9.31221
METEOSAT-9	15	236	24/08/2015	42165.51966	0.00006669	0.94914	61.90131	205.20233	74.11164	9.25809
METEOSAT-9	15	243	31/08/2015	42167.35857	0.00013080	0.95685	62.66626	227.23822	58.21047	9.25909
METEOSAT-9	15	250	07/09/2015	42164.38424	0.00018581	0.96823	62.68836	202.69738	89.68336	9.31465
METEOSAT-9	15	257	14/09/2015	42165.39998	0.00017011	0.97219	63.17208	235.05868	63.84554	9.42308
METEOSAT-9	15	264	21/09/2015	42163.25979	0.00010733	0.98136	63.00701	200.98322	105.14785	9.58601
METEOSAT-9	15	271	28/09/2015	42164.75009	0.00018500	0.98819	63.42431	218.18263	94.65076	9.80648
METEOSAT-9	15	278	05/10/2015	42167.45217	0.00010242	1.00250	63.21620	185.32255	134.46161	9.64980
METEOSAT-9	15	285	12/10/2015	42168.31300	0.00008105	1.00800	63.37368	250.37923	75.97284	9.47564
METEOSAT-9	15	292	19/10/2015	42166.81724	0.00003162	1.02217	63.04755	148.97703	184.48066	9.35528
METEOSAT-9	15	299	26/10/2015	42167.08281	0.00011294	1.03176	63.22913	213.92579	126.18756	9.29245
METEOSAT-9	15	306	02/11/2015	42165.25620	0.00013528	1.05206	63.01713	198.77324	148.44591	9.28587

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	15	313	09/11/2015	42165.36580	0.00012089	1.06167	63.07251	240.25952	113.85655	9.33773
METEOSAT-9	15	320	16/11/2015	42164.83121	0.00005247	1.08215	62.87951	198.96558	162.34852	9.44201
METEOSAT-9	15	327	23/11/2015	42167.35817	0.00014310	1.09507	63.07582	248.16934	119.77128	9.36421
METEOSAT-9	15	334	30/11/2015	42167.13953	0.00012110	1.11966	63.11761	246.08929	128.59635	9.25016
METEOSAT-9	15	341	07/12/2015	42166.07102	0.00016984	1.13183	63.30580	271.20780	110.13504	9.19501
METEOSAT-9	15	348	14/12/2015	42166.53630	0.00008221	1.15518	63.43948	288.53204	99.57367	9.19092
METEOSAT-9	15	355	21/12/2015	42164.30808	0.00018859	1.16834	63.79056	247.72603	146.97382	9.23591
METEOSAT-9	15	362	28/12/2015	42165.40059	0.00014629	1.19225	64.14498	255.38833	145.96758	9.34617
METEOSAT-9	16	4	04/01/2016	42163.22444	0.00020142	1.20258	64.49191	269.66376	138.41227	9.51365
METEOSAT-9	16	11	11/01/2016	42164.36455	0.00010816	1.22361	64.89330	286.48320	128.31021	9.73292
METEOSAT-9	16	18	18/01/2016	42167.20068	0.00033216	1.23325	65.29971	237.16344	183.98274	9.59320
METEOSAT-9	16	25	25/01/2016	42168.81281	0.00026936	1.25209	65.81421	241.68842	185.67943	9.43050
METEOSAT-9	16	32	01/02/2016	42166.25446	0.00030805	1.25775	66.12480	250.59781	183.24968	9.32253
METEOSAT-9	16	39	08/02/2016	42167.36623	0.00020529	1.27384	66.56502	250.88796	189.36259	9.26757
METEOSAT-9	16	46	15/02/2016	42164.94731	0.00034069	1.27954	66.80934	240.40365	206.47885	9.24612
METEOSAT-9	16	53	22/02/2016	42166.20183	0.00027641	1.29295	67.25189	247.51494	205.88108	9.30436
METEOSAT-9	16	60	29/02/2016	42164.17462	0.00030325	1.29564	67.31641	253.15222	207.18839	9.41590
METEOSAT-9	16	67	07/03/2016	42164.41509	0.00021468	1.30854	67.60930	256.34395	210.76849	9.58277
METEOSAT-9	16	74	14/03/2016	42167.62330	0.00022767	1.31393	67.55016	245.66676	228.29937	9.47943
METEOSAT-9	16	81	21/03/2016	42167.84798	0.00017738	1.32544	67.80986	264.03430	216.42979	9.33876
METEOSAT-9	16	88	28/03/2016	42166.95447	0.00018699	1.32996	67.58354	265.33213	222.17047	9.25241
METEOSAT-9	16	95	04/04/2016	42165.92126	0.00012715	1.34345	67.71688	282.60626	211.63287	9.22324
METEOSAT-9	16	102	11/04/2016	42165.74690	0.00022002	1.35339	67.42299	246.90395	254.52613	9.22089
METEOSAT-9	16	109	18/04/2016	42164.68685	0.00017967	1.36676	67.56570	272.64196	235.62600	9.30153
METEOSAT-9	16	116	25/04/2016	42165.00800	0.00016950	1.37711	67.20566	266.48299	249.18320	9.43932
METEOSAT-9	16	123	02/05/2016	42162.80045	0.00012676	1.39347	67.32795	288.22830	234.41224	9.63506
METEOSAT-9	16	130	09/05/2016	42168.99815	0.00015231	1.40977	67.01649	210.47132	319.27776	9.53092
METEOSAT-9	16	137	16/05/2016	42166.85248	0.00005897	1.42577	67.20628	252.14442	284.15403	9.36868
METEOSAT-9	16	144	23/05/2016	42167.97412	0.00006975	1.44184	66.94243	212.08132	331.28185	9.26790
METEOSAT-9	16	151	30/05/2016	42165.23989	0.00001193	1.45947	67.20454	148.04064	41.91704	9.22283
METEOSAT-9	16	158	06/06/2016	42166.76120	0.00015177	1.47982	67.04996	205.26439	351.74232	9.21561
METEOSAT-9	16	165	13/06/2016	42164.23301	0.00004494	1.49559	67.39226	250.10291	313.52094	9.27366

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	16	172	20/06/2016	42165.39868	0.00007031	1.51392	67.31722	194.47664	16.24784	9.39812
METEOSAT-9	16	179	27/06/2016	42162.92294	0.00003581	1.52915	67.73291	150.99102	66.39534	9.57504
METEOSAT-9	16	186	04/07/2016	42169.02474	0.00011448	1.54948	67.76457	246.02289	338.14955	9.49260
METEOSAT-9	16	193	11/07/2016	42166.91672	0.00011251	1.56134	68.19696	309.38251	281.09647	9.33203
METEOSAT-9	16	200	18/07/2016	42167.33738	0.00005281	1.57806	68.26646	288.62056	308.59814	9.24227
METEOSAT-9	16	207	25/07/2016	42165.87685	0.00005000	1.58836	68.72341	314.00620	289.61261	9.20094
METEOSAT-9	16	214	01/08/2016	42166.16434	0.00011419	1.60602	68.83727	233.78952	16.62520	9.21282
METEOSAT-9	16	221	08/08/2016	42165.02014	0.00009671	1.61230	69.21692	296.27660	320.71436	9.27142
METEOSAT-9	16	228	15/08/2016	42164.23716	0.00003331	1.62599	69.30028	250.01718	13.91712	9.40116
METEOSAT-9	16	235	22/08/2016	42164.25023	0.00005063	1.63129	69.64217	261.17507	9.49097	9.57807
METEOSAT-9	16	242	29/08/2016	42167.80834	0.00007565	1.64635	69.71191	163.97752	113.41529	9.47782
METEOSAT-9	16	249	05/09/2016	42167.74665	0.00003647	1.64895	69.89859	18.04241	265.91901	9.33631
METEOSAT-9	16	256	12/09/2016	42165.90648	0.00008523	1.66125	69.88086	105.66575	185.13934	9.26525
METEOSAT-9	16	263	19/09/2016	42167.21805	0.00003796	1.66491	70.00110	127.70008	169.85783	9.24090
METEOSAT-9	16	270	26/09/2016	42164.84500	0.00010826	1.68059	69.97049	173.81756	130.70470	9.27676
METEOSAT-9	16	277	03/10/2016	42165.58082	0.00000622	1.68370	69.91485	288.50788	23.04813	9.35636
METEOSAT-9	16	284	10/10/2016	42163.28811	0.00009106	1.69844	69.79783	131.31988	187.39937	9.50333
METEOSAT-9	16	291	17/10/2016	42165.08749	0.00006259	1.70501	69.71483	186.84773	139.05031	9.69909
METEOSAT-9	16	298	24/10/2016	42167.41190	0.00001535	1.72436	69.64925	158.24577	174.52777	9.60827
METEOSAT-9	16	305	31/10/2016	42168.46933	0.00009902	1.73237	69.46268	352.85045	346.83237	9.42964
METEOSAT-9	16	312	07/11/2016	42166.42938	0.00006831	1.75188	69.36697	57.12362	289.44247	9.31513
METEOSAT-9	16	319	14/11/2016	42167.61507	0.00004170	1.76368	69.23809	311.93691	41.59616	9.25083
METEOSAT-9	16	326	21/11/2016	42165.30602	0.00005594	1.78976	69.33291	229.81728	130.49458	9.22163
METEOSAT-9	16	333	28/11/2016	42166.09560	0.00009298	1.80268	69.19144	322.47275	44.89811	9.23630
METEOSAT-9	16	340	05/12/2016	42164.80945	0.00002334	1.82517	69.26766	25.91443	348.35675	9.30989
METEOSAT-9	16	347	12/12/2016	42164.63621	0.00008966	1.84003	69.23877	268.75127	112.57548	9.43405
METEOSAT-9	16	354	19/12/2016	42167.26874	0.00001377	1.86395	69.48217	112.69508	275.21756	9.36114
METEOSAT-9	16	361	26/12/2016	42167.17152	0.00009225	1.87815	69.47375	357.91956	36.78687	9.24518
METEOSAT-9	17	2	02/01/2017	42166.88123	0.00008601	1.89849	69.74706	54.31079	346.96554	9.18334
METEOSAT-9	17	9	09/01/2017	42165.39514	0.00004711	1.91203	69.82014	293.19561	114.89469	9.17068
METEOSAT-9	17	16	16/01/2017	42165.61214	0.00002574	1.93103	70.20063	332.66848	81.98948	9.21971
METEOSAT-9	17	23	23/01/2017	42164.25293	0.00010917	1.94203	70.24849	339.94944	81.66660	9.32781

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METEOSAT-9	17	30	30/01/2017	42164.91112	0.00008276	1.95677	70.60063	35.06691	33.25267	9.48620
METEOSAT-9	17	37	06/02/2017	42162.51350	0.00008491	1.96687	70.64886	294.73355	140.63952	9.69175
METEOSAT-9	17	44	13/02/2017	42169.21328	0.00009052	1.97862	71.00048	88.34629	353.43129	9.55177
METEOSAT-9	17	51	20/02/2017	42166.81476	0.00008455	1.98683	70.97292	38.80499	49.74918	9.40541
METEOSAT-9	17	58	27/02/2017	42167.97921	0.00015130	1.99633	71.23478	77.79509	17.29399	9.30666
METEOSAT-9	17	65	06/03/2017	42165.32372	0.00001910	2.00535	71.14522	79.20178	22.81715	9.25168
METEOSAT-9	17	72	13/03/2017	42166.94578	0.00009230	2.01363	71.34918	65.90194	42.82438	9.26723
METEOSAT-9	17	79	20/03/2017	42164.38327	0.00009800	2.02178	71.16946	29.62392	86.25109	9.34010
METEOSAT-9	17	86	27/03/2017	42165.28219	0.00015010	2.03031	71.28688	69.62965	53.14701	9.46214
METEOSAT-9	17	93	03/04/2017	42163.06113	0.00002890	2.04298	71.06044	31.89020	98.17251	9.62388
METEOSAT-9	17	100	10/04/2017	42169.00724	0.00008890	2.05153	71.10616	122.79739	14.03638	9.54166
METEOSAT-9	17	107	17/04/2017	42167.18708	0.00005230	2.06467	70.84649	113.36633	30.47892	9.39346
METEOSAT-9	17	114	24/04/2017	42167.10795	0.00013710	2.07571	70.88334	109.02772	41.58451	9.29621
METEOSAT-9	17	121	01/05/2017	42165.94681	0.00008020	2.09500	70.64316	172.21042	345.48421	9.23635
METEOSAT-9	17	128	08/05/2017	42165.84842	0.00008290	2.10640	70.65577	103.53141	61.06718	9.24995
METEOSAT-9	17	135	15/05/2017	42165.24289	0.00006550	2.12517	70.44202	108.29113	63.49929	9.32417
METEOSAT-9	17	142	22/05/2017	42163.88426	0.00013760	2.13860	70.51470	102.78640	75.96158	9.45023
METEOSAT-9	17	149	29/05/2017	42164.07555	0.00008210	2.16287	70.38834	166.50168	19.44143	9.61434
METEOSAT-9	17	156	05/06/2017	42167.76249	0.00003770	2.17578	70.46536	326.79072	225.89233	9.52724
METEOSAT-9	17	163	12/06/2017	42168.32956	0.00003980	2.19754	70.40511	273.53704	285.95526	9.37225
METEOSAT-9	17	170	19/06/2017	42165.97413	0.00002760	2.21022	70.56183	85.55106	120.58366	9.26828
METEOSAT-9	17	177	26/06/2017	42167.20002	0.00010510	2.23519	70.59488	237.27012	335.67249	9.20652
METEOSAT-9	17	184	03/07/2017	42164.95620	0.00003640	2.24624	70.74105	354.90799	224.78732	9.20417
METEOSAT-9	17	191	10/07/2017	42166.16924	0.00002950	2.26649	70.82354	245.27945	341.30188	9.27231
METEOSAT-9	17	198	17/07/2017	42163.46523	0.00003590	2.27555	71.01735	110.51737	122.88593	9.38936
METEOSAT-9	17	205	24/07/2017	42164.99694	0.00010720	2.29708	71.15910	228.62135	11.70317	9.55450
METEOSAT-9	17	212	31/07/2017	42167.21857	0.00013790	2.30411	71.29791	10.78473	236.22252	9.47976
METEOSAT-9	17	219	07/08/2017	42168.29035	0.00007550	2.32036	71.43858	3.61221	250.01889	9.34865
METEOSAT-9	17	226	14/08/2017	42166.03586	0.00008520	2.32498	71.56833	34.21816	226.09252	9.26347
METEOSAT-9	17	233	21/08/2017	42167.05484	0.00005890	2.34227	71.71905	289.63662	337.38588	9.23178
METEOSAT-9	17	240	28/08/2017	42165.13681	0.00011640	2.34600	71.74885	11.40644	262.49146	9.24338
METEOSAT-9	17	247	04/09/2017	42165.30693	0.00004710	2.35906	71.84832	17.76490	263.01707	9.33309

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	17	254	11/09/2017	42164.19991	0.00005130	2.36204	71.82830	33.99907	253.82979	9.46591
METEOSAT-9	17	261	18/09/2017	42164.06106	0.00005530	2.37708	71.91094	267.28031	27.55168	9.65676
METEOSAT-9	17	268	25/09/2017	42168.22036	0.00010140	2.38137	71.78157	289.53318	12.23440	9.56704
METEOSAT-9	17	275	02/10/2017	42167.12940	0.00010110	2.39440	71.80048	240.88885	67.61439	9.42436
METEOSAT-9	17	282	09/10/2017	42167.46957	0.00011140	2.40065	71.62405	250.68157	64.79661	9.32429
METEOSAT-9	17	289	16/10/2017	42166.00419	0.00019110	2.41707	71.65185	243.91391	78.39638	9.28420
METEOSAT-9	17	296	23/10/2017	42166.18559	0.00012140	2.42638	71.40971	277.44455	52.01072	9.28551
METEOSAT-9	17	303	30/10/2017	42164.24550	0.00014260	2.44592	71.40777	234.58637	101.84314	9.35494
METEOSAT-9	17	310	06/11/2017	42165.71145	0.00016330	2.45896	71.17523	252.36267	91.31357	9.46483
METEOSAT-9	17	317	13/11/2017	42163.08947	0.00023370	2.47848	71.23535	244.28139	106.41042	9.63529
METEOSAT-9	17	324	20/11/2017	42163.99587	0.00016310	2.49423	71.01095	271.03918	87.00201	9.85412
METEOSAT-9	17	331	27/11/2017	42167.61343	0.00025880	2.51317	71.07904	205.55067	159.18754	9.71325
METEOSAT-9	17	338	04/12/2017	42169.28003	0.00024950	2.53171	70.91830	221.25349	150.35354	9.51539
METEOSAT-9	17	345	11/12/2017	42166.26318	0.00031570	2.55192	71.09090	221.90381	156.29738	9.37668
METEOSAT-9	17	352	18/12/2017	42167.37058	0.00020970	2.57093	70.98327	231.03553	154.09496	9.29352
METEOSAT-9	17	359	25/12/2017	42165.48893	0.00027300	2.58832	71.17425	213.34060	178.47781	9.26880
METEOSAT-9	18	1	01/01/2018	42166.33203	0.00028150	2.60770	71.12946	229.67008	169.12398	9.29734
METEOSAT-9	18	8	08/01/2018	42163.96829	0.00032300	2.62390	71.39772	228.97500	176.53626	9.38213
METEOSAT-9	18	15	15/01/2018	42164.62216	0.00023070	2.64142	71.39086	239.73715	172.82690	9.52917
METEOSAT-9	18	22	22/01/2018	42167.89987	0.00022230	2.65295	71.63809	242.00704	177.12925	9.45143
METEOSAT-9	18	29	29/01/2018	42167.35548	0.00028310	2.66919	71.64978	257.45507	168.43301	9.31928
METEOSAT-9	18	36	05/02/2018	42166.43869	0.00028430	2.67866	71.89761	255.54079	176.91588	9.24138
METEOSAT-9	18	43	12/02/2018	42166.04536	0.00024500	2.69271	71.89311	273.41049	165.93114	9.22885
METEOSAT-9	18	50	19/02/2018	42165.99669	0.00022320	2.69832	72.07492	251.06912	195.01372	9.25964
METEOSAT-9	18	57	26/02/2018	42202.77857	0.00012740	2.71195	72.03711	261.35631	189.52629	7.12745
METEOSAT-9	18	64	05/03/2018	42203.20389	0.00009830	2.71688	72.16024	258.55429	195.78335	3.81010
METEOSAT-9	18	71	12/03/2018	42167.19565	0.00009720	2.72996	72.08489	307.29436	153.64865	3.44797
METEOSAT-9	18	78	19/03/2018	42167.93460	0.00005220	2.73362	72.12838	226.30696	241.37583	3.33859
METEOSAT-9	18	85	26/03/2018	42165.75493	0.00013340	2.74913	72.01195	279.03319	195.59423	3.27345
METEOSAT-9	18	92	02/04/2018	42167.21451	0.00007930	2.75420	71.98851	283.49911	198.02174	3.24861
METEOSAT-9	18	99	09/04/2018	42165.01722	0.00011880	2.77021	71.85112	319.36438	169.21606	3.27449
METEOSAT-9	18	106	16/04/2018	42166.28395	0.00003180	2.77624	71.79362	252.03879	243.54654	3.32351

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	18	113	23/04/2018	42163.76435	0.00013770	2.79681	71.66546	294.43508	208.26919	3.41403
METEOSAT-9	18	120	30/04/2018	42165.52403	0.00007450	2.80568	71.56256	312.87690	196.96701	3.54834
METEOSAT-9	18	127	07/05/2018	42163.11713	0.00012840	2.82613	71.45397	330.30251	186.73914	3.73313
METEOSAT-9	18	134	14/05/2018	42168.78386	0.00009390	2.83643	71.37828	173.67197	350.20868	3.59072
METEOSAT-9	18	141	21/05/2018	42166.66749	0.00008610	2.86148	71.33735	252.63913	278.02624	3.42756
METEOSAT-9	18	148	28/05/2018	42167.91675	0.00003180	2.87419	71.24779	189.05075	348.49659	3.31218
METEOSAT-9	18	155	04/06/2018	42166.20483	0.00002050	2.89676	71.24699	295.77160	248.61991	3.24724
METEOSAT-9	18	162	11/06/2018	42166.39135	0.00008230	2.90902	71.22228	162.69894	28.59052	3.21243
METEOSAT-9	18	169	18/06/2018	42165.32641	0.00007130	2.93468	71.31071	253.80166	304.30491	3.21022
METEOSAT-9	18	176	25/06/2018	42165.51176	0.00002440	2.94806	71.28228	135.26922	69.81985	3.25790
METEOSAT-9	18	183	02/07/2018	42164.99253	0.00000630	2.96846	71.39865	240.19662	331.78122	3.35793
METEOSAT-9	18	190	09/07/2018	42163.93210	0.00008290	2.97921	71.41923	151.36072	67.63334	3.49192
METEOSAT-9	18	197	16/07/2018	42164.22113	0.00006720	3.00124	71.60313	246.31755	339.55836	3.65655
METEOSAT-9	18	204	23/07/2018	42167.64542	0.00009640	3.01242	71.60126	16.72331	215.92866	3.53235
METEOSAT-9	18	211	30/07/2018	42168.32052	0.00008350	3.02761	71.77140	352.86826	246.37221	3.39447
METEOSAT-9	18	218	06/08/2018	42166.22942	0.00004760	3.03522	71.77707	55.34700	190.67924	3.29180
METEOSAT-9	18	225	13/08/2018	42167.56143	0.00009740	3.05154	71.97199	312.87771	299.77293	3.21823
METEOSAT-9	18	232	20/08/2018	42165.50821	0.00009230	3.06043	71.92796	26.42247	233.13440	3.18957
METEOSAT-9	18	239	27/08/2018	42166.88774	0.00005980	3.07042	72.07217	349.47221	276.85829	3.21722
METEOSAT-9	18	246	03/09/2018	42164.36921	0.00003920	3.07657	71.99389	71.55659	201.80255	3.27832
METEOSAT-9	18	253	10/09/2018	42166.02294	0.00009090	3.08878	72.12093	305.19061	335.02225	3.36926
METEOSAT-9	18	260	17/09/2018	42163.67928	0.00008110	3.09811	71.98554	30.57525	256.79292	3.49916
METEOSAT-9	18	267	24/09/2018	42164.94916	0.00003680	3.10626	72.04545	335.04738	319.33996	3.68659
METEOSAT-9	18	274	01/10/2018	42167.32137	0.00010840	3.11529	71.86381	11.73496	289.65597	3.61518
METEOSAT-9	18	281	08/10/2018	42168.47583	0.00016660	3.12688	71.91297	331.80509	336.27903	3.46181
METEOSAT-9	18	288	15/10/2018	42166.66208	0.00016860	3.14063	71.70446	9.74104	305.33142	3.34384
METEOSAT-9	18	295	22/10/2018	42167.06506	0.00011490	3.15096	71.70167	346.89021	335.02365	3.28203
METEOSAT-9	18	302	29/10/2018	42165.94596	0.00009940	3.17029	71.47102	352.63943	336.38284	3.25699
METEOSAT-9	18	309	05/11/2018	42166.06261	0.00016790	3.18439	71.49131	323.53637	12.37990	3.26603
METEOSAT-9	18	316	12/11/2018	42165.28630	0.00016310	3.20457	71.29776	358.27507	344.78674	3.31054
METEOSAT-9	18	323	19/11/2018	42164.44336	0.00010440	3.21808	71.30972	326.72428	23.33164	3.40749
METEOSAT-9	18	330	26/11/2018	42164.82658	0.00011510	3.24072	71.14845	338.12310	19.13615	3.53905

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	18	337	03/12/2018	42163.60202	0.00017940	3.25643	71.21232	317.88473	46.39160	3.70920
METEOSAT-9	18	344	10/12/2018	42168.52787	0.00011640	3.28046	71.11981	26.90163	344.24381	3.57528
METEOSAT-9	18	351	17/12/2018	42166.71939	0.00001260	3.29414	71.20124	349.16149	28.65667	3.42012
METEOSAT-9	18	358	24/12/2018	42168.27489	0.00006350	3.31901	71.15745	10.82619	13.82938	3.30524
METEOSAT-9	18	365	31/12/2018	42165.92212	0.00010100	3.33251	71.28239	322.50343	68.85679	3.22867
METEOSAT-9	19	7	07/01/2019	42166.99947	0.00012820	3.35516	71.30441	11.96031	26.25186	3.19831
METEOSAT-9	19	14	14/01/2019	42164.92596	0.00004330	3.36456	71.42738	314.93735	90.06210	3.20741
METEOSAT-9	19	21	21/01/2019	42166.76974	0.00010020	3.38661	71.46765	350.82732	61.08593	3.26264
METEOSAT-9	19	28	28/01/2019	42163.93283	0.00013970	3.39491	71.58816	324.42123	94.35758	3.35326
METEOSAT-9	19	35	04/02/2019	42165.22639	0.00015880	3.41277	71.65352	2.65437	63.09462	3.49572
METEOSAT-9	19	42	11/02/2019	42163.51114	0.00008060	3.41669	71.72861	325.78571	106.95268	3.67003
METEOSAT-9	19	49	18/02/2019	42168.92052	0.00006130	3.43458	71.76834	17.91646	61.55996	3.55861
METEOSAT-9	19	56	25/02/2019	42166.67973	0.00007590	3.43903	71.79563	342.11083	104.08983	3.42246
METEOSAT-9	19	63	04/03/2019	42167.53603	0.00012730	3.45355	71.82567	27.31085	65.66570	3.34111
METEOSAT-9	19	70	11/03/2019	42166.60029	0.00002640	3.45548	71.78516	35.68611	64.16060	3.28365
METEOSAT-9	19	77	18/03/2019	42166.30160	0.00010580	3.47207	71.77753	2.27644	104.46173	3.27941
METEOSAT-9	19	84	25/03/2019	42165.44662	0.00011090	3.47723	71.67863	357.67986	116.07008	3.30288
METEOSAT-9	19	91	01/04/2019	42165.25763	0.00016400	3.49245	71.65845	21.76262	98.97668	3.38041
METEOSAT-9	19	98	08/04/2019	42165.28731	0.00006220	3.49752	71.50991	27.90807	99.97102	3.47733
METEOSAT-9	19	105	15/04/2019	42163.69319	0.00015470	3.51642	71.48075	2.67210	132.28277	3.62661
METEOSAT-9	19	112	22/04/2019	42164.36165	0.00014190	3.52667	71.30622	11.72137	130.48734	3.80516
METEOSAT-9	19	119	29/04/2019	42167.71325	0.00017290	3.54483	71.28459	347.51021	161.55305	3.73432
METEOSAT-9	19	126	06/05/2019	42168.59596	0.00008760	3.55595	71.10636	314.89820	201.06776	3.55209
METEOSAT-9	19	133	13/05/2019	42166.22328	0.00019550	3.57772	71.12203	334.50076	188.22568	3.41924
METEOSAT-9	19	140	20/05/2019	42167.82769	0.00014640	3.59363	70.95284	340.67255	189.03659	3.32143
METEOSAT-9	19	147	27/05/2019	42165.53754	0.00019170	3.61346	70.99509	356.10079	180.43276	3.27554
METEOSAT-9	19	154	03/06/2019	42166.81449	0.00008600	3.62903	70.86031	334.76764	208.79396	3.25534
METEOSAT-9	19	161	10/06/2019	42164.33751	0.00020750	3.65086	70.96078	344.71405	205.68288	3.27793
METEOSAT-9	19	168	17/06/2019	42166.03551	0.00014910	3.66956	70.85614	353.81127	203.66978	3.34486
METEOSAT-9	19	175	24/06/2019	42163.77703	0.00019380	3.68692	70.97362	3.02283	201.36936	3.46289
METEOSAT-9	19	182	01/07/2019	42164.69384	0.00008590	3.70334	70.90130	352.80224	218.72280	3.61517
METEOSAT-9	19	189	08/07/2019	42167.18585	0.00018130	3.72121	71.07230	21.49457	196.66901	3.51965

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	19	196	15/07/2019	42168.19630	0.00015790	3.73900	71.02854	43.70622	181.25422	3.37090
METEOSAT-9	19	203	22/07/2019	42166.77906	0.00018570	3.75069	71.17593	40.43428	191.17769	3.27147
METEOSAT-9	19	210	29/07/2019	42166.70629	0.00011960	3.76502	71.13468	66.83026	171.65780	3.21142
METEOSAT-9	19	217	05/08/2019	42166.01185	0.00018160	3.77697	71.30288	26.46024	218.71631	3.17621
METEOSAT-9	19	224	12/08/2019	42165.87667	0.00017190	3.79277	71.26567	50.99816	201.12814	3.19999
METEOSAT-9	19	231	19/08/2019	42165.68156	0.00016900	3.79866	71.37377	45.48491	213.48975	3.27002
METEOSAT-9	19	238	26/08/2019	42164.35705	0.00013250	3.81121	71.30186	73.37691	192.66579	3.38162
METEOSAT-9	19	245	02/09/2019	42164.95869	0.00017220	3.81874	71.40257	28.09595	244.85904	3.51046
METEOSAT-9	19	252	09/09/2019	42163.53297	0.00017710	3.83383	71.32690	57.54786	222.55549	3.69928
METEOSAT-9	19	259	16/09/2019	42168.90461	0.00008230	3.83716	71.34735	93.11316	193.79903	3.64281
METEOSAT-9	19	266	23/09/2019	42166.64171	0.00012770	3.85088	71.22265	126.29960	167.49624	3.51434
METEOSAT-9	19	273	30/09/2019	42168.10418	0.00006270	3.85754	71.22858	48.95567	251.61031	3.40009
METEOSAT-9	19	280	07/10/2019	42165.85047	0.00012640	3.87560	71.11387	100.15809	207.35711	3.34155
METEOSAT-9	19	287	14/10/2019	42167.24815	0.00007030	3.88066	71.05005	108.40843	206.05079	3.32477
METEOSAT-9	19	294	21/10/2019	42164.77659	0.00012550	3.89933	70.89977	133.03300	188.50009	3.34777
METEOSAT-9	19	301	28/10/2019	42166.32940	0.00004820	3.90927	70.84638	49.08203	279.44846	3.38712
METEOSAT-9	19	308	04/11/2019	42164.66979	0.00010300	3.93316	70.77872	109.91586	225.63908	3.43578
METEOSAT-9	19	315	11/11/2019	42165.75456	0.00005000	3.94280	70.69208	145.04866	197.57941	3.51045
METEOSAT-9	19	322	18/11/2019	42163.86715	0.00010130	3.96716	70.59437	148.37147	201.38455	3.62644
METEOSAT-9	19	329	25/11/2019	42164.73947	0.00002390	3.98075	70.54477	11.92869	344.93319	3.76676
METEOSAT-9	19	336	02/12/2019	42167.66955	0.00014690	4.00692	70.52032	65.42406	298.22196	3.61029
METEOSAT-9	19	343	09/12/2019	42167.75545	0.00007000	4.01954	70.46943	54.41584	316.02986	3.44337
METEOSAT-9	19	350	16/12/2019	42167.08933	0.00008980	4.04567	70.47827	74.74155	302.48764	3.32070
METEOSAT-9	19	354	20/12/2019	42165.89576	0.00004910	4.05208	70.52548	29.09353	351.98327	3.26527
METEOSAT-9	19	364	30/12/2019	42166.39357	0.00014180	4.08423	70.54196	54.91499	335.94025	3.18751
METEOSAT-9	20	6	06/01/2020	42165.32581	0.00005580	4.09539	70.53722	31.62173	6.14669	3.18968
METEOSAT-9	20	13	13/01/2020	42166.09190	0.00009460	4.11814	70.63182	50.27859	354.34752	3.23910
METEOSAT-9	20	20	20/01/2020	42164.54443	0.00014510	4.12951	70.63576	10.38994	41.21537	3.32431
METEOSAT-9	20	27	27/01/2020	42165.10627	0.00015590	4.14722	70.75416	42.75445	15.76081	3.45856
METEOSAT-9	20	34	03/02/2020	42163.23621	0.00007480	4.15453	70.73591	8.73754	56.86052	3.63394
METEOSAT-9	20	41	10/02/2020	42169.42309	0.00010480	4.17184	70.84275	83.84115	348.48106	3.57803
METEOSAT-9	20	48	17/02/2020	42166.79350	0.00009620	4.18051	70.79863	33.01720	46.09577	3.44096

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	20	55	24/02/2020	42167.95589	0.00014770	4.19228	70.88123	69.06804	16.75498	3.35123
METEOSAT-9	20	62	02/03/2020	42165.97044	0.00004670	4.19776	70.79013	73.63858	19.10163	3.29651
METEOSAT-9	20	69	09/03/2020	42167.70852	0.00012610	4.21154	70.85122	59.12194	40.43373	3.29153
METEOSAT-9	20	76	16/03/2020	42164.87559	0.00013500	4.22142	70.72423	26.57193	80.01789	3.31658
METEOSAT-9	20	83	23/03/2020	42166.07202	0.00017040	4.23166	70.74685	58.32128	55.20076	3.38658
METEOSAT-9	20	90	30/03/2020	42164.54212	0.00007900	4.24000	70.57233	50.72940	69.95435	3.48610
METEOSAT-9	20	97	06/04/2020	42165.20871	0.00016710	4.25430	70.58561	44.09631	83.61390	3.63386
METEOSAT-9	20	104	13/04/2020	42163.26476	0.00017500	4.26979	70.40280	28.69639	106.26789	3.80880
METEOSAT-9	20	111	20/04/2020	42168.50332	0.00011330	4.28187	70.39171	28.92648	112.87969	3.73829
METEOSAT-9	20	118	27/04/2020	42167.80410	0.00005800	4.29710	70.19681	340.63088	168.10627	3.56865
METEOSAT-9	20	125	04/05/2020	42167.05595	0.00015010	4.31326	70.20865	11.54051	143.97106	3.44509
METEOSAT-9	20	132	11/05/2020	42166.62117	0.00014800	4.33501	70.04386	4.53886	157.95827	3.35212
METEOSAT-9	20	139	18/05/2020	42166.13229	0.00015140	4.34899	70.05285	32.84370	136.51341	3.30447
METEOSAT-9	20	146	25/05/2020	42166.39265	0.00007260	4.36986	69.90559	9.94612	166.46203	3.28918
METEOSAT-9	20	153	01/06/2020	42164.51347	0.00019360	4.38645	69.95575	19.52258	163.78123	3.31532
METEOSAT-9	20	160	08/06/2020	42165.50378	0.00015540	4.41152	69.86081	17.91094	172.47415	3.38157
METEOSAT-9	20	167	15/06/2020	42163.81120	0.00018030	4.42461	69.91229	38.69212	158.67352	3.49547
METEOSAT-9	20	174	22/06/2020	42164.85554	0.00008490	4.44708	69.84006	29.88372	174.62410	3.64932
METEOSAT-9	20	181	29/06/2020	42166.66010	0.00027510	4.46054	69.92816	8.08807	203.05953	3.46585
METEOSAT-9	20	188	06/07/2020	42168.39533	0.00021530	4.48476	69.90690	4.10826	213.83057	3.32787
METEOSAT-9	20	195	13/07/2020	42166.04723	0.00022620	4.49419	69.97756	19.05245	205.62715	3.23672
METEOSAT-9	20	202	20/07/2020	42167.32612	0.00014360	4.51459	69.96089	1.53205	230.01699	3.19130
METEOSAT-9	20	209	27/07/2020	42165.02275	0.00027400	4.52313	70.04314	14.41676	223.92422	3.17279
METEOSAT-9	20	216	03/08/2020	42166.62571	0.00020260	4.54373	70.05689	11.85550	233.40448	3.21715
METEOSAT-9	20	223	10/08/2020	42164.50125	0.00021390	4.54789	70.09248	23.67757	228.51677	3.30361
METEOSAT-9	20	230	17/08/2020	42165.23141	0.00013140	4.56520	70.08096	11.38602	247.83519	3.43852
METEOSAT-9	20	237	24/08/2020	42163.71025	0.00026330	4.57019	70.10135	18.32762	247.90129	3.58871
METEOSAT-9	20	244	31/08/2020	42168.46720	0.00009370	4.58793	70.10767	14.53334	258.52573	3.54737
METEOSAT-9	20	251	07/09/2020	42167.31448	0.00009860	4.58985	70.06112	25.20815	254.66474	3.43662
METEOSAT-9	20	258	14/09/2020	42166.91336	0.00002530	4.60615	70.02128	3.76619	282.96264	3.37318
METEOSAT-9	20	265	21/09/2020	42166.58754	0.00015730	4.61144	69.95172	16.42170	277.20016	3.31441
METEOSAT-9	20	272	28/09/2020	42166.06197	0.00007850	4.62899	69.93035	27.80863	272.72954	3.32349

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-9	20	279	05/10/2020	42166.11705	0.00008240	4.63359	69.79995	19.56428	288.03456	3.36317
METEOSAT-9	20	286	12/10/2020	42164.52200	0.00001210	4.65205	69.73749	30.98726	283.65399	3.44737
METEOSAT-9	20	293	19/10/2020	42165.39502	0.00014890	4.66222	69.60111	13.59264	308.17376	3.53438
METEOSAT-9	20	300	26/10/2020	42163.64658	0.00005930	4.68267	69.57770	38.47365	290.37474	3.68579
METEOSAT-9	20	307	02/11/2020	42168.71879	0.00008800	4.69376	69.41007	293.20062	42.65154	3.60959
METEOSAT-9	20	314	09/11/2020	42166.38126	0.00009880	4.71563	69.37732	250.28485	92.38225	3.47554
METEOSAT-9	20	321	16/11/2020	42167.94581	0.00012810	4.73166	69.23729	327.37765	22.22557	3.35166
METEOSAT-9	20	328	23/11/2020	42165.13720	0.00007620	4.75622	69.23791	269.86759	86.62485	3.31919
METEOSAT-9	20	335	30/11/2020	42166.48143	0.00011970	4.77267	69.10200	288.66455	74.90123	3.33281
METEOSAT-9	20	342	07/12/2020	42164.16493	0.00012400	4.79520	69.13899	259.99310	110.51825	3.39201
METEOSAT-9	20	349	14/12/2020	42165.61414	0.00015150	4.81476	69.04366	319.11513	58.49605	3.47462
METEOSAT-9	20	356	21/12/2020	42166.83032	0.00005840	4.83542	69.13486	212.96523	171.39466	3.39647
METEOSAT-9	20	363	28/12/2020	42167.71161	0.00007660	4.85300	69.05751	264.13919	127.09182	3.27621
METEOSAT-9	21	4	04/01/2021	42166.17047	0.00009060	4.87176	69.15958	238.20375	159.76025	3.20219
METEOSAT-9	21	11	11/01/2021	42166.81203	0.00009370	4.88998	69.10755	322.04624	82.83433	3.16324

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	12	205	23/07/2012	42029.86517	0.00011781	1.78968	255.90118	107.59245	292.67782	-4.98052
METEOSAT-10	12	212	30/07/2012	42167.01450	0.00003872	1.77130	255.79240	108.22178	300.58086	-3.45627
METEOSAT-10	12	219	06/08/2012	42166.47413	0.00005429	1.75783	255.20054	121.02492	295.21849	-3.50577
METEOSAT-10	12	226	13/08/2012	42166.20889	0.00006807	1.74310	255.05779	37.05338	26.21132	-3.52493
METEOSAT-10	12	233	20/08/2012	42166.67272	0.00010600	1.73248	254.47896	103.65783	327.06934	-3.53828
METEOSAT-10	12	240	27/08/2012	42165.44657	0.00001455	1.71625	254.35404	91.35361	346.40925	-3.52419
METEOSAT-10	12	247	03/09/2012	42166.27629	0.00004968	1.70953	253.85533	89.36422	355.83115	-3.48661
METEOSAT-10	12	254	10/09/2012	42164.82408	0.00007435	1.69673	253.77244	23.05884	69.18420	-3.41818
METEOSAT-10	12	261	17/09/2012	42166.17355	0.00010440	1.69037	253.34189	98.06342	1.57720	-3.34743
METEOSAT-10	12	268	24/09/2012	42164.05866	0.00001801	1.67385	253.31520	8.33350	98.32927	-3.24887
METEOSAT-10	12	275	01/10/2012	42165.73395	0.00006388	1.66920	253.03973	68.36966	45.59078	-3.12374
METEOSAT-10	12	282	08/10/2012	42167.09589	0.00001369	1.65461	253.08026	308.21773	172.49141	-3.23252
METEOSAT-10	12	289	15/10/2012	42168.69963	0.00010229	1.64745	252.86152	138.43275	349.24173	-3.38420
METEOSAT-10	12	296	22/10/2012	42166.38330	0.00005190	1.62643	252.92077	225.13789	269.25030	-3.51074
METEOSAT-10	12	303	29/10/2012	42168.12272	0.00004138	1.61883	252.84502	132.55532	8.71139	-3.60773
METEOSAT-10	12	310	05/11/2012	42166.23746	0.00001580	1.59902	252.91572	358.02741	150.00288	-3.67415
METEOSAT-10	12	317	12/11/2012	42167.30604	0.00009729	1.58774	252.80503	130.72899	24.25285	-3.73431
METEOSAT-10	12	324	19/11/2012	42165.59238	0.00003941	1.56080	252.78637	226.49690	295.36533	-3.77441
METEOSAT-10	12	331	26/11/2012	42166.67787	0.00004467	1.54824	252.75387	104.10325	64.68432	-3.78331
METEOSAT-10	12	338	03/12/2012	42165.70176	0.00001749	1.52371	252.66091	54.57279	121.23192	-3.76130
METEOSAT-10	12	345	10/12/2012	42165.64178	0.00009793	1.50920	252.47991	123.95636	58.96276	-3.72986
METEOSAT-10	12	352	17/12/2012	42165.15830	0.00003729	1.47960	252.19935	212.01579	338.13365	-3.68215
METEOSAT-10	12	359	24/12/2012	42165.08491	0.00005869	1.46493	252.02850	92.05191	105.24817	-3.60385
METEOSAT-10	12	366	31/12/2012	42165.34530	0.00002652	1.44055	251.62437	108.29458	96.42173	-3.49300
METEOSAT-10	13	7	07/01/2013	42164.03445	0.00010579	1.42728	251.28245	123.58539	88.49610	-3.37035
METEOSAT-10	13	14	14/01/2013	42164.87324	0.00005093	1.40131	250.68170	199.92170	19.79892	-3.23212
METEOSAT-10	13	21	21/01/2013	42126.53934	0.00006540	1.38941	250.35666	145.65203	84.08033	-0.44432
METEOSAT-10	13	28	28/01/2013	42169.73421	0.00008541	1.37044	249.70633	186.16334	52.05942	0.49710
METEOSAT-10	13	35	04/02/2013	42167.31682	0.00013354	1.36163	249.33520	157.05332	88.23031	0.28861
METEOSAT-10	13	42	11/02/2013	42168.95241	0.00013085	1.34317	248.58974	207.52562	45.21948	0.10667
METEOSAT-10	13	49	18/02/2013	42166.85564	0.00007956	1.33548	248.34095	151.13921	108.60045	-0.04522
METEOSAT-10	13	56	25/02/2013	42168.42781	0.00011584	1.32283	247.67405	186.65859	80.54031	-0.15043

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METEOSAT-10	13	63	04/03/2013	42165.97287	0.00015480	1.31646	247.49966	165.66658	108.51883	-0.23584
METEOSAT-10	13	70	11/03/2013	42167.56722	0.00015143	1.30355	246.86757	207.91753	73.73993	-0.29357
METEOSAT-10	13	77	18/03/2013	42165.70312	0.00009354	1.29609	246.86642	164.66530	123.85964	-0.32513
METEOSAT-10	13	84	25/03/2013	42166.60065	0.00015034	1.28569	246.36796	188.04066	107.89625	-0.30984
METEOSAT-10	13	91	01/04/2013	42164.93481	0.00017149	1.27611	246.47750	175.55073	127.20972	-0.27535
METEOSAT-10	13	98	08/04/2013	42165.80820	0.00017228	1.26385	246.02088	209.46798	100.71352	-0.21001
METEOSAT-10	13	105	15/04/2013	42164.74734	0.00010493	1.25174	246.22756	180.35811	136.60876	-0.11742
METEOSAT-10	13	112	22/04/2013	42164.36587	0.00018790	1.23932	245.85396	190.80946	133.56850	0.02010
METEOSAT-10	13	119	29/04/2013	42164.14331	0.00018121	1.22269	246.09752	186.51031	144.68388	0.18009
METEOSAT-10	13	126	06/05/2013	42163.77794	0.00019566	1.20809	245.68411	212.81772	125.88389	0.37339
METEOSAT-10	13	133	13/05/2013	42163.74501	0.00011588	1.18957	245.88399	196.18304	149.44539	0.59924
METEOSAT-10	13	140	20/05/2013	42162.17603	0.00021967	1.17459	245.44556	196.41115	156.82362	0.86606
METEOSAT-10	13	147	27/05/2013	42170.05985	0.00003838	1.15180	245.56529	152.91818	206.96610	0.73434
METEOSAT-10	13	154	03/06/2013	42168.56583	0.00006626	1.13587	245.00840	247.60716	119.45564	0.45502
METEOSAT-10	13	161	10/06/2013	42169.40193	0.00003710	1.11348	244.95584	16.89098	356.87681	0.20673
METEOSAT-10	13	168	17/06/2013	42167.35777	0.00007639	1.09913	244.28574	196.95631	184.16543	-0.00983
METEOSAT-10	13	175	24/06/2013	42169.34539	0.00002122	1.07413	244.07693	236.89544	151.15070	-0.19453
METEOSAT-10	13	182	01/07/2013	42166.79434	0.00008769	1.06092	243.28746	263.16927	132.41082	-0.35005
METEOSAT-10	13	189	08/07/2013	42168.09897	0.00005156	1.03940	242.86223	347.76339	55.02452	-0.46712
METEOSAT-10	13	196	15/07/2013	42166.20740	0.00007502	1.02977	241.98643	221.79971	188.66707	-0.56340
METEOSAT-10	13	203	22/07/2013	42167.97840	0.00004845	1.00757	241.42058	289.20684	128.66473	-0.62355
METEOSAT-10	13	210	29/07/2013	42165.45172	0.00010329	0.99998	240.54559	281.96243	143.64695	-0.65949
METEOSAT-10	13	217	05/08/2013	42166.63248	0.00007943	0.98286	239.86116	342.43175	90.76523	-0.65495
METEOSAT-10	13	224	12/08/2013	42165.39374	0.00006842	0.97920	239.03038	248.00864	192.93434	-0.63811
METEOSAT-10	13	231	19/08/2013	42166.09574	0.00008519	0.96154	238.30552	307.96961	140.65456	-0.58027
METEOSAT-10	13	238	26/08/2013	42164.56084	0.00011148	0.95875	237.65002	302.40567	153.85223	-0.50037
METEOSAT-10	13	245	02/09/2013	42164.91819	0.00011116	0.94550	236.96755	345.84459	118.11695	-0.37758
METEOSAT-10	13	252	09/09/2013	42164.66138	0.00006080	0.94439	236.47341	274.24479	197.24002	-0.24677
METEOSAT-10	13	259	16/09/2013	42163.94312	0.00012163	0.92902	235.81598	321.09472	158.12219	-0.07110
METEOSAT-10	13	266	23/09/2013	42163.90709	0.00011336	0.92590	235.58434	321.65544	164.89267	0.12949
METEOSAT-10	13	273	30/09/2013	42162.97793	0.00014052	0.91264	235.04937	350.89650	143.33176	0.37523
METEOSAT-10	13	280	07/10/2013	42163.74975	0.00005495	0.90825	234.95395	297.49149	203.98678	0.63035

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METEOSAT-10	13	287	14/10/2013	42161.80658	0.00015169	0.89104	234.36686	332.21042	177.05674	0.93233
METEOSAT-10	13	294	21/10/2013	42170.02046	0.00007987	0.88245	234.45551	222.05172	293.82173	0.72740
METEOSAT-10	13	301	28/10/2013	42168.04195	0.00002130	0.86581	233.93686	261.57263	261.47368	0.48135
METEOSAT-10	13	308	04/11/2013	42169.46827	0.00013385	0.85469	233.99597	199.85285	329.80144	0.24835
METEOSAT-10	13	315	11/11/2013	42167.00588	0.00006529	0.83401	233.21866	268.08747	269.05213	0.05608
METEOSAT-10	13	322	18/11/2013	42168.73479	0.00005672	0.81856	233.27787	212.72862	331.09675	-0.09907
METEOSAT-10	13	329	25/11/2013	42166.51903	0.00000724	0.79922	232.46351	321.14603	230.28022	-0.21286
METEOSAT-10	13	336	02/12/2013	42167.90028	0.00012080	0.78352	232.24848	195.65366	2.79042	-0.31006
METEOSAT-10	13	343	09/12/2013	42165.64270	0.00004698	0.76245	230.93810	285.32890	281.25833	-0.37725
METEOSAT-10	13	350	16/12/2013	42167.11999	0.00004309	0.74401	230.56332	194.62680	19.20960	-0.40258
METEOSAT-10	13	357	23/12/2013	42165.46320	0.00000598	0.72863	229.13294	137.99181	84.18637	-0.39090
METEOSAT-10	13	364	30/12/2013	42166.01804	0.00011170	0.71267	228.50137	191.78850	37.95355	-0.35800
METEOSAT-10	14	6	06/01/2014	42164.71595	0.00003709	0.69815	226.56342	293.42175	305.20889	-0.30661
METEOSAT-10	14	13	13/01/2014	42165.26532	0.00004204	0.68276	225.69933	174.36075	72.13135	-0.20838
METEOSAT-10	14	20	20/01/2014	42164.73301	0.00002276	0.67619	223.84729	183.73196	71.64427	-0.07536
METEOSAT-10	14	27	27/01/2014	42162.83123	0.00008156	0.66520	222.89050	162.92693	160.62608	0.08365
METEOSAT-10	14	34	03/02/2014	42164.06044	0.00003999	0.66001	220.90312	285.49837	346.94933	0.25400
METEOSAT-10	14	41	10/02/2014	42163.30006	0.00005349	0.64950	219.94357	168.97196	111.55478	0.47465
METEOSAT-10	14	48	17/02/2014	42164.00048	0.00004409	0.65012	218.38266	210.81099	78.43263	0.73163
METEOSAT-10	14	55	24/02/2014	42168.21542	0.00003752	0.64154	217.64622	71.75759	224.93854	0.54856
METEOSAT-10	14	62	03/03/2014	42169.41459	0.00013754	0.64150	216.13634	8.22175	296.62862	0.29369
METEOSAT-10	14	69	10/03/2014	42167.60126	0.00009966	0.63087	215.39463	52.89875	259.38699	0.08814
METEOSAT-10	14	76	17/03/2014	42169.08001	0.00008375	0.63215	214.42752	19.63723	300.34631	-0.08057
METEOSAT-10	14	83	24/03/2014	42166.57028	0.00002355	0.62003	213.85766	80.02103	247.29307	-0.21951
METEOSAT-10	14	90	31/03/2014	42168.25810	0.00013511	0.61815	212.88957	5.75016	329.30595	-0.34525
METEOSAT-10	14	97	07/04/2014	42166.08632	0.00008859	0.60356	212.20158	54.60691	287.95606	-0.42605
METEOSAT-10	14	104	14/04/2014	42167.56306	0.00007067	0.60035	211.48446	6.02225	344.11399	-0.46966
METEOSAT-10	14	111	21/04/2014	42165.22386	0.00000935	0.58311	210.74263	21.40868	336.35463	-0.48434
METEOSAT-10	14	118	28/04/2014	42166.69296	0.00013620	0.57667	209.87239	2.60186	2.93498	-0.48088
METEOSAT-10	14	125	05/05/2014	42164.92729	0.00008117	0.55864	208.72420	46.49613	327.13383	-0.43585
METEOSAT-10	14	132	12/05/2014	42165.52864	0.00007037	0.55187	207.79563	345.03118	36.50863	-0.35412
METEOSAT-10	14	139	19/05/2014	42164.20462	0.00003185	0.53235	206.21999	336.87645	53.24980	-0.24310

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	14	146	26/05/2014	42164.80934	0.00014435	0.52426	204.96735	1.77067	36.64243	-0.10845
METEOSAT-10	14	153	02/06/2014	42163.98295	0.00009036	0.50828	202.89133	37.49191	10.07108	0.06583
METEOSAT-10	14	160	09/06/2014	42163.29133	0.00008878	0.50268	201.44334	335.15783	80.96096	0.27432
METEOSAT-10	14	167	16/06/2014	42163.51037	0.00006457	0.48838	198.75488	353.62587	72.32129	0.51479
METEOSAT-10	14	174	23/06/2014	42162.77336	0.00016237	0.48368	197.01117	6.39340	68.46530	0.78339
METEOSAT-10	14	181	30/06/2014	42169.42923	0.00008726	0.47650	194.13663	136.47270	307.97917	0.60269
METEOSAT-10	14	188	07/07/2014	42167.75166	0.00006275	0.47609	192.49104	229.81867	222.93755	0.36229
METEOSAT-10	14	195	14/07/2014	42169.31147	0.00005209	0.47202	189.27283	175.14569	287.52244	0.15663
METEOSAT-10	14	202	21/07/2014	42167.32057	0.00004285	0.47288	187.60874	39.03631	72.01750	-0.02100
METEOSAT-10	14	209	28/07/2014	42168.32221	0.00008250	0.47540	184.86185	125.20916	355.34958	-0.16238
METEOSAT-10	14	216	04/08/2014	42166.32821	0.00003774	0.47888	183.64713	263.56914	224.98508	-0.28089
METEOSAT-10	14	223	11/08/2014	42168.44848	0.00004281	0.48331	180.86471	124.00455	14.14973	-0.36285
METEOSAT-10	14	230	18/08/2014	42165.72043	0.00007835	0.48514	179.72477	49.69128	96.44546	-0.41979
METEOSAT-10	14	237	25/08/2014	42167.04303	0.00009842	0.49237	177.72188	113.55055	41.46812	-0.44043
METEOSAT-10	14	244	01/09/2014	42165.30508	0.00001653	0.49403	177.08517	343.51758	179.03487	-0.44290
METEOSAT-10	14	251	08/09/2014	42166.90227	0.00007874	0.50045	175.03292	92.84199	78.69978	-0.40567
METEOSAT-10	14	258	15/09/2014	42164.44619	0.00011300	0.49779	174.19774	63.35845	115.97974	-0.34411
METEOSAT-10	14	265	22/09/2014	42165.44790	0.00012626	0.50348	172.71543	107.84552	79.97442	-0.24444
METEOSAT-10	14	272	29/09/2014	42164.43597	0.00003558	0.49880	172.07597	63.63025	131.84553	-0.12765
METEOSAT-10	14	279	06/10/2014	42164.68764	0.00012758	0.50305	170.30777	87.71677	116.58608	0.03142
METEOSAT-10	14	286	13/10/2014	42163.49929	0.00013922	0.49481	169.10686	78.48673	134.10271	0.21770
METEOSAT-10	14	293	20/10/2014	42163.50258	0.00015980	0.49772	167.57495	108.50309	112.74570	0.44562
METEOSAT-10	14	300	27/10/2014	42163.51425	0.00006151	0.48861	166.21984	90.65624	139.09354	0.69217
METEOSAT-10	14	307	03/11/2014	42168.65245	0.00005171	0.49243	164.18515	42.97094	195.59395	0.57317
METEOSAT-10	14	314	10/11/2014	42169.02029	0.00004327	0.48363	162.06565	23.57761	223.75992	0.32710
METEOSAT-10	14	321	17/11/2014	42167.80724	0.00004221	0.48853	160.15591	125.10596	130.83531	0.12183
METEOSAT-10	14	328	24/11/2014	42168.78835	0.00006941	0.48233	157.80134	302.26648	322.74346	-0.06322
METEOSAT-10	14	335	01/12/2014	42166.68933	0.00007115	0.48977	155.63830	92.37384	181.54610	-0.21548
METEOSAT-10	14	342	08/12/2014	42168.14648	0.00002212	0.48950	153.05779	82.64618	200.63870	-0.33027
METEOSAT-10	14	349	15/12/2014	42166.09253	0.00006710	0.50108	151.23870	146.58803	145.33643	-0.40905
METEOSAT-10	14	356	22/12/2014	42167.61185	0.00005767	0.50440	148.64961	291.25141	10.10423	-0.46630
METEOSAT-10	14	363	29/12/2014	42165.15879	0.00008626	0.52070	146.99218	115.76930	194.10826	-0.50120

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	15	5	05/01/2015	42166.95956	0.00002696	0.52973	144.58754	146.47022	172.72195	-0.49077
METEOSAT-10	15	12	12/01/2015	42164.81323	0.00007476	0.54612	143.64123	163.39987	163.67949	-0.44943
METEOSAT-10	15	19	19/01/2015	42166.08064	0.00005722	0.55656	141.72379	281.12472	54.83848	-0.38278
METEOSAT-10	15	26	26/01/2015	42164.04630	0.00009171	0.57452	141.01304	132.07192	211.57883	-0.30569
METEOSAT-10	15	33	02/02/2015	42165.36904	0.00004086	0.58758	139.43617	178.33489	173.92362	-0.17474
METEOSAT-10	15	40	09/02/2015	42164.01101	0.00007221	0.59986	139.46352	182.54645	176.73934	-0.01987
METEOSAT-10	15	47	16/02/2015	42164.23267	0.00006964	0.61060	138.15204	267.61836	100.06262	0.16386
METEOSAT-10	15	54	23/02/2015	42163.31516	0.00008707	0.62311	137.93341	142.60453	232.38238	0.35137
METEOSAT-10	15	61	02/03/2015	42168.52472	0.00007524	0.16481	264.65652	193.94222	61.08525	0.21634
METEOSAT-10	15	68	09/03/2015	42168.28538	0.00007280	0.16145	262.35126	201.11952	62.93987	0.04375
METEOSAT-10	15	75	16/03/2015	42167.20552	0.00015188	0.14757	262.36167	192.06455	78.74469	-0.09543
METEOSAT-10	15	82	23/03/2015	42167.61033	0.00006304	0.14215	261.07147	262.02636	16.83449	-0.23328
METEOSAT-10	15	89	30/03/2015	42166.53729	0.00008163	0.12691	261.11856	188.33520	97.29981	-0.31150
METEOSAT-10	15	96	06/04/2015	42167.43439	0.00008986	0.12373	261.33955	209.72194	82.54366	-0.35919
METEOSAT-10	15	103	13/04/2015	42165.32652	0.00015620	0.10749	263.05736	192.07085	105.36255	-0.37306
METEOSAT-10	15	110	20/04/2015	42166.73394	0.00007735	0.10019	264.79574	257.65389	44.93088	-0.38264
METEOSAT-10	15	117	27/04/2015	42164.71545	0.00009338	0.08179	266.88455	181.54920	125.89123	-0.33769
METEOSAT-10	15	124	04/05/2015	42166.24016	0.00010900	0.07515	271.16173	207.30692	102.83393	-0.25944
METEOSAT-10	15	131	11/05/2015	42163.70562	0.00016306	0.05525	277.51347	182.82422	127.97617	-0.14774
METEOSAT-10	15	138	18/05/2015	42165.43214	0.00009293	0.04584	287.94686	234.88304	72.50692	-0.02418
METEOSAT-10	15	145	25/05/2015	42163.23131	0.00009976	0.02733	307.83036	147.30607	147.27110	0.14692
METEOSAT-10	15	152	01/06/2015	42164.50210	0.00012949	0.02520	335.89426	149.02051	124.60000	0.35474
METEOSAT-10	15	159	08/06/2015	42162.40788	0.00016278	0.02787	29.65896	79.72539	147.27042	0.59509
METEOSAT-10	15	166	15/06/2015	42169.68668	0.00006696	0.04116	44.06670	227.20378	352.15947	0.47079
METEOSAT-10	15	173	22/06/2015	42168.10265	0.00007892	0.05827	62.78715	295.38172	271.92406	0.23415
METEOSAT-10	15	180	29/06/2015	42168.40734	0.00001828	0.07180	65.56692	3.42687	207.79966	0.03518
METEOSAT-10	15	187	06/07/2015	42167.49308	0.00004456	0.09254	74.59526	338.54405	230.38897	-0.13383
METEOSAT-10	15	194	13/07/2015	42167.82304	0.00007796	0.10804	75.70782	182.01808	32.55837	-0.27735
METEOSAT-10	15	201	20/07/2015	42167.24107	0.00006502	0.12597	81.68916	257.14927	318.23348	-0.38932
METEOSAT-10	15	208	27/07/2015	42166.38870	0.00002320	0.13799	82.32121	74.71991	146.85321	-0.46637
METEOSAT-10	15	215	03/08/2015	42166.99989	0.00001103	0.15678	86.84199	243.11061	340.79189	-0.51582
METEOSAT-10	15	222	10/08/2015	42165.99521	0.00010440	0.17000	86.78535	163.51174	67.32590	-0.53672

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	15	229	17/08/2015	42166.41768	0.00007273	0.18356	90.25527	220.97797	13.29528	-0.53068
METEOSAT-10	15	236	24/08/2015	42164.69152	0.00004637	0.19258	90.00517	110.70229	130.75945	-0.49167
METEOSAT-10	15	243	31/08/2015	42166.53834	0.00005919	0.20681	92.64523	181.27173	64.51714	-0.42397
METEOSAT-10	15	250	07/09/2015	42164.23119	0.00014119	0.21780	91.63787	158.43073	95.36309	-0.32574
METEOSAT-10	15	257	14/09/2015	42165.34868	0.00010011	0.22656	93.43247	201.86348	57.16035	-0.20049
METEOSAT-10	15	264	21/09/2015	42163.35979	0.00007395	0.23398	92.07094	134.06937	133.37286	-0.04293
METEOSAT-10	15	271	28/09/2015	42165.43995	0.00011473	0.24461	93.19999	179.11050	94.29189	0.14694
METEOSAT-10	15	278	05/10/2015	42162.58764	0.00017835	0.25645	91.22746	162.85593	119.64060	0.36922
METEOSAT-10	15	285	12/10/2015	42163.84912	0.00013455	0.26355	91.57561	197.58793	91.71330	0.62282
METEOSAT-10	15	292	19/10/2015	42162.24156	0.00010168	0.27422	89.41798	154.98655	143.65827	0.90946
METEOSAT-10	15	299	26/10/2015	42170.13009	0.00005729	0.28524	89.46871	115.18725	190.10993	0.71323
METEOSAT-10	15	306	02/11/2015	42167.95691	0.00010968	0.30276	87.35344	125.13631	188.92535	0.46301
METEOSAT-10	15	313	09/11/2015	42168.74744	0.00001622	0.31277	87.09177	166.38367	154.62376	0.24776
METEOSAT-10	15	320	16/11/2015	42167.96344	0.00008790	0.33090	85.27194	79.03540	250.50675	0.06313
METEOSAT-10	15	327	23/11/2015	42167.75698	0.00008491	0.34525	85.32415	157.59800	178.63996	-0.08831
METEOSAT-10	15	334	30/11/2015	42167.00500	0.00010167	0.36915	84.19854	146.54275	197.60341	-0.20540
METEOSAT-10	15	341	07/12/2015	42166.80292	0.00004736	0.38287	84.24239	203.46078	147.45832	-0.28815
METEOSAT-10	15	348	14/12/2015	42167.04782	0.00006255	0.40648	83.59728	90.75400	267.65463	-0.34349
METEOSAT-10	15	355	21/12/2015	42165.60820	0.00011173	0.42238	84.10235	178.99173	185.78298	-0.37199
METEOSAT-10	15	362	28/12/2015	42166.35176	0.00008622	0.44840	84.09129	163.29126	208.40452	-0.36184
METEOSAT-10	16	4	04/01/2016	42164.93724	0.00007129	0.46162	84.69462	216.92056	161.11374	-0.31965
METEOSAT-10	16	11	11/01/2016	42166.10519	0.00004140	0.48552	84.93398	91.10459	293.65855	-0.25130
METEOSAT-10	16	18	18/01/2016	42163.85971	0.00012599	0.49855	85.70240	191.61992	199.36283	-0.16290
METEOSAT-10	16	25	25/01/2016	42165.55121	0.00006811	0.52125	86.29518	178.21280	219.21104	-0.02882
METEOSAT-10	16	32	01/02/2016	42163.34845	0.00008240	0.53008	86.96937	226.42800	177.38588	0.13596
METEOSAT-10	16	39	08/02/2016	42164.84580	0.00002559	0.54975	87.47478	73.15757	337.24386	0.32929
METEOSAT-10	16	46	15/02/2016	42162.45474	0.00012850	0.55819	87.98715	199.67658	217.31807	0.53562
METEOSAT-10	16	53	22/02/2016	42164.20272	0.00005504	0.57541	88.58466	197.68451	225.87403	0.79762
METEOSAT-10	16	60	29/02/2016	42168.39298	0.00018150	0.57943	88.80457	179.81410	250.23512	0.60914
METEOSAT-10	16	67	07/03/2016	42169.36567	0.00014020	0.59501	89.09395	147.80479	288.61492	0.36979
METEOSAT-10	16	74	14/03/2016	42167.60277	0.00024866	0.60062	88.97691	176.77319	266.43020	0.13747
METEOSAT-10	16	81	21/03/2016	42168.66643	0.00017573	0.61469	89.23772	169.60991	280.06021	-0.03407

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METEOSAT-10	16	88	28/03/2016	42167.43926	0.00017153	0.61770	88.78986	177.79813	279.07732	-0.17549
METEOSAT-10	16	95	04/04/2016	42167.32409	0.00012972	0.63257	88.74909	151.14701	312.56033	-0.28342
METEOSAT-10	16	102	11/04/2016	42166.74610	0.00024529	0.64013	87.99741	177.17355	294.07946	-0.38833
METEOSAT-10	16	109	18/04/2016	42166.63607	0.00015850	0.65491	87.98557	174.15208	303.96712	-0.43308
METEOSAT-10	16	116	25/04/2016	42166.62047	0.00016844	0.66232	87.10533	174.52317	311.36195	-0.44647
METEOSAT-10	16	123	02/05/2016	42165.26301	0.00012402	0.67980	86.97665	153.15827	339.77482	-0.42649
METEOSAT-10	16	130	09/05/2016	42165.98431	0.00024737	0.69337	86.05357	176.72849	324.05195	-0.40162
METEOSAT-10	16	137	16/05/2016	42164.59939	0.00014213	0.71115	86.10857	176.50710	331.19770	-0.32182
METEOSAT-10	16	144	23/05/2016	42165.66523	0.00017399	0.72496	85.28867	170.92810	344.61082	-0.20732
METEOSAT-10	16	151	30/05/2016	42163.39604	0.00012858	0.74509	85.44581	152.44465	9.98350	-0.06086
METEOSAT-10	16	158	06/06/2016	42164.60466	0.00026292	0.76264	84.71254	176.85146	353.39497	0.12410
METEOSAT-10	16	165	13/06/2016	42162.42485	0.00014293	0.78172	85.08792	177.23590	359.77478	0.36360
METEOSAT-10	16	172	20/06/2016	42163.93312	0.00019129	0.79944	84.63868	169.11221	15.52856	0.64419
METEOSAT-10	16	179	27/06/2016	42167.12182	0.00014639	0.52240	5.01706	181.07962	90.00317	0.56552
METEOSAT-10	16	186	04/07/2016	42168.83316	0.00019375	0.52837	7.02402	225.82112	49.97647	0.38791
METEOSAT-10	16	193	11/07/2016	42166.71271	0.00010387	0.52131	8.91168	191.06614	89.60078	0.24556
METEOSAT-10	16	200	18/07/2016	42167.83279	0.00016307	0.52564	10.62138	198.19495	87.56358	0.14754
METEOSAT-10	16	207	25/07/2016	42166.02472	0.00016570	0.51779	12.48798	183.52361	107.19470	0.07457
METEOSAT-10	16	214	01/08/2016	42167.13152	0.00021331	0.52225	14.36599	218.22651	77.46725	0.02862
METEOSAT-10	16	221	08/08/2016	42165.76709	0.00012192	0.51430	15.81770	193.45432	107.66610	0.00765
METEOSAT-10	16	228	15/08/2016	42165.82633	0.00019220	0.51794	17.28356	193.19459	113.38446	0.03274
METEOSAT-10	16	235	22/08/2016	42165.34502	0.00018381	0.51038	18.64079	190.47611	121.69266	0.08028
METEOSAT-10	16	242	29/08/2016	42165.25614	0.00023948	0.51552	20.21029	214.15497	103.42435	0.16085
METEOSAT-10	16	249	05/09/2016	42164.94903	0.00014140	0.50975	21.04272	200.45398	123.29330	0.26183
METEOSAT-10	16	256	12/09/2016	42163.78329	0.00022242	0.51545	22.16368	192.82338	136.85069	0.41006
METEOSAT-10	16	263	19/09/2016	42164.82881	0.00019960	0.51185	22.95235	200.63322	135.32343	0.58182
METEOSAT-10	16	270	26/09/2016	42163.26256	0.00026806	0.52034	24.28426	213.93226	127.80192	0.79163
METEOSAT-10	16	277	03/10/2016	42169.58278	0.00003655	0.52027	24.62633	170.09105	177.99505	0.58611
METEOSAT-10	16	284	10/10/2016	42167.66288	0.00012998	0.53037	25.60322	174.76601	179.01336	0.35661
METEOSAT-10	16	291	17/10/2016	42169.65228	0.00008546	0.53316	26.10779	202.23643	157.73387	0.15253
METEOSAT-10	16	298	24/10/2016	42167.05016	0.00016093	0.54623	27.51023	217.63780	147.66400	-0.01328
METEOSAT-10	16	305	31/10/2016	42168.27184	0.00004774	0.55254	27.79502	218.98973	152.78446	-0.15572

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	16	312	07/11/2016	42166.30402	0.00013266	0.56677	29.00267	189.62875	187.73763	-0.25574
METEOSAT-10	16	319	14/11/2016	42168.19266	0.00011165	0.57512	29.63283	227.68437	155.87719	-0.33003
METEOSAT-10	16	326	21/11/2016	42165.44517	0.00018133	0.59055	31.35475	225.82160	162.87925	-0.36867
METEOSAT-10	16	333	28/11/2016	42166.72417	0.00007252	0.60065	31.92524	243.33627	151.68229	-0.38008
METEOSAT-10	16	340	05/12/2016	42165.26990	0.00013000	0.61536	33.50745	202.11385	198.24783	-0.35452
METEOSAT-10	16	347	12/12/2016	42166.08896	0.00014736	0.62531	34.40283	239.99273	166.42465	-0.30297
METEOSAT-10	16	354	19/12/2016	42164.26902	0.00018664	0.63920	36.38250	232.14958	179.27409	-0.21670
METEOSAT-10	16	361	26/12/2016	42164.94124	0.00009711	0.64890	37.21486	256.22143	161.38675	-0.09921
METEOSAT-10	17	2	02/01/2017	42164.40306	0.00012086	0.65984	38.98941	210.54081	212.34566	0.04989
METEOSAT-10	17	9	09/01/2017	42163.79857	0.00017527	0.66797	39.95709	246.72948	182.26364	0.22502
METEOSAT-10	17	16	16/01/2017	42163.54511	0.00017097	0.67588	41.82496	236.04349	198.19305	0.43694
METEOSAT-10	17	23	23/01/2017	42162.99236	0.00011488	0.68361	42.66451	264.88937	175.65434	0.68460
METEOSAT-10	17	30	30/01/2017	42169.44607	0.00014476	0.69006	44.33248	149.25594	296.33727	0.50286
METEOSAT-10	17	37	06/02/2017	42167.69357	0.00010334	0.69630	45.03930	204.55320	247.00143	0.27211
METEOSAT-10	17	44	13/02/2017	42168.83058	0.00010317	0.70049	46.60825	175.76256	280.93256	0.08241
METEOSAT-10	17	51	20/02/2017	42167.10760	0.00002960	0.70581	47.02139	154.56519	308.46058	-0.07270
METEOSAT-10	17	58	27/02/2017	42168.39711	0.00012800	0.70943	48.28142	140.20933	328.32472	-0.20349
METEOSAT-10	17	65	06/03/2017	42166.06257	0.00008150	0.71668	48.56170	213.08188	261.96091	-0.31343
METEOSAT-10	17	72	13/03/2017	42167.90707	0.00007640	0.71967	49.58022	160.89063	319.96767	-0.37853
METEOSAT-10	17	79	20/03/2017	42165.60599	0.00001690	0.72747	49.57681	117.89054	9.83876	-0.41003
METEOSAT-10	17	86	27/03/2017	42167.02588	0.00011850	0.73220	50.37042	132.10146	1.72651	-0.41706
METEOSAT-10	17	93	03/04/2017	42164.74142	0.00006420	0.74461	50.35079	218.79088	281.96551	-0.40767
METEOSAT-10	17	100	10/04/2017	42166.43165	0.00006050	0.75005	50.95445	141.40757	5.70390	-0.34844
METEOSAT-10	17	107	17/04/2017	42164.44587	0.00002430	0.76356	50.81135	90.88272	63.36484	-0.25511
METEOSAT-10	17	114	24/04/2017	42165.17159	0.00011210	0.77170	51.36484	124.25613	36.45769	-0.13515
METEOSAT-10	17	121	01/05/2017	42163.68543	0.00005250	0.79059	51.41161	216.60756	311.09385	-0.00076
METEOSAT-10	17	128	08/05/2017	42164.44839	0.00005780	0.79947	51.91074	115.85861	58.43030	0.18586
METEOSAT-10	17	135	15/05/2017	42163.21618	0.00003470	0.81715	51.88848	109.73581	71.72264	0.43295
METEOSAT-10	17	142	22/05/2017	42162.68217	0.00011030	0.82765	52.55139	119.87400	68.10091	0.71217
METEOSAT-10	17	149	29/05/2017	42168.52840	0.00009720	0.89430	349.68860	143.83134	113.71636	0.52193
METEOSAT-10	17	156	05/06/2017	42167.98586	0.00019610	0.88857	350.46743	136.92597	126.54626	0.32656
METEOSAT-10	17	163	12/06/2017	42168.29326	0.00017210	0.89109	351.70195	136.86780	132.11347	0.17119

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	17	170	19/06/2017	42166.62451	0.00022900	0.88294	352.55351	147.10344	127.79757	0.04368
METEOSAT-10	17	177	26/06/2017	42167.68204	0.00010010	0.88310	354.06695	147.44615	132.72830	-0.06849
METEOSAT-10	17	184	03/07/2017	42166.03563	0.00021290	0.87503	354.83802	133.89693	152.33405	-0.13976
METEOSAT-10	17	191	10/07/2017	42167.29508	0.00017240	0.87325	356.12293	139.55939	152.25743	-0.16813
METEOSAT-10	17	198	17/07/2017	42164.93927	0.00022990	0.86303	356.84532	146.77972	151.20962	-0.17230
METEOSAT-10	17	205	24/07/2017	42166.68796	0.00010040	0.85956	358.30607	153.63674	149.80702	-0.15651
METEOSAT-10	17	212	31/07/2017	42164.47354	0.00021790	0.85060	358.88117	133.70577	176.10837	-0.11032
METEOSAT-10	17	219	07/08/2017	42166.00002	0.00017090	0.84613	0.04284	144.13281	171.51348	-0.01607
METEOSAT-10	17	226	14/08/2017	42163.67107	0.00021930	0.83673	0.49555	149.58237	172.62659	0.09977
METEOSAT-10	17	233	21/08/2017	42165.28730	0.00010110	0.83207	1.76245	161.87087	166.11440	0.24315
METEOSAT-10	17	240	28/08/2017	42163.30824	0.00020680	0.82592	2.06505	135.34409	199.40425	0.40906
METEOSAT-10	17	247	04/09/2017	42164.19638	0.00017020	0.82208	3.03559	151.39972	189.49799	0.62898
METEOSAT-10	17	254	11/09/2017	42162.72948	0.00019590	0.81746	3.24216	154.19672	193.63567	0.87029
METEOSAT-10	17	261	18/09/2017	42169.75457	0.00011220	0.81484	4.33142	260.94708	92.57038	0.74456
METEOSAT-10	17	268	25/09/2017	42168.65178	0.00005200	0.81496	4.48053	180.30320	179.69483	0.47430
METEOSAT-10	17	275	02/10/2017	42168.36989	0.00010440	0.81450	5.37016	222.05124	143.74279	0.25985
METEOSAT-10	17	282	09/10/2017	42168.28204	0.00009910	0.81716	5.56526	222.99888	149.30554	0.06537
METEOSAT-10	17	289	16/10/2017	42167.77318	0.00013610	0.81795	6.67227	262.17758	115.76314	-0.09133
METEOSAT-10	17	296	23/10/2017	42167.72209	0.00004430	0.82499	6.94217	216.46668	167.96562	-0.22972
METEOSAT-10	17	303	30/10/2017	42166.34368	0.00013070	0.82777	7.96673	232.15299	158.06800	-0.31635
METEOSAT-10	17	310	06/11/2017	42167.63269	0.00010290	0.83641	8.43754	245.42040	151.16266	-0.38318
METEOSAT-10	17	317	13/11/2017	42165.82044	0.00016260	0.83875	9.74365	266.53359	135.61404	-0.41221
METEOSAT-10	17	324	20/11/2017	42166.66659	0.00005180	0.84941	10.35029	255.83883	152.59405	-0.41982
METEOSAT-10	17	331	27/11/2017	42164.69553	0.00014810	0.85214	11.60790	242.20709	171.90559	-0.38188
METEOSAT-10	17	338	04/12/2017	42166.69219	0.00011470	0.86240	12.42609	265.36502	154.88912	-0.32149
METEOSAT-10	17	345	11/12/2017	42164.01784	0.00018280	0.86255	13.93160	272.19282	153.55016	-0.22640
METEOSAT-10	17	352	18/12/2017	42165.35084	0.00006860	0.87232	14.82759	281.13358	150.73596	-0.10289
METEOSAT-10	17	359	25/12/2017	42163.47136	0.00015180	0.87129	16.20133	251.20571	186.35017	0.05815
METEOSAT-10	18	1	01/01/2018	42165.05002	0.00013550	0.87934	17.20475	279.68440	163.95483	0.24605
METEOSAT-10	18	8	08/01/2018	42162.52225	0.00018920	0.87510	18.68982	278.48116	170.79219	0.46628
METEOSAT-10	18	15	15/01/2018	42163.71341	0.00008660	0.88157	19.65397	298.58894	156.87483	0.72204
METEOSAT-10	18	22	22/01/2018	42165.51615	0.00017990	0.87597	20.88711	237.28651	223.89880	0.77781

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	18	29	29/01/2018	42165.83256	0.00015880	0.88138	21.82422	264.04117	203.15317	0.82509
METEOSAT-10	18	36	05/02/2018	42164.49476	0.00018040	0.87411	23.01194	262.82462	210.16018	0.90425
METEOSAT-10	18	43	12/02/2018	42131.46674	0.00003940	0.87901	23.81727	163.11860	317.58579	2.53025
METEOSAT-10	18	50	19/02/2018	42131.30478	0.00012220	0.87181	24.68062	195.97122	293.91874	5.68004
METEOSAT-10	18	57	26/02/2018	42129.66920	0.00006870	0.87766	25.39558	252.53126	246.73931	8.87622
METEOSAT-10	18	64	05/03/2018	42168.87610	0.00005960	0.87154	26.13202	216.90442	289.05760	9.40448
METEOSAT-10	18	71	12/03/2018	42167.15226	0.00002640	0.87856	26.70441	92.88489	59.24754	9.24756
METEOSAT-10	18	78	19/03/2018	42167.68047	0.00009980	0.87442	27.20106	179.73712	338.70686	9.15585
METEOSAT-10	18	85	26/03/2018	42165.16143	0.00003730	0.88443	27.78985	282.51384	242.20664	9.12113
METEOSAT-10	18	92	02/04/2018	42166.68889	0.00003890	0.88339	28.17875	170.34492	0.91072	9.14514
METEOSAT-10	18	99	09/04/2018	42164.13683	0.00005290	0.89491	28.69544	70.93935	106.78957	9.23491
METEOSAT-10	18	106	16/04/2018	42165.24308	0.00008810	0.89623	29.03143	165.49314	18.93164	9.36660
METEOSAT-10	18	113	23/04/2018	42162.64222	0.00002840	0.91105	29.73369	333.89587	216.91362	9.55324
METEOSAT-10	18	120	30/04/2018	42164.12980	0.00004970	0.91575	30.05102	122.49430	75.14810	9.80334
METEOSAT-10	18	127	07/05/2018	42167.83377	0.00017330	0.93067	30.74256	13.92675	189.86962	9.74861
METEOSAT-10	18	134	14/05/2018	42168.48150	0.00007230	0.93611	31.16035	15.50313	194.58367	9.55691
METEOSAT-10	18	141	21/05/2018	42166.52603	0.00017490	0.95304	32.14550	353.13368	222.72773	9.41655
METEOSAT-10	18	148	28/05/2018	42167.25742	0.00013240	0.96073	32.59152	19.54727	202.69259	9.34134
METEOSAT-10	18	155	04/06/2018	42165.46864	0.00016330	0.97462	33.47658	15.79911	212.46567	9.35157
METEOSAT-10	18	162	11/06/2018	42165.07069	0.00007790	0.98081	34.03040	25.98274	208.68952	9.41356
METEOSAT-10	18	169	18/06/2018	42164.30335	0.00016520	0.99574	35.26758	352.92104	247.52279	9.52284
METEOSAT-10	18	176	25/06/2018	42163.82893	0.00013630	1.00311	35.82756	26.92740	220.02901	9.69647
METEOSAT-10	18	183	02/07/2018	42168.29449	0.00023200	1.10615	346.44445	89.10840	214.03157	9.60530
METEOSAT-10	18	190	09/07/2018	42166.64576	0.00018640	1.09880	346.90645	105.37687	204.06439	9.46939
METEOSAT-10	18	197	16/07/2018	42167.18856	0.00020890	1.08606	348.07011	72.24216	242.84400	9.37822
METEOSAT-10	18	204	23/07/2018	42165.53924	0.00023700	1.08009	348.55827	99.60226	221.86389	9.34672
METEOSAT-10	18	211	30/07/2018	42166.35331	0.00021400	1.06739	349.41613	88.79063	238.75608	9.38512
METEOSAT-10	18	218	06/08/2018	42163.86215	0.00018230	1.06033	349.73915	106.62580	227.58307	9.47024
METEOSAT-10	18	225	13/08/2018	42165.24770	0.00019580	1.04583	350.70229	69.94956	270.32776	9.60139
METEOSAT-10	18	232	20/08/2018	42162.82195	0.00023200	1.04156	351.06815	101.29746	245.69993	9.78695
METEOSAT-10	18	239	27/08/2018	42169.73015	0.00007920	1.02901	351.69714	53.72230	299.44556	9.68590
METEOSAT-10	18	246	03/09/2018	42167.10498	0.00003250	1.02599	351.90858	97.85471	261.80129	9.48509

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	18	253	10/09/2018	42168.51879	0.00011580	1.01360	352.64586	20.01270	345.65528	9.33388
METEOSAT-10	18	260	17/09/2018	42166.10746	0.00008680	1.01432	352.97790	91.36463	280.76918	9.23143
METEOSAT-10	18	267	24/09/2018	42166.99857	0.00005840	1.00527	353.47046	39.69667	338.81912	9.20570
METEOSAT-10	18	274	01/10/2018	42165.02055	0.00001910	1.00857	353.74532	60.41885	324.74223	9.22574
METEOSAT-10	18	281	08/10/2018	42165.68851	0.00011070	1.00045	354.41145	11.29687	20.17115	9.29885
METEOSAT-10	18	288	15/10/2018	42164.02209	0.00007500	1.00695	354.90623	81.25542	316.73788	9.41911
METEOSAT-10	18	295	22/10/2018	42167.80880	0.00010800	1.00201	355.45642	304.83958	99.43746	9.35351
METEOSAT-10	18	302	29/10/2018	42167.08557	0.00010060	1.01036	356.04015	297.49404	112.98596	9.24076
METEOSAT-10	18	309	05/11/2018	42166.54896	0.00015940	1.00527	356.81902	324.05200	92.49123	9.18368
METEOSAT-10	18	316	12/11/2018	42165.99816	0.00005730	1.01456	357.63976	326.83422	95.77898	9.17527
METEOSAT-10	18	323	19/11/2018	42164.62215	0.00014290	1.01077	358.37942	300.22113	128.61410	9.23814
METEOSAT-10	18	330	26/11/2018	42165.28804	0.00012010	1.01990	359.35011	307.11213	127.76344	9.35037
METEOSAT-10	18	337	03/12/2018	42163.44707	0.00018280	1.01429	0.27289	321.69165	119.32749	9.51807
METEOSAT-10	18	344	10/12/2018	42163.92944	0.00008430	1.02167	1.39406	332.73965	114.27834	9.73942
METEOSAT-10	18	351	17/12/2018	42167.53366	0.00014660	1.01534	2.24839	251.58159	201.32373	9.58246
METEOSAT-10	18	358	24/12/2018	42169.10919	0.00009130	1.02114	3.47532	247.63133	210.76575	9.40237
METEOSAT-10	18	365	31/12/2018	42166.33267	0.00011280	1.01245	4.41312	284.99380	179.23694	9.27513
METEOSAT-10	19	7	07/01/2019	42167.40024	0.00004000	1.01504	5.63191	217.16421	252.67827	9.20676
METEOSAT-10	19	14	14/01/2019	42165.20922	0.00013380	1.00545	6.39806	259.99929	215.95954	9.19037
METEOSAT-10	19	21	21/01/2019	42166.70754	0.00006760	1.00698	7.64103	269.93639	211.71985	9.23159
METEOSAT-10	19	28	28/01/2019	42163.81399	0.00010410	0.99637	8.38081	300.57990	187.32501	9.32085
METEOSAT-10	19	35	04/02/2019	42164.87288	0.00000530	0.99545	9.48619	258.50607	235.34684	9.47474
METEOSAT-10	19	42	11/02/2019	42167.56082	0.00003020	0.98553	9.96176	195.72517	304.47335	9.39638
METEOSAT-10	19	49	18/02/2019	42167.99685	0.00005540	0.98562	11.03838	75.41681	70.47782	9.26930
METEOSAT-10	19	56	25/02/2019	42166.01920	0.00006270	0.97749	11.46576	45.10852	107.17620	9.18693
METEOSAT-10	19	63	04/03/2019	42166.42886	0.00012260	0.97696	12.37816	88.10652	70.15256	9.17359
METEOSAT-10	19	70	11/03/2019	42165.66442	0.00002770	0.97149	12.55064	114.23000	50.78092	9.19781
METEOSAT-10	19	77	18/03/2019	42164.70275	0.00009890	0.97382	13.48185	58.01517	113.05656	9.28951
METEOSAT-10	19	84	25/03/2019	42164.25482	0.00009650	0.97255	13.68786	60.74277	117.15975	9.42605
METEOSAT-10	19	91	01/04/2019	42163.44479	0.00015780	0.97527	14.52212	79.45308	104.72439	9.63484
METEOSAT-10	19	98	08/04/2019	42169.06573	0.00008200	0.97706	14.60201	227.01896	323.87511	9.53108
METEOSAT-10	19	105	15/04/2019	42166.96503	0.00002350	0.98264	15.56511	10.72398	185.93495	9.35873

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METEOSAT-10	19	112	22/04/2019	42167.89534	0.00001620	0.98868	15.80271	161.21312	41.98397	9.23437
METEOSAT-10	19	119	29/04/2019	42165.90746	0.00007540	0.99412	16.73917	99.65308	109.45517	9.18185
METEOSAT-10	19	126	06/05/2019	42166.79875	0.00006400	1.00171	16.97526	204.20412	11.55308	9.16703
METEOSAT-10	19	133	13/05/2019	42164.16366	0.00005410	1.00831	18.12356	57.26079	164.29894	9.21799
METEOSAT-10	19	140	20/05/2019	42165.74290	0.00005030	1.01874	18.56989	125.52226	102.59361	9.32090
METEOSAT-10	19	147	27/05/2019	42163.16922	0.00010530	1.02367	19.66935	96.67406	137.41394	9.49303
METEOSAT-10	19	154	03/06/2019	42168.75106	0.00014080	1.03318	20.14642	223.35963	17.07335	9.41596
METEOSAT-10	19	161	10/06/2019	42166.27109	0.00002660	1.03730	21.45909	240.92245	4.96304	9.28195
METEOSAT-10	19	168	17/06/2019	42167.62797	0.00008480	1.04805	22.11203	199.02593	53.02901	9.20550
METEOSAT-10	19	175	24/06/2019	42165.40371	0.00006450	1.04938	23.28052	161.19979	96.57427	9.19429
METEOSAT-10	19	182	01/07/2019	42165.79652	0.00013950	1.05740	23.86028	209.04486	55.08887	9.23521
METEOSAT-10	19	189	08/07/2019	42164.14371	0.00002880	1.05702	25.20186	188.25720	81.52378	9.32531
METEOSAT-10	19	196	15/07/2019	42164.58811	0.00010020	1.06586	25.93018	179.60557	96.49845	9.47821
METEOSAT-10	19	203	22/07/2019	42163.42504	0.00008350	1.06236	26.97238	164.59901	117.57710	9.69389
METEOSAT-10	19	210	29/07/2019	42167.77340	0.00013020	1.16667	341.14019	192.22801	142.63071	9.64736
METEOSAT-10	19	217	05/08/2019	42167.40196	0.00011600	1.14613	341.70074	139.85490	201.19290	9.49634
METEOSAT-10	19	224	12/08/2019	42166.60355	0.00015860	1.14034	342.37329	168.88856	178.30259	9.41163
METEOSAT-10	19	231	19/08/2019	42166.68730	0.00013780	1.12364	342.62487	161.99776	191.82021	9.38929
METEOSAT-10	19	238	26/08/2019	42164.80367	0.00014990	1.12018	343.10510	193.16379	167.10473	9.41937
METEOSAT-10	19	245	02/09/2019	42165.62212	0.00011140	1.10217	343.46720	142.90216	223.97124	9.48567
METEOSAT-10	19	252	09/09/2019	42163.68143	0.00017310	1.09856	344.08135	172.56091	200.73335	9.62009
METEOSAT-10	19	259	16/09/2019	42164.67278	0.00012630	1.08690	344.17337	168.83025	211.47101	9.81872
METEOSAT-10	19	266	23/09/2019	42167.41672	0.00019120	1.08723	344.69303	236.35345	150.23676	9.72711
METEOSAT-10	19	273	30/09/2019	42168.84278	0.00007060	1.07563	344.97221	235.51060	157.51176	9.53856
METEOSAT-10	19	280	07/10/2019	42166.31226	0.00016840	1.07601	345.72917	218.94100	180.10315	9.41747
METEOSAT-10	19	287	14/10/2019	42167.51736	0.00013240	1.07066	345.87077	238.40418	167.34167	9.36136
METEOSAT-10	19	294	21/10/2019	42165.02212	0.00019460	1.07416	346.65232	238.62647	173.23681	9.36096
METEOSAT-10	19	301	28/10/2019	42166.23120	0.00008000	1.06842	347.03743	243.36115	175.05579	9.40076
METEOSAT-10	19	308	04/11/2019	42163.93017	0.00016790	1.07015	348.08389	221.93973	202.43443	9.50542
METEOSAT-10	19	315	11/11/2019	42164.53221	0.00014570	1.06785	348.45096	247.23246	183.84323	9.67525
METEOSAT-10	19	322	18/11/2019	42168.04866	0.00022820	1.07047	349.55879	208.97998	227.78414	9.57269
METEOSAT-10	19	329	25/11/2019	42168.35333	0.00013810	1.06563	350.17329	190.89349	251.96324	9.38133

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	19	336	02/12/2019	42166.97781	0.00022510	1.06608	351.46589	192.49897	255.83541	9.25282
METEOSAT-10	19	343	09/12/2019	42166.50081	0.00017220	1.06245	352.04137	211.87145	242.71838	9.18536
METEOSAT-10	19	350	16/12/2019	42166.16794	0.00020180	1.06129	353.39181	205.79259	254.33560	9.17534
METEOSAT-10	19	354	20/12/2019	42164.54300	0.00015520	1.05381	353.79975	219.33743	244.34090	9.19137
METEOSAT-10	19	364	30/12/2019	42165.05070	0.00020120	1.05005	355.47700	185.91730	286.05631	9.30837
METEOSAT-10	20	6	06/01/2020	42163.46101	0.00014910	1.04382	356.07634	214.54874	263.87659	9.46059
METEOSAT-10	20	13	13/01/2020	42164.46186	0.00017230	1.03700	357.44801	196.33869	287.82670	9.67298
METEOSAT-10	20	20	20/01/2020	42166.80462	0.00001030	1.03005	358.08987	344.28476	146.09596	9.63092
METEOSAT-10	20	27	27/01/2020	42167.51513	0.00007410	1.02005	359.30855	172.66899	323.30834	9.54651
METEOSAT-10	20	34	03/02/2020	42165.35548	0.00006580	1.01331	359.72306	273.17985	229.24614	9.51011
METEOSAT-10	20	41	10/02/2020	42167.02187	0.00004280	1.00390	0.91768	191.56960	316.58967	9.53800
METEOSAT-10	20	48	17/02/2020	42164.07867	0.00004020	0.99943	1.38861	45.06118	109.60021	9.61107
METEOSAT-10	20	55	24/02/2020	42165.17719	0.00007340	0.98835	2.31573	140.17642	20.59584	9.74880
METEOSAT-10	20	62	02/03/2020	42167.99719	0.00014210	0.98630	2.53062	261.53742	265.79168	9.62034
METEOSAT-10	20	69	09/03/2020	42169.26134	0.00008910	0.97823	3.52817	229.28591	303.75977	9.43410
METEOSAT-10	20	76	16/03/2020	42166.49510	0.00004070	0.98002	3.88298	268.46393	270.98473	9.29160
METEOSAT-10	20	83	23/03/2020	42167.38821	0.00008690	0.97257	4.59695	195.29974	350.25989	9.21619
METEOSAT-10	20	90	30/03/2020	42165.96792	0.00010320	0.97744	4.79303	255.03796	297.19255	9.18287
METEOSAT-10	20	97	06/04/2020	42165.99564	0.00004620	0.97302	5.67834	196.19579	2.08659	9.21978
METEOSAT-10	20	104	13/04/2020	42164.37901	0.00001110	0.98131	6.20579	182.84244	21.89317	9.30031
METEOSAT-10	20	111	20/04/2020	42167.66148	0.00001500	0.97873	6.99247	107.85440	102.94993	9.25574
METEOSAT-10	20	118	27/04/2020	42167.13713	0.00007440	0.98897	7.36937	298.00283	279.22883	9.16011
METEOSAT-10	20	125	04/05/2020	42165.77274	0.00005390	0.98654	8.34410	46.20786	176.92103	9.13238
METEOSAT-10	20	132	11/05/2020	42165.71228	0.00004970	0.99960	9.15393	28.87781	200.35946	9.15099
METEOSAT-10	20	139	18/05/2020	42164.62077	0.00005590	0.99763	10.03273	103.00537	132.33818	9.23677
METEOSAT-10	20	146	25/05/2020	42165.00945	0.00003870	1.00981	10.75800	291.12156	310.52824	9.36910
METEOSAT-10	20	153	01/06/2020	42166.64669	0.00011130	1.00640	11.85798	16.49128	230.89681	9.30834
METEOSAT-10	20	160	08/06/2020	42167.82729	0.00009500	1.01916	12.92581	352.71582	260.39253	9.19741
METEOSAT-10	20	167	15/06/2020	42165.67681	0.00005610	1.01567	13.85732	29.73811	229.28984	9.14981
METEOSAT-10	20	174	22/06/2020	42166.68350	0.00009770	1.02598	14.84417	311.56415	313.37834	9.15243
METEOSAT-10	20	181	29/06/2020	42163.97591	0.00010020	1.01955	15.90105	33.22308	237.62001	9.21124
METEOSAT-10	20	188	06/07/2020	42165.58103	0.00006400	1.02940	17.11839	354.79306	281.85275	9.33256

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-10	20	195	13/07/2020	42163.05547	0.00004520	1.02259	17.95642	52.25144	230.63430	9.51191
METEOSAT-10	20	202	20/07/2020	42164.02899	0.00007320	1.02988	19.02777	297.84998	351.09803	9.74673
METEOSAT-10	20	209	27/07/2020	42167.26107	0.00019650	1.38170	342.68340	112.87976	219.25794	9.69656
METEOSAT-10	20	216	03/08/2020	42168.39048	0.00013150	1.37244	343.48516	118.11527	219.97263	9.54765
METEOSAT-10	20	223	10/08/2020	42166.40955	0.00015770	1.35815	343.58967	128.09350	216.69620	9.45291
METEOSAT-10	20	230	17/08/2020	42166.61608	0.00006910	1.35069	344.25412	133.49917	217.49202	9.41763
METEOSAT-10	20	237	24/08/2020	42165.35410	0.00019010	1.33670	344.40056	117.53164	240.20837	9.41162
METEOSAT-10	20	244	31/08/2020	42165.43227	0.00013180	1.32660	345.08558	129.90531	234.12446	9.48510
METEOSAT-10	20	251	07/09/2020	42164.59260	0.00013980	1.31779	345.05541	130.66497	240.42118	9.61018
METEOSAT-10	20	258	14/09/2020	42163.54204	0.00007500	1.31210	345.67565	152.00349	225.55226	9.79899
METEOSAT-10	20	265	21/09/2020	42169.02458	0.00005580	1.30432	345.75506	132.92855	251.30789	9.65850
METEOSAT-10	20	272	28/09/2020	42167.82415	0.00006250	1.29754	346.43882	217.14482	173.11409	9.46432
METEOSAT-10	20	279	05/10/2020	42168.15194	0.00003930	1.29617	346.45731	225.05398	171.94383	9.32174
METEOSAT-10	20	286	12/10/2020	42166.04608	0.00010350	1.29328	347.15584	256.12760	146.99343	9.24368
METEOSAT-10	20	293	19/10/2020	42167.06913	0.00004480	1.29277	347.38260	133.02532	276.71467	9.18998
METEOSAT-10	20	300	26/10/2020	42164.86615	0.00007870	1.28732	348.18661	227.64159	188.22311	9.21956
METEOSAT-10	20	307	02/11/2020	42165.91818	0.00004120	1.29105	348.41275	253.05582	169.56414	9.30236
METEOSAT-10	20	314	09/11/2020	42163.33750	0.00011380	1.28915	349.29756	259.70763	169.07332	9.44956
METEOSAT-10	20	321	16/11/2020	42169.02145	0.00012420	1.29106	349.75709	157.21516	277.91066	9.35578
METEOSAT-10	20	328	23/11/2020	42166.44540	0.00015060	1.28422	350.74722	198.37042	242.53476	9.22695
METEOSAT-10	20	335	30/11/2020	42167.52425	0.00009300	1.28866	351.25191	195.35289	251.87270	9.15416
METEOSAT-10	20	342	07/12/2020	42165.26724	0.00013260	1.28242	352.25931	217.97289	235.13231	9.14293
METEOSAT-10	20	349	14/12/2020	42166.29885	0.00010430	1.28392	352.94081	151.93157	307.41519	9.16798
METEOSAT-10	20	356	21/12/2020	42164.19491	0.00013370	1.27287	353.98065	197.27462	268.02251	9.25976
METEOSAT-10	20	363	28/12/2020	42164.56184	0.00006910	1.27418	354.62184	199.52696	272.17733	9.40985
METEOSAT-10	21	4	04/01/2021	42163.32643	0.00010450	1.26216	355.62687	211.96168	265.84540	9.61882
METEOSAT-10	21	11	11/01/2021	42168.55542	0.00012460	1.26127	356.34494	70.11893	53.78149	9.53138

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-11	15	222	10/08/2015	42166.73058	0.00010375	3.12254	264.96162	15.10418	34.71988	-3.41588
METEOSAT-11	15	229	17/08/2015	42167.12477	0.00011396	3.10801	264.60885	63.62458	353.39335	-3.47082
METEOSAT-11	15	236	24/08/2015	42165.56926	0.00002104	3.09954	264.45593	18.27262	45.76195	-3.50098
METEOSAT-11	15	243	31/08/2015	42167.37879	0.00007782	3.08508	264.10096	50.20457	21.07055	-3.50713
METEOSAT-11	15	250	07/09/2015	42165.33211	0.00013542	3.07428	263.98386	9.24447	69.05356	-3.49185
METEOSAT-11	15	257	14/09/2015	42166.47600	0.00013341	3.06581	263.66765	51.05204	34.48869	-3.45470
METEOSAT-11	15	264	21/09/2015	42164.61736	0.00005569	3.05885	263.58883	3.97916	88.58608	-3.39835
METEOSAT-11	15	271	28/09/2015	42166.84391	0.00012398	3.04832	263.30244	34.64180	65.17944	-3.31814
METEOSAT-11	15	278	05/10/2015	42164.11737	0.00017213	3.03684	263.27298	9.16439	97.67681	-3.21838
METEOSAT-11	15	285	12/10/2015	42168.42781	0.00010738	3.02981	263.05866	62.53054	51.31490	-3.32046
METEOSAT-11	15	292	19/10/2015	42166.83399	0.00002507	3.01958	263.07806	0.50654	120.09090	-3.44322
METEOSAT-11	15	299	26/10/2015	42168.34572	0.00011062	3.00863	262.87947	36.88051	90.71374	-3.54108
METEOSAT-11	15	306	02/11/2015	42166.09124	0.00013942	2.99191	262.91523	12.83981	121.53787	-3.62052
METEOSAT-11	15	313	09/11/2015	42167.13556	0.00013813	2.98207	262.76934	53.46825	87.89855	-3.67787
METEOSAT-11	15	320	16/11/2015	42166.29805	0.00005922	2.96498	262.82047	23.50388	124.67318	-3.71947
METEOSAT-11	15	327	23/11/2015	42166.46411	0.00016263	2.95075	262.64453	32.17310	123.06635	-3.73793
METEOSAT-11	15	334	30/11/2015	42165.55613	0.00016440	2.92767	262.64971	21.97636	140.16725	-3.73525
METEOSAT-11	15	341	07/12/2015	42165.63518	0.00017145	2.91399	262.47586	51.19939	118.05197	-3.70903
METEOSAT-11	15	348	14/12/2015	42165.82312	0.00008408	2.89093	262.44599	36.03643	140.19565	-3.66659
METEOSAT-11	15	355	21/12/2015	42164.64929	0.00020648	2.87492	262.20529	34.45910	148.98512	-3.60374
METEOSAT-11	15	362	28/12/2015	42165.28165	0.00017529	2.84885	262.07678	32.18134	158.39061	-3.51261
METEOSAT-11	16	4	04/01/2016	42164.11326	0.00019864	2.83544	261.81058	53.16511	144.69587	-3.39693
METEOSAT-11	16	11	11/01/2016	42165.27389	0.00009802	2.81146	261.62735	47.05241	158.03229	-3.26208
METEOSAT-11	16	18	18/01/2016	42166.70567	0.00021474	2.79817	261.30015	60.85287	151.38869	-3.33621
METEOSAT-11	16	25	25/01/2016	42168.38363	0.00016533	2.77516	261.02200	70.27790	149.01575	-3.46399
METEOSAT-11	16	32	01/02/2016	42166.36955	0.00021898	2.76654	260.70143	80.34111	146.06801	-3.56890
METEOSAT-11	16	39	08/02/2016	42167.98685	0.00012558	2.74682	260.41573	99.00509	134.50294	-3.65337
METEOSAT-11	16	46	15/02/2016	42165.67526	0.00023334	2.73913	260.09178	66.15074	174.49735	-3.73306
METEOSAT-11	16	53	22/02/2016	42167.59852	0.00017734	2.72202	259.76177	79.05825	168.77876	-3.76825
METEOSAT-11	16	60	29/02/2016	42165.56101	0.00022262	2.71873	259.50383	85.51230	169.45952	-3.78422
METEOSAT-11	16	67	07/03/2016	42166.82738	0.00014021	2.70347	259.23149	104.27777	157.86429	-3.77827
METEOSAT-11	16	74	14/03/2016	42165.02022	0.00023720	2.69885	259.02472	70.80103	198.44062	-3.77693

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-11	16	81	21/03/2016	42166.37531	0.00018735	2.68540	258.74640	86.50731	189.95519	-3.72595
METEOSAT-11	16	88	28/03/2016	42165.09476	0.00021249	2.68279	258.64066	89.52532	194.00361	-3.65731
METEOSAT-11	16	95	04/04/2016	42165.28625	0.00015133	2.66831	258.44231	107.80909	182.90392	-3.56474
METEOSAT-11	16	102	11/04/2016	42164.62222	0.00023082	2.66122	258.38366	72.36692	225.38231	-3.48158
METEOSAT-11	16	109	18/04/2016	42164.78413	0.00019488	2.64681	258.16476	92.80835	212.19074	-3.34683
METEOSAT-11	16	116	25/04/2016	42164.70583	0.00019438	2.63978	258.18375	91.07194	220.96028	-3.19254
METEOSAT-11	16	123	02/05/2016	42167.34171	0.00006680	2.62257	257.99824	106.37273	212.68550	-3.25206
METEOSAT-11	16	130	09/05/2016	42167.99226	0.00016635	2.60953	258.02271	49.81272	275.95903	-3.41558
METEOSAT-11	16	137	16/05/2016	42166.85989	0.00011262	2.59190	257.79390	85.15511	247.63364	-3.53071
METEOSAT-11	16	144	23/05/2016	42167.89321	0.00010231	2.57853	257.82769	68.50359	271.06309	-3.62329
METEOSAT-11	16	151	30/05/2016	42165.84391	0.00005927	2.55851	257.57574	107.67163	238.98380	-3.69221
METEOSAT-11	16	158	06/06/2016	42167.43699	0.00016297	2.54005	257.55894	45.38480	308.12338	-3.76229
METEOSAT-11	16	165	13/06/2016	42165.46071	0.00010378	2.52135	257.22771	89.43083	271.28444	-3.79299
METEOSAT-11	16	172	20/06/2016	42167.07421	0.00009243	2.50392	257.17319	59.61045	308.06189	-3.79651
METEOSAT-11	16	179	27/06/2016	42164.70572	0.00004596	2.48490	256.78158	95.89057	279.09678	-3.77891
METEOSAT-11	16	186	04/07/2016	42166.56552	0.00016499	2.46459	256.65358	41.26902	340.77688	-3.75290
METEOSAT-11	16	193	11/07/2016	42164.50768	0.00009551	2.44915	256.19996	85.82150	303.63661	-3.69781
METEOSAT-11	16	200	18/07/2016	42165.86160	0.00008832	2.43181	256.02774	48.14605	348.47366	-3.61027
METEOSAT-11	16	207	25/07/2016	42163.99136	0.00004717	2.41810	255.52230	61.17953	342.95196	-3.50422
METEOSAT-11	16	214	01/08/2016	42165.35408	0.00017258	2.39982	255.29646	37.58539	13.79451	-3.38022
METEOSAT-11	16	221	08/08/2016	42163.95776	0.00009858	2.39077	254.80007	74.37290	344.54427	-3.23633
METEOSAT-11	16	228	15/08/2016	42167.86805	0.00009402	2.37657	254.56627	340.64956	85.33453	-3.29896
METEOSAT-11	16	235	22/08/2016	42167.24540	0.00007942	2.36924	254.06790	336.96658	96.28380	-3.42564
METEOSAT-11	16	242	29/08/2016	42167.51901	0.00017199	2.35375	253.82680	8.02688	72.25535	-3.52893
METEOSAT-11	16	249	05/09/2016	42167.13355	0.00007108	2.35052	253.42061	18.22041	69.27072	-3.61962
METEOSAT-11	16	256	12/09/2016	42166.29984	0.00012470	2.33848	253.22905	343.94758	110.57290	-3.67541
METEOSAT-11	16	263	19/09/2016	42167.19041	0.00011328	2.33482	252.85862	359.92493	101.81638	-3.71861
METEOSAT-11	16	270	26/09/2016	42166.07699	0.00020275	2.31948	252.67634	10.33543	98.46481	-3.73660
METEOSAT-11	16	277	03/10/2016	42166.66400	0.00010476	2.31734	252.43944	24.46456	91.45876	-3.74560
METEOSAT-11	16	284	10/10/2016	42164.99588	0.00015492	2.30352	252.33710	351.73391	131.21295	-3.72113
METEOSAT-11	16	291	17/10/2016	42166.99864	0.00015246	2.29826	252.12282	16.22772	113.86823	-3.68407
METEOSAT-11	16	298	24/10/2016	42164.66224	0.00023695	2.27903	251.98223	14.68563	122.51386	-3.62075

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-11	16	305	31/10/2016	42165.89926	0.00013962	2.27293	251.87922	30.60279	113.67500	-3.54601
METEOSAT-11	16	312	07/11/2016	42164.02226	0.00018140	2.25391	251.78498	2.10277	149.27846	-3.43913
METEOSAT-11	16	319	14/11/2016	42166.07094	0.00019742	2.24371	251.63764	26.86013	131.69392	-3.31674
METEOSAT-11	16	326	21/11/2016	42163.38030	0.00026699	2.21941	251.43069	20.84945	144.96493	-3.16770
METEOSAT-11	16	333	28/11/2016	42168.48412	0.00008432	2.20787	251.32992	42.95612	129.74194	-3.28905
METEOSAT-11	16	340	05/12/2016	42167.02672	0.00011908	2.18451	251.10369	358.54151	181.15047	-3.42612
METEOSAT-11	16	347	12/12/2016	42168.11888	0.00015252	2.17048	250.89730	35.67980	151.00282	-3.54629
METEOSAT-11	16	354	19/12/2016	42166.21780	0.00019352	2.14486	250.49679	26.30909	167.58484	-3.63978
METEOSAT-11	16	361	26/12/2016	42167.12518	0.00011228	2.13122	250.27642	53.91115	147.03390	-3.71235
METEOSAT-11	17	2	02/01/2017	42166.51626	0.00011917	2.10895	249.82795	14.28746	193.96565	-3.75957
METEOSAT-11	17	9	09/01/2017	42166.28541	0.00018514	2.09586	249.50416	45.77072	169.67565	-3.79148
METEOSAT-11	17	16	16/01/2017	42165.84106	0.00018673	2.07504	248.90270	37.27776	185.66639	-3.79542
METEOSAT-11	17	23	23/01/2017	42165.68018	0.00013243	2.06465	248.58492	65.13505	165.04431	-3.77698
METEOSAT-11	17	30	30/01/2017	42166.11876	0.00011048	2.04858	247.98208	26.95606	210.76320	-3.73773
METEOSAT-11	17	37	06/02/2017	42164.70140	0.00020139	2.03951	247.63074	56.18321	188.83619	-3.68569
METEOSAT-11	17	44	13/02/2017	42165.71637	0.00016457	2.02679	246.97501	48.15478	204.49975	-3.60212
METEOSAT-11	17	51	20/02/2017	42164.29682	0.00014407	2.02004	246.71492	76.35325	183.56353	-3.49525
METEOSAT-11	17	58	27/02/2017	42165.59822	0.00009620	2.01026	246.13278	37.29515	230.22375	-3.37014
METEOSAT-11	17	65	06/03/2017	42163.43300	0.00020440	2.00283	245.90337	65.67199	209.10568	-3.23569
METEOSAT-11	17	72	13/03/2017	42168.61178	0.00006280	1.99558	245.36048	52.51121	229.66510	-3.27510
METEOSAT-11	17	79	20/03/2017	42166.45915	0.00007660	1.98963	245.23892	107.83943	181.25195	-3.37740
METEOSAT-11	17	86	27/03/2017	42167.99493	0.00002570	1.98121	244.78407	334.22532	322.13307	-3.46170
METEOSAT-11	17	93	03/04/2017	42165.76911	0.00012120	1.97034	244.70488	77.76734	225.48854	-3.54092
METEOSAT-11	17	100	10/04/2017	42167.61343	0.00004420	1.96334	244.31081	74.42968	236.08083	-3.57867
METEOSAT-11	17	107	17/04/2017	42165.64244	0.00007390	1.95120	244.30406	117.18769	200.21428	-3.59341
METEOSAT-11	17	114	24/04/2017	42166.62142	0.00001520	1.94127	243.93650	305.27489	19.39859	-3.58994
METEOSAT-11	17	121	01/05/2017	42165.07090	0.00011250	1.92339	243.88376	83.10297	248.53111	-3.58357
METEOSAT-11	17	128	08/05/2017	42166.13970	0.00003410	1.91375	243.55126	108.74835	230.16946	-3.53453
METEOSAT-11	17	135	15/05/2017	42165.08337	0.00006060	1.89557	243.50897	121.93435	224.00352	-3.45961
METEOSAT-11	17	142	22/05/2017	42164.91684	0.00001660	1.88309	243.09811	264.71652	88.63001	-3.36511
METEOSAT-11	17	149	29/05/2017	42164.60328	0.00010430	1.85941	242.92312	81.36441	279.15934	-3.26632
METEOSAT-11	17	156	05/06/2017	42167.52060	0.00004960	1.84791	242.48832	269.94806	97.89426	-3.28572

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METEOSAT-11	17	163	12/06/2017	42167.70430	0.00002780	1.82654	242.26084	285.28484	89.57837	-3.39508
METEOSAT-11	17	170	19/06/2017	42166.34756	0.00009310	1.81494	241.71209	286.56277	95.66117	-3.48546
METEOSAT-11	17	177	26/06/2017	42167.30588	0.00006320	1.79057	241.30924	30.61966	358.82613	-3.56802
METEOSAT-11	17	184	03/07/2017	42165.94153	0.00006400	1.78123	240.75727	267.62114	129.22719	-3.61824
METEOSAT-11	17	191	10/07/2017	42167.15216	0.00003950	1.76140	240.30595	312.56680	91.61606	-3.63489
METEOSAT-11	17	198	17/07/2017	42165.01121	0.00009850	1.75487	239.65970	295.34940	116.37772	-3.63590
METEOSAT-11	17	205	24/07/2017	42166.77639	0.00007820	1.73478	239.05430	27.19830	32.04422	-3.62402
METEOSAT-11	17	212	31/07/2017	42164.73127	0.00007220	1.73040	238.47813	276.62366	150.12574	-3.59067
METEOSAT-11	17	219	07/08/2017	42166.35686	0.00005570	1.71575	237.88681	330.90451	103.40474	-3.51895
METEOSAT-11	17	226	14/08/2017	42164.09262	0.00010200	1.71397	237.32456	311.81906	130.03250	-3.43518
METEOSAT-11	17	233	21/08/2017	42165.88284	0.00009630	1.69960	236.65407	27.29818	62.22329	-3.33197
METEOSAT-11	17	240	28/08/2017	42163.94468	0.00006970	1.69906	236.21386	293.08223	163.89059	-3.21690
METEOSAT-11	17	247	04/09/2017	42168.10389	0.00007780	1.68845	235.64849	39.15709	65.20563	-3.28894
METEOSAT-11	17	254	11/09/2017	42166.53314	0.00007840	1.68868	235.28038	15.51941	96.00708	-3.39008
METEOSAT-11	17	261	18/09/2017	42167.60645	0.00015190	1.67658	234.69097	56.21939	62.71783	-3.46640
METEOSAT-11	17	268	25/09/2017	42166.43510	0.00003750	1.67488	234.48274	45.02125	80.95208	-3.53657
METEOSAT-11	17	275	02/10/2017	42166.51018	0.00010510	1.66397	234.00809	35.58530	97.73630	-3.56199
METEOSAT-11	17	282	09/10/2017	42166.25172	0.00010220	1.66005	233.85135	34.88993	105.46975	-3.58024
METEOSAT-11	17	289	16/10/2017	42166.11713	0.00017340	1.64643	233.31892	56.69931	91.10353	-3.57018
METEOSAT-11	17	296	23/10/2017	42165.98007	0.00006520	1.63842	233.25742	60.03485	94.74694	-3.55371
METEOSAT-11	17	303	30/10/2017	42164.86475	0.00013790	1.62441	232.79717	37.97127	124.23292	-3.49341
METEOSAT-11	17	310	06/11/2017	42166.04548	0.00012810	1.61284	232.68915	52.30649	116.97669	-3.42438
METEOSAT-11	17	317	13/11/2017	42164.52745	0.00020090	1.59651	232.06451	60.13365	116.77603	-3.32506
METEOSAT-11	17	324	20/11/2017	42165.32542	0.00009440	1.58148	231.94679	71.63844	112.40236	-3.21383
METEOSAT-11	17	331	27/11/2017	42166.58984	0.00014520	1.56573	231.31978	19.73674	171.74925	-3.29786
METEOSAT-11	17	338	04/12/2017	42168.60130	0.00010890	1.54861	231.05981	41.73100	156.80272	-3.41171
METEOSAT-11	17	345	11/12/2017	42166.12931	0.00017610	1.53312	230.19067	51.51413	154.70462	-3.49725
METEOSAT-11	17	352	18/12/2017	42167.50005	0.00006180	1.51570	229.83549	52.94263	160.46429	-3.56487
METEOSAT-11	17	359	25/12/2017	42165.67177	0.00014890	1.50347	228.94889	34.35094	186.80691	-3.60070
METEOSAT-11	18	1	01/01/2018	42167.47486	0.00012280	1.48698	228.44168	62.96295	165.58080	-3.62135
METEOSAT-11	18	8	08/01/2018	42164.98950	0.00018010	1.47818	227.37027	64.27372	172.24306	-3.61852
METEOSAT-11	18	15	15/01/2018	42166.38505	0.00007120	1.46394	226.79208	80.52677	163.49266	-3.59219

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METEOSAT-11	18	22	22/01/2018	42164.23739	0.00012220	1.45583	225.67023	55.80023	196.33157	-3.49925
METEOSAT-11	18	29	29/01/2018	42164.95504	0.00013260	1.44387	225.03579	91.17070	168.63944	-3.35262
METEOSAT-11	18	36	05/02/2018	42163.46959	0.00015790	1.44363	224.01183	86.02023	181.87842	-3.18508
METEOSAT-11	18	43	12/02/2018	42128.96107	0.00008760	1.43397	223.41380	120.74453	157.77395	-0.05947
METEOSAT-11	18	50	19/02/2018	42168.87515	0.00010450	1.43670	222.58254	69.52901	217.26048	0.48322
METEOSAT-11	18	57	26/02/2018	42167.90235	0.00014960	1.42722	222.02516	106.75321	187.28667	0.27841
METEOSAT-11	18	64	05/03/2018	42168.10416	0.00012960	1.43062	221.28972	100.35232	201.14727	0.10465
METEOSAT-11	18	71	12/03/2018	42167.24086	0.00010460	1.42131	220.81522	139.98146	168.75876	-0.02802
METEOSAT-11	18	78	19/03/2018	42167.95012	0.00008560	1.42440	220.26045	81.93523	234.14406	-0.14289
METEOSAT-11	18	85	26/03/2018	42166.02676	0.00015250	1.41221	219.79797	121.13631	202.22375	-0.22458
METEOSAT-11	18	92	02/04/2018	42167.42932	0.00010090	1.41294	219.33945	115.63755	215.03193	-0.27390
METEOSAT-11	18	99	09/04/2018	42165.47456	0.00011620	1.39955	218.91469	154.13057	183.85702	-0.28153
METEOSAT-11	18	106	16/04/2018	42166.78823	0.00006770	1.39805	218.51794	92.42267	252.87149	-0.27279
METEOSAT-11	18	113	23/04/2018	42164.41393	0.00014900	1.38091	217.96665	134.01489	218.77449	-0.23051
METEOSAT-11	18	120	30/04/2018	42166.25050	0.00007930	1.37606	217.59491	134.74441	225.39642	-0.15227
METEOSAT-11	18	127	07/05/2018	42163.94791	0.00011900	1.35906	217.01077	166.08222	201.66538	-0.03131
METEOSAT-11	18	134	14/05/2018	42165.16301	0.00005020	1.35321	216.56121	106.05996	269.17838	0.10857
METEOSAT-11	18	141	21/05/2018	42163.05417	0.00014130	1.33407	215.71285	144.76774	238.39245	0.28082
METEOSAT-11	18	148	28/05/2018	42164.45976	0.00006850	1.32603	215.22085	158.77700	231.98745	0.49252
METEOSAT-11	18	155	04/06/2018	42162.73296	0.00011160	1.30987	214.33077	174.47864	224.33241	0.74883
METEOSAT-11	18	162	11/06/2018	42168.97410	0.00010940	1.39173	250.34820	233.41731	136.17382	0.65141
METEOSAT-11	18	169	18/06/2018	42167.85611	0.00011930	1.36514	249.80352	181.19104	195.62203	0.42723
METEOSAT-11	18	176	25/06/2018	42168.26081	0.00014550	1.35257	249.44231	217.12810	166.76268	0.24284
METEOSAT-11	18	183	02/07/2018	42167.65832	0.00015210	1.33109	248.81212	205.49666	185.78467	0.10257
METEOSAT-11	18	190	09/07/2018	42166.87893	0.00012310	1.32099	248.30403	237.50181	161.06971	-0.01535
METEOSAT-11	18	197	16/07/2018	42167.06117	0.00011240	1.29818	247.42293	187.33468	218.92375	-0.10918
METEOSAT-11	18	204	23/07/2018	42166.26988	0.00016000	1.28794	246.93660	224.99315	188.59207	-0.16776
METEOSAT-11	18	211	30/07/2018	42166.86047	0.00013730	1.27242	246.05631	213.24765	208.10294	-0.18127
METEOSAT-11	18	218	06/08/2018	42165.03437	0.00012720	1.26616	245.51852	244.88480	183.90996	-0.17307
METEOSAT-11	18	225	13/08/2018	42166.33675	0.00009910	1.25035	244.47340	190.72307	246.04622	-0.14162
METEOSAT-11	18	232	20/08/2018	42164.51225	0.00016340	1.24311	244.03623	233.24314	210.92249	-0.08017
METEOSAT-11	18	239	27/08/2018	42165.90527	0.00011680	1.23407	243.13259	220.46204	231.61482	0.02973

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METEOSAT-11	18	246	03/09/2018	42163.53499	0.00011840	1.22990	242.77906	253.14648	206.31321	0.16135
METEOSAT-11	18	253	10/09/2018	42165.27031	0.00008490	1.21965	241.80817	191.34010	276.14599	0.31891
METEOSAT-11	18	260	17/09/2018	42163.04310	0.00015570	1.21232	241.58752	239.12313	235.66581	0.50290
METEOSAT-11	18	267	24/09/2018	42164.43703	0.00009450	1.20606	240.84764	227.67454	254.98992	0.73997
METEOSAT-11	18	274	01/10/2018	42168.18520	0.00004160	1.19880	240.74694	52.74134	76.73231	0.54950
METEOSAT-11	18	281	08/10/2018	42169.52183	0.00012250	1.18964	239.97169	103.07751	33.83356	0.31219
METEOSAT-11	18	288	15/10/2018	42167.72283	0.00002720	1.17729	239.93596	158.04807	345.58570	0.09937
METEOSAT-11	18	295	22/10/2018	42168.36522	0.00007620	1.16910	239.33502	87.24953	63.72501	-0.06095
METEOSAT-11	18	302	29/10/2018	42167.20318	0.00006330	1.15439	239.33960	65.71519	92.01688	-0.19926
METEOSAT-11	18	309	05/11/2018	42167.60352	0.00013260	1.14295	238.61392	99.62386	65.62718	-0.30674
METEOSAT-11	18	316	12/11/2018	42166.76125	0.00004250	1.12363	238.53434	130.45622	41.69279	-0.38917
METEOSAT-11	18	323	19/11/2018	42166.21572	0.00010280	1.11242	237.85314	78.13553	101.56081	-0.42397
METEOSAT-11	18	330	26/11/2018	42166.45356	0.00008420	1.09079	237.65455	81.65680	105.12698	-0.43592
METEOSAT-11	18	337	03/12/2018	42165.59598	0.00015040	1.07804	236.73877	100.45547	94.16413	-0.41666
METEOSAT-11	18	344	10/12/2018	42165.83437	0.00006860	1.05503	236.29766	128.79227	73.21699	-0.36863
METEOSAT-11	18	351	17/12/2018	42164.25989	0.00013090	1.04450	235.32740	81.57797	128.38977	-0.28067
METEOSAT-11	18	358	24/12/2018	42165.74598	0.00010350	1.02128	234.65813	100.85434	116.79734	-0.16594
METEOSAT-11	18	365	31/12/2018	42163.66817	0.00017100	1.01241	233.44692	107.98067	117.92529	-0.02246
METEOSAT-11	19	7	07/01/2019	42164.73768	0.00009620	0.99231	232.51949	137.79795	96.11356	0.15640
METEOSAT-11	19	14	14/01/2019	42162.76176	0.00014900	0.98790	231.33329	93.72679	148.47961	0.36617
METEOSAT-11	19	21	21/01/2019	42164.64973	0.00012600	0.96949	230.24707	120.66185	129.77286	0.60956
METEOSAT-11	19	28	28/01/2019	42161.95199	0.00018810	0.96781	228.99047	121.03553	137.82368	0.87905
METEOSAT-11	19	35	04/02/2019	42169.80767	0.00004850	0.95462	227.81887	32.65127	234.09339	0.69439
METEOSAT-11	19	42	11/02/2019	42168.11418	0.00014910	0.95693	226.80766	49.81439	224.59247	0.44707
METEOSAT-11	19	49	18/02/2019	42169.35453	0.00008290	0.94444	225.64984	63.80976	218.44649	0.24006
METEOSAT-11	19	56	25/02/2019	42167.12118	0.00010910	0.94671	224.74607	85.77282	204.09993	0.05432
METEOSAT-11	19	63	04/03/2019	42168.18381	0.00001790	0.93778	223.66949	73.82923	223.87916	-0.08547
METEOSAT-11	19	70	11/03/2019	42167.22407	0.00011640	0.94080	223.10200	59.79813	245.25084	-0.21121
METEOSAT-11	19	77	18/03/2019	42167.24403	0.00006600	0.92983	222.07026	97.79685	215.10187	-0.29260
METEOSAT-11	19	84	25/03/2019	42166.27789	0.00007620	0.92919	221.60865	103.98082	216.21617	-0.35529
METEOSAT-11	19	91	01/04/2019	42166.38631	0.00002440	0.91948	220.65589	188.00735	140.02748	-0.37013
METEOSAT-11	19	98	08/04/2019	42166.36483	0.00008450	0.91709	220.41239	64.63128	270.54255	-0.37442

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-11	19	105	15/04/2019	42165.10928	0.00006110	0.90403	219.35864	138.21009	204.96073	-0.33157
METEOSAT-11	19	112	22/04/2019	42165.63883	0.00004140	0.89634	219.06727	126.79612	223.62940	-0.26841
METEOSAT-11	19	119	29/04/2019	42164.46332	0.00005500	0.88421	217.98115	215.90765	142.61659	-0.15633
METEOSAT-11	19	126	06/05/2019	42165.32197	0.00005570	0.87500	217.70438	62.46717	303.35771	-0.03269
METEOSAT-11	19	133	13/05/2019	42163.08709	0.00006730	0.86262	216.33335	173.00261	201.26804	0.14154
METEOSAT-11	19	140	20/05/2019	42164.65244	0.00001820	0.84927	215.83238	175.07665	206.79728	0.34378
METEOSAT-11	19	147	27/05/2019	42162.52624	0.00007480	0.83825	214.36064	230.46170	160.03443	0.59411
METEOSAT-11	19	154	03/06/2019	42163.83072	0.00003980	0.82603	213.71920	50.83450	347.47002	0.86137
METEOSAT-11	19	161	10/06/2019	42167.75372	0.00018460	1.06804	260.19292	206.64123	151.98339	0.75864
METEOSAT-11	19	168	17/06/2019	42169.52074	0.00017740	1.05049	260.19575	226.47231	138.81993	0.52844
METEOSAT-11	19	175	24/06/2019	42167.32798	0.00022810	1.02936	259.42574	219.32804	153.44932	0.34280
METEOSAT-11	19	182	01/07/2019	42168.40628	0.00015030	1.01348	259.27399	244.29530	135.36870	0.17733
METEOSAT-11	19	189	08/07/2019	42166.52182	0.00020420	0.99108	258.20585	213.10180	174.39547	0.04212
METEOSAT-11	19	196	15/07/2019	42167.74939	0.00020200	0.97391	257.96644	232.63943	161.89841	-0.05662
METEOSAT-11	19	203	22/07/2019	42166.30279	0.00022960	0.95746	256.83415	226.72552	175.78484	-0.11611
METEOSAT-11	19	210	29/07/2019	42166.49014	0.00017170	0.94315	256.48040	249.81793	159.90996	-0.15168
METEOSAT-11	19	217	05/08/2019	42165.71324	0.00020850	0.92697	255.08759	219.98593	198.01786	-0.16770
METEOSAT-11	19	224	12/08/2019	42165.85965	0.00021780	0.91170	254.68779	239.85171	185.47606	-0.14245
METEOSAT-11	19	231	19/08/2019	42165.59703	0.00021640	0.90306	253.44126	234.51126	199.02408	-0.08006
METEOSAT-11	19	238	26/08/2019	42164.55587	0.00018640	0.89190	253.10066	256.92942	183.93559	0.01039
METEOSAT-11	19	245	02/09/2019	42165.09021	0.00020230	0.88304	251.75159	225.61911	223.59721	0.11414
METEOSAT-11	19	252	09/09/2019	42163.94990	0.00022670	0.86886	251.42496	247.38818	209.20246	0.26318
METEOSAT-11	19	259	16/09/2019	42164.81678	0.00019740	0.86563	250.42985	240.87235	223.79892	0.45018
METEOSAT-11	19	266	23/09/2019	42162.75267	0.00019090	0.85376	250.31606	263.21106	208.69231	0.66963
METEOSAT-11	19	273	30/09/2019	42164.21654	0.00019260	0.84768	249.31180	228.53300	251.50651	0.90263
METEOSAT-11	19	280	07/10/2019	42168.36105	0.00007910	0.83109	249.16191	254.82381	232.06771	0.70542
METEOSAT-11	19	287	14/10/2019	42169.80742	0.00003660	0.82744	248.54926	213.09099	281.07325	0.46624
METEOSAT-11	19	294	21/10/2019	42167.43182	0.00005500	0.81037	248.58196	310.09236	190.73397	0.26134
METEOSAT-11	19	301	28/10/2019	42169.07334	0.00007540	0.80184	247.86179	178.20637	330.04925	0.07076
METEOSAT-11	19	308	04/11/2019	42166.84426	0.00006900	0.77966	247.73558	260.84256	254.29355	-0.07503
METEOSAT-11	19	315	11/11/2019	42168.10711	0.00001640	0.77165	247.26218	183.07350	339.32841	-0.18276
METEOSAT-11	19	322	18/11/2019	42166.19152	0.00004310	0.74782	247.08273	326.59437	202.81287	-0.25714

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-11	19	329	25/11/2019	42167.30285	0.00007190	0.73646	246.34154	171.55316	5.43738	-0.31513
METEOSAT-11	19	336	02/12/2019	42165.69984	0.00005500	0.70949	245.76133	255.08779	289.36744	-0.33094
METEOSAT-11	19	343	09/12/2019	42166.05564	0.00002420	0.69860	245.02740	110.18440	81.92354	-0.31217
METEOSAT-11	19	350	16/12/2019	42165.26972	0.00002260	0.67218	244.16278	343.47440	216.45038	-0.26005
METEOSAT-11	19	354	20/12/2019	42164.30670	0.00005220	0.66659	243.17666	91.04455	113.84926	-0.21995
METEOSAT-11	19	364	30/12/2019	42164.80650	0.00005380	0.63540	241.52197	233.17629	343.37273	-0.07629
METEOSAT-11	20	6	06/01/2020	42163.96127	0.00004900	0.62627	240.38545	109.62084	115.10635	0.06587
METEOSAT-11	20	13	13/01/2020	42164.61683	0.00001100	0.60466	238.50738	185.84012	47.84243	0.24363
METEOSAT-11	20	20	20/01/2020	42163.34851	0.00009990	0.59656	237.10844	168.52666	73.65359	0.44317
METEOSAT-11	20	27	27/01/2020	42163.88893	0.00007510	0.58152	234.85210	220.25902	31.31792	0.68425
METEOSAT-11	20	34	03/02/2020	42162.16813	0.00006970	0.57778	233.63191	131.63212	128.33085	0.95112
METEOSAT-11	20	41	10/02/2020	42170.39471	0.00010700	0.56529	231.29541	345.06739	283.94224	0.76209
METEOSAT-11	20	48	17/02/2020	42168.00444	0.00002440	0.56029	230.13568	351.27516	285.53922	0.50809
METEOSAT-11	20	55	24/02/2020	42169.20178	0.00009810	0.55438	227.77751	316.16383	329.69682	0.29702
METEOSAT-11	20	62	02/03/2020	42167.31851	0.00007820	0.55308	227.12295	25.64796	267.57589	0.10658
METEOSAT-11	20	69	09/03/2020	42169.17093	0.00007820	0.54573	224.92340	326.41440	335.76174	-0.04003
METEOSAT-11	20	76	16/03/2020	42166.46273	0.00002820	0.53968	224.27685	258.15488	51.44004	-0.16710
METEOSAT-11	20	83	23/03/2020	42167.78232	0.00010180	0.53616	222.51150	302.07672	16.09829	-0.25184
METEOSAT-11	20	90	30/03/2020	42166.28425	0.00004640	0.52978	222.21556	10.82602	314.47817	-0.31804
METEOSAT-11	20	97	06/04/2020	42167.26047	0.00007720	0.52239	220.24013	293.98848	40.17030	-0.33863
METEOSAT-11	20	104	13/04/2020	42165.25218	0.00006500	0.50993	219.77083	254.11680	87.40902	-0.34056
METEOSAT-11	20	111	20/04/2020	42166.07325	0.00012000	0.50484	218.00959	290.19724	60.03064	-0.29955
METEOSAT-11	20	118	27/04/2020	42165.34198	0.00004440	0.49106	217.67148	326.56715	30.95890	-0.23920
METEOSAT-11	20	125	04/05/2020	42164.92325	0.00011140	0.48319	215.43620	274.15265	92.61417	-0.13360
METEOSAT-11	20	132	11/05/2020	42164.35280	0.00009930	0.46466	214.32601	265.74154	109.16201	-0.00681
METEOSAT-11	20	139	18/05/2020	42164.09843	0.00014740	0.45851	212.09078	288.06395	96.14406	0.16266
METEOSAT-11	20	146	25/05/2020	42164.19813	0.00006820	0.44379	210.85976	315.93071	76.60883	0.36354
METEOSAT-11	20	153	01/06/2020	42162.52088	0.00015340	0.44020	207.91186	276.16192	126.46972	0.60807
METEOSAT-11	20	160	08/06/2020	42168.75342	0.00024900	0.87095	276.11217	211.82095	129.49868	0.59957
METEOSAT-11	20	167	15/06/2020	42167.26893	0.00030230	0.85202	275.56373	218.08265	130.51930	0.43312
METEOSAT-11	20	174	22/06/2020	42168.31951	0.00021020	0.83151	275.98639	225.61984	129.31965	0.29299
METEOSAT-11	20	181	29/06/2020	42166.01060	0.00031640	0.81035	275.18843	211.13197	151.39657	0.18370

Spacecraft	Year	Day	Epoch	Semi-Major Axis (km)	Eccentricity	Inclination (deg)	RA of Ascending Node (deg)	Argument of Perigee (deg)	True Anomaly (deg)	Longitude (degE)
METEOSAT-11	20	188	06/07/2020	42167.74253	0.00026950	0.78579	275.45064	217.40637	151.68624	0.10970
METEOSAT-11	20	195	13/07/2020	42165.57556	0.00032330	0.76913	274.50406	221.55027	155.34962	0.07028
METEOSAT-11	20	202	20/07/2020	42166.94272	0.00023170	0.74731	274.58114	230.83044	152.88342	0.06131
METEOSAT-11	20	209	27/07/2020	42164.68355	0.00033930	0.73053	273.39256	216.37467	175.43659	0.07032
METEOSAT-11	20	216	03/08/2020	42166.39543	0.00028480	0.70677	273.24612	224.30272	174.60913	0.12474
METEOSAT-11	20	223	10/08/2020	42164.35548	0.00032730	0.69641	272.06892	227.59477	179.47770	0.20873
METEOSAT-11	20	230	17/08/2020	42165.27075	0.00024890	0.67674	271.87916	238.23382	176.04810	0.32904
METEOSAT-11	20	237	24/08/2020	42163.73181	0.00034580	0.66674	270.61164	222.68975	199.88640	0.45664
METEOSAT-11	20	244	31/08/2020	42164.63035	0.00029690	0.64608	270.22516	232.16623	197.87970	0.64074
METEOSAT-11	20	251	07/09/2020	42163.48658	0.00031520	0.64163	269.28644	233.67821	204.41705	0.85245
METEOSAT-11	20	258	14/09/2020	42169.18697	0.00015880	0.62440	269.12778	272.52190	172.50824	0.72954
METEOSAT-11	20	265	21/09/2020	42168.83245	0.00020490	0.61816	268.29925	234.81513	217.66718	0.45426
METEOSAT-11	20	272	28/09/2020	42168.53034	0.00018080	0.59851	267.96308	255.92985	203.57580	0.24222
METEOSAT-11	20	279	05/10/2020	42168.55217	0.00017320	0.59600	267.67771	253.39897	213.10463	0.05583
METEOSAT-11	20	286	12/10/2020	42167.20738	0.00016900	0.57728	267.71170	277.86849	195.35648	-0.08817
METEOSAT-11	20	293	19/10/2020	42168.02569	0.00019500	0.57011	267.58823	236.42853	243.67322	-0.23419
METEOSAT-11	20	300	26/10/2020	42166.55731	0.00018300	0.54756	267.39040	262.73117	224.38483	-0.31738
METEOSAT-11	20	307	02/11/2020	42167.55685	0.00015340	0.54125	267.77892	256.01892	237.55019	-0.37511
METEOSAT-11	20	314	09/11/2020	42165.42800	0.00016550	0.51811	267.73282	281.49329	219.00535	-0.39145
METEOSAT-11	20	321	16/11/2020	42166.99531	0.00017880	0.50562	268.20902	234.85293	272.05449	-0.40604
METEOSAT-11	20	328	23/11/2020	42164.78134	0.00017540	0.47923	267.72713	267.11348	247.21820	-0.36361
METEOSAT-11	20	335	30/11/2020	42166.19777	0.00013250	0.46678	268.37431	256.19681	264.45786	-0.29306
METEOSAT-11	20	342	07/12/2020	42163.95816	0.00015070	0.43993	267.83647	283.24009	244.96229	-0.18318
METEOSAT-11	20	349	14/12/2020	42165.52446	0.00016350	0.42218	268.20046	232.12135	302.73609	-0.06385
METEOSAT-11	20	356	21/12/2020	42163.38006	0.00016220	0.39501	266.73568	268.59991	274.78985	0.10375
METEOSAT-11	20	363	28/12/2020	42164.40944	0.00011170	0.37845	266.96461	255.85064	294.40980	0.30368
METEOSAT-11	21	4	04/01/2021	42162.84962	0.00012970	0.35254	264.96352	280.64046	278.75784	0.54061
METEOSAT-11	21	11	11/01/2021	42163.64583	0.00015340	0.33409	264.62976	230.47203	336.41607	0.79705