

# 国际电信联盟

无线电通信局



## 国际电联（ITU）无线电通信局（BR）向 STS-09 提交的 2008 年 关于对地静止卫星轨道（GSO）和其它轨道使用情况的年度空间报告

在联合国和平利用外层空间委员会（COPUOS）科技分委会（STS）第45次会议（2008年2月11-22日）报告的第184段中，-分委会请国际电联进一步提交其关于和平利用对地静止卫星轨道和其它轨道等外层空间工作情况的报告。

相应地，请见以下附件：

**附件 1** – 根据《无线电规则》第9条（提前公布信息-A或协调请求-C）和/或第11条（通知-N）的规定，在2008年12月31日前，已向国际电联无线电通信局提交信息的对地静止或对地非静止空间网络列表。

**附件 2** - 《无线电规则》附录30和30A – 已通知、登入国际频率登记总表（MIFR）并已确认在2008年12月31日前投入使用的卫星网络。

**附件 3** – 《无线电规则》附录30B – 已通知、登入国际频率登记总表（MIFR）并已确认在2008年12月31日前投入使用的卫星网络。

**附件 4** – 统计数据

**附件 5** – 列表中各栏的说明

PDF 或 CSV 电子数据表格格式的国际电联无线电通信局向 STS-09 提交的 2008 年关于对地静止卫星轨道（GSO）和其它轨道利用情况的年度空间报告可从 BR 网站 <http://www.itu.int/ITU-R/space/snl/report/> 下载

关于列表中所有网络统计数据的更详细情况，请参见–在线空间网络列表（SNL）：  
<http://www.itu.int/ITU-R/space/snl/>

关于空间数据库和与特节相关部分说明的更详细信息，请参见《空间业务前言》：  
<http://www.itu.int/ITU-R/space/preface/>

附件 1

表 1.1: 根据《无线电规则》第9条(提前公布信息-A或协调请求-C)和/或第11条(通知-N)的规定, 在2008年12月31日前, 已向国际电联无线电通信局提交信息的对地静止或对地非静止空间网络列表

(根据主管部门和卫星名称排序)

说明: 每个卫星网络根据其最后的规则状态(N、C或A)只列出一一次

ntc id	adm	ntwk org	sat name	long nom	ntf rsn	ssn ref	ssn no	ific no
107500340	AFS		ZA-002	N-GSO	N	PART	2	2630
108500677	ALG		ALSAT-2	N-GSO	N	PART	2	2634
106540531	ARG		ARSAT-1	-81.0	A	API/A	4349	2582
96500487	ARG		NAHUEL-C	-72.0	N	PART	2	2586
105500330	ARG		P-P-SAT-1	-81.0	N	PART	2	2625
106540007	ARG		P-P-SAT-2	-48.0	A	API/A	3994	2563
106540008	ARG		P-P-SAT-3	-59.5	A	API/A	3995	2563
106540009	ARG		P-P-SAT-4	-87.0	A	API/A	3996	2563
102520043	ARG		TANGO-B	-48.0	C	CR/C	1078	2556
103520193	ARG		TANGO-C	-76.0	C	CR/C	1336	2570
107500106	ARG		LATINSAT	N-GSO	N	PART	2	2633
99500173	ARG		SAC-C	N-GSO	N	PART	2	2573
107540960	ARG		SAC-D	N-GSO	A	API/A	4723	2634
105500571	ARG		SAOCOM	N-GSO	N	PART	2	2607
90500092	ARS	ARB	ARABSAT 1-B	26.0	N	PART	2	2270
91910032	ARS	ARB	ARABSAT 1-C	31.0	N	PART	2	2068
107520008	ARS	ARB	ARABSAT 1-C-KU	31.0	C	CR/C	1951	2596
97500434	ARS	ARB	ARABSAT 2-A	30.5	N	PART	2	2431
97500433	ARS	ARB	ARABSAT 2-B	26.0	N	PART	2	2431
102500474	ARS	ARB	ARABSAT 2-C	20.0	N	PART	2	2518
105520072	ARS	ARB	ARABSAT 5A-30.5E	30.5	C	CR/C	1626	2607
105520073	ARS	ARB	ARABSAT 5B-26E	26.0	C	CR/C	1627	2607
105520074	ARS	ARB	ARABSAT 5C-20E	20.0	C	CR/C	1628	2607
107540315	ARS	ARB	ARABSAT 5D-17E	17.0	A	API/A	4649	2599
105520075	ARS	ARB	ARABSAT 6D-7.5E	7.5	C	CR/C	1629	2607
105520076	ARS	ARB	ARABSAT 6E-34.5E	34.5	C	CR/C	1630	2607
105520077	ARS	ARB	ARABSAT 6F-44.5E	44.5	C	CR/C	1631	2607
102520295	ARS	ARB	ARABSAT-EXT-C2	26.0	C	CR/C	1109	2504
98520243	ARS	ARB	ARABSAT-KA-26E	26.0	C	AR11/C	3377	2418
98520245	ARS	ARB	ARABSAT-KA-30.5E	30.5	C	AR11/C	3380	2418
98520672	ARS	ARB	ARABSAT-KU-26E	26.0	C	CR/C	1260	2524
106520064	ARS		SAUDI-FMSS-5	52.0	C	CR/C	1809	2603
106520065	ARS		SAUDI-FMSS-6	20.1	C	CR/C	1810	2603
106520066	ARS		SAUDI-FMSS-7	29.0	C	CR/C	1811	2603
106520067	ARS		SAUDI-FMSS-8	41.0	C	CR/C	1812	2603
106520068	ARS		STRATSAT-4	29.0	C	CR/C	1813	2603
106520069	ARS		STRATSAT-5	41.0	C	CR/C	1814	2603
106520070	ARS		STRATSAT-6	73.5	C	CR/C	1815	2603
107520270	ARS		SAUDISAT-1C	N-GSO	C	CR/C	2114	2635
107520267	ARS		SAUDISAT-2	N-GSO	C	CR/C	2115	2635

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108540356	AUS		ADF 152E GOVR	152.0	A	API/A	5232	2625
102520061	AUS		ADF 156E GOV	156.0	C	CR/C	1021	2555
108540357	AUS		ADF 160E GOVR	160.0	A	API/A	5233	2625
108540358	AUS		ADF 164E GOVR	164.0	A	API/A	5234	2625
105520352	AUS		ADF WEST-1	80.0	C	CR/C	1732	2627
105520353	AUS		ADF WEST-2	88.0	C	CR/C	1733	2627
105520354	AUS		ADF WEST-3	95.0	C	CR/C	1734	2627
105520355	AUS		ADF WEST-4	96.5	C	CR/C	1735	2627
105520356	AUS		ADF WEST-5	104.0	C	CR/C	1736	2635
105520357	AUS		ADF WEST-6	108.5	C	CR/C	1737	2627
99500259	AUS		ASIABSS	105.0	N	PART	2	2521
107520025	AUS		ASIABSS-B	105.0	C	CR/C	1929	2618
106520085	AUS		AUSDSB	151.5	C	CR/C	1828	2606
92500065	AUS		AUSSAT A 152E	152.0	N	PART	2	2191
100500344	AUS		AUSSAT A 152E PAC	152.0	N	PART	2	2630
90500082	AUS		AUSSAT A 156E	156.0	N	PART	2	
90500083	AUS		AUSSAT A 160E	160.0	N	PART	2	2630
92500067	AUS		AUSSAT A 160E PAC	160.0	N	PART	2	2630
90500084	AUS		AUSSAT A 164E	164.0	N	PART	2	
90500087	AUS		AUSSAT A 164E PAC	164.0	N	PART	2	
97520030	AUS		AUSSAT B 152E	152.0	C	CR/C	225	2472
102500305	AUS		AUSSAT B 152E MOB	152.0	N	PART	2	2546
102500306	AUS		AUSSAT B 152E MXL	152.0	N	PART	2	2546
92500025	AUS		AUSSAT B 156E	156.0	N	PART	2	2623
92500026	AUS		AUSSAT B 156E MC	156.0	N	PART	2	2623
100500278	AUS		AUSSAT B 156E MOB	156.0	N	PART	2	2457
102500358	AUS		AUSSAT B 156E MXL	156.0	N	PART	2	2533
92500027	AUS		AUSSAT B 156E NZ	156.0	N	PART	2	2623
94500530	AUS		AUSSAT B 156E R	156.0	N	PART	2	2290
92500028	AUS		AUSSAT B 156E S	156.0	N	PART	2	2197
92500021	AUS		AUSSAT B 160E	160.0	N	PART	2	2635
92500022	AUS		AUSSAT B 160E MC	160.0	N	PART	2	2615
101500008	AUS		AUSSAT B 160E MOB	160.0	N	PART	2	2500
102500359	AUS		AUSSAT B 160E MXL	160.0	N	PART	2	2533
92500023	AUS		AUSSAT B 160E NZ	160.0	N	PART	2	2635
94500531	AUS		AUSSAT B 160E R	160.0	N	PART	2	2290
92500024	AUS		AUSSAT B 160E S	160.0	N	PART	2	2613
100500300	AUS		AUSSAT B 164E	164.0	N	PART	2	2623
103500076	AUS		AUSSAT B 164E MOB	164.0	N	PART	2	2525
99500096	AUS		AUSSAT B 164E MXL	164.0	N	PART	2	2577
104500284	AUS		AUSSAT C 156E FSS	156.0	N	PART	2	2607
104500282	AUS		AUSSAT C 156E GOV	156.0	N	PART	2	2599
107520068	AUS		AUSSAT C 156E GOVR	156.0	C	CR/C	2015	2621
101520395	AUS		AUSSAT D 156E FSS	156.0	C	CR/C	1004	2554
101520396	AUS		AUSSAT D 160E FSS	160.0	C	CR/C	1005	2554
108540349	AUS		DDSP-104E	104.0	A	API/A	5225	2625
108540350	AUS		DDSP-108.5E	108.5	A	API/A	5226	2625
104500279	AUS		DEF-R-SAT-1A	82.0	N	PART	2	2634
104500280	AUS		DEF-R-SAT-2A	72.0	N	PART	2	2634
104500281	AUS		DEF-R-SAT-3A	93.0	N	PART	2	2634

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
104500293	AUS		DEF-R-SAT-4B 121.0E	121.0	N	PART	2	2631
108540542	AUS		KACOMM-1	159.0	A	API/A	5338	2633
108540543	AUS		KACOMM-2	155.0	A	API/A	5339	2633
108540544	AUS		KACOMM-3	149.0	A	API/A	5340	2633
108540545	AUS		KACOMM-4	136.0	A	API/A	5341	2633
103520391	AUS		PAS-ENDEAVOUR-115W	-115.0	C	CR/C	1320	2569
103520392	AUS		PAS-ENDEAVOUR-115WKA	-115.0	C	CR/C	1321	2569
103520170	AUS		PAS-ENDEAVOUR-119W	-119.0	C	CR/C	1195	2560
103520179	AUS		PAS-ENDEAVOUR-119WKA	-119.0	C	CR/C	1203	2560
103520164	AUS		PAS-ENDEAVOUR-132E	132.0	C	CR/C	1196	2560
103520173	AUS		PAS-ENDEAVOUR-132EKA	132.0	C	CR/C	1204	2560
103520165	AUS		PAS-ENDEAVOUR-166E	166.0	C	CR/C	1197	2560
103520174	AUS		PAS-ENDEAVOUR-166EKA	166.0	C	CR/C	1205	2560
103520162	AUS		PAS-ENDEAVOUR-2.5E	2.5	C	CR/C	1190	2560
103520171	AUS		PAS-ENDEAVOUR-2.5EKA	2.5	C	CR/C	1198	2560
103520166	AUS		PAS-ENDEAVOUR-45W	-45.0	C	CR/C	1191	2560
103520175	AUS		PAS-ENDEAVOUR-45WKA	-45.0	C	CR/C	1199	2560
103520163	AUS		PAS-ENDEAVOUR-68.5E	68.5	C	CR/C	1192	2517
103520172	AUS		PAS-ENDEAVOUR68.5EKA	68.5	C	CR/C	1200	2560
103520167	AUS		PAS-ENDEAVOUR-74W	-74.0	C	CR/C	1193	2560
103520176	AUS		PAS-ENDEAVOUR-74WKA	-74.0	C	CR/C	1201	2560
105520100	AUS		PAS-ENDEAVOUR-81W	-81.0	C	CR/C	1609	2586
103520168	AUS		PAS-ENDEAVOUR-91W	-91.0	C	CR/C	1194	2560
103520177	AUS		PAS-ENDEAVOUR-91WKA	-91.0	C	CR/C	1202	2560
105520110	AUS		ROEBUCK-A-95W	-95.0	C	CR/C	1616	2586
105520111	AUS		ROEBUCK-B-113W	-113.0	C	CR/C	1617	2586
105520112	AUS		ROEBUCK-C-87W	-87.0	C	CR/C	1618	2586
105520113	AUS		ROEBUCK-D-107.3W	-107.3	C	CR/C	1619	2586
105520114	AUS		ROEBUCK-E-64E	64.0	C	CR/C	1613	2586
102520134	AUS		ROEBUCK-E-64E-KA	64.0	C	CR/C	1085	2502
105520115	AUS		ROEBUCK-F-137.9E	137.9	C	CR/C	1614	2586
102520135	AUS		ROEBUCK-F-137.9E-KA	137.9	C	CR/C	1086	2502
105520116	AUS		ROEBUCK-G-154E	154.0	C	CR/C	1615	2586
101520368	AUS		S2COM	N-GSO	C	CR/C	1039	2594
106520166	AUS		SIRION	N-GSO	C	CR/C	1904	2622
107540015	AZE		AZERSAT 12	12.0	A	API/A	4467	2590
107540016	AZE		AZERSAT 17	17.0	A	API/A	4468	2590
107540017	AZE		AZERSAT 22	22.0	A	API/A	4469	2590
107540018	AZE		AZERSAT 23.2	23.2	A	API/A	4470	2590
107540019	AZE		AZERSAT 27	27.0	A	API/A	4471	2590
107540020	AZE		AZERSAT 32	32.0	A	API/A	4472	2590
107540021	AZE		AZERSAT 37	37.0	A	API/A	4473	2590
107540023	AZE		AZERSAT 47	47.0	A	API/A	4475	2590
107540024	AZE		AZERSAT 52	52.0	A	API/A	4476	2590
107540025	AZE		AZERSAT 57	57.0	A	API/A	4477	2590
107540014	AZE		AZERSAT 7	7.0	A	API/A	4466	2590
107540022	AZE		AZERSAT A	43.2	A	API/A	4474	2635
107540038	AZE		AZERSAT LSX 12	12.0	A	API/A	4487	2590
107540039	AZE		AZERSAT LSX 17	17.0	A	API/A	4488	2590
107540040	AZE		AZERSAT LSX 22	22.0	A	API/A	4489	2590

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107540041	AZE		AZERSAT LSX 23.2	23.2	A	API/A	4490	2590
107540042	AZE		AZERSAT LSX 27	27.0	A	API/A	4491	2590
107540043	AZE		AZERSAT LSX 32	32.0	A	API/A	4492	2590
107540044	AZE		AZERSAT LSX 37	37.0	A	API/A	4493	2590
107540045	AZE		AZERSAT LSX 42	42.0	A	API/A	4494	2590
107540046	AZE		AZERSAT LSX 47	47.0	A	API/A	4495	2590
107540047	AZE		AZERSAT LSX 52	52.0	A	API/A	4496	2590
107540048	AZE		AZERSAT LSX 57	57.0	A	API/A	4497	2590
107540037	AZE		AZERSAT LSX 7	7.0	A	API/A	4486	2590
102500255	B		B-SAT E	-63.0	N	PART	2	2597
107500035	B		B-SAT I	-63.0	N	PART	2	2618
104500559	B		B-SAT P	-84.0	N	PART	2	2633
103520303	B		B-SAT-1C	-70.0	C	CR/C	1289	2568
103520317	B		B-SAT-1D	-77.5	C	CR/C	1292	2568
103520325	B		B-SAT-1E	-87.0	C	CR/C	1295	2568
103520304	B		B-SAT-1F	-92.0	C	CR/C	1291	2568
104520340	B		B-SAT-1G	-80.0	C	CR/C	1462	2580
104520004	B		B-SAT-1J	-68.0	C	CR/C	1402	2575
104520006	B		B-SAT-1N	-84.0	C	CR/C	1413	2576
107520289	B		B-SAT-1O	-10.0	C	CR/C	2139	2619
106540549	B		B-SAT-1P	-84.0	A	API/A	4365	2583
105520001	B		B-SAT-1R	-65.0	C	CR/C	1566	2556
106540597	B		B-SAT-1S	-75.0	A	API/A	4371	2592
106520232	B		B-SAT-1W	-48.0	C	CR/C	1913	2609
104500485	B		B-SAT-Q	-61.0	N	PART	2	2608
97520364	B		B-SAT-R	-65.0	C	CR/C	405	2582
99520369	B		B-SAT-S	-75.0	C	CR/C	191	2581
90500018	B		SBTS A2	-65.0	N	PART	2	2499
101500552	B		SBTS B1	-70.0	N	PART	2	2512
101500553	B		SBTS B2	-65.0	N	PART	2	2512
101500554	B		SBTS B3	-61.0	N	PART	2	2525
103500244	B		SBTS B4	-92.0	N	PART	2	2581
106500431	B		SBTS C1	-70.0	N	PART	2	2605
98500054	B		SISCOMIS-2	-65.0	N	PART	2	2516
98500055	B		SISCOMIS-3	-70.0	N	PART	2	2516
103520251	B		SISCOMIS-4	-75.0	C	CR/C	1306	2568
103520252	B		SISCOMIS-5	-77.5	C	CR/C	1307	2568
103520253	B		SISCOMIS-6	-84.0	C	CR/C	1308	2568
106540172	B		SISCOMIS-7	-92.0	A	API/A	4123	2575
99500244	B		MECB/SCD-2	N-GSO	N	PART	2	2570
92500233	B		MECB-S1	N-GSO	N	PART	2	2632
100500350	B		SACI-1	N-GSO	N	PART	2	2570
90501081	BEL		SATCOM PHASE-3	-18.0	N	PART	2	2630
96500414	BEL		SATCOM-4	-17.8	N	PART	2	2390
98520053	BEL		SATCOM-4/10E	10.0	C	CR/C	2092	2613
98520054	BEL		SATCOM-4/20.2W	-20.2	C	AR11/C	3308	2404
101520052	BEL		SATCOM-5	-17.8	C	CR/C	796	2543
102520249	BEL		SATCOM-5/10E	10.0	C	CR/C	1148	2559
102520250	BEL		SATCOM-5/20.2W	-20.2	C	CR/C	1149	2559
101500190	BLR	IK	INTERBELAR-2	75.0	N	PART	2	2462

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
104520224	BLR	IK	INTERSPUTNIK-1.2E-CK	1.2	C	CR/C	1507	2583
98520471	BLR	IK	INTERSPUTNIK-114.5EV	114.5	C	CR/C	1780	2574
106520002	BLR	IK	INTERSPUTNIK-153.5E2	153.5	C	CR/C	1797	2601
105500238	BLR	IK	INTERSPUTNIK-153.5EQ	153.5	N	PART	2	2619
98520468	BLR	IK	INTERSPUTNIK-153.5EV	153.5	C	CR/C	1779	2574
102520114	BLR	IK	INTERSPUTNIK-16W-2C	-16.0	C	CR/C	1081	2502
98520477	BLR	IK	INTERSPUTNIK-16W-V	-16.0	C	CR/C	1771	2574
103500127	BLR	IK	INTERSPUTNIK-17E	17.0	N	PART	2	2619
108540491	BLR	IK	INTERSPUTNIK-17E-2	17.0	A	API/A	5324	2631
103520288	BLR	IK	INTERSPUTNIK-17E-CK	17.0	C	CR/C	1188	2560
98520478	BLR	IK	INTERSPUTNIK-17E-V	17.0	C	CR/C	1773	2574
98520469	BLR	IK	INTERSPUTNIK-23W-V	-23.0	C	CR/C	1772	2574
103500238	BLR	IK	INTERSPUTNIK-27E	27.0	N	PART	2	2619
105520234	BLR	IK	INTERSPUTNIK-27E-CK	27.0	C	CR/C	1762	2600
105500293	BLR	IK	INTERSPUTNIK-27E-Q	27.0	N	PART	2	2622
98520470	BLR	IK	INTERSPUTNIK-27E-V	27.0	C	CR/C	1775	2574
98520476	BLR	IK	INTERSPUTNIK-32.5W-V	-32.5	C	CR/C	1769	2574
103500095	BLR	IK	INTERSPUTNIK-3W	-3.0	N	PART	2	2619
105520237	BLR	IK	INTERSPUTNIK-3W-CK	-3.0	C	CR/C	1761	2600
105500292	BLR	IK	INTERSPUTNIK-3W-Q	-3.0	N	PART	2	2621
98520472	BLR	IK	INTERSPUTNIK-3W-V	-3.0	C	CR/C	1774	2574
108540184	BLR	IK	INTERSPUTNIK-47.5W	-47.5	A	API/A	5108	2634
108540185	BLR	IK	INTERSPUTNIK-50.5E	50.5	A	API/A	5109	2619
98520475	BLR	IK	INTERSPUTNIK-59.5E-V	59.5	C	CR/C	1776	2574
98520464	BLR	IK	INTERSPUTNIK-64.5E-V	64.5	C	CR/C	1777	2574
98520465	BLR	IK	INTERSPUTNIK-67.5E-V	67.5	C	CR/C	1778	2574
98520473	BLR	IK	INTERSPUTNIK-6W-V	-6.0	C	CR/C	1770	2574
105520235	BLR	IK	INTERSPUTNIK-75E-CK	75.0	C	CR/C	1763	2600
105500291	BLR	IK	INTERSPUTNIK-75E-Q	75.0	N	PART	2	2620
98520467	BLR	IK	INTERSPUTNIK-75E-V	75.0	C	CR/C	1768	2574
98520474	BLR	IK	INTERSPUTNIK-83W-V	-83.0	C	CR/C	1766	2574
98520466	BLR	IK	INTERSPUTNIK-97W-V	-97.0	C	CR/C	1767	2574
105520293	BLR	IK	INTERSPUTNIK-98.5ECK	98.5	C	CR/C	1764	2600
105540803	BLR		BELKA	N-GSO	A	API/A	3925	2559
104520112	BRU		LARKSAT-IORR	64.0	C	CR/C	1458	2580
90500273	CAN		ANIK C-1	-106.8	C	AR11/C	1617	2423
90500178	CAN		ANIK D-2	-114.9	N	PART	2	2499
93500182	CAN		ANIK E-A	-107.3	N	PART	2	2118
93500184	CAN		ANIK E-B	-111.1	N	PART	2	2118
102500408	CAN		ANIK E-D	-118.7	N	PART	2	2564
106500142	CAN		ANIK-F1	-107.3	N	PART	2	2628
105500032	CAN		ANIK-F2	-111.1	N	PART	2	2605
105500424	CAN		CAN-BSS1 TTAC	-82.0	N	PART	2	2628
105520328	CAN		CAN-BSS10	-91.0	C	CR/C	1716	2595
102520176	CAN		CAN-BSS-103.0	-103.0	C	CR/C	1127	2557
102520179	CAN		CAN-BSS-107.3	-107.3	C	CR/C	1128	2557
105520329	CAN		CAN-BSS11	-103.0	C	CR/C	1717	2595
102520180	CAN		CAN-BSS-111.1	-111.1	C	CR/C	1129	2557
102520181	CAN		CAN-BSS-114.9	-114.9	C	CR/C	1130	2557
102520182	CAN		CAN-BSS-118.7	-118.7	C	CR/C	1131	2557

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105520330	CAN		CAN-BSS12	-107.3	C	CR/C	1718	2595
104520077	CAN		CAN-BSS-129.0	-129.0	C	CR/C	1398	2575
105520331	CAN		CAN-BSS13	-113.0	C	CR/C	1719	2595
104520075	CAN		CAN-BSS-138.0	-138.0	C	CR/C	1401	2575
105520332	CAN		CAN-BSS14	-118.7	C	CR/C	1720	2595
105520333	CAN		CAN-BSS15	-129.0	C	CR/C	1721	2595
106520092	CAN		CAN-BSS16	-72.5	C	CR/C	1831	2603
106520206	CAN		CAN-BSS17	-77.0	C	CR/C	1905	2609
106520207	CAN		CAN-BSS18	-99.0	C	CR/C	1906	2609
106520208	CAN		CAN-BSS19	-103.0	C	CR/C	1907	2609
105500425	CAN		CAN-BSS2 TTAC	-91.1	N	PART	2	2628
106540131	CAN		CAN-BSS20	-109.2	A	API/A	4081	2572
107520159	CAN		CAN-BSS21	-111.1	C	CR/C	2058	2625
106540133	CAN		CAN-BSS22	-138.0	A	API/A	4083	2572
107540608	CAN		CAN-BSS23	-71.0	A	API/A	4760	2606
108520018	CAN		CAN-BSS24	-72.5	C	CR/C	2173	2623
107540610	CAN		CAN-BSS25	-75.0	A	API/A	4762	2606
107540611	CAN		CAN-BSS26	-79.0	A	API/A	4763	2606
108520019	CAN		CAN-BSS27	-82.0	C	CR/C	2174	2623
107540613	CAN		CAN-BSS28	-83.0	A	API/A	4765	2606
108520020	CAN		CAN-BSS29	-86.5	C	CR/C	2175	2623
107540615	CAN		CAN-BSS30	-87.0	A	API/A	4767	2606
108520021	CAN		CAN-BSS31	-91.0	C	CR/C	2176	2623
107540617	CAN		CAN-BSS32	-95.0	A	API/A	4769	2606
107540618	CAN		CAN-BSS33	-99.0	A	API/A	4770	2606
107540619	CAN		CAN-BSS34	-103.0	A	API/A	4771	2606
107540620	CAN		CAN-BSS35	-107.0	A	API/A	4772	2606
108520022	CAN		CAN-BSS36	-107.3	C	CR/C	2177	2623
107540622	CAN		CAN-BSS37	-109.2	A	API/A	4774	2606
107540623	CAN		CAN-BSS38	-111.0	A	API/A	4775	2606
107540624	CAN		CAN-BSS39	-115.0	A	API/A	4776	2606
108520023	CAN		CAN-BSS40	-118.7	C	CR/C	2178	2623
107540626	CAN		CAN-BSS41	-119.0	A	API/A	4778	2606
107540627	CAN		CAN-BSS42	-123.0	A	API/A	4779	2606
107540628	CAN		CAN-BSS43	-127.0	A	API/A	4780	2606
107540629	CAN		CAN-BSS44	-129.0	A	API/A	4781	2606
107540630	CAN		CAN-BSS45	-131.0	A	API/A	4782	2606
107540631	CAN		CAN-BSS46	-135.0	A	API/A	4783	2606
107540632	CAN		CAN-BSS47	-138.0	A	API/A	4784	2606
107540633	CAN		CAN-BSS48	-139.0	A	API/A	4785	2606
104520076	CAN		CAN-BSS-72.5	-72.5	C	CR/C	1397	2575
102520172	CAN		CAN-BSS-78.0	-78.0	C	CR/C	1121	2557
105520326	CAN		CAN-BSS8	-82.0	C	CR/C	1714	2595
102520177	CAN		CAN-BSS-82.0	-82.0	C	CR/C	1122	2557
102520173	CAN		CAN-BSS-85.0	-86.5	C	CR/C	1123	2557
105520327	CAN		CAN-BSS9	-86.5	C	CR/C	1715	2595
102520178	CAN		CAN-BSS-91.0	-91.0	C	CR/C	1124	2557
102520174	CAN		CAN-BSS-95.0	-95.0	C	CR/C	1125	2557
102520175	CAN		CAN-BSS-99.0	-99.0	C	CR/C	1126	2557
108540258	CAN		CANSAT (107.3W)-KAV	-107.3	A	API/A	5142	2626

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108540260	CAN		CANSAT (118.7W)-KAV	-118.7	A	API/A	5144	2626
108540254	CAN		CANSAT (72.5W)-KAV	-72.5	A	API/A	5138	2626
108540255	CAN		CANSAT (82W)-KAV	-82.0	A	API/A	5139	2626
108540256	CAN		CANSAT (86.5W)-KAV	-86.5	A	API/A	5140	2626
108540257	CAN		CANSAT (91W)-KAV	-91.0	A	API/A	5141	2626
104500105	CAN		CANSAT KA-2	-91.0	N	PART	2	2604
104500106	CAN		CANSAT KA-3	-82.0	N	PART	2	2604
96520171	CAN		CANSAT KA-4	-111.1	C	CR/C	416	2535
96520172	CAN		CANSAT KA-5	-118.7	C	AR11/C	2683	2434
100520175	CAN		CANSAT KA-5X	-118.7	C	CR/C	439	2535
101520036	CAN		CANSAT-17	-114.9	C	CR/C	827	2583
101520037	CAN		CANSAT-18	-118.7	C	CR/C	833	2583
103520282	CAN		CANSAT-19	-109.2	C	CR/C	1262	2598
106520035	CAN		CANSAT-20	-129.0	C	CR/C	1795	2576
104520122	CAN		CANSAT-22	-118.7	C	CR/C	1424	2585
104520234	CAN		CANSAT-23	-107.3	C	CR/C	1494	2583
105520334	CAN		CANSAT-24	-111.1	C	CR/C	1710	2595
106520200	CAN		CANSAT-27	-111.1	C	CR/C	1902	2589
100520280	CAN		CANSAT-2A	-82.0	C	CR/C	519	2483
100520281	CAN		CANSAT-2B	-70.5	C	CR/C	520	2483
105520099	CAN		CANSAT-30	-91.0	C	CR/C	1608	2586
105520292	CAN		CANSAT-31	-82.0	C	CR/C	1680	2591
105520359	CAN		CANSAT-33	-109.2	C	CR/C	1751	2598
105520360	CAN		CANSAT-34	-107.3	C	CR/C	1752	2598
106520075	CAN		CANSAT-35	-114.9	C	CR/C	1817	2603
106540109	CAN		CANSAT-36	-118.7	A	API/A	4065	2571
106540110	CAN		CANSAT-37	-114.9	A	API/A	4066	2571
106540111	CAN		CANSAT-38	-111.1	A	API/A	4067	2571
106540112	CAN		CANSAT-39	-109.2	A	API/A	4068	2571
106540113	CAN		CANSAT-40	-107.3	A	API/A	4069	2571
106540114	CAN		CANSAT-41	-91.1	A	API/A	4070	2571
106540115	CAN		CANSAT-42	-82.0	A	API/A	4071	2571
106540116	CAN		CANSAT-43	-72.7	A	API/A	4072	2571
106540117	CAN		CANSAT-44	-129.0	A	API/A	4073	2571
106540160	CAN		CANSAT-45	-138.0	A	API/A	4119	2574
106540535	CAN		CANSAT-46	-72.5	A	API/A	4353	2582
106540536	CAN		CANSAT-47	-91.0	A	API/A	4354	2582
108520029	CAN		CANSAT-48	-91.0	C	CR/C	2231	2631
108520030	CAN		CANSAT-49	-109.2	C	CR/C	2232	2631
108520031	CAN		CANSAT-50	-107.3	C	CR/C	2233	2631
108520032	CAN		CANSAT-51	-111.1	C	CR/C	2234	2631
108540192	CAN		CANSAT-52	-129.0	A	API/A	5115	2619
108540193	CAN		CANSAT-53	-118.7	A	API/A	5116	2619
108540194	CAN		CANSAT-54	-114.9	A	API/A	5117	2619
108540195	CAN		CANSAT-55	-111.1	A	API/A	5118	2619
108540196	CAN		CANSAT-56	-109.2	A	API/A	5119	2619
108540197	CAN		CANSAT-57	-107.3	A	API/A	5120	2619
108540198	CAN		CANSAT-58	-91.1	A	API/A	5121	2619
108540199	CAN		CANSAT-59	-82.0	A	API/A	5122	2619



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108540200	CAN		CANSAT-60	-72.5	A	API/A	5123	2619
104520156	CAN		LARKSAT-AOR2R	-12.0	C	CR/C	1451	2579
104520158	CAN		LARKSAT-NAR	-86.0	C	CR/C	1453	2579
104520157	CAN		LARKSAT-PORR	180.0	C	CR/C	1452	2579
101500597	CAN		MSAT	-106.5	N	PART	2	2559
103500447	CAN		MSAT(30B)	-106.5	N	PART	2	2555
96500372	CAN		MSAT-30B	-106.5	N	PART	2	2428
107540825	CAN		ADS	N-GSO	A	API/A	4926	2634
105500390	CAN		CANX-2	N-GSO	N	PART	2	2610
104520231	CAN		CASCADE	N-GSO	C	CR/C	1490	2599
108520069	CAN		CASCADE-CX	N-GSO	C	CR/C	2172	2623
105500141	CAN		CASSIOPE	N-GSO	N	PART	2	2607
108540431	CAN		JC2SAT	N-GSO	A	API/A	5274	2628
101500359	CAN		MOST-1	N-GSO	N	PART	2	2520
107500065	CAN		NEOSSAT	N-GSO	N	PART	2	2610
108540240	CAN		NTS	N-GSO	A	API/A	5134	2623
95500566	CAN		RADARSAT-1A	N-GSO	N	PART	2	2242
103500016	CAN		RADARSAT-2C	N-GSO	N	PART	2	2617
103500017	CAN		RADARSAT-2D	N-GSO	N	PART	2	2569
107500015	CAN		RADARSAT-2E	N-GSO	N	PART	2	2610
107500016	CAN		RADARSAT-2F	N-GSO	N	PART	2	2610
107500007	CAN		RADARSAT-3A	N-GSO	N	PART	2	2618
101500360	CAN		SCISAT-1	N-GSO	N	PART	2	2510
105500702	CHN		APSTAR-1	131.0	N	PART	2	2583
102520018	CHN		APSTAR-102E	102.8	C	CR/C	1062	2556
102520019	CHN		APSTAR-131E	131.8	C	CR/C	1063	2500
102520020	CHN		APSTAR-140E	140.0	C	CR/C	1064	2500
102520021	CHN		APSTAR-142E	142.0	C	CR/C	1065	2500
108540426	CHN		APSTAR-142E-R	142.0	A	API/A	5269	2627
106500065	CHN		APSTAR-2	134.0	N	PART	2	2622
105500690	CHN		APSTAR-4	76.5	N	PART	2	2579
107500032	CHN		APSTAR-5-KU	138.0	N	PART	2	2609
102520013	CHN		APSTAR-76E	76.5	C	CR/C	1057	2500
108540425	CHN		APSTAR-76E-R	76.5	A	API/A	5268	2627
102520015	CHN		APSTAR-89E	89.5	C	CR/C	1059	2500
102520016	CHN		APSTAR-92E	92.2	C	CR/C	1060	2500
102520017	CHN		APSTAR-96E	96.0	C	CR/C	1061	2500
91910135	CHN		ASIASAT-1	105.5	N	PART	2	2582
101540118	CHN		ASIASAT1-140E-A	140.0	A	API/A	1903	2447
98500161	CHN		ASIASAT-A	122.0	N	PART	2	2423
99500194	CHN		ASIASAT-AK	122.0	N	PART	2	2481
104500082	CHN		ASIASAT-AK1	122.0	N	PART	2	2524
96520531	CHN		ASIASAT-AKS	122.0	C	CR/C	2004	2599
95520254	CHN		ASIASAT-AKX	122.0	C	AR11/C	2709	2407
105520372	CHN		ASIASAT-AKZ	122.2	C	CR/C	1753	2598
98500162	CHN		ASIASAT-B	116.0	N	PART	2	2427
99500281	CHN		ASIASAT-CK	105.5	N	PART	2	2483
100500227	CHN		ASIASAT-CK1	105.5	N	PART	2	2532
96520533	CHN		ASIASAT-CKS	105.5	C	CR/C	2005	2599
95520203	CHN		ASIASAT-CKX	105.5	C	AR11/C	2707	2407

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105520373	CHN		ASIASAT-CKZ	105.5	C	CR/C	1754	2598
100500365	CHN		ASIASAT-E	100.5	N	PART	2	2443
100500387	CHN		ASIASAT-EK1	100.5	N	PART	2	2490
96520535	CHN		ASIASAT-EKS	100.5	C	CR/C	2006	2599
104500426	CHN		ASIASAT-EKX	100.5	N	PART	2	2604
105520374	CHN		ASIASAT-EKZ	100.5	C	CR/C	1755	2598
107500033	CHN		CHINASAT-1	87.5	N	PART	2	2609
102520003	CHN		CHINASAT-115.5E	115.5	C	CR/C	1028	2570
105500654	CHN		CHINASAT-125E	125.0	N	PART	2	2625
105500649	CHN		CHINASAT-126.1E	126.1	N	PART	2	2627
102520112	CHN		CHINASAT-134E	134.0	C	CR/C	1145	2506
102520113	CHN		CHINASAT-138E	138.0	C	CR/C	1146	2506
105520080	CHN		CHINASAT-163E	163.0	C	CR/C	1588	2558
104500609	CHN		CHINASAT-2	110.5	N	PART	2	2617
102500025	CHN		CHINASAT-22	98.0	N	PART	2	2556
101500502	CHN		CHINASAT-3	98.0	N	PART	2	2575
95520151	CHN		CHINASAT-31	80.0	C	AR11/C	2674	2269
95520152	CHN		CHINASAT-32	140.0	C	AR11/C	2675	2269
95520153	CHN		CHINASAT-33	110.5	C	CR/C	855	2545
99520524	CHN		CHINASAT-34A	79.6	C	CR/C	343	2530
99520523	CHN		CHINASAT-34B	84.0	C	CR/C	344	2530
99520522	CHN		CHINASAT-35A	136.5	C	CR/C	345	2530
99520521	CHN		CHINASAT-35B	140.4	C	CR/C	346	2530
99520525	CHN		CHINASAT-35C	144.5	C	CR/C	347	2530
107500125	CHN		CHINASAT-4	130.0	N	PART	2	2619
97520383	CHN		CHINASAT-44	98.0	C	AR11/C	3244	2457
97520384	CHN		CHINASAT-45	101.5	C	AR11/C	3245	2457
105500289	CHN		CHINASAT-46	105.0	N	PART	2	2619
101520274	CHN		CHINASAT-49	125.0	C	CR/C	970	2550
105520383	CHN		CHINASAT-51.5E	51.5	C	CR/C	1701	2567
105500221	CHN		CHINASAT-6	110.5	N	PART	2	2554
104520105	CHN		CHINASAT-62	85.0	C	CR/C	1415	2576
104520107	CHN		CHINASAT-64	98.0	C	CR/C	1416	2576
104520108	CHN		CHINASAT-65	103.0	C	CR/C	1417	2576
101520028	CHN		CHINASAT-6KA	110.5	C	CR/C	803	2543
101544625	CHN		CHINASAT-71.5E	71.5	A	API/A	1966	2449
105500478	CHN		CHINASAT-92.2E	92.2	N	PART	2	2630
107540565	CHN		CHINASAT-B1	87.5	A	API/A	4746	2605
107540566	CHN		CHINASAT-B2	92.2	A	API/A	4747	2605
107540567	CHN		CHINASAT-B3	97.5	A	API/A	4748	2605
107540568	CHN		CHINASAT-B4	110.5	A	API/A	4749	2605
107540569	CHN		CHINASAT-B5	115.5	A	API/A	4750	2605
107540570	CHN		CHINASAT-B6	125.0	A	API/A	4751	2605
107540571	CHN		CHINASAT-B7	125.7	A	API/A	4752	2605
107540572	CHN		CHINASAT-B8	134.0	A	API/A	4753	2605
105540891	CHN		CHINASAT-GL1	51.5	A	API/A	3958	2562
105540912	CHN		CHINASAT-GL10	136.5	A	API/A	3979	2562
105540898	CHN		CHINASAT-GL11	137.0	A	API/A	3965	2562
105540899	CHN		CHINASAT-GL12	146.0	A	API/A	3966	2562
105540900	CHN		CHINASAT-GL13	152.0	A	API/A	3967	2562

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105540901	CHN		CHINASAT-GL14	157.0	A	API/A	3968	2562
105540902	CHN		CHINASAT-GL15	163.0	A	API/A	3969	2562
105540903	CHN		CHINASAT-GL16	-178.5	A	API/A	3970	2562
105540913	CHN		CHINASAT-GL17	105.0	A	API/A	3980	2562
105540892	CHN		CHINASAT-GL2	60.5	A	API/A	3959	2562
105540893	CHN		CHINASAT-GL3	71.7	A	API/A	3960	2562
105540894	CHN		CHINASAT-GL4	83.0	A	API/A	3961	2562
105540910	CHN		CHINASAT-GL5	88.5	A	API/A	3977	2562
105540895	CHN		CHINASAT-GL6	115.5	A	API/A	3962	2562
105540911	CHN		CHINASAT-GL7	125.0	A	API/A	3978	2562
105540896	CHN		CHINASAT-GL8	125.7	A	API/A	3963	2562
105540897	CHN		CHINASAT-GL9	126.1	A	API/A	3964	2562
105500655	CHN		CHINASAT-L1	134.0	N	PART	2	2625
104520267	CHN		CHINASAT-MSB1	71.7	C	CR/C	1492	2548
104520191	CHN		CHINASAT-MSB4	115.5	C	CR/C	1448	2603
104520192	CHN		CHINASAT-MSB5	125.0	C	CR/C	1449	2598
104520268	CHN		CHINASAT-MSB6	125.7	C	CR/C	1493	2590
107520164	CHN		CHINASAT-ROUTE1	51.5	C	CR/C	2061	2610
107540060	CHN		CHINASAT-ROUTE10	126.1	A	API/A	4518	2591
107540061	CHN		CHINASAT-ROUTE11	136.5	A	API/A	4519	2591
107540062	CHN		CHINASAT-ROUTE12	137.0	A	API/A	4520	2591
107540063	CHN		CHINASAT-ROUTE13	146.0	A	API/A	4521	2591
107540064	CHN		CHINASAT-ROUTE14	152.0	A	API/A	4522	2591
107520170	CHN		CHINASAT-ROUTE15	163.0	C	CR/C	2067	2610
107540066	CHN		CHINASAT-ROUTE16	-178.5	A	API/A	4524	2591
107540052	CHN		CHINASAT-ROUTE2	60.5	A	API/A	4510	2591
107520165	CHN		CHINASAT-ROUTE3	71.7	C	CR/C	2062	2610
107540054	CHN		CHINASAT-ROUTE4	83.0	A	API/A	4512	2591
107520166	CHN		CHINASAT-ROUTE5	92.2	C	CR/C	2063	2626
107520167	CHN		CHINASAT-ROUTE6	105.0	C	CR/C	2064	2626
107520168	CHN		CHINASAT-ROUTE7	115.5	C	CR/C	2065	2626
107520169	CHN		CHINASAT-ROUTE8	125.0	C	CR/C	2066	2626
107540059	CHN		CHINASAT-ROUTE9	125.7	A	API/A	4517	2591
104540409	CHN		CHNBSAT-101E	101.0	A	API/A	3248	2585
106520013	CHN		CHNBSAT-108E	108.5	C	CR/C	1848	2581
105520056	CHN		CHNBSAT-113E	113.2	C	CR/C	1564	2618
105520057	CHN		CHNBSAT-119E	119.0	C	CR/C	1565	2618
104540413	CHN		CHNBSAT-125E	125.0	A	API/A	3252	2585
107540144	CHN		CHNBSAT-G1-1	62.0	A	API/A	4583	2595
107540153	CHN		CHNBSAT-G1-10	119.0	A	API/A	4592	2595
107540154	CHN		CHNBSAT-G1-11	125.0	A	API/A	4593	2595
107540155	CHN		CHNBSAT-G1-12	129.0	A	API/A	4594	2595
107540156	CHN		CHNBSAT-G1-13	134.0	A	API/A	4595	2595
107540157	CHN		CHNBSAT-G1-14	139.0	A	API/A	4596	2595
107540145	CHN		CHNBSAT-G1-2	71.0	A	API/A	4584	2595
107540146	CHN		CHNBSAT-G1-3	80.0	A	API/A	4585	2595
107540147	CHN		CHNBSAT-G1-4	86.0	A	API/A	4586	2595
107540148	CHN		CHNBSAT-G1-5	92.2	A	API/A	4587	2595
107540149	CHN		CHNBSAT-G1-6	101.0	A	API/A	4588	2595
107540150	CHN		CHNBSAT-G1-7	108.5	A	API/A	4589	2595

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107540151	CHN		CHNBSAT-G1-8	113.2	A	API/A	4590	2595
107540152	CHN		CHNBSAT-G1-9	115.5	A	API/A	4591	2595
105520119	CHN		CHNSAT-130E	130.0	C	CR/C	1633	2633
105520120	CHN		CHNSAT-142E	142.5	C	CR/C	1634	2633
107540730	CHN		CHNSAT-2-130E	130.0	A	API/A	4796	2608
105520118	CHN		CHNSAT-72E	71.5	C	CR/C	1632	2633
103500418	CHN		COMPASS-110.5E	110.5	N	PART	2	2610
103500419	CHN		COMPASS-140E	140.0	N	PART	2	2610
105520009	CHN		COMPASS-160E	160.0	C	CR/C	1526	2588
103500416	CHN		COMPASS-58.75E	58.8	N	PART	2	2610
103500417	CHN		COMPASS-80E	80.0	N	PART	2	2610
103520039	CHN		CTDRS-1-77E	77.0	C	CR/C	1169	2513
103520040	CHN		CTDRS-1-80E	80.0	C	CR/C	1170	2513
103520041	CHN		CTDRS-1-87.5E	87.5	C	CR/C	1171	2513
103520042	CHN		CTDRS-1-94.5E	94.5	C	CR/C	1172	2513
107520175	CHN		CTDRS-2-167E	167.0	C	CR/C	2069	2610
106540523	CHN		CTDRS-2-168E	168.0	A	API/A	4504	2590
107520176	CHN		CTDRS-2-171E	171.0	C	CR/C	2070	2610
106540525	CHN		CTDRS-2-175.5E	175.5	A	API/A	4506	2590
107520177	CHN		CTDRS-2-176.8E	176.8	C	CR/C	2071	2610
106540517	CHN		CTDRS-2-61E	61.0	A	API/A	4498	2590
106540518	CHN		CTDRS-2-62.5E	62.5	A	API/A	4499	2590
106540519	CHN		CTDRS-2-65.5E	65.5	A	API/A	4500	2590
106540520	CHN		CTDRS-2-67E	67.0	A	API/A	4501	2590
106540521	CHN		CTDRS-2-71E	71.0	A	API/A	4502	2590
105500526	CHN		DFH-3A-OB	110.5	N	PART	2	2631
97520021	CHN		DFH-3A-OC	98.0	C	AR11/C	3078	2457
97520022	CHN		DFH-3A-OD	130.0	C	AR11/C	3079	2406
101500189	CHN		DFH-3-OA	125.0	N	PART	2	2592
101500503	CHN		DFH-3-OB	103.0	N	PART	2	2575
101500500	CHN		DFH-3-OC	87.5	N	PART	2	2625
106520239	CHN		DFH-3-OC M	87.5	C	CR/C	1937	2611
94520038	CHN		DFH-3-OD	115.5	C	CR/C	973	2495
95500597	CHN		DFH-3-OE	121.0	N	PART	2	2352
105500161	CHN		DFH-4-OA	125.0	N	PART	2	2623
97520047	CHN		DFH-4-OB	103.0	C	CR/C	1700	2566
97520049	CHN		DFH-4-OD	115.5	C	AR11/C	3083	2436
104520070	CHN		DFH-5-OD	115.5	C	CR/C	1399	2575
104500597	CHN		FY-2A	105.0	N	PART	2	2626
105500156	CHN		FY-2AS	105.0	N	PART	2	2617
105500157	CHN		FY-2B	86.5	N	PART	2	2617
105500158	CHN		FY-2BS	86.5	N	PART	2	2617
105500159	CHN		FY-2C	123.5	N	PART	2	2617
105500160	CHN		FY-2CS	123.5	N	PART	2	2617
108540386	CHN		FYMETSAT-4A-105E	105.0	A	API/A	5243	2625
108540387	CHN		FYMETSAT-4A-112E	112.0	A	API/A	5244	2625
108540388	CHN		FYMETSAT-4A-123.5E	123.5	A	API/A	5245	2625
108540389	CHN		FYMETSAT-4A-137E	137.0	A	API/A	5246	2625
108540380	CHN		FYMETSAT-4A-61E	61.0	A	API/A	5237	2625
108540381	CHN		FYMETSAT-4A-63E	63.0	A	API/A	5238	2625

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108540382	CHN		FYMETSAT-4A-67E	67.0	A	API/A	5239	2625
108540383	CHN		FYMETSAT-4A-79E	79.0	A	API/A	5240	2625
108540384	CHN		FYMETSAT-4A-86.5E	86.5	A	API/A	5241	2625
108540385	CHN		FYMETSAT-4A-98.5E	98.5	A	API/A	5242	2625
105520055	CHN		SINOSAT-3	97.5	C	CR/C	1560	2585
105520010	CHN		SINOSAT-3A	85.0	C	CR/C	1563	2585
105520378	CHN		SINOSAT-3B	126.0	C	CR/C	1765	2600
105520108	CHN		SINOSAT-3C	130.0	C	CR/C	1612	2586
106540073	CHN		SINOSAT-4A	85.0	A	API/A	4036	2570
106540074	CHN		SINOSAT-4C	130.0	A	API/A	4037	2570
106520145	CHN		SINOSAT-5	110.5	C	CR/C	1895	2609
106540076	CHN		SINOSAT-6	97.5	A	API/A	4039	2570
106520146	CHN		SINOSAT-7A	46.5	C	CR/C	1896	2609
106540078	CHN		SINOSAT-7B	176.0	A	API/A	4041	2570
104520079	CHN		SINOSAT-92.2E	92.2	C	CR/C	1405	2547
90500007	CHN		STW-1	125.0	N	PART	2	2256
101500504	CHN		STW-2	103.0	N	PART	2	2613
105500389	CHN		BLMIT-1	N-GSO	N	PART	2	2607
102500234	CHN		CBERS-1	N-GSO	N	PART	2	2570
105540790	CHN		CBERS-2	N-GSO	A	API/A	3921	2558
108540392	CHN		CBERS-3	N-GSO	A	API/A	5248	2626
106540058	CHN		CE-1	N-GSO	A	API/A	4029	2567
107540207	CHN		CHNMSSAT	N-GSO	A	API/A	4631	2598
103500420	CHN		COMPASS-H	N-GSO	N	PART	2	2596
103500421	CHN		COMPASS-M	N-GSO	N	PART	2	2596
103540922	CHN		COMPASS-MG	N-GSO	A	API/A	2997	2568
100500426	CHN		FY-1	N-GSO	N	PART	2	2570
106540159	CHN		FY-3	N-GSO	A	API/A	3981	2626
106540296	CHN		HJ-1-ABC	N-GSO	A	API/A	4282	2632
102500235	CHN		HY-1	N-GSO	N	PART	2	2570
108540253	CHN		MARS EXPLORER-1	N-GSO	A	API/A	5137	2628
108540424	CHN		MARS EXPLORER-1B	N-GSO	A	API/A	5267	2628
107540233	CHN		NUAA-1	N-GSO	A	API/A	4646	2612
108540410	CHN		SHENZHOU	N-GSO	A	API/A	5236	2632
103540887	CHN		TC-1	N-GSO	A	API/A	2984	2510
103540888	CHN		TC-2	N-GSO	A	API/A	2985	2510
108540411	CHN		TIANWANG	N-GSO	A	API/A	5265	2626
100543798	CHN		TSINGHUA-1	N-GSO	A	API/A	1233	2416
108540492	CHN		XW-1	N-GSO	A	API/A	5325	2632
90500492	CLM	ASA	SIMON BOLIVAR 2	-67.0	C	CR/C	415	2523
107540830	CLM		SATCOL 1A	-47.5	A	API/A	4927	2612
107540831	CLM		SATCOL 1B	-71.0	A	API/A	4928	2612
107540832	CLM		SATCOL 1C	-73.0	A	API/A	4929	2612
107540833	CLM		SATCOL 1D	-80.0	A	API/A	4930	2612
107540834	CLM		SATCOL 1E	-82.0	A	API/A	4931	2612
107540835	CLM		SATCOL 1F	-87.5	A	API/A	4932	2612
107540836	CLM		SATCOL 1G	-92.0	A	API/A	4933	2612
107540837	CLM		SATCOL 1H	-94.0	A	API/A	4934	2612
107540838	CLM		SATCOL 1I	-99.0	A	API/A	4935	2612
107540839	CLM		SATCOL 1J	-103.0	A	API/A	4936	2612

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107540840	CLM		SATCOL 1K	-105.0	A	API/A	4937	2612
107540841	CLM		SATCOL 1L	-109.3	A	API/A	4938	2612
107540842	CLM		SATCOL 1M	-111.0	A	API/A	4939	2612
107540843	CLM		SATCOL 1N	-119.8	A	API/A	4940	2612
107540844	CLM		SATCOL 1O	-121.0	A	API/A	4941	2612
107540235	CLM		SIMON BOLIVAR 2A	-67.0	A	API/A	4648	2598
102500521	CTI	RAS	RASCOM-1F	2.9	N	PART	1	2631
106500378	CTI	RAS	RASCOM-2F	2.9	N	PART	2	2631
98520120	CTI	RAS	RASCOM-A	-9.0	C	CR/C	335	2560
105520085	CTI	RAS	RASCOM-A2	-9.0	C	CR/C	1592	2586
98520121	CTI	RAS	RASCOM-B	14.0	C	CR/C	336	2560
105520086	CTI	RAS	RASCOM-B2	14.0	C	CR/C	1593	2586
98520122	CTI	RAS	RASCOM-C	5.5	C	CR/C	337	2560
105520087	CTI	RAS	RASCOM-C2	5.5	C	CR/C	1664	2563
94520105	CUB	IK	LATAMSAT-1	-83.0	C	CR/C	1176	2514
94520106	CUB	IK	LATAMSAT-2	-97.0	C	CR/C	1177	2514
108520196	CYP		KYPROS-APHRODITE	90.0	C	CR/C	2279	2635
108540181	CYP		KYPROS-ARTEMIS	-174.5	A	API/A	5106	2631
108520197	CYP		KYPROS-ATHENA	22.5	C	CR/C	2280	2635
108540038	CYP		KYPROS-HERMES	57.0	A	API/A	5021	2615
108520198	CYP		KYPROS-POSEIDON	-52.5	C	CR/C	2281	2635
99520307	CYP		KYPROS-SAT-C	39.0	C	CR/C	288	2582
99520329	CYP		KYPROS-SAT-KA3	39.0	C	CR/C	294	2528
97520302	CYP		KYPROS-SAT-L4	39.0	C	CR/C	1239	2582
108520199	CYP		KYPROS-ZEUS	54.0	C	CR/C	2282	2635
107540109	CZE		CESASAT-1	11.5	A	API/A	4575	2594
107520286	CZE		CESASAT-2	18.0	C	CR/C	2124	2618
107540111	CZE		CESASAT-3	22.5	A	API/A	4577	2594
107540112	CZE		CESASAT-4	31.5	A	API/A	4578	2594
107540114	CZE		CESASAT-6	44.5	A	API/A	4580	2594
102540521	CZE		MIMOSA	N-GSO	A	API/A	2476	2544
107520306	D	EUM	METEOSAT IODC_57.5E	57.5	C	CR/C	2128	2618
107520307	D	EUM	METEOSAT IODC_67.5E	67.5	C	CR/C	2129	2618
101500300	D	GLS	GALILEO-NAV-2004	N-GSO	N	PART	2	2582
96520249	D		DFS II-1	23.5	C	CR/C	1997	2598
96520250	D		DFS II-2	28.5	C	CR/C	1995	2598
92500176	D		DFS-1	23.5	N	PART	2	2112
92500177	D		DFS-2	28.5	N	PART	2	2112
104520295	D		DM-SAT-1	33.5	C	CR/C	1502	2583
104520296	D		DM-SAT-2	-10.0	C	CR/C	1503	2583
104520297	D		DM-SAT-3	-13.0	C	CR/C	1504	2583
104500143	D		EUROPE*STAR-1	45.0	N	PART	2	2606
104500144	D		EUROPE*STAR-3	47.5	N	PART	2	2602
106520112	D		EUROPE*STAR-45E	45.0	C	CR/C	1889	2607
106520113	D		EUROPE*STAR-47.5E	47.5	C	CR/C	1890	2607
108520025	D		EUROPE*STAR-47.5E-A	47.5	C	CR/C	2225	2629
108520034	D		GENESIS-10	-37.0	C	CR/C	2149	2620
108520035	D		GENESIS-11	13.0	C	CR/C	2150	2620
108520036	D		GENESIS-12	63.0	C	CR/C	2151	2620
103520329	D		GENESIS-7	-37.0	C	CR/C	1297	2583

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
103520330	D		GENESIS-8	13.0	C	CR/C	1298	2583
103520331	D		GENESIS-9	63.0	C	CR/C	1299	2583
103520259	D		IKSAT-1	-38.5	C	CR/C	1279	2567
103520260	D		IKSAT-2	32.0	C	CR/C	1280	2567
103520261	D		IKSAT-4	66.0	C	CR/C	1281	2567
103540540	D		ATM-MEO	N-GSO	A	API/A	2817	2566
107500317	D		BIRD	N-GSO	N	PART	2	2621
104500428	D		CHAMP	N-GSO	N	PART	2	2632
96520546	D		COURIER	N-GSO	C	CR/C	1350	2536
106520134	D		COURIER-2	N-GSO	C	CR/C	1875	2607
104500168	D		GRACE	N-GSO	N	PART	2	2580
106500286	D		MAGNIFYING GLASS	N-GSO	N	PART	2	2612
105500438	D		RAPIDEYE	N-GSO	N	PART	2	2607
100543835	D		TERRASAR	N-GSO	A	API/A	1277	2632
107520253	E		HISPASAT 36W	-36.0	C	CR/C	2095	2631
105540834	E		HISPASAT 39W	-39.0	A	API/A	3935	2560
105540837	E		HISPASAT 48.5W	-48.5	A	API/A	3938	2560
105540835	E		HISPASAT 51.5W	-51.5	A	API/A	3936	2560
105540838	E		HISPASAT 54.5W	-54.5	A	API/A	3939	2560
92500108	E		HISPASAT-1	-30.0	N	PART	2	2107
101500577	E		HISPASAT-1C	-30.0	N	PART	2	2544
102520044	E		HISPASAT-1D KU	-30.0	C	CR/C	1019	2497
102500409	E		HISPASAT-2A KU	-30.0	N	PART	2	2548
105500025	E		HISPASAT-2A X	-30.0	N	PART	2	2634
105500092	E		HISPASAT-2AKA	-30.0	N	PART	2	2632
105500093	E		HISPASAT-2B 30KA	-30.0	N	PART	2	2632
100500226	E		HISPASAT-2B KU	-30.0	N	PART	2	2474
100500225	E		HISPASAT-2C3 KU	-30.0	N	PART	2	2587
104500108	E		HISPASAT-2D KU	-30.0	N	PART	2	2589
107540129	E		SECOMSAT B1_15W	-15.0	A	API/A	4599	2623
107520271	E		SECOMSAT B1_41E	41.0	C	CR/C	2117	2635
108520126	E		SECOMSAT B1_47W	-47.0	C	CR/C	2215	2627
101520240	E		SECOMSAT B15W	-15.0	C	CR/C	914	2624
105500624	E		SECOMSAT B29E	29.0	N	PART	2	2632
101520239	E		SECOMSAT B41E	41.0	C	CR/C	913	2624
101520241	E		SECOMSAT B47W	-47.0	C	CR/C	915	2624
108540248	E		SECOMSAT-B1_29E	29.0	A	API/A	5135	2623
108500678	E		DEIMOS-1	N-GSO	N	PART	2	2634
94500335	E		MINISAT-1	N-GSO	N	PART	2	2291
105500142	E		NANOSAT-1	N-GSO	N	PART	2	2608
107520014	E		ONDAS	N-GSO	C	CR/C	2052	2635
105520014	EGY		NAVISAT-1	17.0	C	CR/C	1527	2630
105520015	EGY		NAVISAT-2	21.0	C	CR/C	1528	2630
105520016	EGY		NAVISAT-3	36.5	C	CR/C	1529	2630
108540354	EGY		NILESAT-301-20E	20.0	A	API/A	5230	2625
108540355	EGY		NILESAT-301-30E	30.0	A	API/A	5231	2625
108540351	EGY		NILESAT-301-3W	-3.0	A	API/A	5227	2625
108540352	EGY		NILESAT-301-7W	-7.0	A	API/A	5228	2625
108540353	EGY		NILESAT-301-8.5E	8.5	A	API/A	5229	2625
108520072	EGY		NILESAT-A	-7.0	C	CR/C	2195	2624

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108520181	EGY		NILESAT-B	-3.0	C	CR/C	2266	2634
108520182	EGY		NILESAT-C	8.5	C	CR/C	2267	2634
108520183	EGY		NILESAT-D	20.0	C	CR/C	2268	2634
108520184	EGY		NILESAT-E	30.0	C	CR/C	2269	2634
105500097	EGY		MIRSAT-1	N-GSO	N	PART	2	2603
102500435	F	ESA	ARTEMIS-21.5E-DR	21.5	N	PART	2	2550
106500361	F	ESA	ARTEMIS-21.5E-LM	21.5	N	PART	2	2605
98520872	F	ESA	ARTEMIS-21.5E-NAV	21.5	C	AR11/C	3688	2613
90500651	F	ESA	METEOSAT	0.0	N	PART	2	2330
101500511	F	ESA	MSG	0.0	N	PART	2	2548
106520021	F	ESA	MSG-N3.4W	-3.4	C	CR/C	1790	2600
101500512	F	ESA	MSG-S1	10.0	N	PART	2	2548
101500510	F	ESA	MSG-S2	-10.0	N	PART	2	2518
105500004	F	ESA	ADM-AEOLUS	N-GSO	N	PART	2	2583
106500013	F	ESA	AEOLUS	N-GSO	N	PART	2	2607
105500005	F	ESA	ATV	N-GSO	N	PART	2	2624
95500126	F	ESA	CLUSTER 1-5	N-GSO	N	PART	2	2583
103500233	F	ESA	CRYOSAT	N-GSO	N	PART	2	2573
108500003	F	ESA	CRYOSAT-2	N-GSO	N	PART	2	2634
99500167	F	ESA	ENVISAT	N-GSO	N	PART	2	2520
91910008	F	ESA	ERS-1	N-GSO	N	PART	2	2574
103500001	F	ESA	GOCE	N-GSO	N	PART	2	2607
104500092	F	ESA	HERSCHEL	N-GSO	N	PART	2	2594
99500055	F	ESA	INTEGRAL	N-GSO	N	PART	2	2583
90504418	F	ESA	ISPM ULYSSES	N-GSO	N	PART	2	2574
108540393	F	ESA	LISA PATHFINDER	N-GSO	A	API/A	5249	2626
101500521	F	ESA	MARS-EXPRESS	N-GSO	N	PART	2	2583
100500306	F	ESA	METOP	N-GSO	N	PART	2	2583
104500093	F	ESA	PLANCK	N-GSO	N	PART	2	2594
99500101	F	ESA	PROBA	N-GSO	N	PART	2	2583
105500613	F	ESA	PROBA-2	N-GSO	N	PART	2	2607
101500519	F	ESA	ROSETTA	N-GSO	N	PART	2	2583
105500083	F	ESA	SMOS	N-GSO	N	PART	2	2582
95500127	F	ESA	SOHO	N-GSO	N	PART	2	2574
104540593	F	ESA	SSETI EXPRESS	N-GSO	A	API/A	3365	2536
103500345	F	ESA	VENUS EXPRESS	N-GSO	N	PART	2	2583
97500403	F	ESA	XMM	N-GSO	N	PART	2	2574
90500631	F	EUT	EUTELSAT 1-3	7.0	N	PART	2	2247
92500311	F	EUT	EUTELSAT 1-5	21.5	N	PART	2	2497
101500027	F	EUT	EUTELSAT 1-8	25.5	N	PART	2	2561
92500315	F	EUT	EUTELSAT 2-10E	10.0	N	PART	2	2553
92500313	F	EUT	EUTELSAT 2-13E	13.0	N	PART	2	2552
92500314	F	EUT	EUTELSAT 2-16E	16.0	N	PART	2	2468
95500111	F	EUT	EUTELSAT 2-21.5E	21.5	N	PART	2	2561
95500112	F	EUT	EUTELSAT 2-33E	33.0	N	PART	1	2608
92500316	F	EUT	EUTELSAT 2-36E	36.0	N	PART	2	2552
101500079	F	EUT	EUTELSAT 2-4E	4.0	N	PART	2	2575
92500312	F	EUT	EUTELSAT 2-7E	7.0	N	PART	2	2553
103500286	F	EUT	EUTELSAT 3-10E	10.0	N	PART	2	2616
99500228	F	EUT	EUTELSAT 3-12.5W	-12.5	N	PART	2	2617



ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
103500287	F	EUT	EUTELSAT 3-13E	13.0	N	PART	2	2617
103500288	F	EUT	EUTELSAT 3-16E	16.0	N	PART	2	2617
103500312	F	EUT	EUTELSAT 3-21.5E	21.5	N	PART	2	2627
98520861	F	EUT	EUTELSAT 3-25.5E	25.5	C	CR/C	449	2524
105500521	F	EUT	EUTELSAT 3-29E	29.0	N	PART	2	2632
103500313	F	EUT	EUTELSAT 3-33E	33.0	N	PART	2	2608
103500314	F	EUT	EUTELSAT 3-36E	36.0	N	PART	2	2608
103500315	F	EUT	EUTELSAT 3-44E	44.0	N	PART	2	2587
103500316	F	EUT	EUTELSAT 3-48E	48.0	N	PART	2	2618
103500327	F	EUT	EUTELSAT 3-4E	4.0	N	PART	2	2591
103500277	F	EUT	EUTELSAT 3-70.5E	70.5	N	PART	2	2584
103500328	F	EUT	EUTELSAT 3-76E	76.0	N	PART	2	2591
103500280	F	EUT	EUTELSAT 3-7E	7.0	N	PART	2	2606
98520667	F	EUT	EUTELSAT 3A-14.8W	-14.8	C	AR11/C	3621	2442
106500043	F	EUT	EUTELSAT EXB-10E	10.0	N	PART	2	2575
106500028	F	EUT	EUTELSAT EXB-10E_C	10.0	N	PART	2	2571
102500526	F	EUT	EUTELSAT EXB-12.5W	-12.5	N	PART	2	2573
100500129	F	EUT	EUTELSAT EXB-13E	13.0	N	PART	2	2511
104500578	F	EUT	EUTELSAT EXB-16E	16.0	N	PART	2	2558
106500037	F	EUT	EUTELSAT EXB-18W	-18.0	N	PART	2	2573
106500021	F	EUT	EUTELSAT EXB-18W_C	-18.0	N	PART	2	2572
106500038	F	EUT	EUTELSAT EXB-24W	-24.0	N	PART	2	2573
106500022	F	EUT	EUTELSAT EXB-24W_C	-24.0	N	PART	2	2572
106500040	F	EUT	EUTELSAT EXB-25.5E	25.5	N	PART	2	2573
106500024	F	EUT	EUTELSAT EXB-25.5E_C	25.5	N	PART	2	2570
104500577	F	EUT	EUTELSAT EXB-28.5E	28.5	N	PART	2	2558
106500041	F	EUT	EUTELSAT EXB-33E	33.0	N	PART	2	2574
106500025	F	EUT	EUTELSAT EXB-33E_C	33.0	N	PART	2	2570
105500572	F	EUT	EUTELSAT EXB-36E	36.0	N	PART	2	2566
104500591	F	EUT	EUTELSAT EXB-37.2W	13.0	N	PART	2	2566
106500044	F	EUT	EUTELSAT EXB-37.2W_C	13.0	N	PART	2	2572
105500573	F	EUT	EUTELSAT EXB-40E	40.0	N	PART	2	2566
106500042	F	EUT	EUTELSAT EXB-44E	53.0	N	PART	2	2575
106500027	F	EUT	EUTELSAT EXB-44E_C	53.0	N	PART	2	2570
105500441	F	EUT	EUTELSAT EXB-48E	48.0	N	PART	2	2565
106500026	F	EUT	EUTELSAT EXB-48E_C	48.0	N	PART	2	2570
106500039	F	EUT	EUTELSAT EXB-64W	-61.0	N	PART	2	2604
106500023	F	EUT	EUTELSAT EXB-64W_C	-61.0	N	PART	2	2604
103500446	F	EUT	EUTELSAT EXB-70.5E	70.5	N	PART	2	2565
105500595	F	EUT	EUTELSAT EXB-70.5E_C	70.5	N	PART	2	2578
105500628	F	EUT	EUTELSAT EXB-73.5E	73.5	N	PART	2	2569
105500627	F	EUT	EUTELSAT EXB-73.5E_C	73.5	N	PART	2	2569
105500578	F	EUT	EUTELSAT EXB-76E	76.0	N	PART	2	2591
105500626	F	EUT	EUTELSAT EXB-76E_C	76.0	N	PART	2	2569
102500497	F	EUT	EUTELSAT EXB-7E	7.0	N	PART	2	2569
105500574	F	EUT	EUTELSAT EXB-80.5E	80.5	N	PART	2	2580
106500031	F	EUT	EUTELSAT EXB-80.5E_C	80.5	N	PART	2	2571
105500576	F	EUT	EUTELSAT EXB-83.5E	83.5	N	PART	2	2596
106500030	F	EUT	EUTELSAT EXB-83.5E_C	83.5	N	PART	2	2571
105500575	F	EUT	EUTELSAT EXB-86E	86.0	N	PART	2	2583

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106500032	F	EUT	EUTELSAT EXB-86E_C	36.0	N	PART	2	2571
105500577	F	EUT	EUTELSAT EXB-88.5E	88.5	N	PART	2	2583
106500033	F	EUT	EUTELSAT EXB-88.5E_C	88.5	N	PART	2	2571
88920001	F	EUT	EUTELSAT-1	10.0	N	PART	2	2249
98520188	F	EUT	EUTELSAT-B1-10E	10.0	C	AR11/C	3337	2416
98520201	F	EUT	EUTELSAT-B1-12.5W	-12.5	C	AR11/C	3338	2416
107500525	F	EUT	EUTELSAT-B1-13E	13.0	N	PART	2	2633
98520202	F	EUT	EUTELSAT-B1-14.8W	-14.8	C	AR11/C	3339	2416
98520189	F	EUT	EUTELSAT-B1-16E	16.0	C	AR11/C	3340	2416
98520190	F	EUT	EUTELSAT-B1-21.5E	21.5	C	AR11/C	3341	2416
98520191	F	EUT	EUTELSAT-B1-25.5E	25.5	C	AR11/C	3342	2416
105500520	F	EUT	EUTELSAT-B1-29E	29.0	N	PART	2	2631
98520192	F	EUT	EUTELSAT-B1-33E	33.0	C	AR11/C	3343	2416
98520193	F	EUT	EUTELSAT-B1-36E	36.0	C	AR11/C	3344	2416
98520194	F	EUT	EUTELSAT-B1-44E	44.0	C	AR11/C	3345	2416
98520195	F	EUT	EUTELSAT-B1-48E	48.0	C	AR11/C	3346	2416
98520186	F	EUT	EUTELSAT-B1-4E	4.0	C	AR11/C	3347	2416
98520187	F	EUT	EUTELSAT-B1-7E	7.0	C	AR11/C	3350	2416
101500030	F	EUT	EUTELSAT-E-48E	48.0	N	PART	2	2561
103500079	F	EUT	EUTELSAT-E-70.5E	70.5	N	PART	2	2604
105500070	F	EUT	EUTELSAT-KA-10E	10.0	N	PART	2	2613
105500139	F	EUT	EUTELSAT-KA-12.5W	-12.5	N	PART	2	2609
105500069	F	EUT	EUTELSAT-KA-13E	13.0	N	PART	2	2609
105500140	F	EUT	EUTELSAT-KA-14.8W	-14.8	N	PART	2	2608
105500068	F	EUT	EUTELSAT-KA-16E	16.0	N	PART	2	2609
105500133	F	EUT	EUTELSAT-KA-21.5E	21.5	N	PART	2	2635
96520137	F	EUT	EUTELSAT-KA-25.5E	25.5	C	AR11/C	2793	2306
99520320	F	EUT	EUTELSAT-KA-29E	29.0	C	CR/C	262	2634
96520138	F	EUT	EUTELSAT-KA-33E	33.0	C	AR11/C	2794	2306
108500578	F	EUT	EUTELSAT-KA-36E	36.0	N	PART	2	2623
105500137	F	EUT	EUTELSAT-KA-44E	44.0	N	PART	2	2634
105500138	F	EUT	EUTELSAT-KA-48E	48.0	N	PART	2	2613
105500072	F	EUT	EUTELSAT-KA-4E	4.0	N	PART	2	2633
105500071	F	EUT	EUTELSAT-KA-7E	7.0	N	PART	2	2634
99500144	F	GLS	MSATNAV	N-GSO	N	PART	2	2588
100500321	F	GLS	MSATNAV-2	N-GSO	N	PART	2	2588
101500014	F	GLS	MSATNAV-3	N-GSO	N	PART	2	2588
103500093	F	GLS	MSATNAV-4	N-GSO	N	PART	2	2588
102520149	F		3GSAT-G15	-15.0	C	CR/C	1092	2631
105520122	F		3GSAT-G15R	-15.0	C	CR/C	1638	2589
103520004	F		3GSAT-G17	10.0	C	CR/C	1159	2558
105520123	F		3GSAT-G17R	10.0	C	CR/C	1639	2589
102520148	F		3GSAT-G2	32.5	C	CR/C	1091	2631
105520121	F		3GSAT-G2R	32.5	C	CR/C	1637	2589
104520214	F		AGORA-17.5W	-17.5	C	CR/C	1477	2581
104520217	F		AGORA-23.7E	23.7	C	CR/C	1479	2581
106520144	F		AGORA-25E	25.0	C	CR/C	1878	2609
104520218	F		AGORA-31E	31.0	C	CR/C	1480	2581
104520219	F		AGORA-38E	38.0	C	CR/C	1481	2581
104520215	F		AGORA-3W	-3.0	C	CR/C	1476	2581

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
104520220	F		AGORA-49E	49.0	C	CR/C	1482	2581
104520216	F		AGORA-8.7E	8.7	C	CR/C	1478	2581
108540001	F		ATB-01	180.0	A	API/A	4943	2614
108540002	F		ATB-02	-168.0	A	API/A	4944	2614
108540003	F		ATB-03	-156.0	A	API/A	4945	2614
108540004	F		ATB-04	-144.0	A	API/A	4946	2614
108540005	F		ATB-05	-132.0	A	API/A	4947	2614
108540006	F		ATB-06	-120.0	A	API/A	4948	2614
108540007	F		ATB-07	-108.0	A	API/A	4949	2614
108540008	F		ATB-08	-96.0	A	API/A	4950	2614
108540009	F		ATB-09	-84.0	A	API/A	4951	2614
108540010	F		ATB-10	-72.0	A	API/A	4952	2614
108540011	F		ATB-11	-60.0	A	API/A	4953	2614
108540012	F		ATB-12	-48.0	A	API/A	4954	2633
108540013	F		ATB-13	-36.0	A	API/A	4955	2633
108540014	F		ATB-14	-24.0	A	API/A	4956	2633
108540015	F		ATB-15	-12.0	A	API/A	4957	2633
108540016	F		ATB-16	0.0	A	API/A	4958	2633
108540017	F		ATB-17	12.0	A	API/A	4959	2633
108540018	F		ATB-18	24.0	A	API/A	4960	2633
108540019	F		ATB-19	36.0	A	API/A	4961	2633
108540020	F		ATB-20	48.0	A	API/A	4962	2633
108540021	F		ATB-21	60.0	A	API/A	4963	2614
108540022	F		ATB-22	72.0	A	API/A	4964	2614
108540023	F		ATB-23	84.0	A	API/A	4965	2614
108540024	F		ATB-24	96.0	A	API/A	4966	2614
108540025	F		ATB-25	108.0	A	API/A	4967	2614
108540026	F		ATB-26	120.0	A	API/A	4968	2614
108540027	F		ATB-27	132.0	A	API/A	4969	2614
108540028	F		ATB-28	144.0	A	API/A	4970	2614
108540029	F		ATB-29	156.0	A	API/A	4971	2614
107540827	F		ATB-30	132.0	A	API/A	4942	2612
108540030	F		ATB-31	168.0	A	API/A	4972	2614
108540161	F		ATHENA-17.5W	-17.5	A	API/A	5090	2617
108540164	F		ATHENA-23.7E	23.7	A	API/A	5093	2617
108540165	F		ATHENA-25E	25.0	A	API/A	5094	2617
108540166	F		ATHENA-31E	31.0	A	API/A	5095	2617
108540167	F		ATHENA-38E	38.0	A	API/A	5096	2617
108540162	F		ATHENA-3W	-3.0	A	API/A	5091	2617
108540168	F		ATHENA-49E	49.0	A	API/A	5097	2617
108540163	F		ATHENA-8.7E	8.7	A	API/A	5092	2617
106540484	F		ATM-01	180.0	A	API/A	4299	2581
106540485	F		ATM-02	-168.0	A	API/A	4300	2581
106540486	F		ATM-03	-156.0	A	API/A	4301	2581
106540487	F		ATM-04	-144.0	A	API/A	4302	2581
106540488	F		ATM-05	-132.0	A	API/A	4303	2581
106540489	F		ATM-06	-120.0	A	API/A	4304	2581
106540490	F		ATM-07	-108.0	A	API/A	4305	2581
106540491	F		ATM-08	-96.0	A	API/A	4306	2581
106540492	F		ATM-09	-84.0	A	API/A	4307	2581

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106540493	F		ATM-10	-72.0	A	API/A	4308	2581
106540494	F		ATM-11	-60.0	A	API/A	4309	2581
106540495	F		ATM-12	-48.0	A	API/A	4310	2581
106540496	F		ATM-13	-36.0	A	API/A	4311	2581
106540497	F		ATM-14	-24.0	A	API/A	4312	2581
106540498	F		ATM-15	-12.0	A	API/A	4313	2581
106540499	F		ATM-16	0.0	A	API/A	4314	2581
107520290	F		ATM-17	1.0	C	CR/C	2130	2618
106540501	F		ATM-18	12.0	A	API/A	4316	2581
106540502	F		ATM-19	18.0	A	API/A	4317	2581
106540503	F		ATM-20	24.0	A	API/A	4318	2581
107520291	F		ATM-21	32.0	C	CR/C	2131	2618
106540505	F		ATM-22	36.0	A	API/A	4320	2581
106540506	F		ATM-23	48.0	A	API/A	4321	2581
106540507	F		ATM-24	60.0	A	API/A	4322	2581
106540508	F		ATM-25	72.0	A	API/A	4323	2581
106540509	F		ATM-26	84.0	A	API/A	4324	2581
108520039	F		ATM-27	93.5	C	CR/C	2155	2621
106540511	F		ATM-28	108.0	A	API/A	4326	2581
108520046	F		ATM-29	123.0	C	CR/C	2156	2621
106540513	F		ATM-30	132.0	A	API/A	4328	2581
106540514	F		ATM-31	144.0	A	API/A	4329	2581
106540515	F		ATM-32	156.0	A	API/A	4330	2581
106540516	F		ATM-33	168.0	A	API/A	4331	2581
108540157	F		CAMEO	55.0	A	API/A	5087	2616
108540058	F		CP 006E	6.0	A	API/A	4986	2615
108540073	F		CP 006W	-6.0	A	API/A	5001	2615
108540074	F		CP 018W	-18.0	A	API/A	5002	2615
108540075	F		CP 030W	-30.0	A	API/A	5003	2615
108540062	F		CP 054E	54.0	A	API/A	4990	2615
108540077	F		CP 054W	-54.0	A	API/A	5005	2615
108540063	F		CP 066E	66.0	A	API/A	4991	2615
108540078	F		CP 066W	-66.0	A	API/A	5006	2615
108540064	F		CP 078E	78.0	A	API/A	4992	2615
108540079	F		CP 078W	-78.0	A	API/A	5007	2615
108540065	F		CP 090E	90.0	A	API/A	4993	2615
108540080	F		CP 090W	-90.0	A	API/A	5008	2615
108540066	F		CP 102E	102.0	A	API/A	4994	2615
108540081	F		CP 102W	-102.0	A	API/A	5009	2615
108540067	F		CP 114E	114.0	A	API/A	4995	2615
108540082	F		CP 114W	-114.0	A	API/A	5010	2615
108540068	F		CP 126E	126.0	A	API/A	4996	2615
108540083	F		CP 126W	-126.0	A	API/A	5011	2615
108540069	F		CP 138E	138.0	A	API/A	4997	2615
108540084	F		CP 138W	-138.0	A	API/A	5012	2615
108540070	F		CP 150E	150.0	A	API/A	4998	2615
108540085	F		CP 150W	-150.0	A	API/A	5013	2615
108540071	F		CP 162E	162.0	A	API/A	4999	2615
108540086	F		CP 162W	-162.0	A	API/A	5014	2615
108540072	F		CP 174E	174.0	A	API/A	5000	2615

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108540087	F		CP 174W	-174.0	A	API/A	5015	2615
108540158	F		CUMBIA	-78.0	A	API/A	5088	2616
105540689	F		DRN-A-1	-132.0	A	API/A	3856	2557
105540698	F		DRN-A-10	-24.0	A	API/A	3865	2557
105540699	F		DRN-A-11	-12.0	A	API/A	3866	2557
105540700	F		DRN-A-12	0.0	A	API/A	3867	2557
105540701	F		DRN-A-13	12.0	A	API/A	3868	2557
105540702	F		DRN-A-14	24.0	A	API/A	3869	2557
105540703	F		DRN-A-15	36.0	A	API/A	3870	2557
105540704	F		DRN-A-16	48.0	A	API/A	3871	2557
105540705	F		DRN-A-17	60.0	A	API/A	3872	2557
105540706	F		DRN-A-18	72.0	A	API/A	3873	2557
105540707	F		DRN-A-19	84.0	A	API/A	3874	2557
105540690	F		DRN-A-2	-120.0	A	API/A	3857	2557
105540708	F		DRN-A-20	96.0	A	API/A	3875	2557
105540709	F		DRN-A-21	108.0	A	API/A	3876	2557
105540710	F		DRN-A-22	120.0	A	API/A	3877	2557
105540711	F		DRN-A-23	132.0	A	API/A	3878	2557
105540691	F		DRN-A-3	-108.0	A	API/A	3858	2557
105540692	F		DRN-A-4	-96.0	A	API/A	3859	2557
105540693	F		DRN-A-5	-84.0	A	API/A	3860	2557
105540694	F		DRN-A-6	-72.0	A	API/A	3861	2557
105540695	F		DRN-A-7	-60.0	A	API/A	3862	2557
105540696	F		DRN-A-8	-48.0	A	API/A	3863	2557
105540697	F		DRN-A-9	-36.0	A	API/A	3864	2557
105540755	F		DRN-AM-1	-132.0	A	API/A	3886	2558
105540764	F		DRN-AM-10	-24.0	A	API/A	3895	2558
105540765	F		DRN-AM-11	-12.0	A	API/A	3896	2558
105540766	F		DRN-AM-12	0.0	A	API/A	3897	2558
105540767	F		DRN-AM-13	12.0	A	API/A	3898	2558
105540768	F		DRN-AM-14	24.0	A	API/A	3899	2558
105540769	F		DRN-AM-15	36.0	A	API/A	3900	2558
105540770	F		DRN-AM-16	48.0	A	API/A	3901	2558
105540771	F		DRN-AM-17	60.0	A	API/A	3902	2558
105540772	F		DRN-AM-18	72.0	A	API/A	3903	2558
105540773	F		DRN-AM-19	84.0	A	API/A	3904	2558
105540756	F		DRN-AM-2	-120.0	A	API/A	3887	2558
105540774	F		DRN-AM-20	96.0	A	API/A	3905	2558
105540775	F		DRN-AM-21	108.0	A	API/A	3906	2558
105540776	F		DRN-AM-22	120.0	A	API/A	3907	2558
105540777	F		DRN-AM-23	132.0	A	API/A	3908	2558
105540757	F		DRN-AM-3	-108.0	A	API/A	3888	2558
105540758	F		DRN-AM-4	-96.0	A	API/A	3889	2558
105540759	F		DRN-AM-5	-84.0	A	API/A	3890	2558
105540760	F		DRN-AM-6	-72.0	A	API/A	3891	2558
105540761	F		DRN-AM-7	-60.0	A	API/A	3892	2558
105540762	F		DRN-AM-8	-48.0	A	API/A	3893	2558
105540763	F		DRN-AM-9	-36.0	A	API/A	3894	2558
107520228	F		DRN-D1	-2.8	C	CR/C	2087	2613
107520227	F		DRN-D2	-80.0	C	CR/C	2088	2613

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107520226	F		DRN-D3	-164.0	C	CR/C	2089	2613
107520229	F		DRN-D4	98.5	C	CR/C	2090	2613
106540736	F		DRN-P1	-48.0	A	API/A	4407	2626
108520188	F		DRN-P1B	-48.0	C	CR/C	2273	2634
106540719	F		DRN-P2	21.5	A	API/A	4390	2626
108520189	F		DRN-P2B	21.5	C	CR/C	2274	2634
106540720	F		DRN-P3	31.0	A	API/A	4391	2626
108520190	F		DRN-P3B	31.0	C	CR/C	2275	2634
106540721	F		DRN-P4	36.5	A	API/A	4392	2626
108520191	F		DRN-P4B	36.5	C	CR/C	2276	2634
105520316	F		EUROSAT-15E	15.0	C	CR/C	1702	2617
92500211	F		F-SAT 2	-11.0	N	PART	2	2499
107500248	F		F-SAT-30B	9.0	N	PART	2	2607
108540405	F		F-SAT-B1-E-3E	3.0	A	API/A	5262	2626
101520063	F		F-SAT-B1-E-8W	-8.0	C	CR/C	832	2546
107520264	F		F-SAT-B1-E-9E	9.0	C	CR/C	2112	2616
103520124	F		F-SAT-C-E-10E	10.0	C	CR/C	1207	2518
103520125	F		F-SAT-C-E-13E	13.0	C	CR/C	1208	2518
103520126	F		F-SAT-C-E-16E	16.0	C	CR/C	1209	2518
103520123	F		F-SAT-C-E-7E	7.0	C	CR/C	1206	2518
103520051	F		F-SATDAB-1A	9.0	C	CR/C	1185	2560
105520097	F		F-SATDAB-1B	9.0	C	CR/C	1606	2586
105520098	F		F-SATDAB-3A	16.5	C	CR/C	1607	2586
105520339	F		F-SATDAB-4A	45.0	C	CR/C	1731	2627
104520003	F		F-SATDAB-5A	21.0	C	CR/C	1411	2576
103520326	F		F-SATDAB-5B	21.5	C	CR/C	1294	2568
108540324	F		F-SAT-E-DRS-100E	100.0	A	API/A	5197	2624
108540291	F		F-SAT-E-DRS-104W	-104.0	A	API/A	5164	2624
108540325	F		F-SAT-E-DRS-106E	106.0	A	API/A	5198	2624
108540307	F		F-SAT-E-DRS-10E	10.0	A	API/A	5180	2624
108540292	F		F-SAT-E-DRS-110W	-110.0	A	API/A	5165	2624
108540326	F		F-SAT-E-DRS-112E	112.0	A	API/A	5199	2624
108540293	F		F-SAT-E-DRS-116W	-116.0	A	API/A	5166	2624
108540327	F		F-SAT-E-DRS-118E	118.0	A	API/A	5200	2624
108540275	F		F-SAT-E-DRS-12.5W	-12.5	A	API/A	5148	2624
108540294	F		F-SAT-E-DRS-122W	-122.0	A	API/A	5167	2624
108540328	F		F-SAT-E-DRS-124E	124.0	A	API/A	5201	2624
108540295	F		F-SAT-E-DRS-128W	-128.0	A	API/A	5168	2624
108540329	F		F-SAT-E-DRS-130E	130.0	A	API/A	5202	2624
108540296	F		F-SAT-E-DRS-134W	-134.0	A	API/A	5169	2624
108540330	F		F-SAT-E-DRS-136E	136.0	A	API/A	5203	2624
108540308	F		F-SAT-E-DRS-13E	13.0	A	API/A	5181	2624
108540276	F		F-SAT-E-DRS-14.8W	-14.8	A	API/A	5149	2624
108540297	F		F-SAT-E-DRS-140W	-140.0	A	API/A	5170	2624
108540331	F		F-SAT-E-DRS-142E	142.0	A	API/A	5204	2624
108540298	F		F-SAT-E-DRS-146W	-146.0	A	API/A	5171	2624
108540332	F		F-SAT-E-DRS-148E	148.0	A	API/A	5205	2624
108540299	F		F-SAT-E-DRS-152W	-152.0	A	API/A	5172	2624
108540333	F		F-SAT-E-DRS-154E	154.0	A	API/A	5206	2624
108540300	F		F-SAT-E-DRS-158W	-158.0	A	API/A	5173	2624

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108540334	F		F-SAT-E-DRS-160E	160.0	A	API/A	5207	2624
108540301	F		F-SAT-E-DRS-164W	-164.0	A	API/A	5174	2624
108540335	F		F-SAT-E-DRS-166E	166.0	A	API/A	5208	2624
108540309	F		F-SAT-E-DRS-16E	16.0	A	API/A	5182	2624
108540302	F		F-SAT-E-DRS-170W	-170.0	A	API/A	5175	2624
108540336	F		F-SAT-E-DRS-172E	172.0	A	API/A	5209	2624
108540303	F		F-SAT-E-DRS-176W	-176.0	A	API/A	5176	2624
108540337	F		F-SAT-E-DRS-178E	178.0	A	API/A	5210	2624
108540304	F		F-SAT-E-DRS-1E	1.0	A	API/A	5177	2624
108540277	F		F-SAT-E-DRS-20W	-20.0	A	API/A	5150	2624
108540310	F		F-SAT-E-DRS-21.5E	21.5	A	API/A	5183	2624
108540311	F		F-SAT-E-DRS-25.5E	25.5	A	API/A	5184	2624
108540278	F		F-SAT-E-DRS-26W	-26.0	A	API/A	5151	2624
108540279	F		F-SAT-E-DRS-32W	-32.0	A	API/A	5152	2624
108540312	F		F-SAT-E-DRS-33E	33.0	A	API/A	5185	2624
108540313	F		F-SAT-E-DRS-36E	36.0	A	API/A	5186	2624
108540280	F		F-SAT-E-DRS-38W	-38.0	A	API/A	5153	2624
108540314	F		F-SAT-E-DRS-42E	42.0	A	API/A	5187	2624
108540281	F		F-SAT-E-DRS-44W	-44.0	A	API/A	5154	2624
108540315	F		F-SAT-E-DRS-48E	48.0	A	API/A	5188	2624
108540305	F		F-SAT-E-DRS-4E	4.0	A	API/A	5178	2624
108540282	F		F-SAT-E-DRS-50W	-50.0	A	API/A	5155	2624
108540316	F		F-SAT-E-DRS-54E	54.0	A	API/A	5189	2624
108540283	F		F-SAT-E-DRS-56W	-56.0	A	API/A	5156	2624
108540273	F		F-SAT-E-DRS-5W	-5.0	A	API/A	5146	2624
108540317	F		F-SAT-E-DRS-60E	60.0	A	API/A	5190	2624
108540284	F		F-SAT-E-DRS-62W	-62.0	A	API/A	5157	2624
108540318	F		F-SAT-E-DRS-66E	66.0	A	API/A	5191	2624
108540285	F		F-SAT-E-DRS-68W	-68.0	A	API/A	5158	2624
108540319	F		F-SAT-E-DRS-70.5E	70.5	A	API/A	5192	2624
108540286	F		F-SAT-E-DRS-74W	-74.0	A	API/A	5159	2624
108540320	F		F-SAT-E-DRS-76E	76.0	A	API/A	5193	2624
108540306	F		F-SAT-E-DRS-7E	7.0	A	API/A	5179	2624
108540287	F		F-SAT-E-DRS-80W	-80.0	A	API/A	5160	2624
108540321	F		F-SAT-E-DRS-82E	82.0	A	API/A	5194	2624
108540288	F		F-SAT-E-DRS-86W	-86.0	A	API/A	5161	2624
108540322	F		F-SAT-E-DRS-88E	88.0	A	API/A	5195	2624
108540274	F		F-SAT-E-DRS-8W	-8.0	A	API/A	5147	2624
108540289	F		F-SAT-E-DRS-92W	-92.0	A	API/A	5162	2624
108540323	F		F-SAT-E-DRS-94E	94.0	A	API/A	5196	2624
108540290	F		F-SAT-E-DRS-98W	-98.0	A	API/A	5163	2624
107520051	F		F-SAT-KA-E-1.6E	1.6	C	CR/C	1999	2618
103520367	F		F-SAT-KA-E-10E	10.0	C	CR/C	1322	2582
103520378	F		F-SAT-KA-E-12.5W	-12.5	C	CR/C	1331	2582
103520368	F		F-SAT-KA-E-13E	13.0	C	CR/C	1323	2582
103520377	F		F-SAT-KA-E-142.2E	142.2	C	CR/C	1330	2582
103520369	F		F-SAT-KA-E-16E	16.0	C	CR/C	1324	2582
103520370	F		F-SAT-KA-E-25.5E	25.5	C	CR/C	1325	2582
103520371	F		F-SAT-KA-E-33E	33.0	C	CR/C	1334	2582
103520372	F		F-SAT-KA-E-36E	36.0	C	CR/C	1335	2582

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103520373	F		F-SAT-KA-E-44E	44.0	C	CR/C	1326	2582
103520374	F		F-SAT-KA-E-48E	48.0	C	CR/C	1327	2582
103520379	F		F-SAT-KA-E-64W	-64.0	C	CR/C	1332	2582
107540732	F		F-SAT-KA-E-67W	-67.0	A	API/A	4798	2608
103520375	F		F-SAT-KA-E-70.5E	70.5	C	CR/C	1328	2582
108540183	F		F-SAT-KA-E-76E	76.0	A	API/A	5107	2618
103520366	F		F-SAT-KA-E-7E	7.0	C	CR/C	1333	2582
103520376	F		F-SAT-KA-E-83.5E	83.5	C	CR/C	1329	2582
107520055	F		F-SAT-KA-E-9E	9.0	C	CR/C	2008	2618
108540266	F		F-SAT-K-E-11W	-11.0	A	API/A	5212	2622
108540267	F		F-SAT-K-E-32E	32.0	A	API/A	5213	2622
108540265	F		F-SAT-K-E-3W	-3.0	A	API/A	5211	2622
108540268	F		F-SAT-K-E-40E	40.0	A	API/A	5214	2622
108540269	F		F-SAT-K-E-80.5E	80.5	A	API/A	5215	2622
108540270	F		F-SAT-K-E-83.5E	83.5	A	API/A	5216	2622
108540271	F		F-SAT-K-E-88.5E	88.5	A	API/A	5217	2622
108540272	F		F-SAT-K-E-96E	96.0	A	API/A	5218	2622
103520240	F		F-SAT-KU2-E-10E	10.0	C	CR/C	1266	2566
103520237	F		F-SAT-KU2-E-12.5W	-12.5	C	CR/C	1269	2566
103520241	F		F-SAT-KU2-E-13E	13.0	C	CR/C	1267	2566
103520242	F		F-SAT-KU2-E-16E	16.0	C	CR/C	1268	2566
103520238	F		F-SAT-KU2-E-4E	4.0	C	CR/C	1264	2566
103520236	F		F-SAT-KU2-E-64W	-64.0	C	CR/C	1270	2566
103520239	F		F-SAT-KU2-E-7E	7.0	C	CR/C	1265	2566
103520243	F		F-SAT-KU3-E-25.5E	25.5	C	CR/C	1271	2525
103520244	F		F-SAT-KU3-E-33E	33.0	C	CR/C	1272	2525
103520245	F		F-SAT-KU3-E-36E	36.0	C	CR/C	1273	2525
103520246	F		F-SAT-KU3-E-44E	44.0	C	CR/C	1274	2525
103520247	F		F-SAT-KU3-E-48E	48.0	C	CR/C	1275	2525
103520248	F		F-SAT-KU3-E-70.5E	70.5	C	CR/C	1276	2525
103520249	F		F-SAT-KU3-E-76E	76.0	C	CR/C	1277	2525
103520250	F		F-SAT-KU3-E-83.5E	83.5	C	CR/C	1278	2525
104520328	F		F-SAT-KU-E-1.6E	1.6	C	CR/C	1523	2552
100520048	F		F-SAT-KU-E-5W	-5.0	C	CR/C	479	2583
104520038	F		F-SAT-KU-E-76E	76.0	C	CR/C	1386	2540
107520096	F		F-SAT-KU-E-7W	-7.0	C	CR/C	2018	2621
101520008	F		F-SAT-KU-E-8W	-8.0	C	CR/C	797	2583
102520007	F		F-SAT-L-E-10E	10.0	C	CR/C	1032	2560
102520005	F		F-SAT-L-E-12.5W	-12.5	C	CR/C	1038	2560
102520008	F		F-SAT-L-E-13E	13.0	C	CR/C	1033	2560
102520009	F		F-SAT-L-E-16E	16.0	C	CR/C	1034	2560
102520010	F		F-SAT-L-E-21.5E	21.5	C	CR/C	1035	2560
102520011	F		F-SAT-L-E-36E	36.0	C	CR/C	1036	2560
102520012	F		F-SAT-L-E-48E	48.0	C	CR/C	1037	2560
102520006	F		F-SAT-L-E-7E	7.0	C	CR/C	1031	2560
105520336	F		F-SAT-S-E-10E	10.0	C	CR/C	1728	2635
105520295	F		F-SAT-S-E-13E	13.0	C	CR/C	1690	2592
105520294	F		F-SAT-S-E-16E	16.0	C	CR/C	1691	2592
106520165	F		F-SAT-S-E-3E	3.0	C	CR/C	1894	2609
105520337	F		F-SAT-S-E-70.5E	70.5	C	CR/C	1729	2627



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107520039	F		F-SAT-S-E-7E	7.0	C	CR/C	1942	2621
105520338	F		F-SAT-S-E-98.5E	98.5	C	CR/C	1730	2627
102520171	F		F-SAT-UHF-GEO-10	-71.0	C	CR/C	1107	2504
102520169	F		F-SAT-UHF-GEO-2	32.0	C	CR/C	1105	2504
102520170	F		F-SAT-UHF-GEO-8	120.0	C	CR/C	1106	2504
101520290	F		GEOSAT C 1E	1.0	C	CR/C	919	2493
101520279	F		GEOSAT KU 1E	1.0	C	CR/C	917	2583
106500356	F		GEOSAT-30B	-7.0	N	PART	2	2588
103520020	F		GEOSAT-3E	3.0	C	CR/C	1155	2525
105500509	F		GEOSAT-KA-3E	3.0	N	PART	2	2633
105500510	F		GEOSAT-KA-5W	-5.0	N	PART	2	2631
105500511	F		GEOSAT-KA-8W	-8.0	N	PART	2	2631
106520241	F		MUSICAA	21.0	C	CR/C	1926	2610
105520154	F		NEMO-3	1.0	C	CR/C	1665	2590
105520155	F		NEMO-6	32.0	C	CR/C	1666	2590
104520195	F		NEPER7	1.0	C	CR/C	1455	2616
104520196	F		NEPER8	32.0	C	CR/C	1456	2616
102520119	F		RADIOSAT-5D	-7.0	C	CR/C	1071	2501
104520293	F		RADIOSAT-6D	-8.0	C	CR/C	1499	2548
104520294	F		RADIOSAT-7D	-5.0	C	CR/C	1500	2548
108540159	F		SAMBA	-65.0	A	API/A	5089	2616
100543962	F		SMO-GEO-11A-C	-135.0	A	API/A	1366	2423
100543964	F		SMO-GEO-11A-KA	-135.0	A	API/A	1368	2423
100543963	F		SMO-GEO-11A-KU	-135.0	A	API/A	1367	2423
100543965	F		SMO-GEO-12A-C	-111.0	A	API/A	1369	2423
100543968	F		SMO-GEO-12A-KA	-111.0	A	API/A	1371	2423
100543966	F		SMO-GEO-12A-KU	-111.0	A	API/A	1370	2423
100543969	F		SMO-GEO-13A-C	-87.0	A	API/A	1372	2423
100543971	F		SMO-GEO-13A-KA	-87.0	A	API/A	1374	2423
100543970	F		SMO-GEO-13A-KU	-87.0	A	API/A	1373	2423
100543973	F		SMO-GEO-14A-C	33.0	A	API/A	1375	2423
100543975	F		SMO-GEO-14A-KA	33.0	A	API/A	1377	2423
100543974	F		SMO-GEO-14A-KU	33.0	A	API/A	1376	2423
100543976	F		SMO-GEO-15A-C	129.0	A	API/A	1378	2423
100543978	F		SMO-GEO-15A-KA	129.0	A	API/A	1380	2423
100543977	F		SMO-GEO-15A-KU	129.0	A	API/A	1379	2423
100520219	F		SYRACUSE-31C	-8.0	C	CR/C	626	2540
100520221	F		SYRACUSE-31E	-5.0	C	CR/C	628	2540
100520222	F		SYRACUSE-31F	3.0	C	CR/C	629	2540
100520224	F		SYRACUSE-31H	47.0	C	CR/C	631	2540
105520131	F		SYRACUSE-32C	-8.0	C	CR/C	1644	2597
105520132	F		SYRACUSE-32E	-5.0	C	CR/C	1645	2597
105520133	F		SYRACUSE-32F	3.0	C	CR/C	1646	2597
105520134	F		SYRACUSE-32G	25.0	C	CR/C	1647	2597
105520135	F		SYRACUSE-32H	47.0	C	CR/C	1648	2597
103500371	F		SYRACUSE-3C	-8.0	N	PART	2	2620
103500372	F		SYRACUSE-3E	-5.0	N	PART	2	2616
103500373	F		SYRACUSE-3F	3.0	N	PART	2	2620
103500370	F		SYRACUSE-3H	47.0	N	PART	2	2619
106520078	F		SYRACUSE-4C	-8.0	C	CR/C	1820	2603

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106520079	F		SYRACUSE-4E	-5.0	C	CR/C	1821	2603
106520080	F		SYRACUSE-4F	3.0	C	CR/C	1822	2603
106520081	F		SYRACUSE-4G	25.0	C	CR/C	1823	2603
106520082	F		SYRACUSE-4H	47.0	C	CR/C	1824	2603
92500046	F		TELECOM-2A	-8.0	N	PART	2	2586
92500047	F		TELECOM-2B	-5.0	N	PART	2	2581
92500048	F		TELECOM-2C	3.0	N	PART	2	2583
101500604	F		TELECOM-30B	-8.0	N	PART	2	2552
106500317	F		TELECOM-3A	-8.0	N	PART	2	2604
106500351	F		TELECOM-3B	-5.0	N	PART	2	2606
106500316	F		TELECOM-3C	3.0	N	PART	2	2604
107500300	F		TELECOM-4A	-8.0	N	PART	2	2630
107500336	F		TELECOM-4B	-5.0	N	PART	2	2626
101520319	F		TELECOM-4C	3.0	C	CR/C	942	2494
101500513	F		VIDEOSAT-6	-8.0	N	PART	2	2592
96520186	F		VIDEOSAT-6-KA	-8.0	C	CR/C	95	2607
100500161	F		VIDEOSAT-7	-5.0	N	PART	2	2607
107500382	F		VIDEOSAT-7-KA	-5.0	N	PART	2	2622
107500417	F		VIDEOSAT-8-KU-C	3.0	N	PART	2	2623
106540718	F		VP 006E	6.0	A	API/A	4389	2587
106540734	F		VP 018W	-18.0	A	API/A	4405	2587
106540735	F		VP 030W	-30.0	A	API/A	4406	2587
106540722	F		VP 054E	54.0	A	API/A	4393	2587
106540737	F		VP 054W	-54.0	A	API/A	4408	2587
106540723	F		VP 066E	66.0	A	API/A	4394	2587
106540738	F		VP 066W	-66.0	A	API/A	4409	2587
106540724	F		VP 078E	78.0	A	API/A	4395	2587
106540725	F		VP 090E	90.0	A	API/A	4396	2587
106540740	F		VP 090W	-90.0	A	API/A	4411	2587
106540741	F		VP 102W	-102.0	A	API/A	4412	2587
106540727	F		VP 114E	114.0	A	API/A	4398	2587
106540742	F		VP 114W	-114.0	A	API/A	4413	2587
106540728	F		VP 126E	126.0	A	API/A	4399	2587
106540743	F		VP 126W	-126.0	A	API/A	4414	2587
106540729	F		VP 138E	138.0	A	API/A	4400	2587
106540744	F		VP 138W	-138.0	A	API/A	4415	2587
106540730	F		VP 150E	150.0	A	API/A	4401	2587
106540745	F		VP 150W	-150.0	A	API/A	4416	2587
106540731	F		VP 162E	162.0	A	API/A	4402	2587
106540732	F		VP 174E	174.0	A	API/A	4403	2587
106540747	F		VP 174W	-174.0	A	API/A	4418	2587
107540774	F		VP-2G-A	2.7	A	API/A	4831	2610
107540775	F		VP-2G-B	-8.8	A	API/A	4832	2610
107540776	F		VP-2G-C	-74.5	A	API/A	4833	2610
107540777	F		VP-2G-D	-86.0	A	API/A	4834	2610
107540778	F		VP-2G-E	-158.0	A	API/A	4835	2610
107540779	F		VP-2G-F	-170.0	A	API/A	4836	2610
107540781	F		VP-2G-G	104.5	A	API/A	4858	2610
107540780	F		VP-2G-H	92.5	A	API/A	4837	2610
105540862	F		ALERTE	N-GSO	A	API/A	3949	2560

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
102540061	F		AMSAT-F IDEFIX	N-GSO	A	API/A	2260	2466
108500002	F		ARGOS-4	N-GSO	N	PART	2	2634
96500523	F		ARGOS-B	N-GSO	N	PART	2	2604
108540057	F		ARGOS-SARAL	N-GSO	A	API/A	5025	2628
90504396	F		ARIANE	N-GSO	N	PART	2	2575
108540546	F		ASTROTERRA	N-GSO	A	API/A	5342	2633
93500177	F		CERISE	N-GSO	N	PART	2	2635
100500052	F		DORIS-2	N-GSO	N	PART	2	2588
108520185	F		DRN-N1B	N-GSO	C	CR/C	2270	2634
108520186	F		DRN-N2B	N-GSO	C	CR/C	2271	2634
108520187	F		DRN-N3B	N-GSO	C	CR/C	2272	2634
101500326	F		ESSAIM	N-GSO	N	PART	2	2549
106520198	F		F-SAT-S-HEO	N-GSO	C	CR/C	1903	2609
101540236	F		F-SAT-UHF-HEO-1	N-GSO	A	API/A	2103	2458
103520421	F		F-SAT-UHF-HEO-2	N-GSO	C	CR/C	1232	2562
101540231	F		F-SAT-UHF-HEO-3	N-GSO	A	API/A	2116	2458
101540232	F		F-SAT-UHF-HEO-4	N-GSO	A	API/A	2117	2458
101540233	F		F-SAT-UHF-HEO-5	N-GSO	A	API/A	2118	2458
101540234	F		F-SAT-UHF-HEO-6	N-GSO	A	API/A	2119	2458
108540423	F		JASON2	N-GSO	A	API/A	5266	2631
105500220	F		MINOS	N-GSO	N	PART	2	2605
104500513	F		MSATNAV-5	N-GSO	N	PART	2	2581
107540722	F		MSS-2	N-GSO	A	API/A	4790	2608
106500051	F		MYRIADE	N-GSO	N	PART	2	2630
105500522	F		PROTEUS-OBS	N-GSO	N	PART	2	2632
96500559	F		PROTEUS-TPFO	N-GSO	N	PART	2	2588
90504639	F		SPOT-1	N-GSO	N	PART	2	2575
93500165	F		SPOT-2	N-GSO	N	PART	2	2575
93500166	F		SPOT-3	N-GSO	N	PART	2	2575
104500595	F		SPOT-7	N-GSO	N	PART	2	2585
106540715	F		VP HEO	N-GSO	A	API/A	4421	2589
106540713	F		VP LEO	N-GSO	A	API/A	4419	2589
106540714	F		VP MEO	N-GSO	A	API/A	4420	2589
107540771	F		VP-2N-A	N-GSO	A	API/A	4828	2610
107540772	F		VP-2N-B	N-GSO	A	API/A	4829	2610
107540773	F		VP-2N-C	N-GSO	A	API/A	4830	2610
104520193	G		AM-SAT 125W	-125.0	C	CR/C	1450	2616
103520384	G		AM-SAT 172E	172.0	C	CR/C	1319	2569
103520022	G		AM-SAT 79W	-79.0	C	CR/C	1156	2558
105520079	G		AM-SAT 81W	-81.0	C	CR/C	1587	2616
104520232	G		AM-SAT 83W-B	-83.0	C	CR/C	1489	2581
103520023	G		AM-SAT 85W	-85.0	C	CR/C	1157	2567
103520024	G		AM-SAT 96W	-96.0	C	CR/C	1158	2558
96520235	G		AM-SAT A4	108.2	C	AR11/C	2963	2415
106540107	G		AM-SAT-103W-G	-103.0	A	API/A	4063	2571
108520121	G		AM-SAT-108.2E-G	108.2	C	CR/C	2214	2627
107520157	G		AM-SAT-79W-G	-79.0	C	CR/C	2053	2625
106540105	G		AM-SAT-87W-G	-87.0	A	API/A	4061	2571
103500150	G		DJCF-1A	39.5	N	PART	2	2612
104500480	G		DJCF-1B	46.0	N	PART	2	2635

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
103500151	G		DJCF-2A	-39.0	N	PART	2	2603
104500319	G		DJCF-2B	-26.0	N	PART	2	2626
107520036	G		ESAT 1	25.0	C	CR/C	1938	2614
107520037	G		ESAT 2	13.0	C	CR/C	1939	2616
108540202	G		ESAT-3	9.5	A	API/A	5128	2633
108540203	G		ESAT-4	19.0	A	API/A	5127	2633
108540204	G		ESAT-5	33.0	A	API/A	5126	2633
108540205	G		ESAT-6	38.0	A	API/A	5125	2619
100520118	G		GIBSAT A1	-105.0	C	CR/C	443	2579
100520330	G		GIBSAT-5	-139.0	C	CR/C	683	2603
106520012	G		GIBSAT-5B	-139.0	C	CR/C	1789	2600
105520081	G		GIBSAT-8B	-47.0	C	CR/C	1590	2616
105520082	G		GIBSAT-8B-KA	-43.0	C	CR/C	1589	2616
106520011	G		GIBSAT-A1-B	-105.0	C	CR/C	1782	2600
105520109	G		ICO-G	-93.0	C	CR/C	1625	2588
92520068	G		INMARSAT GSO-2F	110.0	C	CR/C	121	2499
97520331	G		INMARSAT GSO-2H	65.0	C	CR/C	412	2548
97520322	G		INMARSAT GSO-2J	-54.0	C	CR/C	413	2548
102520001	G		INMARSAT GSO-2L	-53.0	C	CR/C	1024	2555
102520076	G		INMARSAT GSO-2M	178.0	C	CR/C	1138	2557
102520123	G		INMARSAT GSO-2N	64.0	C	CR/C	1150	2558
92500069	G		INMARSAT-2 AOR EAST	-15.5	N	PART	2	2094
95500665	G		INMARSAT-2 AOR WEST	-55.0	N	PART	2	2423
92500070	G		INMARSAT-2 IOR 1	64.5	N	PART	2	2529
95500666	G		INMARSAT-2 POR 1	179.5	N	PART	2	2443
97520323	G		INMARSAT-2 POR EAST	-142.0	C	AR11/C	3163	2379
97500292	G		INMARSAT-3 AOR EAST	-15.5	N	PART	2	2632
97500293	G		INMARSAT-3 AOR EAST2	-17.0	N	PART	2	2592
99500052	G		INMARSAT-3 AOR WEST	-55.0	N	PART	2	2632
97500291	G		INMARSAT-3 AOR WEST2	-54.0	N	PART	2	2578
98520070	G		INMARSAT-3 AOR WEST3	-98.0	C	AR11/C	3310	2405
104520194	G		INMARSAT-3 AOR WEST4	-53.0	C	CR/C	1454	2579
103500320	G		INMARSAT-3 IOR WEST	25.0	N	PART	2	2592
96500418	G		INMARSAT-3 IOR-1	64.0	N	PART	2	2632
100500320	G		INMARSAT-3 IOR-2	65.0	N	PART	2	2634
98520071	G		INMARSAT-3 POR EAST	-142.0	C	AR11/C	3318	2412
103500319	G		INMARSAT-3 POR WEST	109.0	N	PART	2	2620
99500051	G		INMARSAT-3 POR-1	179.0	N	PART	2	2606
97500253	G		INMARSAT-3 POR-2	178.0	N	PART	2	2580
101520019	G		INMARSAT-3 POR-3	143.5	C	CR/C	856	2547
104520037	G		INMARSAT-4 104W	-104.0	C	CR/C	1359	2634
104520035	G		INMARSAT-4 109E	109.0	C	CR/C	1357	2634
104520036	G		INMARSAT-4 143.5E	143.5	C	CR/C	1358	2634
104520033	G		INMARSAT-4 25E	25.0	C	CR/C	1355	2634
104520034	G		INMARSAT-4 64E	64.0	C	CR/C	1356	2634
105520012	G		INMARSAT-4 98W	-98.0	C	CR/C	1530	2627
107520300	G		INMARSAT-4A 143.5E	143.5	C	CR/C	2134	2635
107520302	G		INMARSAT-4A 15.5W	-15.5	C	CR/C	2136	2635
107520301	G		INMARSAT-4A 178E	178.0	C	CR/C	2135	2635
107520298	G		INMARSAT-4A 25E	25.0	C	CR/C	2132	2635

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107520303	G		INMARSAT-4A 53W	-53.0	C	CR/C	2137	2635
107520299	G		INMARSAT-4A 64E	64.0	C	CR/C	2133	2635
107520304	G		INMARSAT-4A 98W	-98.0	C	CR/C	2138	2635
105520320	G		INMARSAT-S1	8.5	C	CR/C	1722	2628
107520089	G		INMARSAT-S2	31.0	C	CR/C	2016	2628
107520090	G		INMARSAT-S3	61.5	C	CR/C	2017	2621
105520321	G		INMARSAT-S4	127.0	C	CR/C	1723	2627
105520322	G		INMARSAT-S7	-113.0	C	CR/C	1724	2595
106520219	G		INMARSAT-XL1	25.0	C	CR/C	1908	2627
104500287	G		INTELSAT KA 243.1E	-116.9	N	PART	2	2597
104500251	G		INTELSAT KA 33E	33.0	N	PART	2	2599
104500288	G		INTELSAT KA 66E	66.0	N	PART	2	2599
106520083	G		INTELSAT N KA 11.5E	11.5	C	CR/C	1826	2603
106520084	G		INTELSAT N KA 17.6E	17.6	C	CR/C	1827	2606
106520076	G		INTELSAT N KA 33E-A	33.0	C	CR/C	1818	2578
106520077	G		INTELSAT N KA 66E-A	66.0	C	CR/C	1819	2578
107540345	G		IOMBSN-101W	-101.0	A	API/A	4675	2599
108540407	G		IOMBSN-70W	-70.0	A	API/A	5264	2626
107540344	G		IOMBSN-96.5W	-96.5	A	API/A	4674	2599
108520067	G		IOMBSN-A	-115.0	C	CR/C	2171	2623
102520047	G		IOMSAT-1	9.9	C	CR/C	1040	2560
102520056	G		IOMSAT-11	-115.0	C	CR/C	1049	2581
105520107	G		IOMSAT-11A	-115.0	C	CR/C	1689	2592
102520057	G		IOMSAT-12	115.5	C	CR/C	1050	2581
107540346	G		IOMSAT-123W	-123.0	A	API/A	4676	2599
102520048	G		IOMSAT-2	-15.0	C	CR/C	1041	2560
105520103	G		IOMSAT-2A	-15.0	C	CR/C	1686	2592
102520049	G		IOMSAT-3	16.1	C	CR/C	1042	2558
102520050	G		IOMSAT-4	22.3	C	CR/C	1043	2559
102520051	G		IOMSAT-5	-37.5	C	CR/C	1044	2558
105520104	G		IOMSAT-5A	-37.6	C	CR/C	1687	2592
102520052	G		IOMSAT-6	-47.0	C	CR/C	1045	2560
102520053	G		IOMSAT-7	-89.0	C	CR/C	1046	2581
102520055	G		IOMSAT-9	-97.0	C	CR/C	1048	2581
105520106	G		IOMSAT-9A	-97.0	C	CR/C	1688	2592
107540322	G		IOMSAT-B1	42.1	A	API/A	4652	2599
107540331	G		IOMSAT-B10	146.9	A	API/A	4661	2599
107540332	G		IOMSAT-B11	148.9	A	API/A	4662	2599
108520125	G		IOMSAT-B12	-109.2	C	CR/C	2216	2627
107540334	G		IOMSAT-B13	61.5	A	API/A	4664	2599
107540335	G		IOMSAT-B14	41.5	A	API/A	4665	2599
107540336	G		IOMSAT-B15	64.9	A	API/A	4666	2599
107540337	G		IOMSAT-B16	66.9	A	API/A	4667	2599
107540323	G		IOMSAT-B2	54.1	A	API/A	4653	2599
107540324	G		IOMSAT-B3	58.2	A	API/A	4654	2599
107540325	G		IOMSAT-B4	70.9	A	API/A	4655	2599
107540326	G		IOMSAT-B5	74.5	A	API/A	4656	2599
107540327	G		IOMSAT-B6	84.5	A	API/A	4657	2599
107540328	G		IOMSAT-B7	94.3	A	API/A	4658	2599
107540329	G		IOMSAT-B8	105.3	A	API/A	4659	2599

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107540330	G		IOMSAT-B9	123.4	A	API/A	4660	2599
107520097	G		IOMSAT-KA-1	-72.5	C	CR/C	2019	2621
107540340	G		IOMSAT-KA-105W	-105.0	A	API/A	4670	2599
107540341	G		IOMSAT-KA-107W	-107.0	A	API/A	4671	2599
107540342	G		IOMSAT-KA-113W	-113.0	A	API/A	4672	2599
107540343	G		IOMSAT-KA-117W	-117.0	A	API/A	4673	2599
108540440	G		IOMSAT-KA-63W	-63.0	A	API/A	5278	2628
107540338	G		IOMSAT-KA-76W	-76.0	A	API/A	4668	2599
107540339	G		IOMSAT-KA-87W	-87.0	A	API/A	4669	2599
108520176	G		MSV-46A	46.0	C	CR/C	2262	2633
108520177	G		MSV-46B	46.0	C	CR/C	2263	2633
95500617	G		SKYNET-4A	-1.0	N	PART	2	2329
92500068	G		SKYNET-4B	6.0	N	PART	2	2251
95500150	G		SKYNET-4C	53.0	N	PART	2	2251
98500171	G		SKYNET-4D	-34.0	N	PART	2	2421
104500381	G		SKYNET-4J	-1.0	N	PART	2	2630
104500383	G		SKYNET-4K	6.0	N	PART	2	2603
104500384	G		SKYNET-4L	53.0	N	PART	2	2627
104500382	G		SKYNET-4M	-34.0	N	PART	2	2627
102520115	G		SKYNET-5A	-34.0	C	CR/C	1074	2559
108540484	G		SKYNET-5A-KA	-34.0	A	API/A	5319	2630
102520116	G		SKYNET-5B	-1.0	C	CR/C	1075	2559
108540485	G		SKYNET-5B-KA	-1.0	A	API/A	5320	2630
102520117	G		SKYNET-5C	6.0	C	CR/C	1076	2559
108540486	G		SKYNET-5C-KA	6.0	A	API/A	5321	2630
102520118	G		SKYNET-5D	53.0	C	CR/C	1077	2559
108540487	G		SKYNET-5D-KA	53.0	A	API/A	5322	2630
105520004	G		SKYNET-5E	-17.8	C	CR/C	1532	2625
108540201	G		SKYNET-5F	35.5	A	API/A	5124	2619
106540033	G		SKYNET-IOR1	80.0	A	API/A	4006	2564
106540034	G		SKYNET-IOR2	84.0	A	API/A	4007	2564
106520130	G		SKYNET-IOR3	89.0	C	CR/C	1866	2605
106540036	G		SKYNET-IOR4	93.0	A	API/A	4009	2564
106540037	G		SKYNET-IOR5	97.0	A	API/A	4010	2564
106520231	G		TERRESTAR EUR	-15.4	C	CR/C	1917	2617
106520088	G		UKDIGISAT-3	-33.5	C	CR/C	1829	2623
104520041	G		UKSAT-1	23.5	C	CR/C	1367	2573
104520050	G		UKSAT-10	-95.0	C	CR/C	1365	2573
104520051	G		UKSAT-11	-113.0	C	CR/C	1366	2573
104520114	G		UKSAT-12	-97.0	C	CR/C	1418	2576
107520279	G		UKSAT-13	-97.0	C	CR/C	2118	2635
107520280	G		UKSAT-14	-107.0	C	CR/C	2119	2635
107520281	G		UKSAT-15	-91.0	C	CR/C	2120	2635
107520282	G		UKSAT-16	-109.0	C	CR/C	2121	2635
107520283	G		UKSAT-17	-95.0	C	CR/C	2122	2635
104520042	G		UKSAT-2	21.2	C	CR/C	1368	2573
104520043	G		UKSAT-3	26.2	C	CR/C	1369	2573
104520044	G		UKSAT-4	31.0	C	CR/C	1370	2573
104520045	G		UKSAT-5	100.5	C	CR/C	1371	2573
104520046	G		UKSAT-6	107.8	C	CR/C	1372	2573

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
104520047	G		UKSAT-7	-99.0	C	CR/C	1362	2573
104520048	G		UKSAT-8	-101.0	C	CR/C	1363	2573
104520049	G		UKSAT-9	-103.0	C	CR/C	1364	2573
108520061	G		UKSAT-KU-1	-47.5	C	CR/C	2163	2622
108520062	G		UKSAT-KU-2	-50.0	C	CR/C	2164	2622
107540546	G		UKSAT-KU-3	-64.0	A	API/A	4727	2604
108520063	G		UKSAT-KU-4	-76.0	C	CR/C	2165	2622
108520064	G		UKSAT-KU-5	-84.0	C	CR/C	2166	2622
108520065	G		UKSAT-KU-6	-86.0	C	CR/C	2167	2622
102520244	G		USAT-S1	-105.5	C	CR/C	1147	2559
102500178	G		DMC1	N-GSO	N	PART	2	2554
108520059	G		HIBLEO-KA	N-GSO	C	CR/C	2208	2626
107500097	G		ICO-P	N-GSO	N	PART	2	2609
108520116	G		O3B-A	N-GSO	C	CR/C	2209	2632
106520199	G		SNS	N-GSO	C	CR/C	1897	2616
104500202	G		TOPSAT	N-GSO	N	PART	2	2610
102500251	GRC		HELLAS-SAT	39.0	N	PART	2	2586
108520033	GRC		HELLAS-SAT-2G	39.0	C	CR/C	2168	2622
100500446	HNG		CERES-1	-4.0	N	PART	2	2539
107520029	HOL		BSSNET101W	-101.0	C	CR/C	1931	2610
107520030	HOL		BSSNET105.5W	-105.5	C	CR/C	1932	2610
107520031	HOL		BSSNET110W	-110.0	C	CR/C	1933	2610
107520032	HOL		BSSNET114.5W	-114.5	C	CR/C	1934	2610
107520033	HOL		BSSNET119W	-119.0	C	CR/C	1935	2610
107520248	HOL		BSSNET2-103W	-103.0	C	CR/C	2102	2632
107520249	HOL		BSSNET2-107W	-107.0	C	CR/C	2103	2632
107520250	HOL		BSSNET2-111W	-111.0	C	CR/C	2104	2632
107520251	HOL		BSSNET2-115W	-115.0	C	CR/C	2105	2632
107520252	HOL		BSSNET2-119W	-119.0	C	CR/C	2106	2632
107520246	HOL		BSSNET2-95W	-95.0	C	CR/C	2100	2632
107520247	HOL		BSSNET2-99W	-99.0	C	CR/C	2101	2632
107520028	HOL		BSSNET96.5W	-96.5	C	CR/C	1930	2610
98500068	HOL		INTELSAT IBS 183E	-177.0	N	PART	2	2464
92500290	HOL		INTELSAT IBS 319.5E	-40.5	N	PART	2	2461
102500108	HOL		INTELSAT K 319.5E	-40.5	N	PART	2	2541
92500137	HOL		INTELSAT K 338.5E	-21.5	N	PART	2	2366
102500433	HOL		INTELSAT KA 95E	95.0	N	PART	2	2560
92500212	HOL		INTELSAT5 183E	-177.0	N	PART	2	2366
96500436	HOL		INTELSAT5A 183E	-177.0	N	PART	2	2480
92500194	HOL		INTELSAT5A 319.5E	-40.5	N	PART	2	2366
93500467	HOL		INTELSAT5A 338.5E	-21.5	N	PART	2	2366
101500276	HOL		INTELSAT5A 95E	95.0	N	PART	1	2608
92500181	HOL		INTELSAT5A INDOC2	57.0	N	PART	2	2366
102500289	HOL		INTELSAT7 183E	-177.0	N	PART	2	2616
102500109	HOL		INTELSAT7 319.5E	-40.5	N	PART	2	2563
102500110	HOL		INTELSAT7 338.5E	-21.5	N	PART	2	2564
96500508	HOL		INTELSAT7 57E	57.0	N	PART	2	2545
105500699	HOL		INTELSAT7 95E	95.0	N	PART	2	2580
101500408	HOL		INTELSAT8 183E	-177.0	N	PART	2	2565
101500580	HOL		INTELSAT8 319.5E	-40.5	N	PART	2	2603

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
101500411	HOL		INTELSAT8 338.5E	-21.5	N	PART	2	2543
101500410	HOL		INTELSAT8 57E	57.0	N	PART	2	2579
102500434	HOL		INTELSAT8 95E	95.0	N	PART	2	2571
99520284	HOL		NSS-12	-105.0	C	CR/C	270	2474
105520138	HOL		NSS-14A	-133.0	C	CR/C	1659	2590
100520053	HOL		NSS-16	-22.0	C	CR/C	460	2583
107540749	HOL		NSS-16A	-22.0	A	API/A	4808	2609
100520134	HOL		NSS-18	-40.5	C	CR/C	526	2583
107540750	HOL		NSS-18A	-40.5	A	API/A	4809	2609
100520135	HOL		NSS-19	-177.0	C	CR/C	527	2583
107540751	HOL		NSS-19A	-177.0	A	API/A	4810	2609
101520006	HOL		NSS-20	2.0	C	CR/C	828	2584
107540752	HOL		NSS-20A	2.0	A	API/A	4811	2609
107540753	HOL		NSS-24A	83.0	A	API/A	4812	2609
101520057	HOL		NSS-31	-20.0	C	CR/C	830	2583
107540754	HOL		NSS-31A	-20.0	A	API/A	4813	2609
101520051	HOL		NSS-32	1.0	C	CR/C	928	2583
103520005	HOL		NSS-35	-40.5	C	CR/C	1162	2558
103520006	HOL		NSS-36	57.0	C	CR/C	1167	2513
104520039	HOL		NSS-37	45.0	C	CR/C	1387	2540
107540755	HOL		NSS-37A	45.0	A	API/A	4814	2609
104520040	HOL		NSS-38	35.5	C	CR/C	1388	2540
107540756	HOL		NSS-38A	35.5	A	API/A	4815	2609
105520013	HOL		NSS-40	-148.0	C	CR/C	1531	2585
105540778	HOL		NSS-44	-145.0	A	API/A	3909	2560
105540779	HOL		NSS-45	-90.0	A	API/A	3910	2560
105540780	HOL		NSS-46	-60.0	A	API/A	3911	2560
105540781	HOL		NSS-47	-27.5	A	API/A	3912	2560
105540782	HOL		NSS-48	-21.5	A	API/A	3913	2560
105540783	HOL		NSS-49	38.0	A	API/A	3914	2560
105540784	HOL		NSS-50	80.0	A	API/A	3915	2560
105540785	HOL		NSS-51	141.5	A	API/A	3916	2560
105540786	HOL		NSS-52	-75.5	A	API/A	3917	2560
105540787	HOL		NSS-53	2.0	A	API/A	3918	2560
105540788	HOL		NSS-54	39.0	A	API/A	3919	2560
105540789	HOL		NSS-55	51.0	A	API/A	3920	2560
105540861	HOL		NSS-56	-22.0	A	API/A	3948	2560
106520074	HOL		NSS-57	-40.5	C	CR/C	1850	2603
106540118	HOL		NSS-58	-157.0	A	API/A	4074	2571
106540748	HOL		NSS-59	-177.0	A	API/A	4424	2587
106540749	HOL		NSS-60	-155.0	A	API/A	4425	2587
107540757	HOL		NSS-60A	-155.0	A	API/A	4816	2609
106540750	HOL		NSS-61	-145.0	A	API/A	4426	2587
106540751	HOL		NSS-62	-143.0	A	API/A	4427	2587
107540758	HOL		NSS-62A	-143.0	A	API/A	4817	2609
106540752	HOL		NSS-63	-137.0	A	API/A	4428	2587
106540753	HOL		NSS-64	-135.0	A	API/A	4429	2587
106540754	HOL		NSS-65	-131.0	A	API/A	4430	2587
107540759	HOL		NSS-65A	-131.0	A	API/A	4818	2609
106540755	HOL		NSS-66	-90.0	A	API/A	4431	2587



ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106540756	HOL		NSS-67	-75.5	A	API/A	4432	2587
107540760	HOL		NSS-67A	-75.5	A	API/A	4819	2609
106540757	HOL		NSS-68	-60.0	A	API/A	4433	2587
107540761	HOL		NSS-68A	-60.0	A	API/A	4820	2609
106540758	HOL		NSS-69	-40.5	A	API/A	4434	2587
106540759	HOL		NSS-70	-32.0	A	API/A	4435	2587
106540760	HOL		NSS-71	-27.5	A	API/A	4436	2587
107540762	HOL		NSS-71A	-27.5	A	API/A	4821	2609
106540761	HOL		NSS-72	-22.0	A	API/A	4437	2587
106540762	HOL		NSS-73	-20.0	A	API/A	4438	2587
106540763	HOL		NSS-74	2.0	A	API/A	4439	2587
106540764	HOL		NSS-75	35.5	A	API/A	4440	2587
106540765	HOL		NSS-76	38.0	A	API/A	4441	2587
106540766	HOL		NSS-77	42.5	A	API/A	4442	2587
106540767	HOL		NSS-78	45.0	A	API/A	4443	2587
106540768	HOL		NSS-79	50.8	A	API/A	4444	2634
105500391	HOL		NSS-8	57.0	N	PART	2	2624
106540769	HOL		NSS-80	57.0	A	API/A	4445	2587
107520142	HOL		NSS-81	98.5	C	CR/C	2039	2623
106540771	HOL		NSS-82	141.5	A	API/A	4447	2587
107540763	HOL		NSS-82A	141.5	A	API/A	4822	2609
108520178	HOL		NSS-83A	-67.5	C	CR/C	2264	2633
107540747	HOL		NSS-8A	57.0	A	API/A	4806	2609
105500498	HOL		NSS-9	95.0	N	PART	2	2624
107540748	HOL		NSS-9A	95.0	A	API/A	4807	2609
108540476	HOL		NSS-G1-1	109.0	A	API/A	5312	2629
108540477	HOL		NSS-G1-2	144.0	A	API/A	5313	2629
108540478	HOL		NSS-G1-3	178.0	A	API/A	5314	2629
103520063	HOL		NSS-KA18	-125.0	C	CR/C	1186	2516
104520011	HOL		NSS-KA21	-20.0	C	CR/C	1360	2537
104520014	HOL		NSS-KA25	1.0	C	CR/C	1352	2536
105520024	HOL		NSS-KA29	-148.0	C	CR/C	1534	2554
105520102	HOL		NSS-KA34	-58.0	C	CR/C	1610	2559
105520025	HOL		NSS-KA37	-22.0	C	CR/C	1535	2554
105520026	HOL		NSS-KA38	55.0	C	CR/C	1536	2554
105520027	HOL		NSS-KA39	57.0	C	CR/C	1537	2554
105520130	HOL		NSS-KA40	60.0	C	CR/C	1649	2561
105520028	HOL		NSS-KA41	95.0	C	CR/C	1538	2554
106540613	HOL		OSAT GE	29.6	A	API/A	4375	2634
106540614	HOL		OSAT GW	-10.2	A	API/A	4376	2634
107500088	HOL		DELFI-C3	N-GSO	N	PART	2	2628
106540615	HOL		OSAT	N-GSO	A	API/A	4377	2588
103500082	I	GLS	GALILEO-M-NAVSTAR	N-GSO	N	PART	2	2609
106540294	I		ALPHASTAR-1A	25.0	A	API/A	4272	2578
106540295	I		ALPHASTAR-1B	32.5	A	API/A	4283	2578
106540293	I		ALPHASTAR-1C	13.0	A	API/A	4271	2578
107540003	I		MULTISAT-17.5W	-17.5	A	API/A	4459	2588
107540005	I		MULTISAT-25E	25.0	A	API/A	4461	2588
107540006	I		MULTISAT-38E	38.0	A	API/A	4462	2588
107540004	I		MULTISAT-3W	-3.0	A	API/A	4460	2588

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107540007	I		MULTISAT-49E	49.0	A	API/A	4463	2588
102500428	I		SICRAL-2A	16.2	N	PART	2	2621
104520060	I		SICRAL-3A	16.2	C	CR/C	1391	2574
104520061	I		SICRAL-3B	21.8	C	CR/C	1392	2574
104520187	I		SICRAL-3C	-26.5	C	CR/C	1441	2579
104520188	I		SICRAL-3D	-16.5	C	CR/C	1442	2579
104520189	I		SICRAL-3E	-10.5	C	CR/C	1443	2579
104520329	I		SICRAL-3H	11.8	C	CR/C	1516	2596
108520057	I		SICRAL-4-21.8E	21.8	C	CR/C	2295	2635
107520137	I		SICRAL-4-37E	37.0	C	CR/C	2040	2623
106500322	I		AGILE	N-GSO	N	PART	2	2607
104500001	I		COSMO SKYMED	N-GSO	N	PART	2	2608
102540085	I		DAVID	N-GSO	A	API/A	2274	2573
105500442	I		GEA SAT D	N-GSO	N	PART	2	2607
108520136	IND		ESSELSAT-1	98.5	C	CR/C	2228	2629
107540070	IND		GSAT-7(86)	86.0	A	API/A	4528	2592
107540071	IND		GSAT-7(89)	89.0	A	API/A	4529	2592
90500588	IND		INSAT-1B	74.0	N	PART	2	
90500590	IND		INSAT-1C	93.5	N	PART	2	
90500583	IND		INSAT-1D	83.0	N	PART	2	
102500130	IND		INSAT-2(111.5)	111.5	N	PART	2	2544
101500482	IND		INSAT-2(48)	48.0	N	PART	2	2620
102500027	IND		INSAT-2(55)	55.0	N	PART	2	2583
90504231	IND		INSAT-2(74)	74.0	N	PART	2	2133
90504228	IND		INSAT-2(83)	83.0	N	PART	2	2257
90504230	IND		INSAT-2(93.5)	93.5	N	PART	2	2164
91500221	IND		INSAT-2A	83.0	N	PART	2	2544
91500222	IND		INSAT-2B	93.5	N	PART	2	2544
91500223	IND		INSAT-2C	74.0	N	PART	2	2544
104500369	IND		INSAT-2E74	74.0	N	PART	2	2611
95520201	IND		INSAT-2E82	82.0	C	CR/C	1989	2598
102500028	IND		INSAT-2E83	83.0	N	PART	2	2573
95520199	IND		INSAT-2E93.5	93.5	C	CR/C	2265	2633
97500420	IND		INSAT-2K (74)	74.0	N	PART	2	2412
100500088	IND		INSAT-2K (83)	83.0	N	PART	2	2491
97500421	IND		INSAT-2K (93.5)	93.5	N	PART	2	2412
106500257	IND		INSAT-2M (48)	48.0	N	PART	2	2629
106500256	IND		INSAT-2M (74)	74.0	N	PART	2	2629
106500315	IND		INSAT-2M (83)	83.0	N	PART	2	2629
106500255	IND		INSAT-2M (93.5)	93.5	N	PART	2	2629
106500254	IND		INSAT-2T (48)	48.0	N	PART	2	2586
105500708	IND		INSAT-2T (55)	55.0	N	PART	2	2583
105500707	IND		INSAT-2T (74)	74.0	N	PART	2	2583
105500709	IND		INSAT-2T (93.5)	93.5	N	PART	2	2583
96520358	IND		INSAT-EK48	48.0	C	CR/C	1991	2598
99520086	IND		INSAT-EK48R	48.0	C	CR/C	11	2461
96520359	IND		INSAT-EK55	55.0	C	CR/C	1990	2598
105500128	IND		INSAT-EK55R	55.0	N	PART	2	2622
96520360	IND		INSAT-EK74	74.0	C	CR/C	1992	2598
105500126	IND		INSAT-EK74R	74.0	N	PART	2	2617

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
96520361	IND		INSAT-EK83	83.0	C	CR/C	1993	2598
99520089	IND		INSAT-EK83R	83.0	C	CR/C	14	2462
96520362	IND		INSAT-EK93.5	93.5	C	CR/C	1994	2598
99520090	IND		INSAT-EK93.5R	93.5	C	CR/C	15	2462
107500528	IND		INSAT-EXC55E	55.0	N	PART	2	2624
108540156	IND		INSAT-G5(111.5)	111.5	A	API/A	5086	2616
108540150	IND		INSAT-G5(48)	48.0	A	API/A	5080	2616
108540151	IND		INSAT-G5(55)	55.0	A	API/A	5081	2616
108540152	IND		INSAT-G5(74)	74.0	A	API/A	5082	2616
108540153	IND		INSAT-G5(82)	82.0	A	API/A	5083	2616
108540154	IND		INSAT-G5(83)	83.0	A	API/A	5084	2616
108540155	IND		INSAT-G5(93.5)	93.5	A	API/A	5085	2616
107520154	IND		INSAT-KA111.5	111.5	C	CR/C	2051	2607
107520149	IND		INSAT-KA48	48.0	C	CR/C	2046	2607
107520150	IND		INSAT-KA55	55.0	C	CR/C	2047	2607
107520151	IND		INSAT-KA74	74.0	C	CR/C	2048	2607
108520040	IND		INSAT-KA82	82.0	C	CR/C	2200	2625
107520152	IND		INSAT-KA83	83.0	C	CR/C	2049	2607
107520153	IND		INSAT-KA93.5	93.5	C	CR/C	2050	2607
107540080	IND		INSAT-KAUHF (111.5)	111.5	A	API/A	4538	2592
107540075	IND		INSAT-KAUHF (48)	48.0	A	API/A	4533	2592
107540076	IND		INSAT-KAUHF (55)	55.0	A	API/A	4534	2592
107540077	IND		INSAT-KAUHF (74)	74.0	A	API/A	4535	2592
107540078	IND		INSAT-KAUHF (83)	83.0	A	API/A	4536	2592
107540079	IND		INSAT-KAUHF (93.5)	93.5	A	API/A	4537	2592
105520071	IND		INSAT-KU10(111.5)E	111.5	C	CR/C	1585	2558
105520067	IND		INSAT-KU10(48)E	48.0	C	CR/C	1581	2558
104520208	IND		INSAT-KU10(55)E	55.0	C	CR/C	1473	2547
105520068	IND		INSAT-KU10(74)E	74.0	C	CR/C	1582	2558
105520069	IND		INSAT-KU10(83)E	83.0	C	CR/C	1583	2558
105520070	IND		INSAT-KU10(93.5)E	93.5	C	CR/C	1584	2558
108540093	IND		INSAT-KU11(55)E	55.0	A	API/A	5026	2615
108540189	IND		INSAT-KU113.5	113.5	A	API/A	5110	2619
108540190	IND		INSAT-KU117.5	117.5	A	API/A	5111	2619
108540191	IND		INSAT-KU123.5	123.5	A	API/A	5112	2619
106540006	IND		INSAT-KU126	126.0	A	API/A	3993	2563
107540508	IND		INSAT-KU71.5	71.5	A	API/A	4714	2602
107520224	IND		INSAT-KU78	78.0	C	CR/C	2093	2614
107520225	IND		INSAT-KU88	88.0	C	CR/C	2094	2614
104520087	IND		INSAT-MET(82E)	82.0	C	CR/C	1407	2542
104520088	IND		INSAT-MET(94E)	94.0	C	CR/C	1408	2542
108520016	IND		INSAT-MSS-NG(111.5)	111.5	C	CR/C	2207	2625
108520011	IND		INSAT-MSS-NG(48)	48.0	C	CR/C	2217	2628
108520012	IND		INSAT-MSS-NG(55)	55.0	C	CR/C	2218	2628
108520013	IND		INSAT-MSS-NG(74)	74.0	C	CR/C	2219	2628
108520014	IND		INSAT-MSS-NG(83)	83.0	C	CR/C	2205	2625
108520015	IND		INSAT-MSS-NG(93.5)	93.5	C	CR/C	2206	2625
108520070	IND		INSAT-NAV(131.5)	131.5	C	CR/C	2204	2625
106520155	IND		INSAT-NAV(132)	132.0	C	CR/C	1887	2618
106520153	IND		INSAT-NAV(34)	34.0	C	CR/C	1885	2618

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107520285	IND		INSAT-NAV(55)	55.0	C	CR/C	2123	2635
104520332	IND		INSAT-NAV(82)	82.0	C	CR/C	1520	2598
106520154	IND		INSAT-NAV(83)	83.0	C	CR/C	1886	2609
108520075	IND		INSAT-NAV-A(132)	132.0	C	CR/C	2198	2624
108520073	IND		INSAT-NAV-A(34)	34.0	C	CR/C	2196	2624
108520074	IND		INSAT-NAV-A(83)	83.0	C	CR/C	2197	2624
107520115	IND		INSAT-TTC(111.5)E	111.5	C	CR/C	2032	2635
107520110	IND		INSAT-TTC(48)E	48.0	C	CR/C	2027	2635
107520111	IND		INSAT-TTC(55)E	55.0	C	CR/C	2028	2635
107520112	IND		INSAT-TTC(74)E	74.0	C	CR/C	2029	2635
107520113	IND		INSAT-TTC(83)E	83.0	C	CR/C	2030	2635
107520114	IND		INSAT-TTC(93.5)E	93.5	C	CR/C	2031	2635
90504397	IND		ASLV	N-GSO	N	PART	2	
107540050	IND		CHANDRAYAAN-1	N-GSO	A	API/A	4508	2604
104540474	IND		HAMSAT	N-GSO	A	API/A	3291	2591
108520024	IND		INSAT-NAV-A-GS	N-GSO	C	CR/C	2160	2621
106520156	IND		INSAT-NAV-GS	N-GSO	C	CR/C	1892	2609
90504414	IND		IRS-1B	N-GSO	N	PART	2	
99500030	IND		IRS-1C	N-GSO	N	PART	2	2446
99500029	IND		IRS-1E	N-GSO	N	PART	2	2446
105540280	IND		IRS-CARTOSAT-2	N-GSO	A	API/A	3632	2546
99500139	IND		IRS-P4	N-GSO	N	PART	2	2516
105540231	IND		IRS-P5	N-GSO	A	API/A	3609	2545
93500010	IND		PSLV	N-GSO	N	PART	2	2148
90504631	IND		RS-D2	N-GSO	N	PART	2	
90504633	IND		SEO BHASKARA-1	N-GSO	N	PART	2	
90504634	IND		SEO BHASKARA-2	N-GSO	N	PART	2	
87500010	IND		SROSS-1	N-GSO	N	PART	2	1944
94500357	IND		SROSS-3	N-GSO	N	PART	2	2223
108540230	IND		TWSAT	N-GSO	A	API/A	5129	2633
94520235	INS		GARUDA-1	118.0	C	AR11/C	2526	2444
103520019	INS		GARUDA-1A	118.0	C	CR/C	1168	2513
105500155	INS		GARUDA-2	123.0	N	PART	2	2622
104520159	INS		GARUDA-4A	80.5	C	CR/C	1483	2581
99500073	INS		INDOSTAR-1	107.7	N	PART	2	2495
107520011	INS		INDOSTAR-107.7E	107.7	C	CR/C	1940	2613
107520143	INS		INDOSTAR-107.7E-K	107.7	C	CR/C	2043	2606
107520260	INS		INDOSTAR-110E	110.0	C	CR/C	2110	2616
108520042	INS		INDOSTAR-110E-K	110.0	C	CR/C	2283	2635
107520012	INS		INDOSTAR-118E	118.0	C	CR/C	1941	2613
107520172	INS		INDOSTAR-1A	107.7	C	CR/C	2068	2626
95520171	INS		PALAPA PAC-3 C	144.0	C	CR/C	308	2604
107520158	INS		PALAPA PAC-3R	144.0	C	CR/C	2072	2621
99520001	INS		PALAPA PAC-C 146E	146.0	C	CR/C	9	2461
104500391	INS		PALAPA PACIFIC-3	144.0	N	PART	2	2600
99520203	INS		PALAPA PAC-KU 146E	146.0	C	CR/C	10	2607
90500037	INS		PALAPA-B1	108.0	N	PART	2	2577
97520053	INS		PALAPA-B1-EC	108.0	C	AR11/C	3108	2349
90500039	INS		PALAPA-B2	113.0	N	PART	2	2258
90500001	INS		PALAPA-B3	118.0	N	PART	2	2526

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
105520066	INS		PALAPA-B3 TT&C	118.0	C	CR/C	1678	2565
97520054	INS		PALAPA-B3-EC	118.0	C	CR/C	2247	2632
102500197	INS		PALAPA-C1	113.0	N	PART	2	2526
103500163	INS		PALAPA-C2	108.0	N	PART	2	2615
93520116	INS		PALAPA-C3	118.0	C	CR/C	1674	2564
97520009	INS		PALAPA-C3-X	118.0	C	CR/C	442	2481
94520078	INS		PALAPA-C4	150.5	C	CR/C	1175	2615
107540135	INS		PALAPA-C4-A	150.5	A	API/A	4612	2597
108520068	INS		TELKOM-3EK	118.0	C	CR/C	2296	2635
105500657	INS		LAPAN-TUBSAT	N-GSO	N	PART	2	2609
93500331	IRN		ZOHREH-1	34.0	N	PART	2	2192
93500332	IRN		ZOHREH-2	26.0	N	PART	2	2192
93500333	IRN		ZOHREH-3	47.0	N	PART	2	2180
107540638	IRN		ZOHREH-3A/PETROSAT	47.0	A	API/A	4789	2608
101500402	IRN		MESBAH	N-GSO	N	PART	2	2632
100544033	IRN		MESBAH-1	N-GSO	A	API/A	1402	2425
107540635	IRN		MESBAH-2	N-GSO	A	API/A	4787	2621
108540404	IRN		OMID	N-GSO	A	API/A	5261	2633
105500147	IRN		SINA-1	N-GSO	N	PART	2	2632
99500251	ISR		AMOS 1-B	-4.0	N	PART	2	2575
101520379	ISR		AMOS 2-B	-4.0	C	CR/C	1054	2590
106520010	ISR		AMOS 3-A	-4.0	C	CR/C	1781	2635
106520125	ISR		AMOS 5-B	69.5	C	CR/C	1860	2604
106520126	ISR		AMOS 5-C	73.5	C	CR/C	1861	2604
101500600	ISR		AMOS-II 4W	-4.0	N	PART	2	2549
107540172	ISR		AMS-4-61E	61.0	A	API/A	4620	2597
107540173	ISR		AMS-4-63E	63.0	A	API/A	4621	2597
107520263	ISR		AMS-4-65E	65.0	C	CR/C	2109	2633
108520027	ISR		AMS-4-67.25E	67.3	C	CR/C	2147	2620
107540320	ISR		AMS-CK-22E	22.0	A	API/A	4679	2599
107540823	ISR		AMS-CK-30.5E	30.5	A	API/A	4867	2612
107540321	ISR		AMS-CK-36E	36.0	A	API/A	4680	2599
107540318	ISR		AMS-CK-3W	-3.0	A	API/A	4677	2599
107540824	ISR		AMS-CK-45E	45.0	A	API/A	4868	2612
107540319	ISR		AMS-CK-6E	6.0	A	API/A	4678	2599
108540428	ISR		SPARTAN I	-137.0	A	API/A	5271	2627
108540429	ISR		SPARTAN II	-123.0	A	API/A	5272	2627
108540430	ISR		SPARTAN III	-129.0	A	API/A	5273	2627
100500371	ISR		EROS	N-GSO	N	PART	2	2554
105520064	J		BBISS-A	143.0	C	CR/C	1570	2585
105520065	J		BBISS-C	146.0	C	CR/C	1571	2585
90500073	J		BS-3	110.0	N	PART	2	
103500094	J		BS-3N	109.9	N	PART	2	2607
100500188	J		BSAT-109.85	109.9	N	PART	2	2506
100500189	J		BSAT-110	110.0	N	PART	2	2504
90500122	J		CS-3B	136.0	N	PART	2	
105500223	J		DRTS-90.75E	90.8	N	PART	2	2632
98520846	J		D-STAR-1	132.0	C	CR/C	272	2610
98520847	J		D-STAR-2	136.0	C	CR/C	273	2610
104520333	J		ETS-8	146.0	C	CR/C	1518	2584

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
97520142	J		ETS-8-129E	129.0	C	CR/C	887	2608
97520143	J		ETS-8-135E	135.0	C	CR/C	888	2608
90500464	J		GMS-120E	120.0	N	PART	2	
95500020	J		GMS-140E	140.0	N	PART	2	2356
90500472	J		GMS-160E	160.0	N	PART	2	
90500066	J		JCSAT-1	150.0	N	PART	2	2510
103500133	J		JCSAT-1R	150.0	N	PART	2	2611
90500242	J		JCSAT-2	154.0	N	PART	2	2510
103500132	J		JCSAT-2R	154.0	N	PART	2	2572
103500134	J		JCSAT-3A	128.0	N	PART	2	2578
103500135	J		JCSAT-3B	124.0	N	PART	2	2631
103520056	J		JCSAT-FO-124E	124.0	C	CR/C	1233	2564
103520057	J		JCSAT-FO-128E	128.0	C	CR/C	1234	2564
103520058	J		JCSAT-FO-132E	132.0	C	CR/C	1235	2564
103520059	J		JCSAT-FO-136E	136.0	C	CR/C	1236	2564
103520060	J		JCSAT-FO-150E	150.0	C	CR/C	1237	2564
103520061	J		JCSAT-FO-154E	154.0	C	CR/C	1238	2564
102520197	J		JCSAT-T-127.5E	127.5	C	CR/C	1142	2506
104500620	J		JMCS-1	144.0	N	PART	2	2612
105500335	J		JMCS-1R	144.0	N	PART	2	2623
107500115	J		JMCS-2	110.0	N	PART	2	2624
105500336	J		JMCS-3A	158.0	N	PART	2	2624
100543957	J		JMCS-3A EHF	158.0	A	API/A	1348	2422
105500227	J		JMCS-3B	162.0	N	PART	2	2606
106520228	J		JMCS-72E	72.0	C	CR/C	1914	2609
106520229	J		JMCS-82E	82.0	C	CR/C	1915	2609
106520230	J		JMCS-93E	93.0	C	CR/C	1916	2609
108520005	J		JMCS-A4-X	158.0	C	CR/C	2152	2620
108520006	J		JMCS-B4-X	162.0	C	CR/C	2153	2620
104520331	J		JMCS-C2-X	144.0	C	CR/C	1515	2584
108520007	J		JMCS-D2-X	110.0	C	CR/C	2154	2620
105500039	J		MTSAT-140E	140.0	N	PART	2	2609
102520153	J		MTSAT-B-135E	135.0	C	CR/C	1095	2601
102520152	J		MTSAT-B-140E	140.0	C	CR/C	1096	2601
102520154	J		MTSAT-B-145E	145.0	C	CR/C	1097	2601
107520018	J		MTSAT-C-135E	135.0	C	CR/C	1945	2631
107520019	J		MTSAT-C-140E	140.0	C	CR/C	1946	2615
107520020	J		MTSAT-C-145E	145.0	C	CR/C	1947	2615
101500489	J		N-SAT-110	110.0	N	PART	2	2635
98520808	J		N-SAT-110E	110.0	C	CR/C	211	2471
107520016	J		N-SAT-118E	118.0	C	CR/C	1984	2617
108520048	J		N-SAT-124E	124.0	C	CR/C	2229	2630
98520092	J		N-SAT-127W	-127.0	C	CR/C	568	2582
101500531	J		N-SAT-128	128.0	N	PART	2	2616
108520049	J		N-SAT-128E	128.0	C	CR/C	2230	2630
107520138	J		N-SAT-143.72E	143.7	C	CR/C	2038	2623
107540550	J		N-SAT-144E	144.0	A	API/A	4731	2604
97500365	J		N-SAT-146	144.0	N	PART	2	2408
107540551	J		N-SAT-158E	158.0	A	API/A	4732	2604
108520043	J		N-SAT-162E	162.0	C	CR/C	2169	2623

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108540400	J		N-SAT2-110E	110.0	A	API/A	5257	2625
106540302	J		N-SAT2-164W	-164.0	A	API/A	4278	2578
106540303	J		N-SAT2-165W	-165.0	A	API/A	4279	2578
107520013	J		N-SAT2-173W	-173.0	C	CR/C	1944	2616
106540305	J		N-SAT2-180E	180.0	A	API/A	4281	2578
106520234	J		N-SAT-72E	72.0	C	CR/C	1918	2609
108520045	J		N-SAT-75E	75.0	C	CR/C	2157	2621
106520235	J		N-SAT-82E	82.0	C	CR/C	1919	2609
106520203	J		N-SAT-85.15E	85.2	C	CR/C	1899	2611
106520202	J		N-SAT-85E	85.0	C	CR/C	1898	2611
106520236	J		N-SAT-88E	88.0	C	CR/C	1920	2609
106520237	J		N-SAT-90.75E	90.8	C	CR/C	1921	2609
106520238	J		N-SAT-93E	93.0	C	CR/C	1922	2609
106520204	J		N-SAT-97.8E	97.8	C	CR/C	1900	2611
106540100	J		N-SAT-98.2E	98.2	A	API/A	4055	2570
106520205	J		N-SAT-98.5E	98.5	C	CR/C	1901	2611
106540099	J		N-SAT-98E	98.0	A	API/A	4054	2570
107540096	J		N-SAT-M-124E	124.0	A	API/A	4548	2593
107540097	J		N-SAT-M-128E	128.0	A	API/A	4549	2593
108520047	J		N-SAT-M-132E	132.0	C	CR/C	2158	2630
107520195	J		N-SAT-M-136E	136.0	C	CR/C	2078	2635
107520196	J		N-SAT-M-150E	150.0	C	CR/C	2079	2635
107540101	J		N-SAT-M-154E	154.0	A	API/A	4553	2593
107520017	J		N-SAT-T-126.4E	126.4	C	CR/C	2034	2604
95500133	J		N-STAR-A	132.0	N	PART	2	2609
98520844	J		N-STAR-A2	132.0	C	CR/C	1179	2568
95500571	J		N-STAR-B	136.0	N	PART	2	2616
98520845	J		N-STAR-B2	136.0	C	CR/C	1180	2568
107520217	J		N-STAR-E	136.0	C	CR/C	2083	2631
107520218	J		N-STAR-F	132.0	C	CR/C	2084	2631
98520067	J		SB-SAT-144	144.0	C	CR/C	329	2543
103520215	J		SB-SAT-A-135	135.0	C	CR/C	1245	2522
103520216	J		SB-SAT-A-144	144.0	C	CR/C	1246	2522
103520217	J		SB-SAT-A-154	154.0	C	CR/C	1247	2522
104520008	J		SB-SAT-L-135	135.0	C	CR/C	1343	2571
104520009	J		SB-SAT-L-144	144.0	C	CR/C	1344	2571
104520010	J		SB-SAT-L-154	154.0	C	CR/C	1345	2571
101500530	J		SJC-1	124.0	N	PART	2	2621
90500373	J		SUPERBIRD-A	158.0	N	PART	2	2597
104500273	J		SUPERBIRD-A2	158.0	N	PART	2	2595
104500274	J		SUPERBIRD-A2-KA	158.0	N	PART	2	2599
103520214	J		SUPERBIRD-A2-R	158.0	C	CR/C	1241	2621
90500376	J		SUPERBIRD-B	162.0	N	PART	2	2596
103500226	J		SUPERBIRD-B2	162.0	N	PART	2	2616
97520209	J		SUPERBIRD-B2-KA	162.0	C	CR/C	781	2582
103520213	J		SUPERBIRD-B2-R	162.0	C	CR/C	1242	2575
103500169	J		SUPERBIRD-C	144.0	N	PART	2	2607
103520212	J		SUPERBIRD-C2	144.0	C	CR/C	1243	2613
103520292	J		WINDS-A	143.0	C	CR/C	1286	2582
105500548	J		WINDS-B	146.0	N	PART	2	2633

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
103520294	J		WINDS-C	144.5	C	CR/C	1288	2582
107500101	J		ALOS	N-GSO	N	PART	2	2627
108520003	J		ALOSSAR	N-GSO	C	CR/C	2199	2625
106540471	J		AS20-01	N-GSO	A	API/A	4288	2580
100500051	J		ASTRO-E	N-GSO	N	PART	2	2582
106500126	J		ASTRO-F	N-GSO	N	PART	2	2608
105540889	J		CUTE-1.7	N-GSO	A	API/A	3956	2563
107540032	J		CUTE1.7+APD II	N-GSO	A	API/A	4485	2604
103540253	J		CUTE-I	N-GSO	A	API/A	2669	2496
107540073	J		EXCELSIOR	N-GSO	A	API/A	4531	2605
90504408	J		EXOS-D	N-GSO	N	PART	2	2609
92500295	J		GEOTAIL	N-GSO	N	PART	2	2616
106540548	J		GOSAT	N-GSO	A	API/A	4364	2583
106540270	J		HIT-SAT	N-GSO	A	API/A	4228	2579
106540046	J		HTV-R	N-GSO	A	API/A	4019	2565
105500237	J		INDEX-1	N-GSO	N	PART	2	2607
105540487	J		ISS-JEM-ICS-R	N-GSO	A	API/A	3833	2554
106540047	J		ISS-PROX-R	N-GSO	A	API/A	4020	2565
90504424	J		JAS-1B	N-GSO	N	PART	2	2555
96500425	J		JAS-2	N-GSO	N	PART	2	2555
106540716	J		KAGSAT	N-GSO	A	API/A	4422	2587
107540234	J		KKS-1	N-GSO	A	API/A	4647	2612
97500353	J		MUSES-B	N-GSO	N	PART	2	2555
107500169	J		MUSES-C	N-GSO	N	PART	2	2621
107540215	J		NANO-JASMINE	N-GSO	A	API/A	4637	2612
104500548	J		N-SAT-HEO2	N-GSO	N	PART	2	2603
104520018	J		N-SAT-HEO3	N-GSO	C	CR/C	1342	2616
108500014	J		OICETS-R	N-GSO	N	PART	2	2635
107540001	J		PLANET-C	N-GSO	A	API/A	4457	2588
107540072	J		PRISM1	N-GSO	A	API/A	4530	2616
106540666	J		PRISM2	N-GSO	A	API/A	4383	2586
107520015	J		QZSS-1	N-GSO	C	CR/C	1952	2623
107540501	J		SDS-1	N-GSO	A	API/A	4707	2626
104540404	J		SEEDS	N-GSO	A	API/A	3243	2525
107500038	J		SELENE-MSTAR	N-GSO	N	PART	2	2629
107500039	J		SELENE-RSTAR	N-GSO	N	PART	2	2629
107500040	J		SELENE-VSTAR	N-GSO	N	PART	2	2630
106540298	J		SERVIS-2	N-GSO	A	API/A	4274	2579
107540102	J		SOHLA1	N-GSO	A	API/A	4554	2610
107540029	J		SOHLA-1	N-GSO	A	API/A	4483	2590
107540103	J		SOHLA2	N-GSO	A	API/A	4555	2610
107540081	J		SOHLA-2	N-GSO	A	API/A	4539	2618
106500327	J		SOLAR-B	N-GSO	N	PART	2	2608
107540176	J		SORUNSAT-1	N-GSO	A	API/A	4624	2612
107540217	J		SPRITE-SAT	N-GSO	A	API/A	4638	2627
107540108	J		SPROUT	N-GSO	A	API/A	4560	2616
107540160	J		STARS	N-GSO	A	API/A	4611	2631
105540489	J		SUBPAYLOAD	N-GSO	A	API/A	3835	2555
107500006	J		WEOS-R	N-GSO	N	PART	2	2610
108500625	J		XI-IV	N-GSO	N	PART	2	2635



ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108500626	J		XI-V	N-GSO	N	PART	2	2635
105520358	KAZ		KAZSAT1	58.5	C	CR/C	1739	2615
108540105	KAZ		KAZSAT10	43.0	A	API/A	5076	2615
108540106	KAZ		KAZSAT11	99.2	A	API/A	5077	2615
107520191	KAZ		KAZSAT1M	58.5	C	CR/C	2074	2630
106520243	KAZ		KAZSAT2	86.5	C	CR/C	1927	2610
107520192	KAZ		KAZSAT2M	86.5	C	CR/C	2075	2630
107520042	KAZ		KAZSAT3	55.0	C	CR/C	1948	2615
107520193	KAZ		KAZSAT3M	55.0	C	CR/C	2076	2630
106540776	KAZ		KAZSAT4	56.4	A	API/A	4452	2588
106540777	KAZ		KAZSAT5	49.3	A	API/A	4453	2588
106540778	KAZ		KAZSAT6	67.3	A	API/A	4454	2588
106540779	KAZ		KAZSAT7	77.5	A	API/A	4455	2588
106540780	KAZ		KAZSAT8	88.7	A	API/A	4456	2588
108540104	KAZ		KAZSAT9	34.3	A	API/A	5075	2615
108540097	KAZ		KAZSAT-T2	86.5	A	API/A	5068	2615
108540098	KAZ		KAZSAT-T3	55.0	A	API/A	5069	2615
108540099	KAZ		KAZSAT-T4	56.4	A	API/A	5070	2615
108540100	KAZ		KAZSAT-T5	49.3	A	API/A	5071	2615
108540101	KAZ		KAZSAT-T6	67.3	A	API/A	5072	2615
108540102	KAZ		KAZSAT-T7	77.5	A	API/A	5073	2615
108540103	KAZ		KAZSAT-T8	88.7	A	API/A	5074	2615
104520199	KOR		COMS-116.2E	116.2	C	CR/C	1460	2580
104520200	KOR		COMS-128.2E	128.2	C	CR/C	1461	2580
98520420	KOR		DACOMSAT-10KU	129.0	C	AR11/C	3526	2463
98520421	KOR		DACOMSAT-11KU	155.0	C	AR11/C	3527	2463
98520418	KOR		DACOMSAT-8KU	107.0	C	AR11/C	3524	2463
98520273	KOR		DACOMSAT-9KA	109.0	C	CR/C	89	2466
98520419	KOR		DACOMSAT-9KU	109.0	C	AR11/C	3525	2463
98520277	KOR		DACOMSAT-9X	109.0	C	AR11/C	3546	2463
105520157	KOR		IMTSAT-3	116.0	C	CR/C	1667	2593
105520158	KOR		IMTSAT-4	128.2	C	CR/C	1668	2593
105520159	KOR		IMTSAT-5	144.0	C	CR/C	1669	2593
96520112	KOR		INFOSAT-B	113.0	C	CR/C	1996	2598
99500246	KOR		INFOSAT-C	116.0	N	PART	2	2557
107520230	KOR		KORBSAT-113E	113.0	C	CR/C	2097	2631
107520231	KOR		KORBSAT-116E	116.0	C	CR/C	2098	2631
107520232	KOR		KORBSAT-128.2E	128.2	C	CR/C	2099	2631
107540164	KOR		KORBSAT-144E	144.0	A	API/A	4610	2596
95500170	KOR		KOREASAT-1	116.0	N	PART	2	2589
107520223	KOR		KOREASAT-103.2E	103.2	C	CR/C	2127	2618
103520156	KOR		KOREASAT-113	113.0	C	CR/C	1212	2560
98520416	KOR		KOREASAT-113E	113.0	C	AR11/C	3556	2433
98520408	KOR		KOREASAT-113X	113.0	C	CR/C	485	2539
104520002	KOR		KOREASAT-116D	116.0	C	CR/C	1351	2571
95500171	KOR		KOREASAT-2	113.0	N	PART	2	2489
107500608	KOR		SKDAB-2	144.0	N	PART	2	2615
106500298	KOR		HAUSAT-1	N-GSO	N	PART	2	2607
107500037	KOR		KAISTSAT-4	N-GSO	N	PART	2	2614
93500300	KOR		KITSAT-1	N-GSO	N	PART	2	2577

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
94500234	KOR		KITSAT-2	N-GSO	N	PART	2	2577
100500019	KOR		KITSAT-3	N-GSO	N	PART	2	2577
100500017	KOR		KOMPSAT-1	N-GSO	N	PART	2	2577
106500084	KOR		KOMPSAT-2	N-GSO	N	PART	2	2632
105540152	KOR		STSAT-2	N-GSO	A	API/A	3531	2542
108540261	LAO		LAOSAT-128.5E	128.5	A	API/A	5145	2621
107500529	LBY		LIBSAT-02-28.5E	28.9	N	PART	2	2617
105500102	LBY		LIBSAT I-01	N-GSO	N	PART	2	2608
104540370	LBY		LIBSAT I-02	N-GSO	A	API/A	3219	2523
104540371	LBY		LIBSAT I-03	N-GSO	A	API/A	3220	2523
90500682	LUX		GDL-6	19.2	N	PART	2	2633
101500598	LUX		GDL-6(30B)	19.2	N	PART	2	2577
101500585	LUX		GDL-7	19.2	N	PART	2	2502
107500361	LUX		LUX-24.2E	24.2	N	PART	2	2633
107500150	LUX		LUX-28.2E	28.2	N	PART	2	2633
107500174	LUX		LUX-30B-5	19.2	N	PART	2	2616
107500175	LUX		LUX-30B-6	23.5	N	PART	2	2616
107500176	LUX		LUX-30B-7	28.2	N	PART	2	2616
107500177	LUX		LUX-30B-8	21.5	N	PART	2	2616
103520556	LUX		LUX-G3-1	1.0	C	CR/C	1373	2574
103520553	LUX		LUX-G3-19.2E	19.2	C	CR/C	1380	2574
103520557	LUX		LUX-G3-2	5.0	C	CR/C	1374	2574
103520554	LUX		LUX-G3-24.2E	23.5	C	CR/C	1381	2574
104520141	LUX		LUX-G3-26-A	-129.0	C	CR/C	1426	2576
104520080	LUX		LUX-G3-27-A	-123.0	C	CR/C	1400	2575
103520555	LUX		LUX-G3-28.2E	28.2	C	CR/C	1382	2574
104520198	LUX		LUX-G3-29-B	-105.0	C	CR/C	1459	2580
103520558	LUX		LUX-G3-3	13.0	C	CR/C	1375	2574
103520380	LUX		LUX-G3-30-A	-101.0	C	CR/C	1315	2569
103520381	LUX		LUX-G3-31-A	-87.0	C	CR/C	1316	2569
104520102	LUX		LUX-G3-31-B	-85.0	C	CR/C	1412	2576
103520382	LUX		LUX-G3-32-A	-79.0	C	CR/C	1317	2569
105520090	LUX		LUX-G3-32-B	-81.0	C	CR/C	1591	2616
103520383	LUX		LUX-G3-33-A	-72.0	C	CR/C	1318	2569
103520563	LUX		LUX-G3-37	-37.2	C	CR/C	1383	2574
103520564	LUX		LUX-G3-38	-30.0	C	CR/C	1384	2574
103520559	LUX		LUX-G3-4	31.0	C	CR/C	1376	2574
103520565	LUX		LUX-G3-40	-13.0	C	CR/C	1385	2574
103520560	LUX		LUX-G3-5	38.5	C	CR/C	1377	2574
103520561	LUX		LUX-G3-6	45.0	C	CR/C	1378	2574
103520562	LUX		LUX-G3-8	63.0	C	CR/C	1379	2574
106520147	LUX		LUX-G4-24	103.0	C	CR/C	1879	2607
106520224	LUX		LUX-G4-48	-147.6	C	CR/C	1909	2609
106520225	LUX		LUX-G4-49	-143.0	C	CR/C	1910	2609
106520109	LUX		LUX-G4-49B	-139.0	C	CR/C	1845	2603
106520100	LUX		LUX-G4-5	19.2	C	CR/C	1841	2603
106520135	LUX		LUX-G4-50A	-138.0	C	CR/C	1868	2605
106520110	LUX		LUX-G4-50B	-137.0	C	CR/C	1846	2603
106520111	LUX		LUX-G4-51B	-135.0	C	CR/C	1847	2603
106520157	LUX		LUX-G4-52B	-131.0	C	CR/C	1891	2607

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106520226	LUX		LUX-G4-55	-114.5	C	CR/C	1911	2609
106520136	LUX		LUX-G4-56A	-111.1	C	CR/C	1869	2605
106520137	LUX		LUX-G4-57A	-109.2	C	CR/C	1870	2605
106520138	LUX		LUX-G4-58A	-103.0	C	CR/C	1871	2605
106520139	LUX		LUX-G4-59A	-99.0	C	CR/C	1872	2605
106520101	LUX		LUX-G4-6	23.5	C	CR/C	1842	2603
106520140	LUX		LUX-G4-64A	-77.0	C	CR/C	1873	2605
106520227	LUX		LUX-G4-67	-61.9	C	CR/C	1912	2609
106520102	LUX		LUX-G4-7	28.2	C	CR/C	1843	2603
106520103	LUX		LUX-G4-8	31.5	C	CR/C	1844	2603
106540181	LUX		LUX-G5-1	0.2	A	API/A	4135	2605
106540190	LUX		LUX-G5-10	40.7	A	API/A	4144	2605
106540191	LUX		LUX-G5-11	45.2	A	API/A	4145	2605
106540192	LUX		LUX-G5-12	47.5	A	API/A	4146	2605
106540193	LUX		LUX-G5-13	54.2	A	API/A	4147	2605
106540194	LUX		LUX-G5-14	58.7	A	API/A	4148	2605
106540195	LUX		LUX-G5-15	63.2	A	API/A	4149	2605
106540196	LUX		LUX-G5-16	67.7	A	API/A	4150	2605
106540197	LUX		LUX-G5-17	72.2	A	API/A	4151	2605
106540198	LUX		LUX-G5-18	76.7	A	API/A	4152	2605
106540199	LUX		LUX-G5-19	81.2	A	API/A	4153	2605
106540182	LUX		LUX-G5-2	4.7	A	API/A	4136	2605
106540200	LUX		LUX-G5-20	85.7	A	API/A	4154	2605
106540201	LUX		LUX-G5-21	90.2	A	API/A	4155	2605
106540202	LUX		LUX-G5-22	94.7	A	API/A	4156	2605
106540203	LUX		LUX-G5-23	99.2	A	API/A	4157	2605
106540204	LUX		LUX-G5-24	103.7	A	API/A	4158	2605
107520136	LUX		LUX-G5-25	108.2	C	CR/C	2035	2627
106540206	LUX		LUX-G5-26	112.7	A	API/A	4160	2605
106540207	LUX		LUX-G5-27	117.2	A	API/A	4161	2605
106540208	LUX		LUX-G5-28	121.7	A	API/A	4162	2605
106540209	LUX		LUX-G5-29	126.2	A	API/A	4163	2605
106540183	LUX		LUX-G5-3	9.2	A	API/A	4137	2605
106540210	LUX		LUX-G5-30	130.7	A	API/A	4164	2605
106540211	LUX		LUX-G5-31	135.2	A	API/A	4165	2605
106540212	LUX		LUX-G5-32	139.7	A	API/A	4166	2605
106540213	LUX		LUX-G5-33	144.2	A	API/A	4167	2605
106540214	LUX		LUX-G5-34	148.7	A	API/A	4168	2605
106540215	LUX		LUX-G5-35	153.2	A	API/A	4169	2605
106540216	LUX		LUX-G5-36	157.7	A	API/A	4170	2605
106540217	LUX		LUX-G5-37	162.2	A	API/A	4171	2605
106540218	LUX		LUX-G5-38	166.7	A	API/A	4172	2605
106540219	LUX		LUX-G5-39	171.2	A	API/A	4173	2605
106540184	LUX		LUX-G5-4	13.7	A	API/A	4138	2605
106540220	LUX		LUX-G5-40	175.7	A	API/A	4174	2605
106540221	LUX		LUX-G5-41	-179.8	A	API/A	4175	2605
106540222	LUX		LUX-G5-42	175.3	A	API/A	4176	2605
106540223	LUX		LUX-G5-43	-170.8	A	API/A	4177	2605
106540224	LUX		LUX-G5-44	-166.3	A	API/A	4178	2605
106540225	LUX		LUX-G5-45	-161.8	A	API/A	4179	2605

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106540226	LUX		LUX-G5-46	157.3	A	API/A	4180	2605
106540227	LUX		LUX-G5-47	-157.3	A	API/A	4181	2605
106540228	LUX		LUX-G5-48	-148.3	A	API/A	4182	2605
106540229	LUX		LUX-G5-49	-143.8	A	API/A	4183	2605
106540185	LUX		LUX-G5-5	18.2	A	API/A	4139	2605
106540230	LUX		LUX-G5-50	-139.3	A	API/A	4184	2605
107520091	LUX		LUX-G5-51	-135.0	C	CR/C	2020	2621
107520092	LUX		LUX-G5-52	-131.0	C	CR/C	2021	2621
107520093	LUX		LUX-G5-53	-127.0	C	CR/C	2022	2621
107520094	LUX		LUX-G5-54	-123.0	C	CR/C	2023	2621
106540235	LUX		LUX-G5-55	-116.8	A	API/A	4189	2605
108520137	LUX		LUX-G5-56	-107.3	C	CR/C	2226	2629
108520028	LUX		LUX-G5-57	-109.2	C	CR/C	2148	2620
106540238	LUX		LUX-G5-58	-103.3	A	API/A	4192	2605
108520138	LUX		LUX-G5-59	-99.0	C	CR/C	2227	2629
106540186	LUX		LUX-G5-6	22.7	A	API/A	4140	2605
107520139	LUX		LUX-G5-60	-95.0	C	CR/C	2036	2634
106540241	LUX		LUX-G5-61	-89.8	A	API/A	4195	2605
107520140	LUX		LUX-G5-62	-83.0	C	CR/C	2037	2623
107520045	LUX		LUX-G5-63	-79.0	C	CR/C	1950	2626
107520095	LUX		LUX-G5-64	-75.0	C	CR/C	2024	2621
106540245	LUX		LUX-G5-65	-71.8	A	API/A	4199	2605
107520048	LUX		LUX-G5-66	-67.0	C	CR/C	1985	2617
106540247	LUX		LUX-G5-67	-62.8	A	API/A	4201	2605
106540248	LUX		LUX-G5-68	-58.3	A	API/A	4202	2605
106540249	LUX		LUX-G5-69	-53.8	A	API/A	4203	2605
106540187	LUX		LUX-G5-7	27.2	A	API/A	4141	2605
106540250	LUX		LUX-G5-70	-49.3	A	API/A	4204	2605
106540251	LUX		LUX-G5-71	-44.8	A	API/A	4205	2605
106540252	LUX		LUX-G5-72	-40.3	A	API/A	4206	2605
106540253	LUX		LUX-G5-73	-35.8	A	API/A	4207	2605
106540254	LUX		LUX-G5-74	-31.3	A	API/A	4208	2605
106540255	LUX		LUX-G5-75	-26.8	A	API/A	4209	2605
106540256	LUX		LUX-G5-76	-22.3	A	API/A	4210	2605
106540257	LUX		LUX-G5-77	-17.8	A	API/A	4211	2605
106540258	LUX		LUX-G5-78	-13.3	A	API/A	4212	2605
106540259	LUX		LUX-G5-79	-8.8	A	API/A	4213	2605
107520155	LUX		LUX-G5-8	31.5	C	CR/C	2054	2625
106540260	LUX		LUX-G5-80	-4.3	A	API/A	4214	2605
106540189	LUX		LUX-G5-9	36.2	A	API/A	4143	2605
108520152	LUX		LUX-G6-1	1.8	C	CR/C	2236	2632
107540854	LUX		LUX-G6-10	38.5	A	API/A	4878	2614
108520160	LUX		LUX-G6-11	38.8	C	CR/C	2244	2632
108520161	LUX		LUX-G6-12	43.5	C	CR/C	2245	2632
108520162	LUX		LUX-G6-13	51.0	C	CR/C	2246	2632
107540858	LUX		LUX-G6-14	57.0	A	API/A	4882	2614
107540859	LUX		LUX-G6-15	63.0	A	API/A	4883	2614
107540860	LUX		LUX-G6-16	69.0	A	API/A	4884	2614
107540861	LUX		LUX-G6-17	75.0	A	API/A	4885	2614
107540862	LUX		LUX-G6-18	87.0	A	API/A	4886	2614

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107540863	LUX		LUX-G6-19	99.0	A	API/A	4887	2614
108520153	LUX		LUX-G6-2	5.0	C	CR/C	2237	2632
107540864	LUX		LUX-G6-20	108.2	A	API/A	4888	2614
107540865	LUX		LUX-G6-21	113.5	A	API/A	4889	2631
107540866	LUX		LUX-G6-22	120.0	A	API/A	4890	2614
107540867	LUX		LUX-G6-23	126.0	A	API/A	4891	2614
107540868	LUX		LUX-G6-24	132.0	A	API/A	4892	2614
107540869	LUX		LUX-G6-25	150.0	A	API/A	4893	2614
107540870	LUX		LUX-G6-26	156.0	A	API/A	4894	2614
107540871	LUX		LUX-G6-27	162.0	A	API/A	4895	2614
107540872	LUX		LUX-G6-28	168.0	A	API/A	4896	2614
107540873	LUX		LUX-G6-29	174.0	A	API/A	4897	2614
108520154	LUX		LUX-G6-3	8.5	C	CR/C	2238	2632
107540874	LUX		LUX-G6-30	-178.0	A	API/A	4898	2614
107540875	LUX		LUX-G6-31	-172.0	A	API/A	4899	2614
107540876	LUX		LUX-G6-32	-166.0	A	API/A	4900	2614
107540877	LUX		LUX-G6-33	-160.0	A	API/A	4901	2614
107540878	LUX		LUX-G6-34	-154.0	A	API/A	4902	2614
107540879	LUX		LUX-G6-35	-147.6	A	API/A	4903	2614
107540880	LUX		LUX-G6-36	-139.0	A	API/A	4904	2614
107540881	LUX		LUX-G6-37	-131.0	A	API/A	4905	2614
108520141	LUX		LUX-G6-38	-119.0	C	CR/C	2248	2633
108520142	LUX		LUX-G6-39	-115.0	C	CR/C	2249	2633
107540848	LUX		LUX-G6-4	13.0	A	API/A	4872	2614
108520143	LUX		LUX-G6-40	-111.1	C	CR/C	2250	2633
108520144	LUX		LUX-G6-41	-103.0	C	CR/C	2251	2633
108520145	LUX		LUX-G6-42	-91.0	C	CR/C	2252	2633
108520146	LUX		LUX-G6-43	-87.0	C	CR/C	2253	2633
108520147	LUX		LUX-G6-44	-83.0	C	CR/C	2254	2633
108520148	LUX		LUX-G6-45	-79.0	C	CR/C	2255	2633
108520149	LUX		LUX-G6-46	-71.0	C	CR/C	2256	2633
107540891	LUX		LUX-G6-47	-67.0	A	API/A	4915	2614
108520150	LUX		LUX-G6-48	-62.0	C	CR/C	2257	2633
108520151	LUX		LUX-G6-49	-59.0	C	CR/C	2258	2633
108520155	LUX		LUX-G6-5	19.2	C	CR/C	2239	2632
107540894	LUX		LUX-G6-50	-49.0	A	API/A	4918	2614
108520163	LUX		LUX-G6-51	-37.2	C	CR/C	2259	2633
107540896	LUX		LUX-G6-52	-30.0	A	API/A	4920	2614
108520164	LUX		LUX-G6-53	-24.0	C	CR/C	2260	2633
107540898	LUX		LUX-G6-54	-19.0	A	API/A	4922	2614
107540899	LUX		LUX-G6-55	-13.0	A	API/A	4923	2614
107540900	LUX		LUX-G6-56	-7.0	A	API/A	4924	2614
108520165	LUX		LUX-G6-57	-3.0	C	CR/C	2261	2633
108520156	LUX		LUX-G6-6	21.5	C	CR/C	2240	2632
108520157	LUX		LUX-G6-7	23.5	C	CR/C	2241	2632
108520158	LUX		LUX-G6-8	28.2	C	CR/C	2242	2632
108520159	LUX		LUX-G6-9	31.5	C	CR/C	2243	2632
104500543	LUX		LUX-KA-19E	19.0	N	PART	2	2635
105500067	LUX		LUX-KA-28.2E	28.2	N	PART	2	2622
108540489	LUX		LUXMSS-1	N-GSO	A	API/A	5323	2632

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108540390	LUX		LXS-AIS	N-GSO	A	API/A	5247	2625
103520390	LUX		MSS-1	N-GSO	C	CR/C	1340	2631
105520375	MCO		MONASAT-2E	2.0	C	CR/C	1756	2598
105520376	MCO		MONASAT-52E	52.0	C	CR/C	1757	2598
101540310	MEX		MEXRD127	-127.0	A	API/A	1777	2441
101540309	MEX		MEXRD77	-77.0	A	API/A	1776	2441
106540588	MEX		MEXSAT 109.2 KU EXT	-109.2	A	API/A	4367	2583
106540589	MEX		MEXSAT 113 KU EXT	-113.0	A	API/A	4368	2583
106540590	MEX		MEXSAT 114.9 KU EXT	-114.9	A	API/A	4369	2583
108540438	MEX		MEXSAT 114.9 L X	-114.9	A	API/A	5276	2632
106540591	MEX		MEXSAT 116.8 KU EXT	-116.8	A	API/A	4370	2583
108540439	MEX		MEXSAT 116.8 L C EXT	-116.8	A	API/A	5277	2632
103520281	MEX		MEXSAT-114.9 C-KU	-114.9	C	CR/C	1296	2585
106520030	MEX		MEXSAT-114.9 KA	-114.9	C	CR/C	1816	2603
104520287	MEX		MEXSAT-A-109.2 KA	-109.2	C	CR/C	1495	2548
104520288	MEX		MEXSAT-A-113.0 KA	-113.0	C	CR/C	1496	2548
104520289	MEX		MEXSAT-A-116.8 KA	-116.8	C	CR/C	1497	2548
90501083	MEX		MORELOS 1	-113.5	N	PART	2	
90501085	MEX		MORELOS 2	-116.8	N	PART	2	2576
104520083	MEX		MOVISAT-109.2	-109.2	C	CR/C	1423	2576
104520121	MEX		MOVISAT-113	-113.0	C	CR/C	1422	2576
105520136	MEX		MOVISAT-114.9	-114.9	C	CR/C	1650	2627
101520262	MEX		SATMEX 6	-109.2	C	CR/C	972	2583
103520203	MEX		SATMEX 7	-113.0	C	CR/C	1283	2585
104520213	MEX		SATMEX 8	-116.8	C	CR/C	1464	2594
101500479	MEX		SOLIDARIDAD 1M	-109.2	N	PART	2	2624
99500013	MEX		SOLIDARIDAD 1MA	-109.2	N	PART	2	2607
101500478	MEX		SOLIDARIDAD 2M	-113.0	N	PART	2	2624
99500015	MEX		SOLIDARIDAD 2MA	-113.0	N	PART	2	2607
97500440	MEX		SOLIDARIDAD-1	-109.2	N	PART	2	2624
97500441	MEX		SOLIDARIDAD-2	-113.0	N	PART	2	2617
95520056	MHL		ORION-AP-2	144.0	C	CR/C	1253	2559
95500480	MLA		MEASAT-1	91.5	N	PART	2	2628
104500299	MLA		MEASAT-148E	148.0	N	PART	2	2623
108540347	MLA		MEASAT-18E	18.0	A	API/A	5223	2627
104520321	MLA		MEASAT-1R	91.5	C	CR/C	1519	2584
95500106	MLA		MEASAT-2	148.0	N	PART	2	2580
106540134	MLA		MEASAT-2E	2.0	A	API/A	4091	2573
104520323	MLA		MEASAT-2R	148.0	C	CR/C	1525	2584
104520180	MLA		MEASAT-37E	37.0	C	CR/C	1427	2556
104520316	MLA		MEASAT-3-95E	95.0	C	CR/C	1508	2591
101520007	MLA		MEASAT-46E	46.0	C	CR/C	911	2556
107520058	MLA		MEASAT-46E-R	46.0	C	CR/C	2012	2632
104520318	MLA		MEASAT-4-72E	72.0	C	CR/C	1509	2583
103520070	MLA		MEASAT-5.7E	5.7	C	CR/C	1282	2567
104520181	MLA		MEASAT-72E	72.0	C	CR/C	1428	2560
104540388	MLA		MEASAT-78.5E-R	78.5	A	API/A	3236	2585
104520299	MLA		MEASAT-86E-R	86.0	C	CR/C	1506	2556
104520322	MLA		MEASAT-89.5W	-89.5	C	CR/C	1521	2584
107500241	MLA		MEASAT-91.5E	91.5	N	PART	2	2626

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
100520009	MLA		MEASAT-95E	95.0	C	CR/C	603	2598
103520018	MLA		MEASAT-9E	9.0	C	CR/C	1178	2562
108540239	MLA		MEASAT-9E-R	9.0	A	API/A	5133	2624
104500467	MLA		MEASAT-AK 91.5	91.5	N	PART	2	2630
105500148	MLA		MEASAT-IC 91.5	91.5	N	PART	2	2557
104520319	MLA		MEASAT-LA1-89.5W	-89.5	C	CR/C	1510	2583
104520186	MLA		MEASAT-ROUTE-114.5E	114.5	C	CR/C	1430	2556
108540398	MLA		MEASAT-ROUTE-1A	114.5	A	API/A	5254	2627
104520182	MLA		MEASAT-ROUTE-27E	27.0	C	CR/C	1429	2556
108540403	MLA		MEASAT-ROUTE-2A	27.0	A	API/A	5260	2627
108540402	MLA		MEASAT-ROUTE-3A	-79.0	A	API/A	5259	2627
104520183	MLA		MEASAT-ROUTE-41W	-41.0	C	CR/C	1431	2579
108540401	MLA		MEASAT-ROUTE-4A	-97.5	A	API/A	5258	2627
108540399	MLA		MEASAT-ROUTE-5A	-41.0	A	API/A	5255	2627
104520184	MLA		MEASAT-ROUTE-79W	-79.0	C	CR/C	1432	2579
104520185	MLA		MEASAT-ROUTE-97.5W	-97.5	C	CR/C	1433	2579
104500002	MLA		MEASAT-SA1	5.7	N	PART	2	2624
104520320	MLA		MEASAT-SA3-37E	37.0	C	CR/C	1511	2592
104520317	MLA		MEASAT-SA4-46E	46.0	C	CR/C	1512	2592
100500293	MLA		INNOSAT	N-GSO	N	PART	2	2609
107500030	MLA		MLA-NEQO	N-GSO	N	PART	2	2612
107540142	NIG		NIGCOMSAT-1A	-19.2	A	API/A	4605	2596
107540143	NIG		NIGCOMSAT-1D	22.0	A	API/A	4606	2596
106520040	NIG		NIGCOMSAT-1G	42.5	C	CR/C	1796	2606
102500350	NOR		BIFROST	-0.8	N	PART	2	2630
104520311	NOR		BIFROST-0.8W-2004	-0.8	C	CR/C	1513	2596
99520504	NOR		BIFROST-15	-1.0	C	CR/C	364	2531
100500079	NOR		BIFROST-2-FSS	-0.8	N	PART	2	2549
106500355	NOR		BIFROST-3-FSS	-0.8	N	PART	2	2591
108540481	NOR		DUB DUB 1	46.0	A	API/A	5316	2630
108540482	NOR		DUB DUB 2	50.2	A	API/A	5317	2630
108540483	NOR		DUB DUB 3	53.2	A	API/A	5318	2630
107540204	NOR		NORSAT-1A	18.7	A	API/A	4628	2634
107540205	NOR		NORSAT-1B	24.5	A	API/A	4629	2600
107540206	NOR		NORSAT-1C	32.0	A	API/A	4630	2634
107540573	NOR		ARE-1	N-GSO	A	API/A	4754	2605
108520129	NRU		SWANSAT-1A	-100.0	C	CR/C	2220	2634
108520130	NRU		SWANSAT-2A	30.0	C	CR/C	2221	2634
108520131	NRU		SWANSAT-3A	150.0	C	CR/C	2222	2634
103520007	NZL		NZLSAT-1	158.0	C	CR/C	1160	2508
107540137	NZL		NZLSAT-1R	158.0	A	API/A	4602	2595
103520008	NZL		NZLSAT-2	158.0	C	CR/C	1161	2508
106540772	NZL		NZLSAT-2R	158.0	A	API/A	4448	2588
103520129	NZL		NZLSAT-3	158.0	C	CR/C	1301	2595
107540138	NZL		NZLSAT-3R	158.0	A	API/A	4603	2595
103520130	NZL		NZLSAT-4	158.0	C	CR/C	1211	2518
107540139	NZL		NZLSAT-4R	158.0	A	API/A	4604	2595
95520324	PAK		PAKSAT-1	38.0	C	AR11/C	2600	2385
104520327	PAK		PAKSAT-1R	38.0	C	CR/C	1517	2630
108540427	PAK		PAKSAT-1R1	38.0	A	API/A	5270	2627

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
95520326	PAK		PAKSAT-2	41.0	C	AR11/C	2601	2385
106540164	PAK		PAKSAT-22.5E	22.5	A	API/A	4115	2574
106520095	PAK		PAKSAT-2R	41.0	C	CR/C	1837	2603
108540493	PAK		PAKSAT-2R1	41.0	A	API/A	5326	2631
106540165	PAK		PAKSAT-58.5E	58.5	A	API/A	4116	2574
106540166	PAK		PAKSAT-81.5E	81.5	A	API/A	4117	2574
106540167	PAK		PAKSAT-98.5E	98.5	A	API/A	4118	2574
106520096	PAK		PAKSAT-CR	30.0	C	CR/C	1833	2603
106520097	PAK		PAKSAT-DR	88.0	C	CR/C	1834	2603
106520098	PAK		PAKSAT-ER	101.0	C	CR/C	1835	2603
106520099	PAK		PAKSAT-FR	56.0	C	CR/C	1836	2603
97500282	PAK		BADR-B	N-GSO	N	PART	2	2614
105520298	PNG		NEW DAWN 1	-77.0	C	CR/C	1692	2566
106520015	PNG		NEW DAWN 10	-77.0	C	CR/C	1783	2575
106520016	PNG		NEW DAWN 11	-89.0	C	CR/C	1784	2575
106520017	PNG		NEW DAWN 12	-93.0	C	CR/C	1785	2575
106520018	PNG		NEW DAWN 13	-97.0	C	CR/C	1786	2575
106520019	PNG		NEW DAWN 14	-121.0	C	CR/C	1787	2575
106520020	PNG		NEW DAWN 15	-129.0	C	CR/C	1788	2575
106520164	PNG		NEW DAWN 16	85.0	C	CR/C	1893	2588
108540441	PNG		NEW DAWN 19	98.5	A	API/A	5279	2629
105520299	PNG		NEW DAWN 2	-89.0	C	CR/C	1693	2566
108540442	PNG		NEW DAWN 20	50.8	A	API/A	5280	2629
105520300	PNG		NEW DAWN 3	-93.0	C	CR/C	1694	2566
105520301	PNG		NEW DAWN 4	-129.0	C	CR/C	1695	2566
105520302	PNG		NEW DAWN 5	-127.0	C	CR/C	1696	2566
105520303	PNG		NEW DAWN 6	-131.0	C	CR/C	1697	2566
105520304	PNG		NEW DAWN 7	-133.0	C	CR/C	1698	2566
105520317	PNG		NEW DAWN 8	98.5	C	CR/C	1706	2568
105520318	PNG		NEW DAWN 9	118.0	C	CR/C	1707	2568
108520226	PNG		NEW DAWN-17	-131.0	C	CR/C	2284	2635
108520227	PNG		NEW DAWN-18	-133.0	C	CR/C	2285	2635
108540473	PNG		PACIFISAT-1	75.0	A	API/A	5309	2629
108540474	PNG		PACIFISAT-2	74.5	A	API/A	5310	2629
108540475	PNG		PACIFISAT-3	70.0	A	API/A	5311	2629
107500102	PNG		PACSTAR-L4	-121.0	N	PART	2	2619
94500024	POR		POSAT-1	N-GSO	N	PART	2	2575
90500488	RUS	IK	STATSIONAR-4A	-14.0	N	PART	2	2610
90500132	RUS		CSDRN	95.0	N	PART	2	2403
106520148	RUS		CSDRN-M	95.0	C	CR/C	1880	2622
90501087	RUS		CSSRD-2	77.0	N	PART	2	2403
90500133	RUS		ESDRN	-160.0	N	PART	2	2403
100500089	RUS		EXPRESS-10	140.0	N	PART	2	2602
99520391	RUS		EXPRESS-10B	140.0	C	CR/C	374	2479
100500090	RUS		EXPRESS-11	145.0	N	PART	2	2602
97500285	RUS		EXPRESS-2	-14.0	N	PART	2	2580
99520383	RUS		EXPRESS-2B	-14.0	C	CR/C	366	2479
97500286	RUS		EXPRESS-3	-11.0	N	PART	2	2631
98500178	RUS		EXPRESS-4	40.0	N	PART	2	2622
99520385	RUS		EXPRESS-4B	40.0	C	CR/C	368	2479



ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
103520015	RUS		EXPRESS-4K	40.0	C	CR/C	1181	2516
98500179	RUS		EXPRESS-5	53.0	N	PART	2	2597
106500050	RUS		EXPRESS-5B	53.0	N	PART	2	2621
97500288	RUS		EXPRESS-6	80.0	N	PART	2	2602
99520387	RUS		EXPRESS-6B	80.0	C	CR/C	370	2479
108520180	RUS		EXPRESS-6KA	80.0	C	CR/C	2297	2635
100500160	RUS		EXPRESS-7	90.0	N	PART	2	2611
99520388	RUS		EXPRESS-7B	90.0	C	CR/C	371	2555
106520041	RUS		EXPRESS-7C	90.0	C	CR/C	1840	2580
100500298	RUS		EXPRESS-8	96.5	N	PART	2	2632
99520389	RUS		EXPRESS-8B	96.5	C	CR/C	372	2479
100500229	RUS		EXPRESS-9	103.0	N	PART	2	2632
99520390	RUS		EXPRESS-9B	103.0	C	CR/C	373	2479
108540406	RUS		EXPRESS-B 14.5E	14.5	A	API/A	5263	2626
94500364	RUS		FOTON-1	-13.5	N	PART	2	2403
92500170	RUS		FOTON-2	80.0	N	PART	2	
94500365	RUS		FOTON-3	-168.0	N	PART	2	
90500385	RUS		GALS-10	128.0	N	PART	2	2173
101500486	RUS		GALS-11	-3.0	N	PART	2	2492
101500485	RUS		GALS-12	15.0	N	PART	2	2491
98500183	RUS		GALS-13	49.0	N	PART	2	2425
98500184	RUS		GALS-14	69.0	N	PART	2	2425
101500484	RUS		GALS-15	1.0	N	PART	2	2496
98500185	RUS		GALS-16	70.0	N	PART	2	2425
98500186	RUS		GALS-17	12.0	N	PART	2	2425
101500180	RUS		GALS-7	8.0	N	PART	2	2510
101500487	RUS		GALS-8	23.0	N	PART	2	2492
90500404	RUS		GALS-9	-25.0	N	PART	2	2173
96500168	RUS		GOMS-1M	-14.5	N	PART	2	2302
95500278	RUS		GOMS-M	76.0	N	PART	2	2613
100500233	RUS		KUPON-1	55.0	N	PART	2	2430
105520089	RUS		KUPON-1M	55.0	C	CR/C	1611	2576
100520005	RUS		KUPON-1S	55.0	C	CR/C	505	2558
104500545	RUS		KUPON-1T	55.0	N	PART	2	2627
102500309	RUS		KUPON-3	-9.5	N	PART	2	2534
105520150	RUS		KUPON-3M	-9.5	C	CR/C	1660	2562
105520151	RUS		KUPON-4M	86.5	C	CR/C	1661	2562
105520152	RUS		KUPON-5M	159.0	C	CR/C	1662	2562
105520153	RUS		KUPON-7M	165.0	C	CR/C	1663	2562
101500488	RUS		LOUTCH-10	145.0	N	PART	2	2554
90500286	RUS		LOUTCH-2	53.0	N	PART	2	
90500287	RUS		LOUTCH-3	90.0	N	PART	2	2554
90500288	RUS		LOUTCH-4	140.0	N	PART	2	2554
90500290	RUS		LOUTCH-5	103.0	N	PART	2	2554
99500020	RUS		LOUTCH-7	40.0	N	PART	2	2554
90500297	RUS		LOUTCH-9	96.5	N	PART	2	2554
108540237	RUS		MARAFON-M2	90.5	A	API/A	5131	2620
90500593	RUS		POTOK-1	-13.5	N	PART	2	2610
90500592	RUS		POTOK-2	80.0	N	PART	2	2583
90500594	RUS		POTOK-3	-168.0	N	PART	2	2610

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90500531	RUS		PROGNOZ-1	-24.0	N	PART	2	
90500528	RUS		PROGNOZ-2	12.0	N	PART	2	
90500529	RUS		PROGNOZ-3	35.0	N	PART	2	
90500530	RUS		PROGNOZ-4	80.0	N	PART	2	2518
94500349	RUS		PROGNOZ-5	130.0	N	PART	2	2182
94500350	RUS		PROGNOZ-6	166.0	N	PART	2	2183
94500351	RUS		PROGNOZ-7	-159.0	N	PART	2	2183
102500059	RUS		PROGNOZ-8	98.0	N	PART	2	2535
102500045	RUS		ROSCOM-2	-170.0	N	PART	2	2588
102500048	RUS		ROSCOM-3	23.0	N	PART	2	2632
102500047	RUS		ROSCOM-4	49.0	N	PART	2	2591
99500287	RUS		RST-1	36.0	N	PART	2	2522
99500288	RUS		RST-2	56.0	N	PART	2	2522
102520075	RUS		SADKO-1	85.4	C	CR/C	1067	2559
104520057	RUS		SADKO-2	128.0	C	CR/C	1389	2574
104520058	RUS		SADKO-3	-26.5	C	CR/C	1390	2574
90500477	RUS		STATSIONAR-10	-170.0	N	PART	2	2619
101500526	RUS		STATSIONAR-10A	-170.0	N	PART	2	2620
90500209	RUS		STATSIONAR-11	-11.0	N	PART	2	
90500211	RUS		STATSIONAR-12	40.0	N	PART	2	
90500193	RUS		STATSIONAR-14	96.5	N	PART	2	2554
90500216	RUS		STATSIONAR-15	128.0	N	PART	2	2635
90500185	RUS		STATSIONAR-16	145.0	N	PART	2	2569
101500181	RUS		STATSIONAR-17	-26.5	N	PART	2	2624
101500182	RUS		STATSIONAR-18	8.0	N	PART	2	2504
101500183	RUS		STATSIONAR-19	23.0	N	PART	2	2504
90500496	RUS		STATSIONAR-2	35.0	N	PART	2	2505
90500256	RUS		STATSIONAR-20	70.0	N	PART	2	2627
90500220	RUS		STATSIONAR-21	103.0	N	PART	2	2554
90500196	RUS		STATSIONAR-22	1.0	N	PART	2	2532
101500185	RUS		STATSIONAR-23	15.0	N	PART	2	2510
90500199	RUS		STATSIONAR-24	49.0	N	PART	2	2627
91910063	RUS		STATSIONAR-27	12.0	N	PART	2	2619
90500501	RUS		STATSIONAR-3	85.0	N	PART	2	2617
90500486	RUS		STATSIONAR-4	-14.0	N	PART	2	
90504197	RUS		STATSIONAR-5	53.0	N	PART	2	2610
90500482	RUS		STATSIONAR-6	90.0	N	PART	2	2554
90500483	RUS		STATSIONAR-7	140.0	N	PART	2	2554
90500484	RUS		STATSIONAR-8	-25.0	N	PART	2	2621
90500507	RUS		STATSIONAR-9	45.0	N	PART	2	2256
101500527	RUS		STATSIONAR-9A	45.0	N	PART	2	2618
94500244	RUS		STATSIONAR-D1	-26.5	N	PART	2	2335
101500591	RUS		STATSIONAR-D1-30B	-26.5	N	PART	2	2527
94500245	RUS		STATSIONAR-D2	-170.0	N	PART	2	2335
101500592	RUS		STATSIONAR-D2-30B	-170.0	N	PART	2	2527
94500246	RUS		STATSIONAR-D3	35.0	N	PART	2	2335
101500593	RUS		STATSIONAR-D3-30B	35.0	N	PART	2	2527
94500247	RUS		STATSIONAR-D4	45.0	N	PART	2	2335
101500594	RUS		STATSIONAR-D4-30B	45.0	N	PART	2	2527
94500248	RUS		STATSIONAR-D5	85.4	N	PART	2	2335

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
101500595	RUS		STATSIONAR-D5-30B	85.4	N	PART	2	2527
94500249	RUS		STATSIONAR-D6	128.0	N	PART	2	2335
101500596	RUS		STATSIONAR-D6-30B	128.0	N	PART	2	2527
102500030	RUS		STATSIONAR-M1	-170.0	N	PART	2	2586
107500387	RUS		STATSIONAR-M11	49.0	N	PART	2	2629
104500019	RUS		STATSIONAR-M2	-3.0	N	PART	2	2605
107500388	RUS		STATSIONAR-M8	23.0	N	PART	2	2621
90500508	RUS		STATSIONAR-T	99.0	N	PART	2	2597
90500509	RUS		STATSIONAR-T2	99.0	N	PART	2	2597
105500356	RUS		TOR-10M	130.0	N	PART	2	2621
105500357	RUS		TOR-11M	-3.0	N	PART	2	2621
105500358	RUS		TOR-12M	14.0	N	PART	2	2621
105500359	RUS		TOR-13M	58.0	N	PART	2	2621
105500360	RUS		TOR-14M	69.0	N	PART	2	2621
105500448	RUS		TOR-15M	1.0	N	PART	2	2631
105500449	RUS		TOR-16M	49.0	N	PART	2	2631
105500450	RUS		TOR-17M	70.0	N	PART	2	2631
105500451	RUS		TOR-18M	12.0	N	PART	2	2631
105500352	RUS		TOR-1M	-26.5	N	PART	2	2620
105500444	RUS		TOR-2M	35.0	N	PART	2	2631
105500445	RUS		TOR-4M	85.0	N	PART	2	2631
105500446	RUS		TOR-5M	-170.0	N	PART	2	2631
95500611	RUS		TOR-6	128.0	N	PART	2	2343
105500447	RUS		TOR-6M	128.0	N	PART	2	2631
105500353	RUS		TOR-7M	24.0	N	PART	2	2623
105500354	RUS		TOR-8M	8.0	N	PART	2	2621
105500355	RUS		TOR-9M	-25.0	N	PART	2	2621
101500386	RUS		VOLNA-11	35.0	N	PART	2	2529
101500387	RUS		VOLNA-13	-26.5	N	PART	2	2515
101500388	RUS		VOLNA-15	8.0	N	PART	2	2497
101500389	RUS		VOLNA-17	23.0	N	PART	2	2492
101500390	RUS		VOLNA-19	70.0	N	PART	2	2492
95500612	RUS		VOLNA-1A	-25.0	N	PART	2	2398
101500391	RUS		VOLNA-21	1.0	N	PART	2	2492
101500392	RUS		VOLNA-23	15.0	N	PART	2	2497
101500393	RUS		VOLNA-25	49.0	N	PART	2	2515
101500394	RUS		VOLNA-27	12.0	N	PART	2	2528
107520034	RUS		VOLNA-3R	-11.0	C	CR/C	2025	2621
103520347	RUS		VOLNA-4R	40.0	C	CR/C	1302	2569
107520035	RUS		VOLNA-5R	96.5	C	CR/C	2026	2621
103520348	RUS		VOLNA-6R	145.0	C	CR/C	1303	2569
103520349	RUS		VOLNA-8R	80.0	C	CR/C	1304	2569
101500385	RUS		VOLNA-9	128.0	N	PART	2	2498
90501088	RUS		VSSRD-2	167.0	N	PART	2	2403
106520149	RUS		VSSRD-2M	167.0	C	CR/C	1881	2622
90500134	RUS		WSDRN	-16.0	N	PART	2	2403
106520150	RUS		WSDRN-M	-16.0	C	CR/C	1882	2630
108540348	RUS		YAMAL-49E	49.0	A	API/A	5224	2624
105500011	RUS		YAMAL-E3	81.8	N	PART	2	2630
106520042	RUS		YAMAL-E3C	81.8	C	CR/C	1838	2580

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
105500010	RUS		YAMAL-E5	163.5	N	PART	2	2629
106520043	RUS		YAMAL-E5C	163.5	C	CR/C	1839	2580
96520503	RUS		YAMAL-W2	-36.0	C	AR11/C	3038	2338
96520504	RUS		YAMAL-W3	-65.5	C	AR11/C	3039	2338
90501090	RUS		ZSSRD-2	-16.0	N	PART	2	2403
104500579	RUS		ZSSRD-2 (30B)	-16.0	N	PART	2	2561
96500536	RUS		COMPARUS-C	N-GSO	N	PART	2	2390
96500535	RUS		COMPARUS-E	N-GSO	N	PART	2	2385
107500002	RUS		CUP	N-GSO	N	PART	2	2610
108520002	RUS		EXPRESS-RB	N-GSO	C	CR/C	2162	2622
94500133	RUS		GEO-IK-2	N-GSO	N	PART	2	2358
97500304	RUS		GLONASS-M	N-GSO	N	PART	2	2594
101500568	RUS		GONETS	N-GSO	N	PART	2	2534
102520025	RUS		GONETS-M	N-GSO	C	CR/C	1056	2556
107500005	RUS		GTS	N-GSO	N	PART	2	2624
106500111	RUS		KORONAS-PHOTON	N-GSO	N	PART	2	2609
90504426	RUS		KOSPAS	N-GSO	N	PART	2	
107500003	RUS		MBRL-SC	N-GSO	N	PART	2	2611
107500004	RUS		MBRL-SM	N-GSO	N	PART	2	2611
98500013	RUS		METEOR-3M	N-GSO	N	PART	2	2423
103500030	RUS		MONITOR	N-GSO	N	PART	2	2593
108500004	RUS		RESURS-DK1	N-GSO	N	PART	2	2634
102540391	RUS		RESURS-O1	N-GSO	A	API/A	2448	2485
104520330	RUS		SELENA	N-GSO	C	CR/C	1514	2596
95500664	RUS		SIGNAL	N-GSO	N	PART	2	2340
107540104	RUS		SMOTR	N-GSO	A	API/A	4556	2610
106500006	RUS		SPECTR-R	N-GSO	N	PART	2	2612
96500453	RUS		TSYKADA	N-GSO	N	PART	2	2476
106540528	RUS		UCTS-ISS	N-GSO	A	API/A	4346	2582
90500541	S	NOT	TELE-X	5.0	N	PART	2	2263
105540909	S		SIRIUS-13W-2	-13.0	A	API/A	3976	2562
106540171	S		SIRIUS-13W-3	-13.0	A	API/A	4121	2605
107540742	S		SIRIUS-13W-4	-13.0	A	API/A	4804	2620
108540635	S		SIRIUS-13W-5	-13.0	A	API/A	5387	2635
104500472	S		SIRIUS-2	4.8	N	PART	2	2621
105540908	S		SIRIUS-2E	2.0	A	API/A	3975	2562
107540741	S		SIRIUS-2E-2	2.0	A	API/A	4803	2620
100500401	S		SIRIUS-30B	5.0	N	PART	2	2538
106500573	S		SIRIUS-30B-5E	5.0	N	PART	2	2610
97520014	S		SIRIUS-3B	5.0	C	CR/C	260	2598
104520171	S		SIRIUS-5E	5.0	C	CR/C	1445	2578
107520044	S		SIRIUS-5E-2	5.0	C	CR/C	1949	2615
105540907	S		SIRIUS-5E-3	5.0	A	API/A	3974	2562
107540740	S		SIRIUS-5E-5	5.0	A	API/A	4802	2620
108540634	S		SIRIUS-5E-6	5.0	A	API/A	5386	2635
102520078	S		SIRIUS-P	5.0	C	CR/C	1052	2560
90504425	S		KIRUNA ROCKET	N-GSO	N	PART	2	2577
100500389	S		ODIN	N-GSO	N	PART	2	2577
107520021	S		PRISMA	N-GSO	C	CR/C	1928	2593
100500167	SEY		SEYSAT-1	42.5	N	PART	2	2465

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
96520061	SEY		SEYSAT-1A	42.5	C	CR/C	814	2599
100500168	SEY		SEYSAT-2	37.5	N	PART	2	2492
100520251	SEY		SEYSAT-4A	50.0	C	CR/C	633	2604
105520335	SNG		ST-130E	130.0	C	CR/C	1727	2627
99500056	SNG		ST-1A	88.0	N	PART	2	2523
101520389	SNG		ST-1A-CK	88.0	C	CR/C	1010	2497
108540231	SNG		ST-2A-CK	88.0	A	API/A	5130	2623
105540855	SNG		ST-2A-KA	88.0	A	API/A	3942	2560
105540856	SNG		ST-2A-SX	88.0	A	API/A	3943	2560
107540723	SNG		ST-2B-CK	98.5	A	API/A	4791	2608
105540857	SNG		ST-2B-KA	98.5	A	API/A	3944	2560
105540858	SNG		ST-2B-SX	98.5	A	API/A	3945	2560
108540175	SNG		ST-2C-CK	110.0	A	API/A	5100	2617
105540859	SNG		ST-2C-KA	110.0	A	API/A	3946	2560
105540860	SNG		ST-2C-SX	110.0	A	API/A	3947	2560
105540853	SNG		ST-2D-KA	55.0	A	API/A	3940	2560
105540854	SNG		ST-2D-SX	55.0	A	API/A	3941	2560
103540742	SNG		X-SAT	N-GSO	A	API/A	2935	2565
107500492	SUI		SWISSCUBE	N-GSO	N	PART	2	2624
100500119	THA		THAICOM-A2	78.5	N	PART	2	2632
106500234	THA		THAICOM-A2B	78.5	N	PART	2	2632
97520061	THA		THAICOM-A2KA	78.5	C	AR11/C	3093	2346
101500557	THA		THAICOM-A3	120.0	N	PART	2	2632
95520135	THA		THAICOM-A3B	120.0	C	CR/C	1108	2504
97520062	THA		THAICOM-A3KA	120.0	C	CR/C	1998	2598
96500002	THA		THAICOM-AK2	78.5	N	PART	2	2351
101500558	THA		THAICOM-AK3	120.0	N	PART	2	2580
94520251	THA		THAICOM-C1	50.5	C	AR11/C	2551	2411
94520252	THA		THAICOM-C2	126.0	C	AR11/C	2552	2411
98520171	THA		THAICOM-G12A	142.0	C	CR/C	1636	2560
98520251	THA		THAICOM-G1K	78.5	C	AR11/C	3357	2454
98520252	THA		THAICOM-G2K	120.0	C	CR/C	1055	2507
98520253	THA		THAICOM-G3K	142.0	C	AR11/C	3359	2454
98520168	THA		THAICOM-G7A	50.5	C	AR11/C	3360	2454
98520169	THA		THAICOM-G8A	78.5	C	CR/C	1635	2560
105500508	THA		THAICOM-G9A	120.0	N	PART	2	2632
104520069	THA		THAICOM-IP1	119.5	C	CR/C	1406	2575
106520118	THA		THAICOM-LS2	78.5	C	CR/C	1857	2629
106520119	THA		THAICOM-LS3	119.5	C	CR/C	1858	2629
107540213	THA		THAICOM-LSX1	50.5	A	API/A	4635	2598
107540214	THA		THAICOM-LSX4	120.0	A	API/A	4636	2598
105520058	THA		THAICOM-N1	50.5	C	CR/C	1567	2585
105520059	THA		THAICOM-N2	78.5	C	CR/C	1568	2585
105520060	THA		THAICOM-N3	120.0	C	CR/C	1569	2585
108520206	THA		THAICOM-N4	126.0	C	CR/C	2286	2635
100543981	THA		THAICOM-W1	-28.5	A	API/A	1359	2423
100543983	THA		THAICOM-W3	-73.0	A	API/A	1361	2423
106500406	THA		THEOS	N-GSO	N	PART	2	2608
101500570	TON		TONGASAT AP-1	130.0	N	PART	2	2582
101500571	TON		TONGASAT AP-2	134.0	N	PART	2	2585

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
101500573	TON		TONGASAT AP-3	138.0	N	PART	2	2558
101500574	TON		TONGASAT AP-4	142.5	N	PART	2	2578
93500471	TON		TONGASAT C/KU-1	130.0	N	PART	2	2608
93500472	TON		TONGASAT C/KU-2	134.0	N	PART	2	2632
98500226	TON		TONGASAT C/KU-3	138.0	N	PART	2	2625
103500409	TON		TONGASAT C/KU-4	142.5	N	PART	2	2582
104520118	TON		TONGASAT-2/130E	130.0	C	CR/C	1419	2543
104520119	TON		TONGASAT-2/134E	134.0	C	CR/C	1420	2543
104520120	TON		TONGASAT-2/138E	138.0	C	CR/C	1421	2543
105520377	TON		TONGASAT-2/142.5E	142.5	C	CR/C	1760	2574
105500703	TON		TONGASAT-H70	70.0	N	PART	2	2577
102520069	TRD		CARIBSS-1	-95.0	C	CR/C	1087	2556
107540541	TUR		TURKSAT-112E-B	112.0	A	API/A	4701	2604
107520293	TUR		TURKSAT-17E-B	17.3	C	CR/C	2141	2625
108540396	TUR		TURKSAT-19W-A	-19.0	A	API/A	5252	2625
95500457	TUR		TURKSAT-1A	42.0	N	PART	2	2239
95500458	TUR		TURKSAT-1B	31.0	N	PART	2	2616
99500054	TUR		TURKSAT-1C	50.0	N	PART	2	2451
100500442	TUR		TURKSAT-1D	42.0	N	PART	2	2509
108540394	TUR		TURKSAT-2.5W-A	-2.5	A	API/A	5250	2625
107540533	TUR		TURKSAT-25E-B	25.0	A	API/A	4693	2604
108540397	TUR		TURKSAT-28.5W-A	-28.5	A	API/A	5253	2625
103520350	TUR		TURKSAT-2B	31.0	C	CR/C	1305	2601
105520323	TUR		TURKSAT-31E-A	31.0	C	CR/C	1703	2634
107520294	TUR		TURKSAT-31E-B	31.0	C	CR/C	2142	2625
107540535	TUR		TURKSAT-37E-B	37.0	A	API/A	4695	2604
105520324	TUR		TURKSAT-42E-A	42.0	C	CR/C	1704	2634
107520295	TUR		TURKSAT-42E-B	42.0	C	CR/C	2143	2625
105520325	TUR		TURKSAT-50E-A	50.0	C	CR/C	1705	2629
107520296	TUR		TURKSAT-50E-B	50.0	C	CR/C	2144	2625
107540538	TUR		TURKSAT-56E-B	56.0	A	API/A	4698	2604
107520297	TUR		TURKSAT-73.5E-B	73.3	C	CR/C	2145	2625
107520292	TUR		TURKSAT-8.5E-B	8.5	C	CR/C	2140	2625
108540395	TUR		TURKSAT-9.5W-A	-9.5	A	API/A	5251	2625
107540540	TUR		TURKSAT-98E-B	98.0	A	API/A	4700	2604
102520059	TUR		TURKSAT-C50E	50.0	C	CR/C	1025	2497
105540826	TUR		TURKSAT-EUX25	25.0	A	API/A	3927	2605
107520198	TUR		TURKSAT-EUX31	31.0	C	CR/C	2080	2630
105540828	TUR		TURKSAT-EUX37	37.0	A	API/A	3929	2605
107520199	TUR		TURKSAT-EUX42	42.0	C	CR/C	2081	2630
107520200	TUR		TURKSAT-EUX50	50.0	C	CR/C	2082	2630
105540831	TUR		TURKSAT-EUX56	56.0	A	API/A	3932	2605
105540832	TUR		TURKSAT-EUX61	61.0	A	API/A	3933	2605
105540833	TUR		TURKSAT-EUX72	72.0	A	API/A	3934	2605
96500024	TUR		TURKSAT-K1	31.0	N	PART	2	2616
101500035	TUR		TURKSAT-K2	42.0	N	PART	2	2486
97520106	TUR		TURKSAT-K3	50.0	C	AR11/C	3153	2368
104500576	TUR		TURKSAT-KX	42.0	N	PART	2	2633
103540447	TUR		BILSAT	N-GSO	A	API/A	2723	2578
108540251	TUR		RASAT	N-GSO	A	API/A	5136	2624

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
94520285	UAE		EMARSAT-1B	54.0	C	CR/C	1758	2573
96520082	UAE		EMARSAT-1B/M	54.0	C	CR/C	1851	2581
96520083	UAE		EMARSAT-1F	44.0	C	CR/C	40	2586
102520004	UAE		EMARSAT-1F/M	44.0	C	CR/C	1030	2568
108500025	UAE		EMARSAT-1G	52.5	N	PART	2	2629
103520328	UAE		EMARSAT-1K/M	86.0	C	CR/C	1300	2569
107500383	UAE		EMARSAT-1L	28.5	N	PART	2	2626
102520105	UAE		EMARSAT-1L/M	28.8	C	CR/C	1134	2568
100543939	UAE		EMARSAT-2D	70.4	A	API/A	1337	2422
100543940	UAE		EMARSAT-2E	-15.5	A	API/A	1338	2422
100543941	UAE		EMARSAT-2G	52.5	A	API/A	1339	2422
100543942	UAE		EMARSAT-2H	-18.0	A	API/A	1340	2422
100543943	UAE		EMARSAT-2I	-11.0	A	API/A	1341	2422
100543944	UAE		EMARSAT-2K	87.0	A	API/A	1342	2422
100543945	UAE		EMARSAT-2M	6.0	A	API/A	1343	2422
100543946	UAE		EMARSAT-2N	30.0	A	API/A	1344	2422
100543947	UAE		EMARSAT-2O	44.0	A	API/A	1345	2422
100543948	UAE		EMARSAT-2P	67.0	A	API/A	1346	2422
100543949	UAE		EMARSAT-2Q	108.0	A	API/A	1347	2422
105520117	UAE		EMARSAT-4F	44.0	C	CR/C	1624	2630
104520334	UAE		EMARSAT-4I/M	-68.0	C	CR/C	1524	2630
104520032	UAE		EMARSAT-4R	95.0	C	CR/C	1353	2571
104520007	UAE		EMARSAT-4S	98.5	C	CR/C	1354	2571
106520127	UAE		EMARSAT-5G	52.5	C	CR/C	1862	2604
106520116	UAE		EMARSAT-5L	28.8	C	CR/C	1855	2630
106520115	UAE		EMARSAT-5S	98.5	C	CR/C	1856	2631
106540312	UAE		EMARSAT-6A	20.0	A	API/A	4240	2578
106540313	UAE		EMARSAT-6A/M	-101.0	A	API/A	4266	2578
106540314	UAE		EMARSAT-6B	29.0	A	API/A	4242	2578
106540315	UAE		EMARSAT-6B/M	-110.0	A	API/A	4267	2578
106540316	UAE		EMARSAT-6C	38.0	A	API/A	4243	2578
106540317	UAE		EMARSAT-6C/M	-119.0	A	API/A	4268	2578
106540318	UAE		EMARSAT-6D	47.0	A	API/A	4245	2578
107520216	UAE		EMARSAT-6E	60.0	C	CR/C	2085	2632
106540320	UAE		EMARSAT-6F	44.0	A	API/A	4244	2578
106540321	UAE		EMARSAT-6G	52.5	A	API/A	4246	2578
107520254	UAE		EMARSAT-6H	67.5	C	CR/C	2096	2631
106540323	UAE		EMARSAT-6I	74.0	A	API/A	4249	2578
106540324	UAE		EMARSAT-6J	83.0	A	API/A	4250	2578
106540325	UAE		EMARSAT-6K	92.0	A	API/A	4251	2578
106540326	UAE		EMARSAT-6L	28.8	A	API/A	4241	2578
106540327	UAE		EMARSAT-6M	-68.0	A	API/A	4262	2578
107520109	UAE		EMARSAT-6N	101.0	C	CR/C	2033	2604
107520148	UAE		EMARSAT-6O	112.5	C	CR/C	2044	2630
106540330	UAE		EMARSAT-6P	119.0	A	API/A	4255	2578
106540331	UAE		EMARSAT-6Q	-20.0	A	API/A	4256	2578
106540332	UAE		EMARSAT-6R	-29.0	A	API/A	4257	2578
107520145	UAE		EMARSAT-6S	104.5	C	CR/C	2041	2630
106540334	UAE		EMARSAT-6T	-38.0	A	API/A	4258	2578
106540335	UAE		EMARSAT-6U	-47.0	A	API/A	4259	2578

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106540336	UAE		EMARSAT-6V	-56.0	A	API/A	4260	2578
106540337	UAE		EMARSAT-6W	-65.0	A	API/A	4261	2578
106540338	UAE		EMARSAT-6X	-74.0	A	API/A	4263	2578
106540339	UAE		EMARSAT-6Y	-83.0	A	API/A	4264	2578
106540340	UAE		EMARSAT-6Z	-92.0	A	API/A	4265	2578
108540107	UAE		EMARSAT-7A	20.0	A	API/A	5028	2616
108540108	UAE		EMARSAT-7A/M	-101.0	A	API/A	5029	2616
108540109	UAE		EMARSAT-7B	29.0	A	API/A	5030	2616
108540110	UAE		EMARSAT-7B/M	-110.0	A	API/A	5031	2616
108540111	UAE		EMARSAT-7C	38.0	A	API/A	5032	2616
108540112	UAE		EMARSAT-7C/M	-119.0	A	API/A	5033	2616
108540113	UAE		EMARSAT-7D	47.0	A	API/A	5034	2616
108540114	UAE		EMARSAT-7D/M	-128.0	A	API/A	5035	2616
108540115	UAE		EMARSAT-7E	60.0	A	API/A	5036	2616
108540116	UAE		EMARSAT-7E/M	-137.0	A	API/A	5037	2616
108540117	UAE		EMARSAT-7F	44.0	A	API/A	5038	2616
108540118	UAE		EMARSAT-7F/M	-146.0	A	API/A	5039	2616
108540119	UAE		EMARSAT-7G	52.5	A	API/A	5040	2616
108540120	UAE		EMARSAT-7G/M	128.0	A	API/A	5041	2616
108540121	UAE		EMARSAT-7H	67.5	A	API/A	5042	2616
108540122	UAE		EMARSAT-7H/M	137.0	A	API/A	5043	2616
108540123	UAE		EMARSAT-7I	74.0	A	API/A	5044	2616
108540124	UAE		EMARSAT-7I/M	146.0	A	API/A	5045	2616
108540125	UAE		EMARSAT-7J	83.0	A	API/A	5046	2616
108540126	UAE		EMARSAT-7K	92.0	A	API/A	5047	2616
108540127	UAE		EMARSAT-7L	28.8	A	API/A	5048	2616
108540128	UAE		EMARSAT-7M	-68.0	A	API/A	5049	2616
108540129	UAE		EMARSAT-7N	101.0	A	API/A	5050	2616
108540130	UAE		EMARSAT-7O	112.5	A	API/A	5051	2616
108540131	UAE		EMARSAT-7P	119.0	A	API/A	5052	2616
108540132	UAE		EMARSAT-7Q	-20.0	A	API/A	5053	2616
108540133	UAE		EMARSAT-7R	-29.0	A	API/A	5054	2616
108520228	UAE		EMARSAT-7S	98.5	C	CR/C	2294	2635
108540135	UAE		EMARSAT-7S/M	104.5	A	API/A	5056	2616
108540136	UAE		EMARSAT-7T	-38.0	A	API/A	5057	2616
108540137	UAE		EMARSAT-7U	-47.0	A	API/A	5058	2616
108540138	UAE		EMARSAT-7V	-56.0	A	API/A	5059	2616
108540139	UAE		EMARSAT-7W	-65.0	A	API/A	5060	2616
108540140	UAE		EMARSAT-7W/M	12.0	A	API/A	5061	2616
108540141	UAE		EMARSAT-7X	-74.0	A	API/A	5062	2616
108540142	UAE		EMARSAT-7X/M	3.0	A	API/A	5063	2616
108540143	UAE		EMARSAT-7Y	-83.0	A	API/A	5064	2616
108540144	UAE		EMARSAT-7Y/M	-6.0	A	API/A	5065	2616
108540145	UAE		EMARSAT-7Z	-92.0	A	API/A	5066	2616
108540146	UAE		EMARSAT-7Z/M	-14.0	A	API/A	5067	2616
106520117	UAE		EMARSAT-S2	-58.8	C	CR/C	1854	2629
106520128	UAE		YAHSAT	52.5	C	CR/C	1863	2605
107540554	UAE		YAHSAT-10E	10.0	A	API/A	4735	2604
107540555	UAE		YAHSAT-15E	15.0	A	API/A	4736	2604
107540556	UAE		YAHSAT-20E	20.0	A	API/A	4737	2604



ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107540557	UAE		YAHSAT-25E	25.0	A	API/A	4738	2604
107540558	UAE		YAHSAT-28.5E	28.5	A	API/A	4739	2604
107540559	UAE		YAHSAT-30E	30.0	A	API/A	4740	2604
107540560	UAE		YAHSAT-33E	33.0	A	API/A	4741	2604
107540561	UAE		YAHSAT-39E	39.0	A	API/A	4742	2604
108520092	UAE		YAHSAT-46E	46.0	C	CR/C	2201	2625
108520093	UAE		YAHSAT-57E	57.0	C	CR/C	2202	2625
107540553	UAE		YAHSAT-5E	5.0	A	API/A	4734	2604
108520066	UAE		YAHSAT-60E	60.0	C	CR/C	2170	2623
108520094	UAE		YAHSAT-63E	63.0	C	CR/C	2203	2625
108540041	UAE		YAHSAT-EHF-20E	20.0	A	API/A	4973	2614
108540042	UAE		YAHSAT-EHF-25E	25.0	A	API/A	4974	2614
108520230	UAE		YAHSAT-EHF-33E	33.0	C	CR/C	2287	2635
108540044	UAE		YAHSAT-EHF-35E	35.0	A	API/A	4976	2614
108540045	UAE		YAHSAT-EHF-40E	40.0	A	API/A	4977	2614
108540046	UAE		YAHSAT-EHF-46E	46.0	A	API/A	4978	2614
108520231	UAE		YAHSAT-EHF-50.5E	50.5	C	CR/C	2288	2635
108520232	UAE		YAHSAT-EHF-52.5E	52.5	C	CR/C	2289	2635
108520233	UAE		YAHSAT-EHF-57E	57.0	C	CR/C	2290	2635
108520234	UAE		YAHSAT-EHF-60E	60.0	C	CR/C	2291	2635
108540051	UAE		YAHSAT-EHF-63E	63.0	A	API/A	4983	2614
108520235	UAE		YAHSAT-EHF-67.5E	67.5	C	CR/C	2292	2635
108540053	UAE		YAHSAT-EHF-70E	70.0	A	API/A	4985	2614
107540785	UAE		YAHSAT-KA-0	0.0	A	API/A	4844	2610
107540787	UAE		YAHSAT-KA-10E	10.0	A	API/A	4846	2610
107540783	UAE		YAHSAT-KA-10W	-10.0	A	API/A	4842	2610
108520229	UAE		YAHSAT-KA1-52.5E	52.5	C	CR/C	2293	2635
107540788	UAE		YAHSAT-KA-15E	15.0	A	API/A	4847	2610
107540782	UAE		YAHSAT-KA-17.5W	-17.5	A	API/A	4841	2634
107540789	UAE		YAHSAT-KA-20E	20.0	A	API/A	4848	2610
107540790	UAE		YAHSAT-KA-25E	25.0	A	API/A	4849	2610
108520134	UAE		YAHSAT-KA-33E	33.0	C	CR/C	2223	2629
107540792	UAE		YAHSAT-KA-35E	35.0	A	API/A	4851	2610
107540793	UAE		YAHSAT-KA-40E	40.0	A	API/A	4852	2610
108520140	UAE		YAHSAT-KA-47.5E	47.5	C	CR/C	2235	2631
108520135	UAE		YAHSAT-KA-50.5E	50.5	C	CR/C	2224	2629
107540786	UAE		YAHSAT-KA-5E	5.0	A	API/A	4845	2610
107540784	UAE		YAHSAT-KA-5W	-5.0	A	API/A	4843	2610
107540797	UAE		YAHSAT-KA-60E	60.0	A	API/A	4856	2610
108540054	UAE		YAHSAT-KA-65E	65.0	A	API/A	5024	2615
107540798	UAE		YAHSAT-KA-67.5E	67.5	A	API/A	4857	2610
108540443	UAE		YAHSAT-N-0E	0.0	A	API/A	5281	2629
108540446	UAE		YAHSAT-N-10E	10.0	A	API/A	5284	2629
108540447	UAE		YAHSAT-N-10W	-10.0	A	API/A	5285	2629
108540448	UAE		YAHSAT-N-15E	15.0	A	API/A	5286	2629
108540449	UAE		YAHSAT-N-20E	20.0	A	API/A	5287	2629
108540450	UAE		YAHSAT-N-20W	-20.0	A	API/A	5288	2629
108540451	UAE		YAHSAT-N-25E	25.0	A	API/A	5289	2629
108540452	UAE		YAHSAT-N-30E	30.0	A	API/A	5290	2629
108540453	UAE		YAHSAT-N-30W	-30.0	A	API/A	5291	2629

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108540454	UAE		YAHSAT-N-35E	35.0	A	API/A	5292	2629
108540455	UAE		YAHSAT-N-40E	40.0	A	API/A	5293	2629
108540456	UAE		YAHSAT-N-40W	-40.0	A	API/A	5294	2629
108540457	UAE		YAHSAT-N-45E	45.0	A	API/A	5295	2629
108540458	UAE		YAHSAT-N-47E	47.0	A	API/A	5296	2629
108540459	UAE		YAHSAT-N-50E	50.0	A	API/A	5297	2629
108540460	UAE		YAHSAT-N-50W	-50.0	A	API/A	5298	2629
108540461	UAE		YAHSAT-N-52.5E	52.5	A	API/A	5299	2629
108540462	UAE		YAHSAT-N-55E	55.0	A	API/A	5300	2629
108540463	UAE		YAHSAT-N-57E	57.0	A	API/A	5301	2629
108540444	UAE		YAHSAT-N-5E	5.0	A	API/A	5282	2629
108540445	UAE		YAHSAT-N-5W	-5.0	A	API/A	5283	2629
108540464	UAE		YAHSAT-N-60E	60.0	A	API/A	5302	2629
108540465	UAE		YAHSAT-N-60W	-60.0	A	API/A	5303	2629
108540466	UAE		YAHSAT-N-63E	63.0	A	API/A	5304	2629
108540467	UAE		YAHSAT-N-65E	65.0	A	API/A	5305	2629
108540468	UAE		YAHSAT-N-67.5E	67.5	A	API/A	5306	2629
108540469	UAE		YAHSAT-N-70E	70.0	A	API/A	5307	2629
108540470	UAE		YAHSAT-N-80E	80.0	A	API/A	5308	2629
107500094	UAE		DUBAISAT-1	N-GSO	N	PART	2	2634
106540267	UKR		UKRSAT-KA-31E	31.0	A	API/A	4225	2577
107520023	UKR		UKRSAT-KA-34.5E	34.5	C	CR/C	1936	2611
106540269	UKR		UKRSAT-KA-38.2E	38.2	A	API/A	4227	2621
107500013	UKR		SICH-2	N-GSO	N	PART	2	2609
106500338	UKR		YAVIR-1	N-GSO	N	PART	2	2607
100520145	URG		VENESAT-1	-78.0	C	CR/C	544	2583
107520040	URG		VENESAT-1A	-78.0	C	CR/C	2045	2623
90504874	URS	IK	MOLNIA-3	N-GSO	N	PART	2	
90500382	URS		GALS-1	-26.5	N	PART	2	2544
90500393	URS		GALS-2	45.0	N	PART	2	2544
90500394	URS		GALS-3	85.0	N	PART	2	2544
90500395	URS		GALS-4	-170.0	N	PART	2	2544
90500397	URS		GALS-5	130.0	N	PART	2	2544
90500399	URS		GALS-6	35.0	N	PART	2	2544
90500284	URS		LOUTCH-1	-14.0	N	PART	2	2597
91910025	URS		LOUTCH-6	-11.0	N	PART	2	2131
90500295	URS		LOUTCH-8	80.0	N	PART	2	
90500475	URS		STATIONAR-1	80.0	N	PART	2	
90500546	URS		TOR-3	45.0	N	PART	2	2142
90500547	URS		TOR-4	85.0	N	PART	2	2149
90500548	URS		TOR-5	-170.0	N	PART	2	2141
90500585	URS		VOLNA-2	-14.0	N	PART	2	
90504199	URS		VOLNA-3	45.0	N	PART	2	
90500586	URS		VOLNA-4	53.0	N	PART	2	
90504200	URS		VOLNA-5	85.0	N	PART	2	
90500587	URS		VOLNA-6	140.0	N	PART	2	
90504201	URS		VOLNA-7	-170.0	N	PART	2	
90504202	URS		VOLNA-8	90.0	N	PART	2	
90504870	URS		1	N-GSO	N	PART	2	
90504871	URS		2	N-GSO	N	PART	2	

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90504872	URS		3	N-GSO	N	PART	2	
90504873	URS		4	N-GSO	N	PART	2	
90504410	URS		GLONASS	N-GSO	N	PART	2	
90504430	URS		METEOR-2	N-GSO	N	PART	2	
90504431	URS		MOLNIA-1	N-GSO	N	PART	2	
90504432	URS		MOLNIA-2	N-GSO	N	PART	2	
90504628	URS		RADIO-M	N-GSO	N	PART	2	
90504630	URS		RS	N-GSO	N	PART	2	
90504641	URS		SSIPR	N-GSO	N	PART	2	
102500532	USA		ACS-1	-101.0	N	PART	2	2619
103500278	USA		AFRIBSS	21.0	N	PART	2	2562
90500615	USA		ASC-1	-128.0	N	PART	2	
90500611	USA		ATS-5	-105.0	N	PART	2	
90500525	USA		COMSTAR D-2	-95.0	N	PART	2	
90500265	USA		FLTSATCOM ATL	-23.0	N	PART	2	
90500266	USA		FLTSATCOM E PAC	-100.0	N	PART	2	
90500264	USA		FLTSATCOM W PAC	172.0	N	PART	2	
105520022	USA		FLTSATCOM-A INDOC-4	100.0	C	CR/C	1533	2585
92500294	USA		FLTSATCOM-A W PAC	-177.0	N	PART	2	2543
90500270	USA		FLTSATCOM-B EAST ATL	-22.5	N	PART	2	2543
90500271	USA		FLTSATCOM-B EAST PAC	-100.0	N	PART	2	2630
93500633	USA		FLTSATCOM-C E ATL-1	-22.5	N	PART	2	2505
93500634	USA		FLTSATCOM-C E ATL-2	-15.5	N	PART	2	2497
93500149	USA		FLTSATCOM-C E PAC-1	-105.0	N	PART	2	2442
93500148	USA		FLTSATCOM-C E PAC-2	-100.0	N	PART	2	2481
93500635	USA		FLTSATCOM-C INDOC-1	29.0	N	PART	2	2497
93500636	USA		FLTSATCOM-C INDOC-2	72.0	N	PART	2	2498
93500637	USA		FLTSATCOM-C INDOC-3	75.0	N	PART	2	2500
93500640	USA		FLTSATCOM-C W PAC-1	172.0	N	PART	2	2504
93500641	USA		FLTSATCOM-C W PAC-2	-177.0	N	PART	2	2502
93500147	USA		FLTSATCOM-C W PAC-3	-145.0	N	PART	1	2621
105540793	USA		GOES 160E-R	160.0	A	API/A	3922	2558
107520047	USA		GOES 60W	-60.0	C	CR/C	1986	2621
90500361	USA		GOES EAST	-75.0	N	PART	2	
90500362	USA		GOES WEST	-135.0	N	PART	2	
103500401	USA		GOES-EAST-1	-75.0	N	PART	2	2625
106520151	USA		GOES-EAST-2	-75.0	C	CR/C	1883	2609
106540711	USA		GOES-EAST-3	-75.0	A	API/A	4387	2587
103500402	USA		GOES-WEST-1	-135.0	N	PART	2	2625
106520152	USA		GOES-WEST-2	-135.0	C	CR/C	1884	2609
106540712	USA		GOES-WEST-3	-137.0	A	API/A	4388	2587
90501108	USA		INTELSAT IBS 307E	-53.0	N	PART	2	2614
92500179	USA		INTELSAT IBS 342E	-18.0	N	PART	2	2543
105520163	USA		INTELSAT KAEXT 121W	-121.0	C	CR/C	1673	2600
105520160	USA		INTELSAT KAEXT 67.5W	-67.5	C	CR/C	1670	2600
105520161	USA		INTELSAT KAEXT 89W	-89.0	C	CR/C	1671	2600
105520162	USA		INTELSAT KAEXT 97W	-97.0	C	CR/C	1672	2600
99520544	USA		INTELSAT KFOS 85E	85.0	C	CR/C	410	2634
100520246	USA		INTELSAT10 310E	-50.0	C	CR/C	623	2583
100520245	USA		INTELSAT10 359E	-1.0	C	CR/C	602	2600

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106500249	USA		INTELSAT5 33E	33.0	N	PART	2	2602
90500666	USA		INTELSAT5 INDOC4	66.0	N	PART	2	2543
90500678	USA		INTELSAT5 PAC2	177.0	N	PART	2	2450
90500677	USA		INTELSAT5 PAC3	180.0	N	PART	2	2614
100500228	USA		INTELSAT5A 157E	157.0	N	PART	2	2626
100500274	USA		INTELSAT5A 304.5E	-55.5	N	PART	2	2543
92500180	USA		INTELSAT5A 342E	-18.0	N	PART	2	2543
93500468	USA		INTELSAT5A 66E	66.0	N	PART	2	2543
93500015	USA		INTELSAT5A ATL6	-31.0	N	PART	2	2543
90500630	USA		INTELSAT5A CONT1	-53.0	N	PART	2	2529
92500184	USA		INTELSAT5A CONT2	-50.0	N	PART	2	2543
90500634	USA		INTELSAT5A CONT4	-1.0	N	PART	2	2543
90910018	USA		INTELSAT5A INDOC3	63.0	N	PART	2	2543
90910003	USA		INTELSAT5A PAC1	174.0	N	PART	2	2543
103500073	USA		INTELSAT6 157E	157.0	N	PART	2	2583
100520010	USA		INTELSAT6 178E	178.0	C	CR/C	411	2480
92500136	USA		INTELSAT6 325.5E	-34.5	N	PART	2	2614
102500410	USA		INTELSAT6 330.5E	-29.5	N	PART	2	2564
90500793	USA		INTELSAT6 332.5E	-27.5	N	PART	2	2574
90500795	USA		INTELSAT6 335.5E	-24.5	N	PART	2	2574
101500275	USA		INTELSAT6 340E	-20.0	N	PART	2	2509
91910088	USA		INTELSAT6 60E	60.0	N	PART	2	2614
99500102	USA		INTELSAT6 62E	62.0	N	PART	2	2614
94520053	USA		INTELSAT6 64E	64.0	C	AR11/C	2442	2450
101520029	USA		INTELSAT6 85E	85.0	C	CR/C	813	2489
102500192	USA		INTELSAT7 157E	157.0	N	PART	2	2570
93500545	USA		INTELSAT7 174E	174.0	N	PART	2	2450
100520191	USA		INTELSAT7 176E	176.0	C	CR/C	512	2634
96500027	USA		INTELSAT7 177E	177.0	N	PART	2	2450
100520192	USA		INTELSAT7 178E	178.0	C	CR/C	513	2634
98500067	USA		INTELSAT7 180E	180.0	N	PART	2	2521
102500193	USA		INTELSAT7 304.5E	-55.5	N	PART	2	2569
96500437	USA		INTELSAT7 307E	-53.0	N	PART	2	2585
95500117	USA		INTELSAT7 310E	-50.0	N	PART	2	2450
102500182	USA		INTELSAT7 325.5E	-34.5	N	PART	2	2568
94520049	USA		INTELSAT7 330.5E	-29.5	C	AR11/C	2446	2450
102500183	USA		INTELSAT7 332.5E	-27.5	N	PART	2	2563
102500184	USA		INTELSAT7 335.5E	-24.5	N	PART	2	2571
102500055	USA		INTELSAT7 33E	33.0	N	PART	2	2603
101500277	USA		INTELSAT7 340E	-20.0	N	PART	2	2541
97500430	USA		INTELSAT7 342E	-18.0	N	PART	2	2450
94500331	USA		INTELSAT7 359E	-1.0	N	PART	2	2450
103500005	USA		INTELSAT7 62E	62.0	N	PART	2	2569
103500006	USA		INTELSAT7 64E	64.0	N	PART	2	2568
95500027	USA		INTELSAT7 66E	66.0	N	PART	2	2565
102500011	USA		INTELSAT7 85E	85.0	N	PART	2	2633
103500004	USA		INTELSAT8 157E	157.0	N	PART	2	2620
99500206	USA		INTELSAT8 174E	174.0	N	PART	2	2622
103500403	USA		INTELSAT8 176E	176.0	N	PART	2	2630
100520137	USA		INTELSAT8 178E	178.0	C	CR/C	450	2582

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101500003	USA		INTELSAT8 304.5E	-55.5	N	PART	2	2591
103500100	USA		INTELSAT8 307E	-53.0	N	PART	2	2572
101500422	USA		INTELSAT8 325.5E	-34.5	N	PART	2	2553
100500175	USA		INTELSAT8 328.5E	-31.5	N	PART	2	2531
102500442	USA		INTELSAT8 330.5E	-29.5	N	PART	2	2603
102500023	USA		INTELSAT8 332.5E	-27.5	N	PART	2	2605
102500022	USA		INTELSAT8 335.5E	-24.5	N	PART	2	2567
103500069	USA		INTELSAT8 33E	33.0	N	PART	2	2566
103500007	USA		INTELSAT8 340E	-20.0	N	PART	2	2567
101500421	USA		INTELSAT8 342E	-18.0	N	PART	2	2623
103500098	USA		INTELSAT8 359E	-1.0	N	PART	2	2572
102500056	USA		INTELSAT8 60E	60.0	N	PART	2	2546
105500094	USA		INTELSAT8 62E	62.0	N	PART	2	2597
99500053	USA		INTELSAT8 64E	64.0	N	PART	2	2608
102500012	USA		INTELSAT8 85E	85.0	N	PART	2	2562
98520133	USA		INTELSAT9 174E	174.0	C	CR/C	534	2483
100520243	USA		INTELSAT9 176E	176.0	C	CR/C	535	2483
100520244	USA		INTELSAT9 178E	178.0	C	CR/C	536	2483
98520139	USA		INTELSAT9 304.5E	-55.5	C	AR11/C	3394	2456
98520140	USA		INTELSAT9 307E	-53.0	C	AR11/C	3402	2450
98520141	USA		INTELSAT9 310E	-50.0	C	AR11/C	3404	2456
98520142	USA		INTELSAT9 325.5E	-34.5	C	AR11/C	3388	2456
98520129	USA		INTELSAT9 328.5E	-31.5	C	AR11/C	3389	2456
98520130	USA		INTELSAT9 330.5E	-29.5	C	AR11/C	3400	2456
98520131	USA		INTELSAT9 332.5E	-27.5	C	AR11/C	3401	2456
98520143	USA		INTELSAT9 335.5E	-24.5	C	AR11/C	3395	2456
98520128	USA		INTELSAT9 33E	33.0	C	CR/C	533	2483
98520134	USA		INTELSAT9 340E	-20.0	C	AR11/C	3390	2456
98520144	USA		INTELSAT9 342E	-18.0	C	AR11/C	3397	2456
98520135	USA		INTELSAT9 359E	-1.0	C	AR11/C	3398	2456
98520136	USA		INTELSAT9 60E	60.0	C	AR11/C	3391	2456
98520137	USA		INTELSAT9 62E	62.0	C	AR11/C	3392	2450
98520138	USA		INTELSAT9 64E	64.0	C	AR11/C	3393	2456
98520127	USA		INTELSAT9 66E	66.0	C	AR11/C	3399	2456
101520068	USA		IRIS-1	-105.0	C	CR/C	834	2584
101520077	USA		IRIS-10	29.0	C	CR/C	843	2584
106520053	USA		IRIS-10R	29.0	C	CR/C	1807	2603
102520041	USA		IRIS-11	125.0	C	CR/C	1070	2556
106520054	USA		IRIS-11R	125.0	C	CR/C	1808	2603
106520044	USA		IRIS-1R	-105.0	C	CR/C	1798	2603
101520069	USA		IRIS-2	-100.0	C	CR/C	835	2584
106520045	USA		IRIS-2R	-100.0	C	CR/C	1799	2603
101520070	USA		IRIS-3	-22.5	C	CR/C	836	2584
106520046	USA		IRIS-3R	-22.5	C	CR/C	1800	2603
101520071	USA		IRIS-4	-15.5	C	CR/C	837	2584
106520047	USA		IRIS-4R	-15.5	C	CR/C	1801	2603
101520072	USA		IRIS-5	72.0	C	CR/C	838	2584
106520048	USA		IRIS-5R	72.0	C	CR/C	1802	2603
101520073	USA		IRIS-6	75.0	C	CR/C	839	2584
106520049	USA		IRIS-6R	75.0	C	CR/C	1803	2603

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101520074	USA		IRIS-7	172.0	C	CR/C	840	2584
106520050	USA		IRIS-7R	172.0	C	CR/C	1804	2603
101520075	USA		IRIS-8	-177.0	C	CR/C	841	2584
106520051	USA		IRIS-8R	-177.0	C	CR/C	1805	2603
101520076	USA		IRIS-9	-145.0	C	CR/C	842	2584
106520052	USA		IRIS-9R	-145.0	C	CR/C	1806	2603
104500337	USA		KASATCOM-2	-22.5	N	PART	2	2596
104500336	USA		KASATCOM-3	72.0	N	PART	2	2597
104500338	USA		KASATCOM-5	172.0	N	PART	2	2602
100520444	USA		LM-RPS-107.3W	-107.3	C	CR/C	770	2574
100544003	USA		LM-RPS-11E	11.0	A	API/A	1381	2522
100544005	USA		LM-RPS-131.8E	131.8	A	API/A	1383	2606
100520445	USA		LM-RPS-133W	-133.0	C	CR/C	771	2574
100544004	USA		LM-RPS-71E	71.0	A	API/A	1382	2606
100544006	USA		LM-RPS-79W	-79.0	A	API/A	1384	2606
98520842	USA		MCS-1	-101.0	C	AR11/C	3659	2449
95500504	USA		MILSTAR 1	-90.0	N	PART	2	2592
95500516	USA		MILSTAR 13	4.0	N	PART	2	2592
95500517	USA		MILSTAR 14	177.5	N	PART	2	2593
95500507	USA		MILSTAR 4	55.0	N	PART	2	2592
95500508	USA		MILSTAR 5	90.0	N	PART	2	2594
95500509	USA		MILSTAR 6	-120.0	N	PART	2	2593
95500511	USA		MILSTAR 8	-68.0	N	PART	2	2592
104520179	USA		MSV-1	-101.0	C	CR/C	1444	2578
106520129	USA		MSV-1A	-101.0	C	CR/C	1867	2605
106520034	USA		MSV-SA	-63.5	C	CR/C	1794	2601
105500432	USA		P-197-2	-144.0	N	PART	2	2593
105500433	USA		P-197-3	-141.0	N	PART	2	2593
105500434	USA		P-197-4	-13.0	N	PART	2	2593
105500435	USA		P-197-5	-10.0	N	PART	2	2593
96500496	USA		P92-3	-10.0	N	PART	2	2510
96500497	USA		P92-4	-13.0	N	PART	2	2511
95500606	USA		P92-5	-141.0	N	PART	2	2396
95500607	USA		P92-6	-144.0	N	PART	2	2396
90500298	USA		SPACENET-3	-87.0	N	PART	2	
107520009	USA		TDRS 12W	-12.0	C	CR/C	2060	2609
106520032	USA		TDRS 133E	133.0	C	CR/C	1865	2584
90500641	USA		TDRS 174W	-174.0	N	PART	2	2600
93500227	USA		TDRS 46W	-46.0	N	PART	2	2600
101500534	USA		TDRS 49W	-49.0	N	PART	2	2588
91910045	USA		TDRS 62W	-62.0	N	PART	2	2588
95500076	USA		TDRS 85E	85.0	N	PART	2	2588
106520031	USA		TDRS 89E	89.0	C	CR/C	1864	2584
90500644	USA		TDRS CENTRAL	-79.0	N	PART	2	
90500646	USA		TDRS EAST	-41.0	N	PART	2	2600
90500647	USA		TDRS WEST	-171.0	N	PART	2	2600
104520203	USA		TDRS-174W-ISS	-174.0	C	CR/C	1487	2547
104520205	USA		TDRS-46W-ISS	-46.0	C	CR/C	1486	2547
91910108	USA		TDRS-C2	-79.0	N	PART	2	2588
104520207	USA		TDRS-EAST-ISS	-41.0	C	CR/C	1485	2547

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104520206	USA		TDRS-WEST-ISS	-171.0	C	CR/C	1484	2547
90500452	USA		US SATCOM 1-R	-139.0	N	PART	2	2097
102520185	USA		USABSN-1	-101.0	C	CR/C	1110	2557
102520194	USA		USABSN-10	-114.5	C	CR/C	1119	2557
108520118	USA		USABSN-10A	-110.4	C	CR/C	2211	2626
102520195	USA		USABSN-11	-119.0	C	CR/C	1120	2557
106540665	USA		USABSN-11A	-119.0	A	API/A	4382	2585
107520056	USA		USABSN-12	-103.0	C	CR/C	2009	2618
108540527	USA		USABSN-12A	-103.0	A	API/A	5328	2632
107520057	USA		USABSN-13	-99.0	C	CR/C	2010	2618
108540528	USA		USABSN-13A	-99.0	A	API/A	5329	2631
107540082	USA		USABSN-14	-128.6	A	API/A	4540	2592
108520119	USA		USABSN-15	-75.0	C	CR/C	2212	2626
108520120	USA		USABSN-16	-62.2	C	CR/C	2213	2626
107540085	USA		USABSN-17	-86.3	A	API/A	4543	2592
107540086	USA		USABSN-18	-67.0	A	API/A	4544	2592
107540087	USA		USABSN-19	-124.0	A	API/A	4545	2592
102520186	USA		USABSN-2	-96.5	C	CR/C	1111	2557
107540088	USA		USABSN-20	-147.6	A	API/A	4546	2592
108540238	USA		USABSN-21	-79.0	A	API/A	5132	2620
108540581	USA		USABSN-22	-70.0	A	API/A	5345	2634
108540529	USA		USABSN-23	-118.4	A	API/A	5330	2631
102520187	USA		USABSN-3	-105.5	C	CR/C	1112	2557
102520188	USA		USABSN-4	-91.0	C	CR/C	1113	2557
102520189	USA		USABSN-5	-101.0	C	CR/C	1114	2557
102520190	USA		USABSN-6	-110.0	C	CR/C	1115	2557
102520191	USA		USABSN-7	-107.0	C	CR/C	1116	2557
102520192	USA		USABSN-8	-117.0	C	CR/C	1117	2557
102520193	USA		USABSN-9	-110.0	C	CR/C	1118	2557
108520117	USA		USABSN-9A	-107.0	C	CR/C	2210	2626
99500088	USA		USABSS-1	-101.2	N	PART	2	2455
98500238	USA		USABSS-10	-119.0	N	PART	2	2442
99500089	USA		USABSS-2	-100.8	N	PART	2	2487
99500090	USA		USABSS-5	-110.0	N	PART	2	2454
99500091	USA		USABSS-6	-110.2	N	PART	2	2493
99500092	USA		USABSS-7	-119.0	N	PART	2	2487
98500237	USA		USABSS-8	-61.5	N	PART	2	2453
104500213	USA		USASAT 13I(30B)	-45.0	N	PART	2	2582
104500214	USA		USASAT 26G(30B)	-58.0	N	PART	2	2582
90504198	USA		USASAT-11D	-134.0	N	PART	2	2097
90501104	USA		USASAT-12B	-93.5	N	PART	2	2097
99500229	USA		USASAT-12C	-76.0	N	PART	2	2499
96500511	USA		USASAT-13I	-45.0	N	PART	2	2574
103500168	USA		USASAT-13I-2	-45.0	N	PART	2	2577
103500279	USA		USASAT-14E	-174.3	N	PART	2	2576
101500545	USA		USASAT-14G	169.0	N	PART	2	2583
101500547	USA		USASAT-14H	166.0	N	PART	2	2599
101500407	USA		USASAT-14I	68.5	N	PART	2	2633
105500472	USA		USASAT-14I-2	68.0	N	PART	2	2593
103520320	USA		USASAT-14I-3	68.5	C	CR/C	1293	2528

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101500405	USA		USASAT-14J	72.0	N	PART	2	2580
105500377	USA		USASAT-14J-2	72.0	N	PART	2	2581
103500458	USA		USASAT-14K	172.0	N	PART	2	2628
106500246	USA		USASAT-14L	-15.0	N	PART	2	2597
98520746	USA		USASAT-14N	-47.0	C	CR/C	1725	2570
101500415	USA		USASAT-15B	-74.0	N	PART	2	2580
99500140	USA		USASAT-21A	-135.0	N	PART	2	2458
104500020	USA		USASAT-22A	-133.0	N	PART	2	2553
101500395	USA		USASAT-22B	-125.0	N	PART	2	2549
101500414	USA		USASAT-22E	-74.0	N	PART	2	2555
99500142	USA		USASAT-22G	-137.0	N	PART	2	2458
99500141	USA		USASAT-22H	-131.0	N	PART	2	2458
103500021	USA		USASAT-22I	-139.0	N	PART	2	2504
105500224	USA		USASAT-22J	-137.0	N	PART	2	2619
99520242	USA		USASAT-22K	-135.0	C	CR/C	255	2473
102500351	USA		USASAT-23F	-95.0	N	PART	2	2589
97520015	USA		USASAT-23G	-121.0	C	AR11/C	3072	2309
101500075	USA		USASAT-23H	-105.0	N	PART	2	2507
101500399	USA		USASAT-24D	-97.0	N	PART	2	2615
101500404	USA		USASAT-24E	-89.0	N	PART	2	2633
101500427	USA		USASAT-24F	-103.0	N	PART	2	2580
101500406	USA		USASAT-24J	-99.0	N	PART	2	2633
101500413	USA		USASAT-24K	-91.0	N	PART	2	2612
101500426	USA		USASAT-24L	-95.0	N	PART	2	2612
104500271	USA		USASAT-24N	-129.0	N	PART	2	2609
106500048	USA		USASAT-24O	-127.0	N	PART	2	2588
103500020	USA		USASAT-24P	-123.0	N	PART	2	2585
105500167	USA		USASAT-24Q	-77.0	N	PART	2	2619
104500286	USA		USASAT-24S	-93.0	N	PART	2	2596
105500240	USA		USASAT-24T	-87.0	N	PART	2	2621
105500241	USA		USASAT-24U	-85.0	N	PART	2	2619
105500235	USA		USASAT-24V	-83.0	N	PART	2	2619
105500234	USA		USASAT-24W	-79.0	N	PART	2	2622
101500093	USA		USASAT-25A	-37.5	N	PART	2	2478
104520201	USA		USASAT-25A-1	-37.5	C	CR/C	1474	2547
101500251	USA		USASAT-25C	-43.0	N	PART	2	2576
104500278	USA		USASAT-25D	-45.0	N	PART	2	2627
101500120	USA		USASAT-25E	-47.0	N	PART	2	2508
101500278	USA		USASAT-25G	-58.0	N	PART	2	2561
102500471	USA		USASAT-26A	-37.5	N	PART	2	2593
101500542	USA		USASAT-26C	-43.0	N	PART	2	2578
101500397	USA		USASAT-26G	-58.0	N	PART	2	2604
103520284	USA		USASAT-26G-3	-58.0	C	CR/C	1263	2565
97520353	USA		USASAT-28F	-85.1	C	CR/C	1409	2615
97520354	USA		USASAT-28G	-115.0	C	CR/C	1410	2615
106520106	USA		USASAT-28J	-115.1	C	CR/C	1924	2610
106520107	USA		USASAT-28K	-85.2	C	CR/C	1925	2610
107520027	USA		USASAT-28L	-96.0	C	CR/C	2007	2618
105500186	USA		USASAT-31G	-121.0	N	PART	2	2619
105500185	USA		USASAT-31I	-113.0	N	PART	2	2619



ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
105500184	USA		USASAT-31K	-105.0	N	PART	2	2618
105500084	USA		USASAT-31L	-103.0	N	PART	2	2619
105500085	USA		USASAT-31M	-101.0	N	PART	2	2619
105500086	USA		USASAT-31N	-99.0	N	PART	2	2620
96520407	USA		USASAT-31O	-97.0	C	CR/C	619	2485
105500164	USA		USASAT-31S	-89.0	N	PART	2	2619
105500183	USA		USASAT-31U	-85.0	N	PART	2	2619
105500166	USA		USASAT-32A	-117.0	N	PART	2	2624
99520243	USA		USASAT-35A	-131.0	C	CR/C	256	2582
99520520	USA		USASAT-35C	-127.0	C	CR/C	401	2633
107500538	USA		USASAT-35D	-125.0	N	PART	2	2631
99520517	USA		USASAT-35E	-123.0	C	CR/C	398	2582
105500476	USA		USASAT-35G	-105.0	N	PART	2	2628
105500502	USA		USASAT-35H	-103.0	N	PART	2	2628
105500501	USA		USASAT-35I	-101.0	N	PART	2	2631
99520516	USA		USASAT-35J	-99.0	C	CR/C	402	2582
105500494	USA		USASAT-35K	-97.0	N	PART	2	2628
105500381	USA		USASAT-35L	-95.0	N	PART	2	2624
105500493	USA		USASAT-35M	-93.0	N	PART	2	2628
105500380	USA		USASAT-35N	-91.0	N	PART	2	2627
105500477	USA		USASAT-35O	-89.0	N	PART	2	2632
105500518	USA		USASAT-35P	-87.0	N	PART	2	2630
105500517	USA		USASAT-35Q	-85.0	N	PART	2	2630
99520505	USA		USASAT-35R	-83.0	C	CR/C	384	2480
99520539	USA		USASAT-35T	-79.0	C	CR/C	388	2582
106500245	USA		USASAT-35V	-74.0	N	PART	2	2604
105500514	USA		USASAT-35W	-72.0	N	PART	2	2629
99520518	USA		USASAT-35Y	-133.0	C	CR/C	399	2634
90501111	USA		USASAT-3C	-85.0	N	PART	2	
105520031	USA		USASAT-50A	-127.0	C	CR/C	1553	2555
105520032	USA		USASAT-50B	-133.0	C	CR/C	1554	2555
105520033	USA		USASAT-50C	-125.0	C	CR/C	1555	2555
104520229	USA		USASAT-50D	-43.0	C	CR/C	1446	2545
106520026	USA		USASAT-55A	-109.0	C	CR/C	1791	2575
104520230	USA		USASAT-55F	-43.0	C	CR/C	1447	2578
104520292	USA		USASAT-55G	-45.0	C	CR/C	1403	2541
107520050	USA		USASAT-55H	-125.0	C	CR/C	1987	2618
106520108	USA		USASAT-55I	33.0	C	CR/C	1853	2582
107520201	USA		USASAT-55J	-1.0	C	CR/C	2086	2612
108540341	USA		USASAT-55K	-31.5	A	API/A	5221	2623
108540480	USA		USASAT-55L	169.0	A	API/A	5315	2630
104520197	USA		USASAT-60A	172.0	C	CR/C	1457	2546
104520063	USA		USASAT-60B	166.0	C	CR/C	1463	2546
103520429	USA		USASAT-60C	68.5	C	CR/C	1285	2526
105520034	USA		USASAT-60E	-91.0	C	CR/C	1556	2585
105520035	USA		USASAT-60F	-95.0	C	CR/C	1557	2585
105520036	USA		USASAT-60G	-99.0	C	CR/C	1558	2585
105520037	USA		USASAT-60H	-123.0	C	CR/C	1559	2585
104520227	USA		USASAT-60I	-45.0	C	CR/C	1404	2575
104520228	USA		USASAT-60J	169.0	C	CR/C	1434	2544

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106520006	USA		USASAT-60L	-74.0	C	CR/C	1825	2603
106520073	USA		USASAT-60M	-77.0	C	CR/C	1830	2603
108540340	USA		USASAT-60N	33.0	A	API/A	5220	2623
106520029	USA		USASAT-66C	-121.0	C	CR/C	1793	2575
90500349	USA		USASAT-6A	-97.0	N	PART	2	2307
90500350	USA		USASAT-6C	-95.0	N	PART	2	
104520172	USA		USASAT-70A	-62.0	C	CR/C	1435	2578
104520173	USA		USASAT-70B	-71.0	C	CR/C	1436	2578
104520174	USA		USASAT-70C	-119.0	C	CR/C	1437	2578
104520175	USA		USASAT-70D	-129.0	C	CR/C	1438	2578
104520176	USA		USASAT-70E	-77.0	C	CR/C	1439	2578
104520113	USA		USASAT-70G	-87.0	C	CR/C	1425	2576
104520202	USA		USASAT-70K	-97.0	C	CR/C	1475	2581
104520226	USA		USASAT-70L	-117.0	C	CR/C	1488	2600
106520028	USA		USASAT-70N	-113.0	C	CR/C	1792	2600
105520297	USA		USASAT-70O	-95.0	C	CR/C	1708	2594
106540174	USA		USASAT-70Q	-83.0	A	API/A	4126	2575
106540175	USA		USASAT-70R	-121.0	A	API/A	4127	2575
106540176	USA		USASAT-70S	34.0	A	API/A	4128	2575
106540177	USA		USASAT-70T	130.0	A	API/A	4129	2575
106540478	USA		USASAT-70U	-87.0	A	API/A	4332	2581
105520126	USA		USASAT-70V	-99.2	C	CR/C	1641	2589
105520125	USA		USASAT-70W	-102.8	C	CR/C	1642	2589
105520127	USA		USASAT-70Y	-101.0	C	CR/C	1643	2589
107540116	USA		USASAT-71A	-115.0	A	API/A	4582	2594
107520269	USA		USASAT-71B	-77.3	C	CR/C	2116	2635
108540174	USA		USASAT-71C	-115.0	A	API/A	5099	2617
108540531	USA		USASAT-71D	-121.0	A	API/A	5332	2632
108540532	USA		USASAT-71E	-83.0	A	API/A	5333	2632
108540533	USA		USASAT-71F	34.0	A	API/A	5334	2632
108540534	USA		USASAT-71G	130.0	A	API/A	5335	2632
108540535	USA		USASAT-71H	-87.2	A	API/A	5336	2632
108540536	USA		USASAT-71I	-77.4	A	API/A	5337	2632
106540141	USA		USASAT-76A	-119.0	A	API/A	4110	2574
106540143	USA		USASAT-76B	-89.0	A	API/A	4111	2574
106540145	USA		USASAT-76C	15.0	A	API/A	4112	2574
106520094	USA		USASAT-76D	116.5	C	CR/C	1832	2603
101500073	USA		USASAT-7D	-101.0	N	PART	2	2491
90500511	USA		USASAT-8B	-72.0	N	PART	2	
101500396	USA		USASAT-9A	-91.0	N	PART	2	2493
101500077	USA		USASAT-9C	-85.0	N	PART	2	2630
101500076	USA		USASAT-9D	-81.0	N	PART	2	2630
100543844	USA		USBS-1	-60.0	A	API/A	1266	2418
100543845	USA		USBS-2	-65.0	A	API/A	1267	2418
100543846	USA		USBS-3	69.0	A	API/A	1268	2418
101520096	USA		USBUD-1	100.0	C	CR/C	862	2590
104500352	USA		USCSID-A1	0.0	N	PART	2	2598
104500353	USA		USCSID-A2	44.0	N	PART	2	2633
104500354	USA		USCSID-A3	75.0	N	PART	2	2633
104500355	USA		USCSID-A4	82.0	N	PART	2	2633

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
104500356	USA		USCSID-A5	92.0	N	PART	2	2621
104500357	USA		USCSID-A6	110.0	N	PART	2	2621
104500358	USA		USCSID-E1	-10.0	N	PART	2	2600
104500359	USA		USCSID-E2	-13.0	N	PART	2	2622
104500360	USA		USCSID-E3	-24.0	N	PART	2	2597
104500361	USA		USCSID-E4	-30.0	N	PART	2	2622
104500362	USA		USCSID-W1	-141.0	N	PART	2	2621
104500363	USA		USCSID-W2	-144.0	N	PART	2	2622
107500365	USA		USDKA2	-69.0	N	PART	2	2628
100520484	USA		USDKH2	-30.4	C	CR/C	789	2542
104500514	USA		USGAE-1	-90.0	N	PART	2	2633
98520401	USA		USGAE-10	-150.0	C	CR/C	242	2554
103520137	USA		USGAE-10R	-150.0	C	CR/C	1219	2560
98520388	USA		USGAE-11	93.0	C	CR/C	243	2554
103520138	USA		USGAE-11R	93.0	C	CR/C	1220	2560
98520389	USA		USGAE-12	111.0	C	CR/C	244	2554
103520139	USA		USGAE-12R	111.0	C	CR/C	1221	2560
98520390	USA		USGAE-13	96.0	C	CR/C	245	2554
103520140	USA		USGAE-13R	96.0	C	CR/C	1222	2560
98520391	USA		USGAE-14	-16.5	C	CR/C	246	2554
103520141	USA		USGAE-14R	-16.5	C	CR/C	1223	2561
98520392	USA		USGAE-15	-31.5	C	CR/C	247	2554
103520142	USA		USGAE-15R	-31.5	C	CR/C	1224	2561
98520393	USA		USGAE-16	30.0	C	CR/C	248	2554
103520143	USA		USGAE-16R	30.0	C	CR/C	1225	2561
98520394	USA		USGAE-17	-39.0	C	CR/C	249	2554
103520144	USA		USGAE-17R	-39.0	C	CR/C	1226	2561
98520395	USA		USGAE-18	-155.0	C	CR/C	250	2554
103520145	USA		USGAE-18R	-155.0	C	CR/C	1227	2561
98520396	USA		USGAE-19	150.0	C	CR/C	251	2554
103520146	USA		USGAE-19R	150.0	C	CR/C	1228	2561
104500515	USA		USGAE-2	4.0	N	PART	2	2634
98520397	USA		USGAE-20	155.0	C	CR/C	252	2554
103520147	USA		USGAE-20R	155.0	C	CR/C	1229	2561
98520398	USA		USGAE-21	175.0	C	CR/C	253	2554
103520148	USA		USGAE-21R	175.0	C	CR/C	1230	2561
98520399	USA		USGAE-22	180.0	C	CR/C	254	2554
103520149	USA		USGAE-22R	180.0	C	CR/C	1231	2561
98520385	USA		USGAE-3	90.0	C	CR/C	235	2551
103520131	USA		USGAE-3R	90.0	C	CR/C	1213	2560
104500516	USA		USGAE-4	177.5	N	PART	2	2634
98520387	USA		USGAE-5	55.0	C	CR/C	237	2551
103520132	USA		USGAE-5R	55.0	C	CR/C	1214	2560
98520380	USA		USGAE-6	-120.0	C	CR/C	238	2554
103520133	USA		USGAE-6R	-120.0	C	CR/C	1215	2560
98520381	USA		USGAE-7	-68.0	C	CR/C	239	2554
103520134	USA		USGAE-7R	-68.0	C	CR/C	1216	2560
98520382	USA		USGAE-8	-9.0	C	CR/C	240	2554
103520135	USA		USGAE-8R	-9.0	C	CR/C	1217	2560
98520400	USA		USGAE-9	152.0	C	CR/C	241	2554

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
103520136	USA		USGAE-9R	152.0	C	CR/C	1218	2560
96500383	USA		USGCSS PH2 INDOC-2	57.0	N	PART	2	2580
92500208	USA		USGCSS PH3 E PAC-2	-130.0	N	PART	2	2369
93500163	USA		USGCSS PH3 INDOC	60.0	N	PART	2	2140
100500005	USA		USGCSS PH3 INDOC-2	57.0	N	PART	2	2580
96500389	USA		USGCSS PH3 MID-ATL	-42.5	N	PART	2	2370
90500067	USA		USGCSS PH3 W PAC	175.0	N	PART	2	2133
96500387	USA		USGCSS PH3 W PAC-2	180.0	N	PART	2	2463
96500392	USA		USGCSS PH3B ATL	-12.0	N	PART	2	2373
92500109	USA		USGCSS PH3B E PAC	-135.0	N	PART	2	2372
96500386	USA		USGCSS PH3B E PAC-2	-130.0	N	PART	2	2511
100500004	USA		USGCSS PH3B INDOC	60.0	N	PART	2	2612
101500466	USA		USGCSS PH3B INDOC-2	57.0	N	PART	2	2612
100500003	USA		USGCSS PH3B MID-ATL	-42.5	N	PART	2	2580
96500388	USA		USGCSS PH3B W ATL	-52.5	N	PART	2	2510
96500384	USA		USGCSS PH3B W PAC	175.0	N	PART	2	2463
100500086	USA		USGCSS PH3B W PAC-2	180.0	N	PART	2	2580
100500087	USA		USGCSS PH3B W PAC-3	150.0	N	PART	2	2612
104500510	USA		USGGR-11	110.0	N	PART	2	2604
104500507	USA		USGGR-3	-30.0	N	PART	2	2604
104500508	USA		USGGR-4	44.0	N	PART	2	2603
104500509	USA		USGGR-8	82.0	N	PART	2	2603
104500264	USA		USGON-1	70.0	N	PART	2	2598
104500568	USA		USGON-2	8.5	N	PART	2	2619
104500569	USA		USGON-3	103.0	N	PART	2	2593
104500570	USA		USGON-4	-165.0	N	PART	2	2619
104500571	USA		USGON-5	-38.0	N	PART	2	2594
104500572	USA		USGON-6	145.0	N	PART	2	2594
104500573	USA		USGON-7	-145.0	N	PART	2	2593
105520039	USA		USGOVSAT-1	180.0	C	CR/C	1539	2585
105520048	USA		USGOVSAT-10	60.0	C	CR/C	1548	2585
105520049	USA		USGOVSAT-11	150.0	C	CR/C	1549	2585
105520050	USA		USGOVSAT-12	175.0	C	CR/C	1550	2585
105520051	USA		USGOVSAT-13	-123.0	C	CR/C	1551	2585
105520052	USA		USGOVSAT-14	-77.0	C	CR/C	1552	2585
105520040	USA		USGOVSAT-2	-151.0	C	CR/C	1540	2585
105520041	USA		USGOVSAT-3	-135.0	C	CR/C	1541	2585
105520042	USA		USGOVSAT-4	-130.0	C	CR/C	1542	2585
105520043	USA		USGOVSAT-5	-112.0	C	CR/C	1543	2585
105520044	USA		USGOVSAT-6	-52.5	C	CR/C	1544	2585
105520045	USA		USGOVSAT-7	-42.5	C	CR/C	1545	2585
105520046	USA		USGOVSAT-8	-12.0	C	CR/C	1546	2585
105520047	USA		USGOVSAT-9	57.0	C	CR/C	1547	2585
95500286	USA		USLL-ATL	-10.0	N	PART	2	2240
104500333	USA		USLL-ATL2	-12.5	N	PART	2	2603
95500289	USA		USLL-PAC	-144.0	N	PART	2	2278
104500334	USA		USLL-PAC2	-141.0	N	PART	2	2602
104500339	USA		USMB-1	-61.0	N	PART	2	2597
104500348	USA		USMB-10	75.0	N	PART	2	2598
104500349	USA		USMB-11	82.0	N	PART	2	2597

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
104500350	USA		USMB-12	92.0	N	PART	2	2597
104500351	USA		USMB-13	106.5	N	PART	2	2598
104500340	USA		USMB-2	-30.0	N	PART	2	2597
104500341	USA		USMB-3	-19.0	N	PART	2	2597
104500342	USA		USMB-4	-10.0	N	PART	2	2597
104500343	USA		USMB-5	5.0	N	PART	2	2597
104500344	USA		USMB-6	7.0	N	PART	2	2597
104500345	USA		USMB-7	33.0	N	PART	2	2600
104500346	USA		USMB-8	49.0	N	PART	2	2597
104500347	USA		USMB-9	62.0	N	PART	2	2600
107540502	USA		USNN-1	-65.0	A	API/A	4708	2602
107540503	USA		USNN-2	-69.0	A	API/A	4709	2602
107540504	USA		USNN-3	-127.0	A	API/A	4710	2602
108540149	USA		USNN-4	100.0	A	API/A	5079	2616
101520081	USA		USOBO-1	-159.4	C	CR/C	844	2585
101520090	USA		USOBO-10	130.6	C	CR/C	853	2585
105520370	USA		USOBO-10R	130.6	C	CR/C	1749	2597
101520091	USA		USOBO-11	139.0	C	CR/C	854	2585
105520371	USA		USOBO-11R	139.0	C	CR/C	1750	2597
105520361	USA		USOBO-1R	-159.4	C	CR/C	1740	2597
101520082	USA		USOBO-2	-96.8	C	CR/C	845	2585
105520362	USA		USOBO-2R	-96.8	C	CR/C	1741	2597
101520083	USA		USOBO-3	-49.4	C	CR/C	846	2585
105520363	USA		USOBO-3R	-49.4	C	CR/C	1742	2597
101520084	USA		USOBO-4	-21.2	C	CR/C	847	2585
105520364	USA		USOBO-4R	-21.2	C	CR/C	1743	2597
101520085	USA		USOBO-5	20.6	C	CR/C	848	2585
105520365	USA		USOBO-5R	20.6	C	CR/C	1744	2597
101520086	USA		USOBO-6	66.0	C	CR/C	849	2585
105520366	USA		USOBO-6R	66.0	C	CR/C	1745	2597
101520087	USA		USOBO-7	73.0	C	CR/C	850	2585
105520367	USA		USOBO-7R	73.0	C	CR/C	1746	2597
101520088	USA		USOBO-8	87.5	C	CR/C	851	2585
105520368	USA		USOBO-8R	87.5	C	CR/C	1747	2597
101520089	USA		USOBO-9	94.0	C	CR/C	852	2585
105520369	USA		USOBO-9R	94.0	C	CR/C	1748	2597
90500517	USA		USRDSS CENTRAL	-100.0	N	PART	2	2543
90500519	USA		USRDSS EAST	-70.0	N	PART	2	2543
90500521	USA		USRDSS WEST	-130.0	N	PART	2	2543
97520280	USA		USTRO-2	-144.0	C	AR11/C	3248	2391
97520281	USA		USTRO-3	-141.0	C	AR11/C	3249	2391
97520282	USA		USTRO-4	-13.0	C	AR11/C	3250	2391
97520283	USA		USTRO-5	-10.0	C	AR11/C	3251	2391
97520284	USA		USTRO-6	70.0	C	AR11/C	3252	2391
97520285	USA		USTRO-7	90.0	C	AR11/C	3253	2391
97520286	USA		USTRO-8	103.0	C	AR11/C	3254	2391
97520287	USA		USTRO-9	85.0	C	AR11/C	3255	2391
105540013	USA		3 CORNER SAT	N-GSO	A	API/A	3405	2539
98500190	USA		ACE	N-GSO	N	PART	2	2590
99500078	USA		ACRIMSAT	N-GSO	N	PART	2	2590

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
105500022	USA		AIM	N-GSO	N	PART	2	2603
94500240	USA		ALEXIS	N-GSO	N	PART	2	2163
104540472	USA		AMSAT-OSCAR-E	N-GSO	A	API/A	3289	2531
101500081	USA		AURA	N-GSO	N	PART	2	2592
97500109	USA		AXAF-1	N-GSO	N	PART	2	2590
106500295	USA		BIGELOW	N-GSO	N	PART	2	2609
96500413	USA		BLOCK 5D-3	N-GSO	N	PART	2	2590
96500408	USA		CASSINI	N-GSO	N	PART	2	2590
101500569	USA		CHIPS	N-GSO	N	PART	2	2590
106500083	USA		CIBOLA	N-GSO	N	PART	2	2608
92500205	USA		COMET	N-GSO	N	PART	2	2590
105500717	USA		CPI	N-GSO	N	PART	2	2583
90504402	USA		CRRES	N-GSO	N	PART	2	2166
104500387	USA		DAWN	N-GSO	N	PART	2	2609
103500255	USA		DEEP IMPACT	N-GSO	N	PART	2	2592
98500032	USA		EMU-SSCS	N-GSO	N	PART	2	2591
97500289	USA		EOS AM	N-GSO	N	PART	2	2591
99500040	USA		EOS PM	N-GSO	N	PART	2	2613
90504403	USA		ERBS	N-GSO	N	PART	2	2573
94500029	USA		FAST	N-GSO	N	PART	2	2591
105500618	USA		FORTE	N-GSO	N	PART	2	2607
98500031	USA		FUSE	N-GSO	N	PART	2	2591
100500183	USA		GALEX	N-GSO	N	PART	2	2591
105540446	USA		GENESAT	N-GSO	A	API/A	3830	2554
106500167	USA		GLAST	N-GSO	N	PART	2	2627
105500392	USA		GLORY	N-GSO	N	PART	2	2587
100500185	USA		GRAVITY PROBE-B	N-GSO	N	PART	2	2591
99500079	USA		HESSI	N-GSO	N	PART	2	2591
95500099	USA		HETE	N-GSO	N	PART	2	2591
95500672	USA		HIBLEO-2	N-GSO	N	PART	2	2591
95500673	USA		HIBLEO-2FL	N-GSO	N	PART	2	2591
99500289	USA		HIBLEO-4	N-GSO	N	PART	2	2613
99500160	USA		HIBLEO-4FL	N-GSO	N	PART	2	2591
95500674	USA		HIBLEO-5FL-2	N-GSO	N	PART	2	2358
107500412	USA		IBEX	N-GSO	N	PART	2	2625
100500001	USA		ICESAT	N-GSO	N	PART	2	2591
99500080	USA		IMAGE	N-GSO	N	PART	2	2592
90504413	USA		IMP-J	N-GSO	N	PART	2	2575
101500582	USA		INTNL SPACE STATION	N-GSO	N	PART	2	2592
96500515	USA		INTNL SPACE STN ACS	N-GSO	N	PART	2	2592
96500516	USA		INTNL SPACE STN SGS	N-GSO	N	PART	2	2592
105500024	USA		ION	N-GSO	N	PART	2	2630
98500030	USA		ISS SSCS	N-GSO	N	PART	2	2592
93500326	USA		ISTP POLAR	N-GSO	N	PART	2	2592
94500123	USA		ISTP WIND	N-GSO	N	PART	2	2592
108540379	USA		JUNO	N-GSO	A	API/A	5235	2626
106500296	USA		KEPLER	N-GSO	N	PART	2	2608
105540413	USA		KUTESAT	N-GSO	A	API/A	3746	2557
96500415	USA		L-92	N-GSO	N	PART	2	2592
90504427	USA		LANDSAT-4	N-GSO	N	PART	2	2573

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106500335	USA		LANDSAT-7	N-GSO	N	PART	2	2607
95500068	USA		LEOTELCOM-1	N-GSO	N	PART	2	2593
93520156	USA		LEOTELCOM-2	N-GSO	C	CR/C	317	2529
101500556	USA		LEOTELCOM-3	N-GSO	N	PART	2	2593
96520552	USA		LEOTELCOM-5	N-GSO	C	RES46/C	310	2302
107500413	USA		LRO	N-GSO	N	PART	2	2628
99500011	USA		MAP	N-GSO	N	PART	2	2593
101500002	USA		MARS 2001 ORBITER	N-GSO	N	PART	2	2593
96500378	USA		MARS GLOBAL SURVEYOR	N-GSO	N	PART	2	2593
106540547	USA		MAST	N-GSO	A	API/A	4363	2584
105540399	USA		MER	N-GSO	A	API/A	3736	2570
105500001	USA		MEROPE	N-GSO	N	PART	2	2632
102500024	USA		MESSENGER	N-GSO	N	PART	2	2593
94500313	USA		MICROLAB-1	N-GSO	N	PART	2	2593
107520118	USA		MIDSTAR-1	N-GSO	C	CR/C	2111	2633
104500107	USA		MRO	N-GSO	N	PART	2	2584
106540472	USA		MSL	N-GSO	A	API/A	4284	2579
96520043	USA		MSSLEO-3	N-GSO	C	RES46/C	383	2309
105500120	USA		MTI	N-GSO	N	PART	2	2607
108540229	USA		NANOSAIL-D	N-GSO	A	API/A	5114	2633
90504609	USA		NAVSTAR GPS	N-GSO	N	PART	2	2593
103500110	USA		NAVSTAR GPS-IIRF	N-GSO	N	PART	2	2613
104500003	USA		NEW HORIZONS	N-GSO	N	PART	2	2589
98500127	USA		NMP/EO-1	N-GSO	N	PART	2	2593
107520043	USA		NOAA N	N-GSO	C	CR/C	1943	2616
102500348	USA		NOAA-KLM	N-GSO	N	PART	2	2613
107540739	USA		NPOESS	N-GSO	A	API/A	4805	2634
105500436	USA		NPP	N-GSO	N	PART	2	2625
106500003	USA		OCO	N-GSO	N	PART	2	2607
90504613	USA		OSCAR-7	N-GSO	N	PART	2	
90504614	USA		OSCAR-8	N-GSO	N	PART	2	
98500199	USA		P-197-1	N-GSO	N	PART	2	2613
95500118	USA		P92-1	N-GSO	N	PART	2	2593
95500119	USA		P92-2	N-GSO	N	PART	2	2593
90504615	USA		PAM	N-GSO	N	PART	2	2573
106500336	USA		PHOENIX	N-GSO	N	PART	2	2608
101500267	USA		PICASSO	N-GSO	N	PART	2	2594
90504617	USA		PIONEER-10	N-GSO	N	PART	2	2580
90504619	USA		PIONEER-6	N-GSO	N	PART	2	2580
108540228	USA		PRESAT	N-GSO	A	API/A	5113	2633
98500027	USA		QUIKSCAT	N-GSO	N	PART	2	2594
105540383	USA		RINCON1	N-GSO	A	API/A	3716	2549
105540382	USA		SACRED	N-GSO	A	API/A	3715	2549
93500150	USA		SAMPEX	N-GSO	N	PART	2	2594
90504632	USA		SAR	N-GSO	N	PART	2	2590
104500335	USA		SDO	N-GSO	N	PART	2	2622
96500395	USA		SEASTAR	N-GSO	N	PART	2	2594
102500307	USA		SIRTF	N-GSO	N	PART	2	2594
101500186	USA		SORCE	N-GSO	N	PART	2	2594
90504637	USA		SPACE SHUTTLE	N-GSO	N	PART	2	2608

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
90504855	USA		SPACE SHUTTLE EMU	N-GSO	N	PART	2	2573
90504854	USA		SPACE SHUTTLE EVA	N-GSO	N	PART	2	2573
98500029	USA		SPACE SHUTTLE SSCS	N-GSO	N	PART	2	2594
99500159	USA		SPOT-4(POAM)	N-GSO	N	PART	2	2451
90504642	USA		ST	N-GSO	N	PART	2	2595
90504858	USA		ST OMNI	N-GSO	N	PART	2	2595
107540126	USA		ST-8	N-GSO	A	API/A	4597	2610
98500131	USA		STARDUST	N-GSO	N	PART	2	2594
104500386	USA		STEREO	N-GSO	N	PART	2	2586
96500374	USA		SURFSAT-1	N-GSO	N	PART	2	2594
95500357	USA		SWAS	N-GSO	N	PART	2	2594
101500156	USA		SWIFT	N-GSO	N	PART	2	2595
105500023	USA		THEMIS	N-GSO	N	PART	2	2605
98500155	USA		TIMED	N-GSO	N	PART	2	2595
94500019	USA		TOMS-EP	N-GSO	N	PART	2	2595
96500448	USA		TRACE	N-GSO	N	PART	2	2595
90504645	USA		TRANSIT	N-GSO	N	PART	2	
96500514	USA		TRMM	N-GSO	N	PART	2	2595
106540173	USA		USAKA-H1	N-GSO	A	API/A	4125	2575
108540530	USA		USAKA-H2	N-GSO	A	API/A	5331	2632
98520759	USA		USAMEO-4	N-GSO	C	CR/C	1658	2562
105500622	USA		USAS	N-GSO	N	PART	2	2631
100500337	USA		USASAT-28C	N-GSO	N	PART	2	2633
108540526	USA		USASAT-28M	N-GSO	A	API/A	5327	2631
95500460	USA		USASAT-30A	N-GSO	N	PART	2	2611
96500526	USA		USASAT-30B	N-GSO	N	PART	2	2613
103500092	USA		USASAT-30C	N-GSO	N	PART	2	2595
106540139	USA		USAVKA-H1	N-GSO	A	API/A	4109	2574
104540206	USA		USCLOUDSAT	N-GSO	A	API/A	3157	2519
105540378	USA		USCNOFS	N-GSO	A	API/A	3711	2549
102540409	USA		USCORIOLIS	N-GSO	A	API/A	2463	2484
105500620	USA		USCP	N-GSO	N	PART	2	2610
96500158	USA		USCSID-P	N-GSO	N	PART	2	2616
104500103	USA		USGGR-HEO	N-GSO	N	PART	2	2595
104500104	USA		USGGR-LEO	N-GSO	N	PART	2	2595
105500621	USA		USKL	N-GSO	N	PART	2	2616
108540160	USA		USKW	N-GSO	A	API/A	5098	2628
95500287	USA		USLL-HEO	N-GSO	N	PART	2	2596
95500288	USA		USLL-LEO	N-GSO	N	PART	2	2596
108520004	USA		USNFR	N-GSO	C	CR/C	2159	2621
98500254	USA		USPOL	N-GSO	N	PART	2	2596
108520026	USA		USSTP-1	N-GSO	C	CR/C	2146	2619
106500268	USA		USTRO-1	N-GSO	N	PART	2	2608
108500600	USA		USYV	N-GSO	N	PART	2	2635
100500101	USA		VCL	N-GSO	N	PART	2	2596
90504648	USA		VOYAGER-1	N-GSO	N	PART	2	2573
90504649	USA		VOYAGER-2	N-GSO	N	PART	2	2573
107500411	USA		WISE	N-GSO	N	PART	2	2625
96500376	USA		XTE	N-GSO	N	PART	2	2596
108540615	VTN		VIETSAT-103	103.0	A	API/A	5352	2634



ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108540616	VTN		VIETSAT-110	110.0	A	API/A	5353	2634
108540617	VTN		VIETSAT-114.5	114.5	A	API/A	5354	2634
108540618	VTN		VIETSAT-120	120.0	A	API/A	5355	2634
108540619	VTN		VIETSAT-126	126.0	A	API/A	5356	2634
108540620	VTN		VIETSAT-128	128.0	A	API/A	5357	2634
108540621	VTN		VIETSAT-129	129.0	A	API/A	5358	2634
108540622	VTN		VIETSAT-131	131.0	A	API/A	5359	2634
108540623	VTN		VIETSAT-131.8	131.8	A	API/A	5360	2634
108540624	VTN		VIETSAT-132	132.0	A	API/A	5361	2634
108540625	VTN		VIETSAT-133	133.0	A	API/A	5362	2634
108540626	VTN		VIETSAT-134	134.0	A	API/A	5363	2634
108540627	VTN		VIETSAT-136	136.0	A	API/A	5364	2634
108540628	VTN		VIETSAT-138	138.0	A	API/A	5365	2634
108540613	VTN		VIETSAT-68	68.0	A	API/A	5350	2634
108540614	VTN		VIETSAT-97	97.0	A	API/A	5351	2634
108540342	VTN		VINASAT-1C1	107.0	A	API/A	5222	2623
102520122	VTN		VINASAT-1C2	107.0	C	CR/C	1080	2631
105520236	VTN		VINASAT-1D	131.0	C	CR/C	1679	2591
103520549	VTN		VINASAT-3B2	103.0	C	CR/C	1361	2573
97520201	VTN		VINASAT-4A	132.0	C	CR/C	805	2586
101520356	VTN		VINASAT-4A2	132.0	C	CR/C	1008	2554
104520308	VTN		VINASAT-4A3	132.0	C	CR/C	1522	2584
108500949	VTN		VINASAT-FSS-131E-III	131.8	N	PART	2	2630
107520144	VTN		VINASAT-TTC	132.0	C	CR/C	2042	2606

附件 2

附录 30 和 30A – 已通知、进入频率总表并已确认在 2008 年 12 月 31 日前  
投入使用的卫星网络

表 2.1: 附录 30-1 和 3 区下行

(根据主管部门和卫星名称排序)

ntc_id	adm	sat_name	long_nom	ifc_no
100560001	ARS	ARABSAT-BSS1	26	2472
100560047	ARS	ARABSAT-BSS1	26	2489, 2575
108560001	ARS	ARABSAT-BSS1A	26	2622
108560003	ARS	ARABSAT-BSS1B	26	2622
105560007	CHN	ASIASAT-ABS	122	2549
107560007	CHN	ASIASAT-DTH-A	122	2611
106560015	CHN	CHNBSAT-92.2E	92.2	2580,2593
108560005	E	HISPASAT 3C	-30	2626
108560006	E	HISPASAT 3E	-30	2626
92500242	E	HISPASAT-1	-30	2107
99500253	E	HISPASAT-1	-30	2472
99500256	E	HISPASAT-1	-30	2472
95560001	E	HISPASAT-2	-30	2472
100560005	E	HISPASAT-3	-30	2472
107560008	EGY	NILESAT-102	-7	2619
100560007	EGY	NILESAT-1S	-7	2472
106560008	F	EUTELSAT B-10E	10.2	2572, 2580
106560001	F	EUTELSAT B-12W	-12	2572, 2582
100500126	F	EUTELSAT B-13E	13	2472
102560001	F	EUTELSAT B-13E	13	2501
100560052	F	EUTELSAT B-36E	36	2493
103560002	F	EUTELSAT B-48E	48	2503, 2575
100560043	F	RADIOSAT-5	-7	2489
100560045	F	RADIOSAT-5A	-7	2489
107560003	F	RADIOSAT-5C	-7	2604
104560006	G	INTELSAT KUEXT 157E	157	2535, 2572
103560005	G	INTELSAT KUEXT 60E	60	2525
104560003	G	INTELSAT KUEXT 66E	66	2525
106560010	IRN	IRNDBS-2	26	2573
90902815	J	BS-3	110	1991
96500124	J	BS-3M	110	2231
96500108	J	BS-3N	109.85	2231
100560057	J	BSAT-2	110	2499
100560059	J	BSAT-2N	109.85	2499
103560006	J	JBSS-1	110	2509

<b>ntc_id</b>	<b>adm</b>	<b>sat_name</b>	<b>long_nom</b>	<b>ific_no</b>
103560008	J	JBSS-1N	109.85	2509
95500490	KOR	KOREASAT-1	116	2216
96500633	KOR	KOREASAT-1	116	2231
100560009	KOR	KOREASAT-2	113	2472
105560012	KOR	KOREASAT-3	116	2558
100560041	LAO	LSTAR4B	126	2488, 2542, 2583
99500252	LUX	DBL	19.2	2472
102560005	LUX	DBL	19.2	2502
103560012	LUX	DBL-24.2E	23.5	2523
104560025	LUX	DBL-24.2E	23.5	2544
100560013	LUX	DBL-28.2E	28.2	2472
106560013	LUX	DBL-31.5E	31.5	2577
99500258	NOR	BIFROST	-0.8	2472
104560017	NOR	BIFROST-10	-0.8	2548
104560019	NOR	BIFROST-11	-0.8	2548
104560019	NOR	BIFROST-12	-0.8	2548
104560021	NOR	BIFROST-13	-0.8	2548
105560001	NOR	BIFROST-16	-0.8	2548
105560003	NOR	BIFROST-17	-0.8	2548
105560005	NOR	BIFROST-18	-0.8	2548
105560014	NOR	BIFROST-19	-0.8	2558
97500445	NOR	BIFROST-2	-0.8	2472
104560007	NOR	BIFROST-6	-0.8	2548
104560009	NOR	BIFROST-7	-0.8	2548
104560011	NOR	BIFROST-8	-0.8	2548
104560015	NOR	BIFROST-9	-0.8	2548
98560001	RUS	RST-1	36	2472
100560017	RUS	RST-1	36	2472
100560037	RUS	RST-2	56	2488
103560010	RUS	RST-4	110	2516
93500314	S	SIRIUS	5.2	2121
104560013	S	SIRIUS-13W	-13	2542
100560021	S	SIRIUS-2	5	2472
100560025	S	SIRIUS-3	5.2	2472
107560001	S	SIRIUS-4-BSS	5	2590, 2622
100500301	S	SIRIUS-W	-13	2472
96500629	S	TELE-X	5	2472
100560050	TUR	TURKSAT-BSS	42	2489, 2503

表 2.2: 附录 30A - 1 和 3 区的馈线链路

(根据主管部门和卫星名称排序)

ntc_id	adm	sat_name	long_nom	ific_no
100560002	ARS	ARABSAT-BSS1	26	2472
100560048	ARS	ARABSAT-BSS1	26	2489, 2575
108560002	ARS	ARABSAT-BSS1A	26	2622
108560004	ARS	ARABSAT-BSS1B	26	2622
106560016	CHN	CHNBSAT-92.2E	92.2	2580, 2593
92500247	E	HISPASAT-1	-30	2107
99500254	E	HISPASAT-1	-30	2472
99500255	E	HISPASAT-1	-30	2472
95560002	E	HISPASAT-2	-30	2472, 2501, 2502
107560009	EGY	NILESAT-102	-7	2619
100560008	EGY	NILESAT-1S	-7	2472
106560009	F	EUTELSAT B-10E	10.2	2572, 2580
106560002	F	EUTELSAT B-12W	-12	2572, 2582
100500125	F	EUTELSAT B-13E	13	2472
101560002	F	EUTELSAT B-13E	13	2501
100500127	F	EUTELSAT B-36E	36	2472
102560003	F	EUTELSAT B-48E	48	2501, 2575
100560044	F	RADIOSAT-5	-7	2489
100560046	F	RADIOSAT-5A	-7	2489
107560004	F	RADIOSAT-5C	-7	2604
106560011	IRN	IRNDBS-2	26	2573
96500132	J	BS-3M	110	2231
96500116	J	BS-3N	109.85	2231
100560058	J	BSAT-2	110	2527
100560060	J	BSAT-2N	109.85	2527
103560007	J	JBSS-1	110	2509
103560009	J	JBSS-1N	109.85	2509
95500496	KOR	KOREASAT-1	116	2216
96500639	KOR	KOREASAT-1	116	2231
100560010	KOR	KOREASAT-2	113	2472
105560013	KOR	KOREASAT-3	116	2558
100560042	LAO	LSTAR4B	126	2488, 2542, 2583
100560012	LUX	DBL	19.2	2472
103560013	LUX	DBL-24.2E	23.5	2523
100560016	LUX	DBL-28.2E	28.2	2472
106560014	LUX	DBL-31.5E	31.5	2577
99500257	NOR	BIFROST	-0.8	2472
104560018	NOR	BIFROST-10	-0.8	2548
104560020	NOR	BIFROST-11	-0.8	2548

<b>ntc_id</b>	<b>adm</b>	<b>sat_name</b>	<b>long_nom</b>	<b>ific_no</b>
104560019	NOR	BIFROST-12	-0.8	2548
104560022	NOR	BIFROST-13	-0.8	2548
105560002	NOR	BIFROST-16	-0.8	2548
105560004	NOR	BIFROST-17	-0.8	2548
105560006	NOR	BIFROST-18	-0.8	2548
105560015	NOR	BIFROST-19	-0.8	2558
97500444	NOR	BIFROST-2	-0.8	2472
104560008	NOR	BIFROST-6	-0.8	2548
104560010	NOR	BIFROST-7	-0.8	2548
104560012	NOR	BIFROST-8	-0.8	2548
104560016	NOR	BIFROST-9	-0.8	2548
98560002	RUS	RST-1	36	2472
100560018	RUS	RST-1	36	2472
100560038	RUS	RST-2	56	2488
103560011	RUS	RST-4	110	2516
93500319	S	SIRIUS	5.2	2121
104560014	S	SIRIUS-13W	-13	2542
100560024	S	SIRIUS-2	5	2472
100560028	S	SIRIUS-3	5.2	2472
100500302	S	SIRIUS-W	-13	2472
96500630	S	TELE-X	5	2472
103560004	TUR	TURKSAT-BSS	42	2489, 2503

表 2.3: 附录 30 和 30A - 2 区

(根据主管部门和卫星名称排序)

ntc_id	adm	ntw_org	sat_name	long_nom	ific_no
102560006	CAN		CAN-BSS1	-82	2502
102560007	CAN		CAN-BSS2	-91	2502
104560029	CAN		CAN-BSS3	-72.7	2544
105560010	CAN		CAN-BSS4	-129	2557
105560019	G		INTELSAT KUEXT 304.5	-55.5	2566
105560009	MEX		MEX-TDH1	-77	2557
100560034	USA		USABSS-1	-101.2	2488
107560005	USA		USABSS-10	-119	2607
104560026	USA		USABSS-13	-101.2	2544
105560011	USA		USABSS-19	-100.85	2558
104560001	USA		USABSS-1M	-110	2523
104560002	USA		USABSS-1R	-101.2	2523
100560035	USA		USABSS-2	-100.8	2488
107560002	USA		USABSS-24	-100.8	2592
100560036	USA		USABSS-2A	-100.85	2488
105560021	USA		USABSS-3	-119.2	2489, 2566
105560024	USA		USABSS-4	-118.8	2566
105560016	USA		USABSS-5	-109.8	2558
105560017	USA		USABSS-6	-110.2	2558
105560020	USA		USABSS-7A	-119	2566
107560006	USA		USABSS-8	-61.5	2607
105560025	USA		USABSS-9	-148	2566

### 附件 3

**表 3.1: 附录30B – 已通知、进入频率总表并已确认在2008年12月31日前投入使用的卫星网络**

(根据主管部门和卫星名称排序)

<b>ntc_id</b>	<b>adm</b>	<b>ntw_org</b>	<b>sat_name</b>	<b>long_nom</b>
96500372	CAN		MSAT-30B	-106.50
103500447	CAN		MSAT(30B)	-106.50
103559025	CTI	RAS	RASCOM-1F	2.90
106500378	CTI	RAS	RASCOM-2F	2.90
101500577	E		HISPASAT-1C	-30.00
106500023	F	EUT	EUTELSAT EXB-64W_C	-61.00
106500039	F	EUT	EUTELSAT EXB-64W	-61.00
101500604	F		TELECOM-30B	-8.00
102500497	F	EUT	EUTELSAT EXB-7E	7.00
88920001	F	EUT	EUTELSAT-1	10.00
100500129	F	EUT	EUTELSAT EXB-13E	13.00
104500578	F	EUT	EUTELSAT EXB-16E	16.00
105500572	F	EUT	EUTELSAT EXB-36E	36.00
105500573	F	EUT	EUTELSAT EXB-40E	40.00
105500441	F	EUT	EUTELSAT EXB-48E	48.00
105500626	F	EUT	EUTELSAT EXB-76E_C	76.00
104500591	F	EUT	EUTELSAT EXB-37.2W	13.00
103500446	F	EUT	EUTELSAT EXB-70.5E	70.50
105500627	F	EUT	EUTELSAT EXB-73.5E_C	73.50
105500628	F	EUT	EUTELSAT EXB-73.5E	73.50
87559002	F	EUT	EUTELSAT 1-2	13.00
90500631	F	EUT	EUTELSAT 1-3	7.00
102500526	F	EUT	EUTELSAT EXB-12.5W	-12.50
104500577	F	EUT	EUTELSAT EXB-28.5E	28.50
100500446	HNG		CERES-1	-4.00
107500528	IND		INSAT-EXC55E	55.00
91500223	IND		INSAT-2C	74.00
91500221	IND		INSAT-2A	83.00
91500222	IND		INSAT-2B	93.50
101500600	ISR		AMOS-II 4W	-4.00
90500682	LUX		GDL-6	19.20
101500598	LUX		GDL-6(30B)	19.20
107500174	LUX		LUX-30B-5	19.20
107500177	LUX		LUX-30B-8	21.50
107500175	LUX		LUX-30B-6	23.50
107500176	LUX		LUX-30B-7	28.20

<b>ntc_id</b>	<b>adm</b>	<b>ntw_org</b>	<b>sat_name</b>	<b>long_nom</b>
100500079	NOR		BIFROST-2-FSS	-0.80
106500355	NOR		BIFROST-3-FSS	-0.80
94500365	RUS		FOTON-3	-168
90500133	RUS		ESDRN	-160.00
90500134	RUS		WSDRN	-16.00
104500579	RUS		ZSSRD-2 (30B)	-16.00
94500364	RUS		FOTON-1	-13.50
90501087	RUS		CSSRD-2	77.00
92500170	RUS		FOTON-2	80
90500132	RUS		CSDRN	95.00
90501088	RUS		VSSRD-2	167.00
101500592	RUS		STATSIONAR-D2-30B	-170.00
101500591	RUS		STATSIONAR-D1-30B	-26.50
101500593	RUS		STATSIONAR-D3-30B	35.00
101500594	RUS		STATSIONAR-D4-30B	45.00
101500595	RUS		STATSIONAR-D5-30B	85.40
101500596	RUS		STATSIONAR-D6-30B	128.00
100500401	S		SIRIUS-30B	5.00
104500214	USA		USASAT 26G(30B)	-58.00
104500213	USA		USASAT 13I(30B)	-45.00



## 附件 4

### 统计数据

表 4.1: 卫星网络和规则状态

(A = 网络处于 API 阶段, C = 网络处于协调阶段, N = 网络处于通知阶段)

	<b>TOTAL networks</b>	<b>A</b>	<b>C</b>	<b>N</b>
	3564	1132	1284	1148
<b>GSO</b>	3126	1017	1249	860
<b>non-GSO</b>	438	115	35	288

表 4.2: 每个主管部门唯一资料（网络）统计

总计 - 62 个主管部门

ADM	A	C	N	TOTAL
AFS			1	1
ALG			1	1
ARG	5	2	5	12
ARS	1	20	5	26
AUS	9	43	33	85
AZE	24			24
B	3	15	15	33
BEL		5	2	7
BLR	4	23	8	35
BRU		1		1
CAN	53	61	24	138
CHN	92	75	49	216
CLM	16	1		17
CTI		6	2	8
CUB		2		2
CYP	2	7		9
CZE	5	1		6
D	2	21	10	33
E	6	8	13	27
EGY	5	8	1	14
F	287	144	150	581
G	42	106	32	180
GRC		1	1	2
HNG			1	1
HOL	60	39	24	123
I	9	8	5	22
IND	26	51	39	116
INS	1	20	9	30
IRN	4		5	9
ISR	11	6	3	20
J	40	69	53	162
KAZ	15	6		21
KOR	2	20	11	33
LAO	1			1
LBY	2		2	4
LUX	100	81	11	192

<b>ADM</b>	<b>A</b>	<b>C</b>	<b>N</b>	<b>TOTAL</b>
MCO		2		2
MEX	8	11	8	27
MHL		1		1
MLA	9	21	9	39
NIG	2	1		3
NOR	7	2	3	12
NRU		3		3
NZL	4	4		8
PAK	6	8	1	15
PNG	5	18	1	24
POR			1	1
RUS	6	34	152	192
S	9	5	6	20
SEY		2	2	4
SNG	12	2	1	15
SUI			1	1
THA	4	18	7	29
TON		4	9	13
TRD		1		1
TUR	16	15	7	38
UAE	132	35	3	170
UKR	2	1	2	5
URG		2		2
URS			32	32
USA	66	237	387	690
VTN	17	7	1	25
<b>TOTAL</b>	<b>1132</b>	<b>1284</b>	<b>1148</b>	<b>3564</b>

附件 5

**Liste des systèmes à satellite -  
Description des colonnes**

**List of the satellite systems  
Description of the columns**

**Lista de los sistemas de satélites  
Descripción de las columnas**

<b>Item</b>	<b>Description</b>	<b>Description</b>	<b>Descripción</b>
ntc_id	Numéro d'identification du réseau à satellite	Identification number of the network	BR Número de identificación de la red
adm	Administration notificatrice (voir le Tableau 1 de la Préface)	Notifying administration (Refer to Table 1 of the Preface)	Administración notificante (véase el cuadro 1 del Prefacio)
ntw_org	Organisation intergouvernementale de satellite	Intergovernmental satellite organization	Organización intergubernamental de satélite
sat_name	Identité du réseau à satellite	Identity of the satellite network	Identidad de la red de satélite
long_nom	Longitude nominale d'une station spatiale géostationnaire (degré) ou non géostationnaire dans le cas d'un réseau non-OSG	Nominal longitude of a geostationary space station (degrees) or non-GSO for non-geostationary	Longitud nominal de una estación espacial geoestacionaria (grado) o N-GSO para una estación no geoestacionaria
ntf_rsn	A = Réseau au stade API C = Réseau au stade de la coordination N = Réseau au stade de la notification	A = Network in API stage C = Network in coordination stage N = Network in notification stage	B = Red en etapa de API C = Red en etapa de coordinación N = Red en etapa de notificación
sns_ref+ssn_no	Référence aux sections spéciales	Reference to special sections	Referencia a las secciones especiales
ific_no	Numéro de la BR IFIC	BR IFIC number	Número de la BR IFIC

卫星系统清单  
栏目描述

Список спутниковых систем  
описание колонок

Item	描述	Описание	
ntc_id	卫星网络标识号码	Идентификационный номер спутниковой сети	
adm	通知主管部门 (参阅前言表 1)	Заявляющая администрация (см. таблицу 1 Предисловия)	( 1 )
ntw_org	政府间卫星组织	Межправительственная спутниковая организация	
sat_name	卫星网络的标识	Название спутниковой сети	
long_nom	静止空间台站或用于非对地静止的非 GSO 的标称经度 (度)	Номинальная долгота геостационарной космической станции (градусы) или негеостационарной космической станции	( ) N-GSO
ntf_rsn	A= 处于 API 阶段的网络 C= 处于协调阶段的网络 N= 处于通知阶段的网络	A = Сеть на этапе API C = Сеть на этапе координации N = Сеть на этапе заявления	" " = A = C = N
sns_ref+ssn_no	引证特节	Ссылка на Специальные секции	
ific_no	无线电通信局国际频率信息通报编号	Номер ИФИК БР	