

# INTERNATIONAL TELECOMMUNICATION UNION

*Radiocommunication Bureau*



## **ITU Radiocommunication Bureau (BR) 2008 Annual Space Report to STS-09 on the use of the geostationary-satellite orbit (GSO) and other orbits**

In the **report of the 45<sup>th</sup> session of the Scientific and Technical Subcommittee (STS) of COPUOS** (11-22.02.2008), § 184 - *the subcommittee invited ITU to make further reports concerning its contribution to the peaceful uses of outer space, including the use of the geostationary-satellite orbit (GSO) and other orbits.*

Accordingly, please find attached:

**ANNEX 1** - List of geostationary and non-geostationary space networks for which information has been communicated to the ITU Radiocommunication Bureau **up to 31.12.2008** in application of the provisions of Article 9 (Advance Publication Information - A or Coordination Request - C) and/or Article 11 (Notification - N) of the Radio Regulations.

**ANNEX 2** - Appendices 30 & 30A of the Radio Regulations - Notified satellite networks recorded in the Master International Frequency Register (MIFR) and confirmed to be brought into use **up to 31.12.2008**

**ANNEX 3** – Appendix 30B of the Radio Regulations - Notified satellite networks recorded in the Master International Frequency Register (MIFR) and confirmed to be brought into use **up to 31.12.2008**

**ANNEX 4** – Statistics

**ANNEX 5** - Description of the columns in the list

The **ITU BR Annual Space Report to STS-09 on the use of the geostationary-satellite orbit (GSO) and other orbits** is available in PDF or CSV spreadsheet format (Annex 1 only) and may be downloaded from the BR webpage at: <http://www.itu.int/ITU-R/space/snl/report/>

For more information about the *status* of any network in the list, please see – **Space Networks List (SNL)** online at: <http://www.itu.int/ITU-R/space/snl/>

For more information about the *description* of the space database and related parts and special sections, please see the **Space Preface** at: <http://www.itu.int/ITU-R/space/preface/>

## ANNEX 1

**Table 1.1: List of geostationary and non-geostationary space networks for which information has been communicated to the Bureau up to 31.12.2008 in application of the provisions of Article 9 (Advance Publication Information - A or Coordination Request - C) and/or Article 11 (Notification - N) of the Radio Regulations.**

(Sorted by administration and satellite name)

**Note: Each satellite network is listed only once with its highest regulatory status (N, C or A)**

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
108540356	AUS		ADF 152E GOVR	152.0	A	API/A	5232	2625

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
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

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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
108540259	CAN		CANSAT (111.1W)-KAV	-111.1	A	API/A	5143	2626
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

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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
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



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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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



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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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



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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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



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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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



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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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



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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
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

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101500594	RUS		STATSIONAR-D4-30B	45.0	N	PART	2	2527
94500248	RUS		STATSIONAR-D5	85.4	N	PART	2	2335
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

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106520042	RUS		YAMAL-E3C	81.8	C	CR/C	1838	2580
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

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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
101500573	TON		TONGASAT AP-3	138.0	N	PART	2	2558

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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
94520285	UAE		EMARSAT-1B	54.0	C	CR/C	1758	2573
96520082	UAE		EMARSAT-1B/M	54.0	C	CR/C	1851	2581

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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
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

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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
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

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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
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



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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		STATSIONAR-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	
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	

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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
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

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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
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

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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
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

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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
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

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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
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

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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-31H	-113.0	N	PART	2	2619
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

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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
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



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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
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

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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
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

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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
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

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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
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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		RINCONI	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
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
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

<b>ntc_id</b>	<b>adm</b>	<b>ntwk_org</b>	<b>sat_name</b>	<b>long_nom</b>	<b>ntf_rsn</b>	<b>ssn_ref</b>	<b>ssn_no</b>	<b>ific_no</b>
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



## ANNEX 2

### Appendices 30 & 30A - Notified satellite networks entered in the Master Register and confirmed to be brought into use up to 31.12.2008

**Table 2.1: Appendix 30 Region 1 & 3 downlink**

(Sorted by administration and satellite name)

ntc_id	adm	sat_name	long_nom	ific_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
103560008	J	JBSS-1N	109.85	2509
95500490	KOR	KOREASAT-1	116	2216

<b>ntc_id</b>	<b>adm</b>	<b>sat_name</b>	<b>long_nom</b>	<b>ific_no</b>
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

**Table 2.2: Appendix 30A Region 1 & 3 feeder-link**

(Sorted by administration and satellite name)

<b>ntc_id</b>	<b>adm</b>	<b>sat_name</b>	<b>long_nom</b>	<b>ific_no</b>
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
104560019	NOR	BIFROST-12	-0.8	2548

<b>ntc_id</b>	<b>adm</b>	<b>sat_name</b>	<b>long_nom</b>	<b>ific_no</b>
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

**Table 2.3: Appendices 30 & 30A Region 2**

(Sorted by administration and satellite name)

<b>ntc_id</b>	<b>adm</b>	<b>ntw_org</b>	<b>sat_name</b>	<b>long_nom</b>	<b>ifc_no</b>
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

### ANNEX 3

**Table 3.1: Appendix 30B - Notified satellite networks entered in the Master Register and confirmed to be brought into use up to 31.12.2008**

(Sorted by administration and satellite name)

ntc_id	adm	ntw_org	sat_name	long_nom
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
100500079	NOR		BIFROST-2-FSS	-0.80

<b>ntc_id</b>	<b>adm</b>	<b>ntw_org</b>	<b>sat_name</b>	<b>long_nom</b>
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

## ANNEX 4

### STATISTICS

**Table 4.1: Satellite networks and regulatory status**

(A = Network in API stage, C = Network in coordination stage, N = Network in notification stage)

	<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



**Table 4.2: Count of unique filings (networks) per administration****Total count - 62 administrations**

<b>ADM</b>	<b>A</b>	<b>C</b>	<b>N</b>	<b>TOTAL</b>
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
MCO		2		2
MEX	8	11	8	27
MHL		1		1

<b>ADM</b>	<b>A</b>	<b>C</b>	<b>N</b>	<b>TOTAL</b>
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>

**ANNEX 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	