



ITU Radiocommunication Bureau (BR) 2009 Annual Space Report to STS-10 on the use of the geostationary-satellite orbit (GSO) and other orbits

In the **report of the 45th 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 31.12.2009** 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 - List of geostationary-satellite networks in the Broadcasting-Satellite Service (BSS) and its associated feeder links communicated and published in application of the provisions of Article 4 of Appendices 30 and 30A.

ANNEX 3 – Appendix 30B of the Radio Regulations - List of geostationary-satellite networks in the Fixed-Satellite Service (FSS) communicated and published in application of the provisions of Articles 6 and 7 of Appendix 30B.

ANNEX 4 – Statistics.

ANNEX 5 - Description of the columns in the list.

The ITU BR Annual Space Report to STS-10 on the use of the geostationary-satellite orbit (GSO) and other orbits is available in six languages of the Union 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 31.12.2009 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	nff_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	A	API/A	4349	2582
109540422	ARG		ARSAT-A	-47.5	A	API/A	5683	2648
109540423	ARG		ARSAT-B	-72	A	API/A	5684	2648
109540424	ARG		ARSAT-C	-81	A	API/A	5685	2648
107500106	ARG		LATINSAT	N-GSO	N	PART	2	2646
96500487	ARG		NAHUEL-C	-72	N	PART	2	2586
105500330	ARG		P-P-SAT-1	-81	N	PART	2	2653
99500173	ARG		SAC-C	N-GSO	N	PART	2	2643
107540960	ARG		SAC-D	N-GSO	A	API/A	4723	2653
105500571	ARG		SAOCOM	N-GSO	N	PART	2	2607
103520193	ARG		TANGO-C	-76	C	CR/C	1336	2570
90500092	ARS	ARB	ARABSAT 1-B	26	N	PART	2	2270
91910032	ARS	ARB	ARABSAT 1-C	31	N	PART	2	2068
107520008	ARS	ARB	ARABSAT 1-C-KU	31	C	CR/C	1951	2596
97500434	ARS	ARB	ARABSAT 2-A	30.5	N	PART	2	2431
97500433	ARS	ARB	ARABSAT 2-B	26	N	PART	2	2431
102500474	ARS	ARB	ARABSAT 2-C	20	N	PART	2	2645
105520072	ARS	ARB	ARABSAT 5A-30.5E	30.5	C	CR/C	1626	2607
105520073	ARS	ARB	ARABSAT 5B-26E	26	C	CR/C	1627	2607
105520074	ARS	ARB	ARABSAT 5C-20E	20	C	CR/C	1628	2607
109520057	ARS	ARB	ARABSAT 5D-17E	17	C	CR/C	2388	2648
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
109520112	ARS	ARB	ARABSAT 7A-30.5E	30.5	C	CR/C	2406	2652
109520113	ARS	ARB	ARABSAT 7B-26E	26	C	CR/C	2407	2652
109520114	ARS	ARB	ARABSAT 7C-20E	20	C	CR/C	2408	2652
109520115	ARS	ARB	ARABSAT 7D-7.5E	7.5	C	CR/C	2409	2652
109520116	ARS	ARB	ARABSAT 7E-34.5E	34.5	C	CR/C	2410	2652
109520117	ARS	ARB	ARABSAT 7F-44.5E	44.5	C	CR/C	2411	2652
109520118	ARS	ARB	ARABSAT 7G-11E	11	C	CR/C	2412	2652
102520295	ARS	ARB	ARABSAT-EXT-C2	26	C	CR/C	1109	2504
108501204	ARS	ARB	ARABSAT-KA-26E	26	N	PART	2	2653
98520245	ARS	ARB	ARABSAT-KA-30.5E	30.5	C	AR11/C	3380	2418
98520245	ARS	ARB	ARABSAT-KA-30.5E	30.5	C	RES46/C	555	2418
107500526	ARS	ARB	ARABSAT-KU-26E	26	N	PART	2	2642
106520064	ARS		SAUDI-FMSS-5	52	C	CR/C	1809	2603
106520065	ARS		SAUDI-FMSS-6	20.1	C	CR/C	1810	2603
106520066	ARS		SAUDI-FMSS-7	29	C	CR/C	1811	2603
109540504	ARS		SAUDI-FMSS-7-R1	29	A	API/A	5739	2650

ntc_id	adm	ntwk_org	sat_name	long_nom	nff_rsn	ssn_ref	ssn_no	ific_no
106520067	ARS		SAUDI-FMSS-8	41	C	CR/C	1812	2603
109500037	ARS		SAUDISAT-1C	N-GSO	N	PART	2	2647
109500038	ARS		SAUDISAT-2	N-GSO	N	PART	2	2647
106520068	ARS		STRATSAT-4	29	C	CR/C	1813	2603
106520069	ARS		STRATSAT-5	41	C	CR/C	1814	2603
109540505	ARS		STRATSAT-5-R1	41	A	API/A	5740	2650
106520070	ARS		STRATSAT-6	73.5	C	CR/C	1815	2603
108520304	AUS		ADF 152E GOVR	152	C	CR/C	2346	2658
102520061	AUS		ADF 156E GOV	156	C	CR/C	1021	2555
108520305	AUS		ADF 160E GOVR	160	C	CR/C	2347	2658
108520306	AUS		ADF 164E GOVR	164	C	CR/C	2348	2658
108540694	AUS		ADF UHF-1	66	A	API/A	5424	2638
109520119	AUS		ADF UHF-2	72.1	C	CR/C	2415	2653
108540696	AUS		ADF UHF-3	90	A	API/A	5426	2638
105520352	AUS		ADF WEST-1	80	C	CR/C	1732	2627
105520353	AUS		ADF WEST-2	88	C	CR/C	1733	2627
105520354	AUS		ADF WEST-3	95	C	CR/C	1734	2627
105520355	AUS		ADF WEST-4	96.5	C	CR/C	1735	2627
105520356	AUS		ADF WEST-5	104	C	CR/C	1736	2635
105520357	AUS		ADF WEST-6	108.5	C	CR/C	1737	2627
99500259	AUS		ASIABSS	105	N	PART	2	2521
107520025	AUS		ASIABSS-B	105	C	CR/C	1929	2618
106520085	AUS		AUSDSB	151.5	C	CR/C	1828	2606
92500065	AUS		AUSSAT A 152E	152	N	PART	2	2191
100500344	AUS		AUSSAT A 152E PAC	152	N	PART	2	2630
90500082	AUS		AUSSAT A 156E	156	N	PART	2	
90500083	AUS		AUSSAT A 160E	160	N	PART	2	2630
92500067	AUS		AUSSAT A 160E PAC	160	N	PART	2	2630
90500084	AUS		AUSSAT A 164E	164	N	PART	2	
90500087	AUS		AUSSAT A 164E PAC	164	N	PART	2	
108500604	AUS		AUSSAT B 152E	152	N	PART	2	2658
102500305	AUS		AUSSAT B 152E MOB	152	N	PART	2	2546
102500306	AUS		AUSSAT B 152E MXL	152	N	PART	2	2546
92500025	AUS		AUSSAT B 156E	156	N	PART	2	2623
92500026	AUS		AUSSAT B 156E MC	156	N	PART	2	2623
100500278	AUS		AUSSAT B 156E MOB	156	N	PART	2	2457
102500358	AUS		AUSSAT B 156E MXL	156	N	PART	2	2533
92500027	AUS		AUSSAT B 156E NZ	156	N	PART	2	2623
94500530	AUS		AUSSAT B 156E R	156	N	PART	2	2290
92500028	AUS		AUSSAT B 156E S	156	N	PART	2	2197
92500021	AUS		AUSSAT B 160E	160	N	PART	2	2635
92500022	AUS		AUSSAT B 160E MC	160	N	PART	2	2615
101500008	AUS		AUSSAT B 160E MOB	160	N	PART	2	2500
102500359	AUS		AUSSAT B 160E MXL	160	N	PART	2	2533
92500023	AUS		AUSSAT B 160E NZ	160	N	PART	2	2635
94500531	AUS		AUSSAT B 160E R	160	N	PART	2	2290
92500024	AUS		AUSSAT B 160E S	160	N	PART	2	2613
100500300	AUS		AUSSAT B 164E	164	N	PART	2	2623
103500076	AUS		AUSSAT B 164E MOB	164	N	PART	2	2525
99500096	AUS		AUSSAT B 164E MXL	164	N	PART	2	2577
104500284	AUS		AUSSAT C 156E FSS	156	N	PART	2	2607

ntc_id	adm	ntwk_org	sat_name	long_nom	nff_rsn	ssn_ref	ssn_no	ific_no
104500282	AUS		AUSSAT C 156E GOV	156	N	PART	2	2659
107520068	AUS		AUSSAT C 156E GOVR	156	C	CR/C	2015	2621
108501261	AUS		AUSSAT D 156E FSS	156	N	PART	2	2659
101520396	AUS		AUSSAT D 160E FSS	160	C	CR/C	1005	2645
109540508	AUS		AUSSAT E 156E FSS	156	A	API/A	5743	2650
109540509	AUS		AUSSAT E 164E FSS	164	A	API/A	5744	2650
108520294	AUS		DDSP-104E	104	C	CR/C	2343	2658
108520295	AUS		DDSP-108.5E	108.5	C	CR/C	2344	2658
104500279	AUS		DEF-R-SAT-1A	82	N	PART	2	2634
99520325	AUS		DEF-R-SAT-2A	72	C	CR/C	284	2519
104500281	AUS		DEF-R-SAT-3A	93	N	PART	2	2634
104500293	AUS		DEF-R-SAT-4B 121.0E	121	N	PART	2	2631
109540677	AUS		ENDEAVOUR-143E	143	A	API/A	5865	2656
109540678	AUS		ENDEAVOUR-147E	147	A	API/A	5866	2656
109540679	AUS		ENDEAVOUR-166E	166	A	API/A	5867	2656
109540680	AUS		ENDEAVOUR-169E	169	A	API/A	5868	2656
109520075	AUS		KACOMM-1	160	C	CR/C	2391	2652
109520076	AUS		KACOMM-2	154	C	CR/C	2392	2652
109520077	AUS		KACOMM-3	152	C	CR/C	2393	2652
109520078	AUS		KACOMM-4	137.9	C	CR/C	2394	2652
103520391	AUS		PAS-ENDEAVOUR-115W	-115	C	CR/C	1320	2569
103520392	AUS		PAS-ENDEAVOUR-115WKA	-115	C	CR/C	1321	2569
103520170	AUS		PAS-ENDEAVOUR-119W	-119	C	CR/C	1195	2560
103520179	AUS		PAS-ENDEAVOUR-119WKA	-119	C	CR/C	1203	2560
103520164	AUS		PAS-ENDEAVOUR-132E	132	C	CR/C	1196	2560
103520173	AUS		PAS-ENDEAVOUR-132EKA	132	C	CR/C	1204	2560
103520165	AUS		PAS-ENDEAVOUR-166E	166	C	CR/C	1197	2560
103520174	AUS		PAS-ENDEAVOUR-166EKA	166	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	C	CR/C	1191	2560
103520175	AUS		PAS-ENDEAVOUR-45WKA	-45	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	C	CR/C	1193	2560
103520176	AUS		PAS-ENDEAVOUR-74WKA	-74	C	CR/C	1201	2560
105520100	AUS		PAS-ENDEAVOUR-81W	-81	C	CR/C	1609	2586
103520168	AUS		PAS-ENDEAVOUR-91W	-91	C	CR/C	1194	2560
103520177	AUS		PAS-ENDEAVOUR-91WKA	-91	C	CR/C	1202	2560
105520110	AUS		ROEBUCK-A-95W	-95	C	CR/C	1616	2586
105520111	AUS		ROEBUCK-B-113W	-113	C	CR/C	1617	2586
105520112	AUS		ROEBUCK-C-87W	-87	C	CR/C	1618	2586
105520113	AUS		ROEBUCK-D-107.3W	-107.3	C	CR/C	1619	2586
105520114	AUS		ROEBUCK-E-64E	64	C	CR/C	1613	2586
105520115	AUS		ROEBUCK-F-137.9E	137.9	C	CR/C	1614	2586
105520116	AUS		ROEBUCK-G-154E	154	C	CR/C	1615	2586
106520166	AUS		SIRION	N-GSO	C	CR/C	1904	2652
109540402	AZE		AZERSAT 96	96	A	API/A	5663	2650
108520283	AZE		AZERSAT A	43.2	C	CR/C	2329	2639
109540400	AZE		AZERSAT A1	43.2	A	API/A	5661	2648
109520016	AZE		AZERSAT B	58.5	C	CR/C	2366	2643

ntc_id	adm	ntwk_org	sat_name	long_nom	nff_rsn	ssn_ref	ssn_no	ific_no
109540401	AZE		AZERSAT B1	58.5	A	API/A	5662	2648
102500255	B		B-SAT E	-63	N	PART	2	2597
107500035	B		B-SAT I	-63	N	PART	2	2618
104500559	B		B-SAT P	-84	N	PART	2	2633
103520303	B		B-SAT-1C	-70	C	CR/C	1289	2568
103520317	B		B-SAT-1D	-77.5	C	CR/C	1292	2568
103520325	B		B-SAT-1E	-87	C	CR/C	1295	2568
103520304	B		B-SAT-1F	-92	C	CR/C	1291	2568
104520340	B		B-SAT-1G	-80	C	CR/C	1462	2580
104520004	B		B-SAT-1J	-68	C	CR/C	1402	2575
109520007	B		B-SAT-1L	-37	C	CR/C	2432	2655
104520006	B		B-SAT-1N	-84	C	CR/C	1413	2576
107520289	B		B-SAT-1O	-10	C	CR/C	2139	2636
106540549	B		B-SAT-1P	-84	A	API/A	4365	2583
109520138	B		B-SAT-1Q	-61	C	CR/C	2433	2655
105520001	B		B-SAT-1R	-65	C	CR/C	1566	2637
108520268	B		B-SAT-1S	-75	C	CR/C	2320	2653
106520232	B		B-SAT-1W	-48	C	CR/C	1913	2609
109520008	B		B-SAT-2D	-77.5	C	CR/C	2434	2655
109540726	B		B-SAT-2E	-87	A	API/A	5878	2657
109520009	B		B-SAT-2F	-92	C	CR/C	2435	2655
109540755	B		B-SAT-2J	-68	A	API/A	5900	2658
109540756	B		B-SAT-2N	-84	A	API/A	5901	2658
104500485	B		B-SAT-Q	-61	N	PART	2	2644
97520364	B		B-SAT-R	-65	C	CR/C	405	2582
107500108	B		B-SAT-S	-75	N	PART	2	2647
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
90500018	B		SBTS A2	-65	N	PART	2	2499
101500552	B		SBTS B1	-70	N	PART	2	2512
101500553	B		SBTS B2	-65	N	PART	2	2512
101500554	B		SBTS B3	-61	N	PART	2	2525
103500244	B		SBTS B4	-92	N	PART	2	2581
106500431	B		SBTS C1	-70	N	PART	2	2605
98500054	B		SISCOMIS-2	-65	N	PART	2	2636
98500055	B		SISCOMIS-3	-70	N	PART	2	2636
108500588	B		SISCOMIS-4	-75	N	PART	2	2658
103520252	B		SISCOMIS-5	-77.5	C	CR/C	1307	2568
103520253	B		SISCOMIS-6	-84	C	CR/C	1308	2568
90501081	BEL		SATCOM PHASE-3	-18	N	PART	2	
96500414	BEL		SATCOM-4	-17.8	N	PART	2	2390
108501099	BEL		SATCOM-4/10E	10	N	PART	2	2659
106500280	BEL		SATCOM-4/20.2W	-20.2	N	PART	2	2643
101520052	BEL		SATCOM-5	-17.8	C	CR/C	796	2543
102540181	BEL		SATCOM-5/10E	10	A	API/A	2327	2474
102540182	BEL		SATCOM-5/20.2W	-20.2	A	API/A	2328	2474
108540734	BGD		BDSAT	102	A	API/A	5498	2639
101500190	BLR	IK	INTERBELAR-2	75	N	PART	2	2462
105520235	BLR	IK	INTERSPUTNIK-75E-CK	75	C	CR/C	1763	2600
105500291	BLR	IK	INTERSPUTNIK-75E-Q	75	N	PART	2	2620

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
104520112	BRU		LARKSAT-IORR	64	C	CR/C	1458	2580
109520092	CAN		ADS	N-GSO	C	CR/C	2404	2650
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	2648
105500424	CAN		CAN-BSS1 TTAC	-82	N	PART	2	2650
105520328	CAN		CAN-BSS10	-91	C	CR/C	1716	2595
105520329	CAN		CAN-BSS11	-103	C	CR/C	1717	2595
105520330	CAN		CAN-BSS12	-107.3	C	CR/C	1718	2595
105520331	CAN		CAN-BSS13	-113	C	CR/C	1719	2595
105520332	CAN		CAN-BSS14	-118.7	C	CR/C	1720	2595
105520333	CAN		CAN-BSS15	-129	C	CR/C	1721	2595
106520092	CAN		CAN-BSS16	-72.5	C	CR/C	1831	2603
106520206	CAN		CAN-BSS17	-77	C	CR/C	1905	2609
106520207	CAN		CAN-BSS18	-99	C	CR/C	1906	2609
106520208	CAN		CAN-BSS19	-103	C	CR/C	1907	2609
105500425	CAN		CAN-BSS2 TTAC	-91.1	N	PART	2	2650
107520159	CAN		CAN-BSS21	-111.1	C	CR/C	2058	2625
107540608	CAN		CAN-BSS23	-71	A	API/A	4760	2606
108520018	CAN		CAN-BSS24	-72.5	C	CR/C	2173	2641
107540610	CAN		CAN-BSS25	-75	A	API/A	4762	2606
107540611	CAN		CAN-BSS26	-79	A	API/A	4763	2606
108520019	CAN		CAN-BSS27	-82	C	CR/C	2174	2641
107540613	CAN		CAN-BSS28	-83	A	API/A	4765	2606
108520020	CAN		CAN-BSS29	-86.5	C	CR/C	2175	2641
107540615	CAN		CAN-BSS30	-87	A	API/A	4767	2606
108520021	CAN		CAN-BSS31	-91	C	CR/C	2176	2641
107540617	CAN		CAN-BSS32	-95	A	API/A	4769	2606
107540618	CAN		CAN-BSS33	-99	A	API/A	4770	2606
107540619	CAN		CAN-BSS34	-103	A	API/A	4771	2606
107540620	CAN		CAN-BSS35	-107	A	API/A	4772	2606
108520022	CAN		CAN-BSS36	-107.3	C	CR/C	2177	2641
107540622	CAN		CAN-BSS37	-109.2	A	API/A	4774	2606
107540623	CAN		CAN-BSS38	-111	A	API/A	4775	2606
107540624	CAN		CAN-BSS39	-115	A	API/A	4776	2606
108520023	CAN		CAN-BSS40	-118.7	C	CR/C	2178	2641
107540626	CAN		CAN-BSS41	-119	A	API/A	4778	2606
107540627	CAN		CAN-BSS42	-123	A	API/A	4779	2606
107540628	CAN		CAN-BSS43	-127	A	API/A	4780	2606
107540629	CAN		CAN-BSS44	-129	A	API/A	4781	2606
107540630	CAN		CAN-BSS45	-131	A	API/A	4782	2606
107540631	CAN		CAN-BSS46	-135	A	API/A	4783	2606
107540632	CAN		CAN-BSS47	-138	A	API/A	4784	2606
107540633	CAN		CAN-BSS48	-139	A	API/A	4785	2606
108540670	CAN		CAN-BSS49 (78W)	-78	A	API/A	5404	2638
108540671	CAN		CAN-BSS50 (95W)	-95	A	API/A	5405	2638
108540672	CAN		CAN-BSS51 (99W)	-99	A	API/A	5406	2638

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109520111	CAN		CAN-BSS52 (111.1W)	-111.1	C	CR/C	2413	2652
108540674	CAN		CAN-BSS53 (113W)	-113	A	API/A	5408	2638
108540675	CAN		CAN-BSS54 (114.9W)	-114.9	A	API/A	5409	2638
108540676	CAN		CAN-BSS55 (129W)	-129	A	API/A	5410	2638
108540677	CAN		CAN-BSS56 (138W)	-138	A	API/A	5411	2638
105520326	CAN		CAN-BSS8	-82	C	CR/C	1714	2595
105520327	CAN		CAN-BSS9	-86.5	C	CR/C	1715	2595
108540686	CAN		CANSAT (107.3W)-KA	-107.3	A	API/A	5420	2638
108540258	CAN		CANSAT (107.3W)-KAV	-107.3	A	API/A	5142	2626
108540687	CAN		CANSAT (109.2W)-CKU	-109.2	A	API/A	5421	2638
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
108540684	CAN		CANSAT (129W)-EXTKU	-129	A	API/A	5418	2638
108540685	CAN		CANSAT (138W)-EXTKU	-138	A	API/A	5419	2638
108540678	CAN		CANSAT (72.5W)-EXTKU	-72.5	A	API/A	5412	2638
108540254	CAN		CANSAT (72.5W)-KAV	-72.5	A	API/A	5138	2626
108540679	CAN		CANSAT (82W)-EXTKU	-82	A	API/A	5413	2638
108540255	CAN		CANSAT (82W)-KAV	-82	A	API/A	5139	2626
108540256	CAN		CANSAT (86.5W)-KAV	-86.5	A	API/A	5140	2626
108540680	CAN		CANSAT (91W)-EXTKU	-91	A	API/A	5414	2638
108540257	CAN		CANSAT (91W)-KAV	-91	A	API/A	5141	2626
104500105	CAN		CANSAT KA-2	-91	N	PART	2	2604
104500106	CAN		CANSAT KA-3	-82	N	PART	2	2604
108501177	CAN		CANSAT KA-4	-111.1	N	PART	2	2648
96520172	CAN		CANSAT KA-5	-118.7	C	AR11/C	2683	2434
96520172	CAN		CANSAT KA-5	-118.7	C	RES46/C	295	2434
108500946	CAN		CANSAT KA-5X	-118.7	N	PART	2	2659
109520139	CAN		CANSAT(107.3W)-L	-107.3	C	CR/C	2448	2658
109540018	CAN		CANSAT(107.3W)-XKA	-107.3	A	API/A	5513	2639
108540681	CAN		CANSAT(109.2W)-EXTKU	-109.2	A	API/A	5415	2638
109540019	CAN		CANSAT(111.1W)-XKA	-111.1	A	API/A	5514	2639
109540920	CAN		CANSAT(114.9W)-CKU	-114.9	A	API/A	5960	2660
108540682	CAN		CANSAT(114.9W)-EXTKU	-114.9	A	API/A	5416	2638
108540683	CAN		CANSAT(118.7W)-EXTKU	-118.7	A	API/A	5417	2638
109540020	CAN		CANSAT(118.7W)-XKA	-118.7	A	API/A	5515	2639
109540014	CAN		CANSAT(72.7W)-XKA	-72.7	A	API/A	5509	2639
109540015	CAN		CANSAT(82W)-XKA	-82	A	API/A	5510	2639
109540016	CAN		CANSAT(86.5W)-XKA	-86.5	A	API/A	5511	2639
109540918	CAN		CANSAT(87W)-KA	-87	A	API/A	5958	2660
109540017	CAN		CANSAT(91.1W)-XKA	-91.1	A	API/A	5512	2639
109540919	CAN		CANSAT(93W)-KA	-93	A	API/A	5959	2660
101520036	CAN		CANSAT-17	-114.9	C	CR/C	827	2583
101520037	CAN		CANSAT-18	-118.7	C	CR/C	833	2660
103520282	CAN		CANSAT-19	-109.2	C	CR/C	1262	2598
106520035	CAN		CANSAT-20	-129	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	2658
106520200	CAN		CANSAT-27	-111.1	C	CR/C	1902	2589
100520280	CAN		CANSAT-2A	-82	C	CR/C	519	2483
100520281	CAN		CANSAT-2B	-70.5	C	CR/C	520	2483

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105520292	CAN		CANSAT-31	-82	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	2656
106520075	CAN		CANSAT-35	-114.9	C	CR/C	1817	2603
106540535	CAN		CANSAT-46	-72.5	A	API/A	4353	2582
106540536	CAN		CANSAT-47	-91	A	API/A	4354	2582
108520029	CAN		CANSAT-48	-91	C	CR/C	2231	2645
108520030	CAN		CANSAT-49	-109.2	C	CR/C	2232	2645
108520031	CAN		CANSAT-50	-107.3	C	CR/C	2233	2645
108520032	CAN		CANSAT-51	-111.1	C	CR/C	2234	2631
108540192	CAN		CANSAT-52	-129	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	A	API/A	5122	2619
108540200	CAN		CANSAT-60	-72.5	A	API/A	5123	2619
105500390	CAN		CANX-2	N-GSO	N	PART	2	2639
104520231	CAN		CASCADE	N-GSO	C	CR/C	1490	2599
108520069	CAN		CASCADE-CX	N-GSO	C	CR/C	2172	2641
105500141	CAN		CASSIOPE	N-GSO	N	PART	2	2607
108540431	CAN		JC2SAT	N-GSO	A	API/A	5274	2640
104520156	CAN		LARKSAT-AOR2R	-12	C	CR/C	1451	2579
104520158	CAN		LARKSAT-NAR	-86	C	CR/C	1453	2579
104520157	CAN		LARKSAT-PORR	180	C	CR/C	1452	2579
101500359	CAN		MOST-1	N-GSO	N	PART	2	2520
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
107500065	CAN		NEOSSAT	N-GSO	N	PART	2	2610
108540240	CAN		NTS	N-GSO	A	API/A	5134	2659
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	2658
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
108540736	CAN		SAPPHIRE	N-GSO	A	API/A	5502	2653
101500360	CAN		SCISAT-1	N-GSO	N	PART	2	2510
108540688	CHL		SSOT	N-GSO	A	API/A	5422	2651
105500702	CHN		APSTAR-1	131	N	PART	2	2583
108501242	CHN		APSTAR-142E	142	N	PART	2	2649
109520002	CHN		APSTAR-142E-R	142	C	CR/C	2368	2643
106500065	CHN		APSTAR-2	134	N	PART	2	2622
105500690	CHN		APSTAR-4	76.5	N	PART	2	2579
107500032	CHN		APSTAR-5-KU	138	N	PART	2	2609
108501171	CHN		APSTAR-76E	76.5	N	PART	2	2655
109520001	CHN		APSTAR-76E-R	76.5	C	CR/C	2367	2643

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108501259	CHN		APSTAR-92E	92.2	N	PART	2	2659
91910135	CHN		ASIASAT-1	105.5	N	PART	2	2582
109540541	CHN		ASIASAT-110V	110	A	API/A	5771	2652
101540118	CHN		ASIASAT1-140E-A	140	A	API/A	1903	2447
109540542	CHN		ASIASAT-130V	130	A	API/A	5772	2652
109540543	CHN		ASIASAT-140V	140	A	API/A	5773	2652
109540537	CHN		ASIASAT-60V	60	A	API/A	5767	2652
109540538	CHN		ASIASAT-70V	70	A	API/A	5768	2652
109540539	CHN		ASIASAT-80V	80	A	API/A	5769	2652
109540540	CHN		ASIASAT-90V	90	A	API/A	5770	2652
98500161	CHN		ASIASAT-A	122	N	PART	2	2423
99500194	CHN		ASIASAT-AK	122	N	PART	2	2481
104500082	CHN		ASIASAT-AK1	122	N	PART	2	2524
107500475	CHN		ASIASAT-AKS	122	N	PART	2	2655
109540398	CHN		ASIASAT-AKW	122.2	A	API/A	5660	2648
95520254	CHN		ASIASAT-AKX	122	C	CR/C	2312	2636
105520372	CHN		ASIASAT-AKZ	122.2	C	CR/C	1753	2598
98500162	CHN		ASIASAT-B	116	N	PART	2	2427
99500281	CHN		ASIASAT-CK	105.5	N	PART	2	2483
100500227	CHN		ASIASAT-CK1	105.5	N	PART	2	2532
107500476	CHN		ASIASAT-CKS	105.5	N	PART	2	2655
109540397	CHN		ASIASAT-CKW	105.5	A	API/A	5659	2648
108500589	CHN		ASIASAT-CKX	105.5	N	PART	2	2658
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
107500477	CHN		ASIASAT-EKS	100.5	N	PART	2	2655
109540396	CHN		ASIASAT-EKW	100.5	A	API/A	5658	2648
104500426	CHN		ASIASAT-EKX	100.5	N	PART	2	2656
105520374	CHN		ASIASAT-EKZ	100.5	C	CR/C	1755	2598
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	2639
107500391	CHN		CE-1	N-GSO	N	PART	2	2646
107500033	CHN		CHINASAT-1	87.5	N	PART	2	2639
108501257	CHN		CHINASAT-115.5E	115.5	N	PART	2	2659
105500654	CHN		CHINASAT-125E	125	N	PART	2	2653
105500649	CHN		CHINASAT-126.1E	126.1	N	PART	2	2659
108501223	CHN		CHINASAT-134E	134	N	PART	2	2656
108501103	CHN		CHINASAT-138E	138	N	PART	2	2653
108501134	CHN		CHINASAT-163E	163	N	PART	2	2653
104500609	CHN		CHINASAT-2	110.5	N	PART	2	2617
102500025	CHN		CHINASAT-22	98	N	PART	2	2556
101500502	CHN		CHINASAT-3	98	N	PART	2	2575
95520151	CHN		CHINASAT-31	80	C	AR11/C	2674	2269
95520152	CHN		CHINASAT-32	140	C	AR11/C	2675	2269
107500478	CHN		CHINASAT-33	110.5	N	PART	2	2656
99520524	CHN		CHINASAT-34A	79.6	C	CR/C	343	2530
99520523	CHN		CHINASAT-34B	84	C	CR/C	344	2530
99520522	CHN		CHINASAT-35A	136.5	C	CR/C	345	2530

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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	N	PART	2	2619
97520383	CHN		CHINASAT-44	98	C	AR11/C	3244	2457
97520383	CHN		CHINASAT-44	98	C	RES46/C	498	2457
108501038	CHN		CHINASAT-45	101.5	N	PART	2	2652
105500289	CHN		CHINASAT-46	105	N	PART	2	2654
101520274	CHN		CHINASAT-49	125	C	CR/C	970	2637
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	C	CR/C	1415	2576
104520107	CHN		CHINASAT-64	98	C	CR/C	1416	2576
104520108	CHN		CHINASAT-65	103	C	CR/C	1417	2576
108501151	CHN		CHINASAT-6KA	110.5	N	PART	2	2655
101544625	CHN		CHINASAT-71.5E	71.5	A	API/A	1966	2449
105500478	CHN		CHINASAT-92.2E	92.2	N	PART	2	2630
109520150	CHN		CHINASAT-A1	9.7	C	CR/C	2442	2656
109540288	CHN		CHINASAT-A10	125	A	API/A	5582	2645
109540289	CHN		CHINASAT-A11	125.7	A	API/A	5583	2645
109540290	CHN		CHINASAT-A12	134	A	API/A	5584	2645
108540661	CHN		CHINASAT-A2	15.5	A	API/A	5395	2638
108540662	CHN		CHINASAT-A3	21.8	A	API/A	5396	2638
109540282	CHN		CHINASAT-A4	85	A	API/A	5576	2645
109540283	CHN		CHINASAT-A5	87.5	A	API/A	5577	2645
109540284	CHN		CHINASAT-A6	92.2	A	API/A	5578	2645
109540285	CHN		CHINASAT-A7	97.5	A	API/A	5579	2645
109540286	CHN		CHINASAT-A8	110.5	A	API/A	5580	2645
109540287	CHN		CHINASAT-A9	115.5	A	API/A	5581	2645
109540490	CHN		CHINASAT-AL1	-9.5	A	API/A	5725	2649
109540499	CHN		CHINASAT-AL10	-89.5	A	API/A	5734	2649
109540500	CHN		CHINASAT-AL11	-109	A	API/A	5735	2649
109540501	CHN		CHINASAT-AL12	-120.5	A	API/A	5736	2649
109540491	CHN		CHINASAT-AL2	-21	A	API/A	5726	2649
109540492	CHN		CHINASAT-AL3	-26	A	API/A	5727	2649
109540493	CHN		CHINASAT-AL4	-37	A	API/A	5728	2649
109540494	CHN		CHINASAT-AL5	-58	A	API/A	5729	2649
109540495	CHN		CHINASAT-AL6	-67.5	A	API/A	5730	2649
109540496	CHN		CHINASAT-AL7	-75.5	A	API/A	5731	2649
109540497	CHN		CHINASAT-AL8	-80.5	A	API/A	5732	2649
109540498	CHN		CHINASAT-AL9	-86.5	A	API/A	5733	2649
105500655	CHN		CHINASAT-L1	134	N	PART	2	2653
108501172	CHN		CHINASAT-MSB1	71.7	N	PART	2	2657
108501216	CHN		CHINASAT-MSB4	115.5	N	PART	2	2660
108501132	CHN		CHINASAT-MSB5	125	N	PART	2	2657
108501146	CHN		CHINASAT-MSB6	125.7	N	PART	2	2654
107520164	CHN		CHINASAT-ROUTE1	51.5	C	CR/C	2061	2610
107520170	CHN		CHINASAT-ROUTE15	163	C	CR/C	2067	2610
107520165	CHN		CHINASAT-ROUTE3	71.7	C	CR/C	2062	2610
107520166	CHN		CHINASAT-ROUTE5	92.2	C	CR/C	2063	2626
107520167	CHN		CHINASAT-ROUTE6	105	C	CR/C	2064	2626
107520168	CHN		CHINASAT-ROUTE7	115.5	C	CR/C	2065	2626

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107520169	CHN		CHINASAT-ROUTE8	125	C	CR/C	2066	2626
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	C	CR/C	1565	2660
106500383	CHN		CHNBSAT-92.2E	92.2	N	PART	2	2647
109540066	CHN		CHNBSAT-G2-1	62	A	API/A	5561	2644
109540075	CHN		CHNBSAT-G2-10	119	A	API/A	5570	2644
109540076	CHN		CHNBSAT-G2-11	125	A	API/A	5571	2644
109540077	CHN		CHNBSAT-G2-12	129	A	API/A	5572	2644
109540078	CHN		CHNBSAT-G2-13	134	A	API/A	5573	2644
109540079	CHN		CHNBSAT-G2-14	139	A	API/A	5574	2644
109540067	CHN		CHNBSAT-G2-2	71	A	API/A	5562	2644
109540068	CHN		CHNBSAT-G2-3	80	A	API/A	5563	2644
109540069	CHN		CHNBSAT-G2-4	86	A	API/A	5564	2644
109540070	CHN		CHNBSAT-G2-5	92.2	A	API/A	5565	2644
109540071	CHN		CHNBSAT-G2-6	101	A	API/A	5566	2644
109540072	CHN		CHNBSAT-G2-7	108.5	A	API/A	5567	2644
109540073	CHN		CHNBSAT-G2-8	113.2	A	API/A	5568	2644
109540074	CHN		CHNBSAT-G2-9	115.5	A	API/A	5569	2644
107540207	CHN		CHNMSSAT	N-GSO	A	API/A	4631	2598
105520119	CHN		CHNSAT-130E	130	C	CR/C	1633	2633
105520120	CHN		CHNSAT-142E	142.5	C	CR/C	1634	2633
108520310	CHN		CHNSAT-2-130E	130	C	CR/C	2350	2658
105520118	CHN		CHNSAT-72E	71.5	C	CR/C	1632	2633
109540725	CHN		CHNSAT-M-101.4E	101.4	A	API/A	5877	2657
103500418	CHN		COMPASS-110.5E	110.5	N	PART	2	2656
103500419	CHN		COMPASS-140E	140	N	PART	2	2658
105520009	CHN		COMPASS-160E	160	C	CR/C	1526	2588
103500416	CHN		COMPASS-58.75E	58.75	N	PART	2	2657
103500417	CHN		COMPASS-80E	80	N	PART	2	2658
109540517	CHN		COMPASS-B-144.5E	144.5	A	API/A	5749	2650
109540516	CHN		COMPASS-B-84E	84	A	API/A	5748	2650
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
103520039	CHN		CTDRS-1-77E	77	C	CR/C	1169	2513
103520040	CHN		CTDRS-1-80E	80	C	CR/C	1170	2513
109540533	CHN		CTDRS-2-10.6E	10.6	A	API/A	5763	2651
109540534	CHN		CTDRS-2-16.8E	16.8	A	API/A	5764	2651
107520175	CHN		CTDRS-2-167E	167	C	CR/C	2069	2636
106540523	CHN		CTDRS-2-168E	168	A	API/A	4504	2590
107520176	CHN		CTDRS-2-171E	171	C	CR/C	2070	2636
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	2636
109540535	CHN		CTDRS-2-20.4E	20.4	A	API/A	5765	2651
106540517	CHN		CTDRS-2-61E	61	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	A	API/A	4501	2590
106540521	CHN		CTDRS-2-71E	71	A	API/A	4502	2590
105500526	CHN		DFH-3A-OB	110.5	N	PART	2	2656

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97520021	CHN		DFH-3A-OC	98	C	AR11/C	3078	2457
97520022	CHN		DFH-3A-OD	130	C	AR11/C	3079	2406
101500189	CHN		DFH-3-OA	125	N	PART	2	2592
101500503	CHN		DFH-3-OB	103	N	PART	2	2652
101500500	CHN		DFH-3-OC	87.5	N	PART	2	2625
106520239	CHN		DFH-3-OC M	87.5	C	CR/C	1937	2611
109500013	CHN		DFH-3-OD	115.5	N	PART	2	2648
95500597	CHN		DFH-3-OE	121	N	PART	2	2352
105500161	CHN		DFH-4-OA	125	N	PART	2	2646
108500967	CHN		DFH-4-OB	103	N	PART	2	2649
108501060	CHN		DFH-4-OD	115.5	N	PART	2	2652
104520070	CHN		DFH-5-OD	115.5	C	CR/C	1399	2575
100500426	CHN		FY-1	N-GSO	N	PART	2	2570
104500597	CHN		FY-2A	105	N	PART	2	2626
105500156	CHN		FY-2AS	105	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
107500440	CHN		FY-3	N-GSO	N	PART	2	2645
108540386	CHN		FYMETSAT-4A-105E	105	A	API/A	5243	2649
108540387	CHN		FYMETSAT-4A-112E	112	A	API/A	5244	2649
108540388	CHN		FYMETSAT-4A-123.5E	123.5	A	API/A	5245	2649
108540389	CHN		FYMETSAT-4A-137E	137	A	API/A	5246	2649
108540380	CHN		FYMETSAT-4A-61E	61	A	API/A	5237	2649
108540381	CHN		FYMETSAT-4A-63E	63	A	API/A	5238	2649
108540382	CHN		FYMETSAT-4A-67E	67	A	API/A	5239	2649
108540383	CHN		FYMETSAT-4A-79E	79	A	API/A	5240	2649
108540384	CHN		FYMETSAT-4A-86.5E	86.5	A	API/A	5241	2649
108540385	CHN		FYMETSAT-4A-98.5E	98.5	A	API/A	5242	2649
108501091	CHN		HJ-1-ABC	N-GSO	N	PART	2	2654
102500235	CHN		HY-1	N-GSO	N	PART	2	2570
109540502	CHN		HY-2	N-GSO	A	API/A	5737	2653
108540253	CHN		MARS EXPLORER-1	N-GSO	A	API/A	5137	2655
108540424	CHN		MARS EXPLORER-1B	N-GSO	A	API/A	5267	2640
108500706	CHN		NUAA-1	N-GSO	N	PART	2	2646
108540410	CHN		SHENZHOU	N-GSO	A	API/A	5236	2639
108501217	CHN		SINOSAT-3	97.5	N	PART	2	2659
108501208	CHN		SINOSAT-3A	85	N	PART	2	2655
105520378	CHN		SINOSAT-3B	126	C	CR/C	1765	2600
108501255	CHN		SINOSAT-3C	130	N	PART	2	2659
106520145	CHN		SINOSAT-5	110.5	C	CR/C	1895	2609
106520146	CHN		SINOSAT-7A	46.5	C	CR/C	1896	2609
108501206	CHN		SINOSAT-92.2E	92.2	N	PART	2	2659
90500007	CHN		STW-1	125	N	PART	2	2256
101500504	CHN		STW-2	103	N	PART	2	2613
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	2639
108540492	CHN		XW-1	N-GSO	A	API/A	5325	2646
107540830	CLM		SATCOL 1A	-47.5	A	API/A	4927	2612

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107540831	CLM		SATCOL 1B	-70.9	A	API/A	4928	2658
107540832	CLM		SATCOL 1C	-73	A	API/A	4929	2612
107540833	CLM		SATCOL 1D	-80	A	API/A	4930	2612
107540834	CLM		SATCOL 1E	-82	A	API/A	4931	2612
107540835	CLM		SATCOL 1F	-87.5	A	API/A	4932	2612
107540836	CLM		SATCOL 1G	-92	A	API/A	4933	2612
107540837	CLM		SATCOL 1H	-98	A	API/A	4934	2639
107540838	CLM		SATCOL 1I	-99	A	API/A	4935	2612
107540839	CLM		SATCOL 1J	-103	A	API/A	4936	2612
107540840	CLM		SATCOL 1K	-105	A	API/A	4937	2612
107540841	CLM		SATCOL 1L	-109.3	A	API/A	4938	2612
107540842	CLM		SATCOL 1M	-111	A	API/A	4939	2612
107540843	CLM		SATCOL 1N	-119.8	A	API/A	4940	2612
107540844	CLM		SATCOL 1O	-121	A	API/A	4941	2612
109540037	CLM		SATCOL 1P	-38	A	API/A	5522	2640
109540038	CLM		SATCOL 1Q	-131	A	API/A	5523	2640
109500101	CLM	ASA	SIMON BOLIVAR 2	-67	N	PART	2	2651
107540235	CLM		SIMON BOLIVAR 2A	-67	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
108540740	CTI	RAS	RASCOM-3G-A	-21.1	A	API/A	5478	2638
108540741	CTI	RAS	RASCOM-3G-B	-15.1	A	API/A	5479	2638
108540742	CTI	RAS	RASCOM-3G-C	-9.1	A	API/A	5480	2638
108540743	CTI	RAS	RASCOM-3G-D	-3.1	A	API/A	5481	2638
108540744	CTI	RAS	RASCOM-3G-E	2.9	A	API/A	5482	2638
108540745	CTI	RAS	RASCOM-3G-F	8.9	A	API/A	5483	2638
108540746	CTI	RAS	RASCOM-3G-G	14.9	A	API/A	5484	2638
108540747	CTI	RAS	RASCOM-3G-H	20.9	A	API/A	5485	2638
108540748	CTI	RAS	RASCOM-3G-I	26.9	A	API/A	5486	2638
108540749	CTI	RAS	RASCOM-3G-J	32.9	A	API/A	5487	2638
108540750	CTI	RAS	RASCOM-3G-K	38.9	A	API/A	5488	2638
108540751	CTI	RAS	RASCOM-3G-L	44.9	A	API/A	5489	2638
108540752	CTI	RAS	RASCOM-3G-M	50.9	A	API/A	5490	2638
98520120	CTI	RAS	RASCOM-A	-9	C	CR/C	335	2560
105520085	CTI	RAS	RASCOM-A2	-9	C	CR/C	1592	2586
98520121	CTI	RAS	RASCOM-B	14	C	CR/C	336	2560
105520086	CTI	RAS	RASCOM-B2	14	C	CR/C	1593	2586
98520122	CTI	RAS	RASCOM-C	5.5	C	CR/C	337	2560
105520087	CTI	RAS	RASCOM-C2	5.5	C	CR/C	1664	2563
108520196	CYP		KYPROS-APHRODITE	90	C	CR/C	2279	2650
109540292	CYP		KYPROS-ARES	89.5	A	API/A	5586	2645
108520253	CYP		KYPROS-ARTEMIS	-174.5	C	CR/C	2298	2652
108520197	CYP		KYPROS-ATHENA	22.5	C	CR/C	2280	2650
108540038	CYP		KYPROS-HERMES	57	A	API/A	5021	2615
108520198	CYP		KYPROS-POSEIDON	-52.5	C	CR/C	2281	2650
108501035	CYP		KYPROS-SAT-C	39	N	PART	2	2652
108501207	CYP		KYPROS-SAT-KA3	39	N	PART	2	2658
108501096	CYP		KYPROS-SAT-L4	39	N	PART	2	2652
108520199	CYP		KYPROS-ZEUS	54	C	CR/C	2282	2650
107520286	CZE		CESASAT-2	18	C	CR/C	2124	2637
109520010	CZE		CESASAT-7	46	C	CR/C	2364	2659

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102540521	CZE		MIMOSA	N-GSO	A	API/A	2476	2544
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
109540281	D		CUBESAT-UWE-2	N-GSO	A	API/A	5575	2656
96520249	D		DFS II-1	23.5	C	CR/C	1997	2598
107500494	D		DFS II-2	28.5	N	PART	2	2638
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	C	CR/C	1503	2583
104520297	D		DM-SAT-3	-13	C	CR/C	1504	2583
104500143	D		EUROPE*STAR-1	45	N	PART	2	2606
104500144	D		EUROPE*STAR-3	47.5	N	PART	2	2602
106520112	D		EUROPE*STAR-45E	45	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
101500300	D	GLS	GALILEO-NAV-2004	N-GSO	N	PART	2	2582
108520034	D		GENESIS-10	-37	C	CR/C	2149	2638
108520035	D		GENESIS-11	13	C	CR/C	2150	2638
108520036	D		GENESIS-12	63	C	CR/C	2151	2638
103520329	D		GENESIS-7	-37	C	CR/C	1297	2583
103520330	D		GENESIS-8	13	C	CR/C	1298	2655
103520331	D		GENESIS-9	63	C	CR/C	1299	2583
104500168	D		GRACE	N-GSO	N	PART	2	2580
103520259	D		IKSAT-1	-38.5	C	CR/C	1279	2567
103520260	D		IKSAT-2	32	C	CR/C	1280	2567
103520261	D		IKSAT-4	66	C	CR/C	1281	2567
106500286	D		MAGNIFYING GLASS	N-GSO	N	PART	2	2649
107520306	D	EUM	METEOSAT IODC_57.5E	57.5	C	CR/C	2128	2637
107520307	D	EUM	METEOSAT IODC_67.5E	67.5	C	CR/C	2129	2637
108540737	D	EUM	MTG-D1_0E	0	A	API/A	5495	2638
108540738	D	EUM	MTG-D1_3.4W	-3.4	A	API/A	5496	2638
108540739	D	EUM	MTG-D1_9.5E	9.5	A	API/A	5497	2638
105500438	D		RAPIDEYE	N-GSO	N	PART	2	2637
108501139	D		TERRASAR	N-GSO	N	PART	2	2654
108500678	E		DEIMOS-1	N-GSO	N	PART	2	2658
109520110	E		HISPASAT 2A 36W	-36	C	CR/C	2416	2653
107520253	E		HISPASAT 36W	-36	C	CR/C	2095	2631
92500108	E		HISPASAT-1	-30	N	PART	2	2645
101500577	E		HISPASAT-1C	-30	N	PART	2	2544
106500012	E		HISPASAT-1D KU	-30	N	PART	2	2636
102500409	E		HISPASAT-2A KU	-30	N	PART	2	2548
105500025	E		HISPASAT-2A X	-30	N	PART	2	2634
105500092	E		HISPASAT-2AKA	-30	N	PART	2	2632
105500093	E		HISPASAT-2B 30KA	-30	N	PART	2	2632
100500226	E		HISPASAT-2B KU	-30	N	PART	2	2474
100500225	E		HISPASAT-2C3 KU	-30	N	PART	2	2587
104500108	E		HISPASAT-2D KU	-30	N	PART	2	2589

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109540536	E		HISPASAT-3A	-30	A	API/A	5766	2652
109540563	E		INGENIO	N-GSO	A	API/A	5791	2654
94500335	E		MINISAT-1	N-GSO	N	PART	2	2291
105500142	E		NANOSAT-1	N-GSO	N	PART	2	2655
107520014	E		ONDAS	N-GSO	C	CR/C	2052	2650
109540646	E		PAZ	N-GSO	A	API/A	5790	2656
107540129	E		SECOMSAT B1_15W	-15	A	API/A	4599	2623
107520271	E		SECOMSAT B1_41E	41	C	CR/C	2117	2635
108520126	E		SECOMSAT B1_47W	-47	C	CR/C	2215	2643
105500624	E		SECOMSAT B29E	29	N	PART	2	2655
108520282	E		SECOMSAT-B1_29E	29	C	CR/C	2321	2638
109540554	E		SECOMSAT-B1-36E	36	A	API/A	5781	2653
109540555	E		SECOMSAT-B1-50E	50	A	API/A	5782	2653
105500097	EGY		MIRSAT-1	N-GSO	N	PART	2	2603
105520014	EGY		NAVISAT-1	17	C	CR/C	1527	2630
109540384	EGY		NAVISAT-10A	22	A	API/A	5646	2647
109540385	EGY		NAVISAT-11A	28	A	API/A	5647	2647
109540386	EGY		NAVISAT-12A	34	A	API/A	5648	2647
109540387	EGY		NAVISAT-13A	40	A	API/A	5649	2647
109540388	EGY		NAVISAT-14A	46	A	API/A	5650	2647
109540389	EGY		NAVISAT-15A	52	A	API/A	5651	2647
109540390	EGY		NAVISAT-16A	58	A	API/A	5652	2647
109540375	EGY		NAVISAT-1A	17	A	API/A	5637	2647
105520015	EGY		NAVISAT-2	21	C	CR/C	1528	2630
109540376	EGY		NAVISAT-2A	21	A	API/A	5638	2647
105520016	EGY		NAVISAT-3	36.5	C	CR/C	1529	2630
109540377	EGY		NAVISAT-3A	36.5	A	API/A	5639	2647
109540378	EGY		NAVISAT-4A	-14	A	API/A	5640	2647
109540379	EGY		NAVISAT-5A	-8	A	API/A	5641	2647
109540380	EGY		NAVISAT-6A	-2	A	API/A	5642	2647
109540381	EGY		NAVISAT-7A	4	A	API/A	5643	2647
109540382	EGY		NAVISAT-8A	10	A	API/A	5644	2647
109540383	EGY		NAVISAT-9A	16	A	API/A	5645	2647
108540354	EGY		NILESAT-301-20E	20	A	API/A	5230	2625
108540355	EGY		NILESAT-301-30E	30	A	API/A	5231	2625
108540351	EGY		NILESAT-301-3W	-3	A	API/A	5227	2625
109520031	EGY		NILESAT-301-7W	-7	C	CR/C	2376	2644
108540353	EGY		NILESAT-301-8.5E	8.5	A	API/A	5229	2625
108520072	EGY		NILESAT-A	-7	C	CR/C	2195	2624
108520181	EGY		NILESAT-B	-3	C	CR/C	2266	2634
108520182	EGY		NILESAT-C	8.5	C	CR/C	2267	2634
108520183	EGY		NILESAT-D	20	C	CR/C	2268	2634
108520184	EGY		NILESAT-E	30	C	CR/C	2269	2634
105520122	F		3GSAT-G15R	-15	C	CR/C	1638	2589
102540080	F		3GSAT-G17	10	A	API/A	2262	2573
105520123	F		3GSAT-G17R	10	C	CR/C	1639	2589
105520121	F		3GSAT-G2R	32.5	C	CR/C	1637	2589
105500004	F	ESA	ADM-AEOLUS	N-GSO	N	PART	2	2583
106500013	F	ESA	AEOLUS	N-GSO	N	PART	2	2607
104520214	F		AGORA-17.5W	-17.5	C	CR/C	1477	2581
104520217	F		AGORA-23.7E	23.7	C	CR/C	1479	2581

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106520144	F		AGORA-25E	25	C	CR/C	1878	2609
104520218	F		AGORA-31E	31	C	CR/C	1480	2581
104520219	F		AGORA-38E	38	C	CR/C	1481	2581
104520215	F		AGORA-3W	-3	C	CR/C	1476	2581
104520220	F		AGORA-49E	49	C	CR/C	1482	2581
104520216	F		AGORA-8.7E	8.7	C	CR/C	1478	2581
105540862	F		ALERTE	N-GSO	A	API/A	3949	2560
108500002	F		ARGOS-4	N-GSO	N	PART	2	2647
96500523	F		ARGOS-B	N-GSO	N	PART	2	2604
108500601	F		ARGOS-SARAL	N-GSO	N	PART	2	2647
90504396	F		ARIANE	N-GSO	N	PART	2	2575
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
108500574	F	ESA	ARTEMIS-21.5E-NAV	21.5	N	PART	2	2658
109540459	F		AST-0E	0	A	API/A	5707	2656
109540468	F		AST-108E	108	A	API/A	5716	2656
109540453	F		AST-108W	-108	A	API/A	5701	2656
109540469	F		AST-120E	120	A	API/A	5717	2656
109540454	F		AST-120W	-120	A	API/A	5702	2656
109540460	F		AST-12E	12	A	API/A	5708	2656
109540445	F		AST-12W	-12	A	API/A	5693	2656
109540470	F		AST-132E	132	A	API/A	5718	2656
109540455	F		AST-132W	-132	A	API/A	5703	2656
109540471	F		AST-144E	144	A	API/A	5719	2656
109540456	F		AST-144W	-144	A	API/A	5704	2656
109540472	F		AST-156E	156	A	API/A	5720	2656
109540457	F		AST-156W	-156	A	API/A	5705	2656
109540473	F		AST-168E	168	A	API/A	5721	2656
109540458	F		AST-168W	-168	A	API/A	5706	2656
109540474	F		AST-180E	180	A	API/A	5722	2656
109540461	F		AST-24E	24	A	API/A	5709	2656
109540446	F		AST-24W	-24	A	API/A	5694	2656
109540462	F		AST-36E	36	A	API/A	5710	2656
109540447	F		AST-36W	-36	A	API/A	5695	2656
109540463	F		AST-48E	48	A	API/A	5711	2656
109540448	F		AST-48W	-48	A	API/A	5696	2656
109540464	F		AST-60E	60	A	API/A	5712	2656
109540449	F		AST-60W	-60	A	API/A	5697	2656
109540465	F		AST-72E	72	A	API/A	5713	2656
109540450	F		AST-72W	-72	A	API/A	5698	2656
109540466	F		AST-84E	84	A	API/A	5714	2656
109540451	F		AST-84W	-84	A	API/A	5699	2656
109540467	F		AST-96E	96	A	API/A	5715	2656
109540452	F		AST-96W	-96	A	API/A	5700	2656
108540546	F		ASTROTERRA	N-GSO	A	API/A	5342	2647
108540001	F		ATB-01	180	A	API/A	4943	2614
108540002	F		ATB-02	-168	A	API/A	4944	2614
108540003	F		ATB-03	-156	A	API/A	4945	2614
108540004	F		ATB-04	-144	A	API/A	4946	2614
108540005	F		ATB-05	-132	A	API/A	4947	2614
108540006	F		ATB-06	-120	A	API/A	4948	2614

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108540007	F		ATB-07	-108	A	API/A	4949	2614
108540008	F		ATB-08	-96	A	API/A	4950	2614
108540009	F		ATB-09	-84	A	API/A	4951	2614
108540010	F		ATB-10	-72	A	API/A	4952	2614
108540011	F		ATB-11	-60	A	API/A	4953	2614
108540012	F		ATB-12	-48	A	API/A	4954	2633
108540013	F		ATB-13	-36	A	API/A	4955	2633
108540014	F		ATB-14	-24	A	API/A	4956	2633
108540015	F		ATB-15	-12	A	API/A	4957	2633
108540016	F		ATB-16	0	A	API/A	4958	2633
108540017	F		ATB-17	12	A	API/A	4959	2633
108540018	F		ATB-18	24	A	API/A	4960	2633
108540019	F		ATB-19	36	A	API/A	4961	2633
108540020	F		ATB-20	48	A	API/A	4962	2633
108540021	F		ATB-21	60	A	API/A	4963	2614
108540022	F		ATB-22	72	A	API/A	4964	2614
108540023	F		ATB-23	84	A	API/A	4965	2614
108540024	F		ATB-24	96	A	API/A	4966	2614
108540025	F		ATB-25	108	A	API/A	4967	2614
108540026	F		ATB-26	120	A	API/A	4968	2614
108540027	F		ATB-27	132	A	API/A	4969	2614
108540028	F		ATB-28	144	A	API/A	4970	2614
108540029	F		ATB-29	156	A	API/A	4971	2614
107540827	F		ATB-30	132	A	API/A	4942	2612
108540030	F		ATB-31	168	A	API/A	4972	2614
108540161	F		ATHENA-17.5W	-17.5	A	API/A	5090	2617
108540162	F		ATHENA-3W	-3	A	API/A	5091	2617
108540163	F		ATHENA-8.7E	8.7	A	API/A	5092	2617
109520081	F		ATHENA-FIDUS-23.7E	23.7	C	CR/C	2395	2648
108520320	F		ATHENA-FIDUS-25E	25	C	CR/C	2362	2659
109520082	F		ATHENA-FIDUS-31E	31	C	CR/C	2396	2648
109520083	F		ATHENA-FIDUS-38E	38	C	CR/C	2397	2648
109520084	F		ATHENA-FIDUS-49E	49	C	CR/C	2398	2648
106540484	F		ATM-01	180	A	API/A	4299	2581
106540485	F		ATM-02	-168	A	API/A	4300	2581
106540486	F		ATM-03	-156	A	API/A	4301	2581
106540487	F		ATM-04	-144	A	API/A	4302	2581
106540488	F		ATM-05	-132	A	API/A	4303	2581
106540489	F		ATM-06	-120	A	API/A	4304	2581
106540490	F		ATM-07	-108	A	API/A	4305	2581
106540491	F		ATM-08	-96	A	API/A	4306	2581
106540492	F		ATM-09	-84	A	API/A	4307	2581
106540493	F		ATM-10	-72	A	API/A	4308	2581
106540494	F		ATM-11	-60	A	API/A	4309	2581
106540495	F		ATM-12	-48	A	API/A	4310	2581
107520290	F		ATM-17	1	C	CR/C	2130	2637
107520291	F		ATM-21	32	C	CR/C	2131	2637
108520039	F		ATM-27	93.5	C	CR/C	2155	2640
108520046	F		ATM-29	123	C	CR/C	2156	2640
105500005	F	ESA	ATV	N-GSO	N	PART	2	2624
108540157	F		CAMEO	55	A	API/A	5087	2616

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93500177	F		CERISE	N-GSO	N	PART	2	2635
95500126	F	ESA	CLUSTER 1-5	N-GSO	N	PART	2	2583
108540058	F		CP 006E	6	A	API/A	4986	2615
108540073	F		CP 006W	-6	A	API/A	5001	2615
108540074	F		CP 018W	-18	A	API/A	5002	2615
108540075	F		CP 030W	-30	A	API/A	5003	2615
108540062	F		CP 054E	54	A	API/A	4990	2615
108540077	F		CP 054W	-54	A	API/A	5005	2615
108540078	F		CP 066W	-66	A	API/A	5006	2615
108540064	F		CP 078E	78	A	API/A	4992	2615
108540079	F		CP 078W	-78	A	API/A	5007	2615
108540065	F		CP 090E	90	A	API/A	4993	2615
108540080	F		CP 090W	-90	A	API/A	5008	2615
108540066	F		CP 102E	102	A	API/A	4994	2615
108540081	F		CP 102W	-102	A	API/A	5009	2615
108540067	F		CP 114E	114	A	API/A	4995	2615
108540082	F		CP 114W	-114	A	API/A	5010	2615
109520090	F		CP 125.2E	125.2	C	CR/C	2402	2649
108540083	F		CP 126W	-126	A	API/A	5011	2615
108540069	F		CP 138E	138	A	API/A	4997	2615
108540084	F		CP 138W	-138	A	API/A	5012	2615
108540070	F		CP 150E	150	A	API/A	4998	2615
108540085	F		CP 150W	-150	A	API/A	5013	2615
108540071	F		CP 162E	162	A	API/A	4999	2615
108540086	F		CP 162W	-162	A	API/A	5014	2615
108540072	F		CP 174E	174	A	API/A	5000	2615
108540087	F		CP 174W	-174	A	API/A	5015	2615
109520053	F		CP 60.75E	60.75	C	CR/C	2385	2646
108500003	F	ESA	CRYOSAT-2	N-GSO	N	PART	2	2634
108540158	F		CUMBIA	-78	A	API/A	5088	2616
100500052	F		DORIS-2	N-GSO	N	PART	2	2588
107520228	F		DRN-D1	-2.8	C	CR/C	2087	2636
107520227	F		DRN-D2	-80	C	CR/C	2088	2636
107520226	F		DRN-D3	-164	C	CR/C	2089	2636
107520229	F		DRN-D4	98.5	C	CR/C	2090	2636
108540729	F		DRN-FP	2.9	A	API/A	5428	2638
108520185	F		DRN-N1B	N-GSO	C	CR/C	2270	2646
108520186	F		DRN-N2B	N-GSO	C	CR/C	2271	2646
108520187	F		DRN-N3B	N-GSO	C	CR/C	2272	2646
108520188	F		DRN-P1B	-48	C	CR/C	2273	2646
108520189	F		DRN-P2B	21.5	C	CR/C	2274	2646
108520190	F		DRN-P3B	31	C	CR/C	2275	2646
108520191	F		DRN-P4B	36.5	C	CR/C	2276	2646
109540392	F		DUNIA-2	8	A	API/A	5654	2660
109540897	F		DUNIA-3	11	A	API/A	5957	2660
99500167	F	ESA	ENVISAT	N-GSO	N	PART	2	2520
91910008	F	ESA	ERS-1	N-GSO	N	PART	2	2574
101500326	F		ESSAIM	N-GSO	N	PART	2	2549
105520316	F		EUROSAT-15E	15	C	CR/C	1702	2617
90500631	F	EUT	EUTELSAT 1-3	7	N	PART	2	2247
92500311	F	EUT	EUTELSAT 1-5	21.5	N	PART	2	2497

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101500027	F	EUT	EUTELSAT 1-8	25.5	N	PART	2	2561
92500315	F	EUT	EUTELSAT 2-10E	10	N	PART	2	2553
92500313	F	EUT	EUTELSAT 2-13E	13	N	PART	2	2552
92500314	F	EUT	EUTELSAT 2-16E	16	N	PART	2	2468
95500111	F	EUT	EUTELSAT 2-21.5E	21.5	N	PART	2	2561
95500112	F	EUT	EUTELSAT 2-33E	33	N	PART	1	2608
92500316	F	EUT	EUTELSAT 2-36E	36	N	PART	2	2552
101500079	F	EUT	EUTELSAT 2-4E	4	N	PART	2	2575
92500312	F	EUT	EUTELSAT 2-7E	7	N	PART	2	2553
103500286	F	EUT	EUTELSAT 3-10E	10	N	PART	2	2616
99500228	F	EUT	EUTELSAT 3-12.5W	-12.5	N	PART	2	2617
103500287	F	EUT	EUTELSAT 3-13E	13	N	PART	2	2617
103500288	F	EUT	EUTELSAT 3-16E	16	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	N	PART	2	2653
103500313	F	EUT	EUTELSAT 3-33E	33	N	PART	2	2608
103500314	F	EUT	EUTELSAT 3-36E	36	N	PART	2	2608
103500327	F	EUT	EUTELSAT 3-4E	4	N	PART	2	2591
103500277	F	EUT	EUTELSAT 3-70.5E	70.5	N	PART	2	2584
103500280	F	EUT	EUTELSAT 3-7E	7	N	PART	2	2606
107500314	F	EUT	EUTELSAT 3A-14.8W	-14.8	N	PART	2	2652
106500043	F	EUT	EUTELSAT EXB-10E	10	N	PART	2	2658
102500526	F	EUT	EUTELSAT EXB-12.5W	-12.5	N	PART	2	2573
100500129	F	EUT	EUTELSAT EXB-13E	13	N	PART	2	2511
104500578	F	EUT	EUTELSAT EXB-16E	16	N	PART	2	2558
106500040	F	EUT	EUTELSAT EXB-25.5E	25.5	N	PART	2	2658
104500577	F	EUT	EUTELSAT EXB-28.5E	28.5	N	PART	2	2558
106500041	F	EUT	EUTELSAT EXB-33E	33	N	PART	2	2658
105500572	F	EUT	EUTELSAT EXB-36E	36	N	PART	2	2566
104500591	F	EUT	EUTELSAT EXB-37.2W	13	N	PART	2	2566
105500573	F	EUT	EUTELSAT EXB-40E	40	N	PART	2	2566
106500042	F	EUT	EUTELSAT EXB-44E	53	N	PART	2	2658
105500441	F	EUT	EUTELSAT EXB-48E	48	N	PART	2	2565
106500039	F	EUT	EUTELSAT EXB-64W	-61	N	PART	2	2604
106500023	F	EUT	EUTELSAT EXB-64W_C	-61	N	PART	2	2604
103500446	F	EUT	EUTELSAT EXB-70.5E	70.5	N	PART	2	2565
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	N	PART	2	2658
105500626	F	EUT	EUTELSAT EXB-76E_C	76	N	PART	2	2569
102500497	F	EUT	EUTELSAT EXB-7E	7	N	PART	2	2569
105500574	F	EUT	EUTELSAT EXB-80.5E	80.5	N	PART	2	2658
105500576	F	EUT	EUTELSAT EXB-83.5E	83.5	N	PART	2	2658
105500575	F	EUT	EUTELSAT EXB-86E	86	N	PART	2	2658
105500577	F	EUT	EUTELSAT EXB-88.5E	88.5	N	PART	2	2658
107500233	F	EUT	EUTELSAT-B1-10E	10	N	PART	2	2650
107500223	F	EUT	EUTELSAT-B1-12.5W	-12.5	N	PART	2	2652
107500525	F	EUT	EUTELSAT-B1-13E	13	N	PART	2	2633
107500224	F	EUT	EUTELSAT-B1-14.8W	-14.8	N	PART	2	2649
107500234	F	EUT	EUTELSAT-B1-16E	16	N	PART	2	2650

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107500235	F	EUT	EUTELSAT-B1-21.5E	21.5	N	PART	2	2652
107500236	F	EUT	EUTELSAT-B1-25.5E	25.5	N	PART	2	2652
105500520	F	EUT	EUTELSAT-B1-29E	29	N	PART	2	2654
107500237	F	EUT	EUTELSAT-B1-33E	33	N	PART	2	2650
107500238	F	EUT	EUTELSAT-B1-36E	36	N	PART	2	2652
107500239	F	EUT	EUTELSAT-B1-44E	44	N	PART	2	2650
107500240	F	EUT	EUTELSAT-B1-48E	48	N	PART	2	2649
107500222	F	EUT	EUTELSAT-B1-4E	4	N	PART	2	2649
107500232	F	EUT	EUTELSAT-B1-7E	7	N	PART	2	2652
103500079	F	EUT	EUTELSAT-E-70.5E	70.5	N	PART	2	2604
105500070	F	EUT	EUTELSAT-KA-10E	10	N	PART	2	2641
105500139	F	EUT	EUTELSAT-KA-12.5W	-12.5	N	PART	2	2644
105500069	F	EUT	EUTELSAT-KA-13E	13	N	PART	2	2640
105500140	F	EUT	EUTELSAT-KA-14.8W	-14.8	N	PART	2	2648
105500068	F	EUT	EUTELSAT-KA-16E	16	N	PART	2	2641
105500133	F	EUT	EUTELSAT-KA-21.5E	21.5	N	PART	2	2635
108500579	F	EUT	EUTELSAT-KA-25.5E	25.5	N	PART	2	2642
99520320	F	EUT	EUTELSAT-KA-29E	29	C	CR/C	262	2634
108500581	F	EUT	EUTELSAT-KA-33E	33	N	PART	2	2640
108500578	F	EUT	EUTELSAT-KA-36E	36	N	PART	2	2623
105500137	F	EUT	EUTELSAT-KA-44E	44	N	PART	2	2634
105500138	F	EUT	EUTELSAT-KA-48E	48	N	PART	2	2641
105500072	F	EUT	EUTELSAT-KA-4E	4	N	PART	2	2633
105500071	F	EUT	EUTELSAT-KA-7E	7	N	PART	2	2634
92500211	F		F-SAT 2	-11	N	PART	2	2499
107500248	F		F-SAT-30B	9	N	PART	2	2607
109520017	F		F-SAT-B1-E-3E	3	C	CR/C	2370	2643
107500251	F		F-SAT-B1-E-8W	-8	N	PART	2	2651
107520264	F		F-SAT-B1-E-9E	9	C	CR/C	2112	2616
103520124	F		F-SAT-C-E-10E	10	C	CR/C	1207	2518
103520125	F		F-SAT-C-E-13E	13	C	CR/C	1208	2518
103520126	F		F-SAT-C-E-16E	16	C	CR/C	1209	2518
103520123	F		F-SAT-C-E-7E	7	C	CR/C	1206	2518
108501197	F		F-SATDAB-1B	9	N	PART	2	2658
108501220	F		F-SATDAB-3A	16.5	N	PART	2	2655
108501221	F		F-SATDAB-4A	45	N	PART	2	2655
104520003	F		F-SATDAB-5A	21	C	CR/C	1411	2576
108540324	F		F-SAT-E-DRS-100E	100	A	API/A	5197	2624
108540291	F		F-SAT-E-DRS-104W	-104	A	API/A	5164	2624
108540325	F		F-SAT-E-DRS-106E	106	A	API/A	5198	2624
108540307	F		F-SAT-E-DRS-10E	10	A	API/A	5180	2624
108540292	F		F-SAT-E-DRS-110W	-110	A	API/A	5165	2624
108540326	F		F-SAT-E-DRS-112E	112	A	API/A	5199	2624
108540293	F		F-SAT-E-DRS-116W	-116	A	API/A	5166	2624
108540327	F		F-SAT-E-DRS-118E	118	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	A	API/A	5167	2624
108540328	F		F-SAT-E-DRS-124E	124	A	API/A	5201	2624
108540295	F		F-SAT-E-DRS-128W	-128	A	API/A	5168	2624
108540329	F		F-SAT-E-DRS-130E	130	A	API/A	5202	2624
108540296	F		F-SAT-E-DRS-134W	-134	A	API/A	5169	2624

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108540330	F		F-SAT-E-DRS-136E	136	A	API/A	5203	2624
108540308	F		F-SAT-E-DRS-13E	13	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	A	API/A	5170	2624
108540331	F		F-SAT-E-DRS-142E	142	A	API/A	5204	2624
108540298	F		F-SAT-E-DRS-146W	-146	A	API/A	5171	2624
108540332	F		F-SAT-E-DRS-148E	148	A	API/A	5205	2624
108540299	F		F-SAT-E-DRS-152W	-152	A	API/A	5172	2624
108540333	F		F-SAT-E-DRS-154E	154	A	API/A	5206	2624
108540300	F		F-SAT-E-DRS-158W	-158	A	API/A	5173	2624
108540334	F		F-SAT-E-DRS-160E	160	A	API/A	5207	2624
108540301	F		F-SAT-E-DRS-164W	-164	A	API/A	5174	2624
108540335	F		F-SAT-E-DRS-166E	166	A	API/A	5208	2624
108540309	F		F-SAT-E-DRS-16E	16	A	API/A	5182	2624
108540302	F		F-SAT-E-DRS-170W	-170	A	API/A	5175	2624
108540336	F		F-SAT-E-DRS-172E	172	A	API/A	5209	2624
108540303	F		F-SAT-E-DRS-176W	-176	A	API/A	5176	2624
108540337	F		F-SAT-E-DRS-178E	178	A	API/A	5210	2624
108540304	F		F-SAT-E-DRS-1E	1	A	API/A	5177	2624
108540277	F		F-SAT-E-DRS-20W	-20	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	A	API/A	5151	2624
108540279	F		F-SAT-E-DRS-32W	-32	A	API/A	5152	2624
108540312	F		F-SAT-E-DRS-33E	33	A	API/A	5185	2624
108540313	F		F-SAT-E-DRS-36E	36	A	API/A	5186	2624
108540280	F		F-SAT-E-DRS-38W	-38	A	API/A	5153	2624
108540314	F		F-SAT-E-DRS-42E	42	A	API/A	5187	2624
108540281	F		F-SAT-E-DRS-44W	-44	A	API/A	5154	2624
108540315	F		F-SAT-E-DRS-48E	48	A	API/A	5188	2624
108540305	F		F-SAT-E-DRS-4E	4	A	API/A	5178	2624
108540282	F		F-SAT-E-DRS-50W	-50	A	API/A	5155	2624
108540316	F		F-SAT-E-DRS-54E	54	A	API/A	5189	2624
108540283	F		F-SAT-E-DRS-56W	-56	A	API/A	5156	2624
108540273	F		F-SAT-E-DRS-5W	-5	A	API/A	5146	2624
108540317	F		F-SAT-E-DRS-60E	60	A	API/A	5190	2624
108540284	F		F-SAT-E-DRS-62W	-62	A	API/A	5157	2624
108540318	F		F-SAT-E-DRS-66E	66	A	API/A	5191	2624
108540285	F		F-SAT-E-DRS-68W	-68	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	A	API/A	5159	2624
108540320	F		F-SAT-E-DRS-76E	76	A	API/A	5193	2624
108540306	F		F-SAT-E-DRS-7E	7	A	API/A	5179	2624
108540287	F		F-SAT-E-DRS-80W	-80	A	API/A	5160	2624
108540321	F		F-SAT-E-DRS-82E	82	A	API/A	5194	2624
108540288	F		F-SAT-E-DRS-86W	-86	A	API/A	5161	2624
108540322	F		F-SAT-E-DRS-88E	88	A	API/A	5195	2624
108540274	F		F-SAT-E-DRS-8W	-8	A	API/A	5147	2624
108540289	F		F-SAT-E-DRS-92W	-92	A	API/A	5162	2624
108540323	F		F-SAT-E-DRS-94E	94	A	API/A	5196	2624
108540290	F		F-SAT-E-DRS-98W	-98	A	API/A	5163	2624

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107520051	F		F-SAT-KA-E-1.6E	1.6	C	CR/C	1999	2618
103520367	F		F-SAT-KA-E-10E	10	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	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	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	C	CR/C	1334	2582
103520372	F		F-SAT-KA-E-36E	36	C	CR/C	1335	2582
109520212	F		F-SAT-KA-E-3E	3	C	CR/C	2454	2660
103520373	F		F-SAT-KA-E-44E	44	C	CR/C	1326	2582
103520374	F		F-SAT-KA-E-48E	48	C	CR/C	1327	2582
103520379	F		F-SAT-KA-E-64W	-64	C	CR/C	1332	2582
107540732	F		F-SAT-KA-E-67W	-67	A	API/A	4798	2608
103520375	F		F-SAT-KA-E-70.5E	70.5	C	CR/C	1328	2582
109520056	F		F-SAT-KA-E-76E	76	C	CR/C	2387	2647
103520366	F		F-SAT-KA-E-7E	7	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	C	CR/C	2008	2618
109520211	F		F-SAT-KB1-E-5W	-5	C	CR/C	2453	2660
108520288	F		F-SAT-K-E-11W	-11	C	CR/C	2331	2657
108540267	F		F-SAT-K-E-32E	32	A	API/A	5213	2622
108520289	F		F-SAT-K-E-3W	-3	C	CR/C	2330	2657
108520290	F		F-SAT-K-E-40E	40	C	CR/C	2332	2657
108520291	F		F-SAT-K-E-80.5E	80.5	C	CR/C	2336	2658
108520292	F		F-SAT-K-E-83.5E	83.5	C	CR/C	2337	2658
108520293	F		F-SAT-K-E-88.5E	88.5	C	CR/C	2338	2658
108540272	F		F-SAT-K-E-96E	96	A	API/A	5218	2622
103520240	F		F-SAT-KU2-E-10E	10	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	C	CR/C	1267	2566
103520242	F		F-SAT-KU2-E-16E	16	C	CR/C	1268	2566
103520238	F		F-SAT-KU2-E-4E	4	C	CR/C	1264	2566
103520236	F		F-SAT-KU2-E-64W	-64	C	CR/C	1270	2566
103520239	F		F-SAT-KU2-E-7E	7	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	C	CR/C	1272	2525
103520245	F		F-SAT-KU3-E-36E	36	C	CR/C	1273	2525
103520246	F		F-SAT-KU3-E-44E	44	C	CR/C	1274	2525
103520247	F		F-SAT-KU3-E-48E	48	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	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
106500340	F		F-SAT-KU-E-5W	-5	N	PART	2	2643
104520038	F		F-SAT-KU-E-76E	76	C	CR/C	1386	2540
107520096	F		F-SAT-KU-E-7W	-7	C	CR/C	2018	2621
107500250	F		F-SAT-KU-E-8W	-8	N	PART	2	2653
95540023	F		F-SATMULTI-1A	N-GSO	A	AR11/A	1604	2337
109540410	F		F-SAT-N-E-10E	10	A	API/A	5671	2648
109540404	F		F-SAT-N-E-12.5W	-12.5	A	API/A	5665	2648

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109540411	F		F-SAT-N-E-13E	13	A	API/A	5672	2648
109540403	F		F-SAT-N-E-14.8W	-14.8	A	API/A	5664	2648
109540412	F		F-SAT-N-E-16E	16	A	API/A	5673	2648
109540413	F		F-SAT-N-E-21.5E	21.5	A	API/A	5674	2648
109540414	F		F-SAT-N-E-25.5E	25.5	A	API/A	5675	2648
109540415	F		F-SAT-N-E-28.5E	28.5	A	API/A	5676	2648
109540416	F		F-SAT-N-E-33E	33	A	API/A	5677	2648
109540417	F		F-SAT-N-E-36E	36	A	API/A	5678	2648
109540407	F		F-SAT-N-E-3E	3	A	API/A	5668	2648
109540418	F		F-SAT-N-E-48E	48	A	API/A	5679	2648
109540408	F		F-SAT-N-E-4E	4	A	API/A	5669	2648
109540406	F		F-SAT-N-E-5W	-5	A	API/A	5667	2648
109540419	F		F-SAT-N-E-70.5E	70.5	A	API/A	5680	2648
109540420	F		F-SAT-N-E-73.5E	73.5	A	API/A	5681	2648
109540421	F		F-SAT-N-E-76E	76	A	API/A	5682	2648
109540409	F		F-SAT-N-E-7E	7	A	API/A	5670	2648
109540405	F		F-SAT-N-E-8W	-8	A	API/A	5666	2648
105520336	F		F-SAT-S-E-10E	10	C	CR/C	1728	2639
105520295	F		F-SAT-S-E-13E	13	C	CR/C	1690	2592
105520294	F		F-SAT-S-E-16E	16	C	CR/C	1691	2592
106520165	F		F-SAT-S-E-3E	3	C	CR/C	1894	2609
105520337	F		F-SAT-S-E-70.5E	70.5	C	CR/C	1729	2639
107520039	F		F-SAT-S-E-7E	7	C	CR/C	1942	2621
105520338	F		F-SAT-S-E-98.5E	98.5	C	CR/C	1730	2639
106520198	F		F-SAT-S-HEO	N-GSO	C	CR/C	1903	2609
109540489	F	GLS	GALILEO-2	N-GSO	A	API/A	5724	2651
101520290	F		GEOSAT C 1E	1	C	CR/C	919	2493
101520279	F		GEOSAT KU 1E	1	C	CR/C	917	2583
106500356	F		GEOSAT-30B	-7	N	PART	2	2588
103520020	F		GEOSAT-3E	3	C	CR/C	1155	2525
105500509	F		GEOSAT-KA-3E	3	N	PART	2	2657
105500510	F		GEOSAT-KA-5W	-5	N	PART	2	2659
105500511	F		GEOSAT-KA-8W	-8	N	PART	2	2658
103500001	F	ESA	GOCE	N-GSO	N	PART	2	2644
104500092	F	ESA	HERSCHEL	N-GSO	N	PART	2	2649
109540513	F		HIBLEO-X	N-GSO	A	API/A	5745	2650
99500055	F	ESA	INTEGRAL	N-GSO	N	PART	2	2583
108540423	F		JASON2	N-GSO	A	API/A	5266	2645
108540393	F	ESA	LISA PATHFINDER	N-GSO	A	API/A	5249	2639
101500521	F	ESA	MARS-EXPRESS	N-GSO	N	PART	2	2583
90500651	F	ESA	METEOSAT	0	N	PART	2	2330
100500306	F	ESA	METOP	N-GSO	N	PART	2	2583
105500220	F		MINOS	N-GSO	N	PART	2	2605
108540800	F		MM 000E	0	A	API/A	5474	2638
108540756	F		MM 006E	6	A	API/A	5430	2638
108540776	F		MM 006W	-6	A	API/A	5450	2638
108540757	F		MM 012E	12	A	API/A	5431	2638
108540777	F		MM 012W	-12	A	API/A	5451	2638
108540758	F		MM 018E	18	A	API/A	5432	2638
108540778	F		MM 018W	-18	A	API/A	5452	2638
108540759	F		MM 024E	24	A	API/A	5433	2638

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108540779	F		MM 024W	-24	A	API/A	5453	2638
108540760	F		MM 030E	30	A	API/A	5434	2638
108540780	F		MM 030W	-30	A	API/A	5454	2638
108540761	F		MM 036E	36	A	API/A	5435	2638
108540781	F		MM 036W	-36	A	API/A	5455	2638
108540762	F		MM 042E	42	A	API/A	5436	2638
108540763	F		MM 048E	48	A	API/A	5437	2638
108540782	F		MM 048W	-48	A	API/A	5456	2638
108540764	F		MM 054E	54	A	API/A	5438	2638
108540765	F		MM 060E	60	A	API/A	5439	2638
108540766	F		MM 066E	66	A	API/A	5440	2638
108540784	F		MM 066W	-66	A	API/A	5458	2638
108540785	F		MM 072W	-72	A	API/A	5459	2638
108540767	F		MM 078E	78	A	API/A	5441	2638
108540786	F		MM 078W	-78	A	API/A	5460	2638
108540787	F		MM 084W	-84	A	API/A	5461	2638
108540768	F		MM 090E	90	A	API/A	5442	2638
108540788	F		MM 090W	-90	A	API/A	5462	2638
108540789	F		MM 096W	-96	A	API/A	5463	2638
108540769	F		MM 102E	102	A	API/A	5443	2638
108540790	F		MM 102W	-102	A	API/A	5464	2638
108540791	F		MM 108W	-108	A	API/A	5465	2638
108540770	F		MM 114E	114	A	API/A	5444	2638
108540792	F		MM 114W	-114	A	API/A	5466	2638
108540793	F		MM 120W	-120	A	API/A	5467	2638
108540771	F		MM 126E	126	A	API/A	5445	2638
108540794	F		MM 126W	-126	A	API/A	5468	2638
108540795	F		MM 132W	-132	A	API/A	5469	2638
108540772	F		MM 138E	138	A	API/A	5446	2638
108540796	F		MM 138W	-138	A	API/A	5470	2638
108540773	F		MM 150E	150	A	API/A	5447	2638
108540797	F		MM 150W	-150	A	API/A	5471	2638
108540774	F		MM 162E	162	A	API/A	5448	2638
108540798	F		MM 162W	-162	A	API/A	5472	2638
108540775	F		MM 174E	174	A	API/A	5449	2638
108540799	F		MM 174W	-174	A	API/A	5473	2638
108540783	F		MM 55.2W	-55.2	A	API/A	5457	2658
108540753	F		MM HEO	N-GSO	A	API/A	5475	2641
108540754	F		MM LEO	N-GSO	A	API/A	5476	2641
108540755	F		MM MEO	N-GSO	A	API/A	5477	2641
109540574	F		MM2 164W	-164	A	API/A	5794	2654
109540577	F		MM2 2.8W	-2.8	A	API/A	5797	2654
109540578	F		MM2 21.5E	21.5	A	API/A	5798	2654
109540579	F		MM2 31E	31	A	API/A	5799	2654
109540580	F		MM2 36.5E	36.5	A	API/A	5800	2654
109540576	F		MM2 48W	-48	A	API/A	5796	2654
109540575	F		MM2 80W	-80	A	API/A	5795	2654
109540581	F		MM2 98.5E	98.5	A	API/A	5801	2654
109540584	F		MM2 HEO	N-GSO	A	API/A	5804	2654
109540582	F		MM2 LEO	N-GSO	A	API/A	5802	2654
109540583	F		MM2 MEO	N-GSO	A	API/A	5803	2654

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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
104500513	F		MSATNAV-5	N-GSO	N	PART	2	2581
101500511	F	ESA	MSG	0	N	PART	2	2548
106520021	F	ESA	MSG-N3.4W	-3.4	C	CR/C	1790	2600
101500512	F	ESA	MSG-S1	10	N	PART	2	2659
101500510	F	ESA	MSG-S2	-10	N	PART	2	2518
107540722	F		MSS-2	N-GSO	A	API/A	4790	2608
106520241	F		MUSICAA	21	C	CR/C	1926	2610
106500051	F		MYRIADE	N-GSO	N	PART	2	2630
105520154	F		NEMO-3	1	C	CR/C	1665	2590
105520155	F		NEMO-6	32	C	CR/C	1666	2590
104520195	F		NEPER7	1	C	CR/C	1455	2616
104520196	F		NEPER8	32	C	CR/C	1456	2616
104500093	F	ESA	PLANCK	N-GSO	N	PART	2	2649
99500101	F	ESA	PROBA	N-GSO	N	PART	2	2583
105500613	F	ESA	PROBA-2	N-GSO	N	PART	2	2607
105500522	F		PROTEUS-OBS	N-GSO	N	PART	2	2632
96500559	F		PROTEUS-TPFO	N-GSO	N	PART	2	2588
93540106	F		RADIOSAT-5	-7	A	AR11/A	942	2082
108501198	F		RADIOSAT-6D	-8	N	PART	2	2657
108501148	F		RADIOSAT-7D	-5	N	PART	2	2654
109540060	F		ROBUSTA	N-GSO	A	API/A	5560	2656
101500519	F	ESA	ROSETTA	N-GSO	N	PART	2	2583
108540159	F		SAMBA	-65	A	API/A	5089	2616
105500083	F	ESA	SMOS	N-GSO	N	PART	2	2660
95500127	F	ESA	SOHO	N-GSO	N	PART	2	2574
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
104540593	F	ESA	SSETI EXPRESS	N-GSO	A	API/A	3365	2536
109540855	F	ESA	SWARM	N-GSO	A	API/A	5918	2660
106500331	F		SYRACUSE-31C	-8	N	PART	2	2646
106500332	F		SYRACUSE-31E	-5	N	PART	2	2642
106500333	F		SYRACUSE-31F	3	N	PART	2	2645
106500334	F		SYRACUSE-31H	47	N	PART	2	2644
105520131	F		SYRACUSE-32C	-8	C	CR/C	1644	2597
105520132	F		SYRACUSE-32E	-5	C	CR/C	1645	2597
105520133	F		SYRACUSE-32F	3	C	CR/C	1646	2597
105520134	F		SYRACUSE-32G	25	C	CR/C	1647	2597
105520135	F		SYRACUSE-32H	47	C	CR/C	1648	2597
103500371	F		SYRACUSE-3C	-8	N	PART	2	2620
103500372	F		SYRACUSE-3E	-5	N	PART	2	2616
103500373	F		SYRACUSE-3F	3	N	PART	2	2620
103500370	F		SYRACUSE-3H	47	N	PART	2	2619
106520078	F		SYRACUSE-4C	-8	C	CR/C	1820	2603
106520079	F		SYRACUSE-4E	-5	C	CR/C	1821	2603
106520080	F		SYRACUSE-4F	3	C	CR/C	1822	2603

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106520081	F		SYRACUSE-4G	25	C	CR/C	1823	2603
106520082	F		SYRACUSE-4H	47	C	CR/C	1824	2603
92500046	F		TELECOM-2A	-8	N	PART	2	2586
92500047	F		TELECOM-2B	-5	N	PART	2	2581
92500048	F		TELECOM-2C	3	N	PART	2	2583
101500604	F		TELECOM-30B	-8	N	PART	2	2552
106500317	F		TELECOM-3A	-8	N	PART	2	2604
106500351	F		TELECOM-3B	-5	N	PART	2	2606
106500316	F		TELECOM-3C	3	N	PART	2	2604
107500300	F		TELECOM-4A	-8	N	PART	2	2630
107500336	F		TELECOM-4B	-5	N	PART	2	2626
101520319	F		TELECOM-4C	3	C	CR/C	942	2494
103500345	F	ESA	VENUS EXPRESS	N-GSO	N	PART	2	2583
99543555	F		VIDEOSAT-5	-7	A	API/A	888	2399
101500513	F		VIDEOSAT-6	-8	N	PART	2	2592
107500524	F		VIDEOSAT-6-KA	-8	N	PART	2	2647
100500161	F		VIDEOSAT-7	-5	N	PART	1	2640
107500382	F		VIDEOSAT-7-KA	-5	N	PART	2	2622
107500417	F		VIDEOSAT-8-KU-C	3	N	PART	1	2648
106540724	F		VP 078E	78	A	API/A	4395	2587
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
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	A	API/A	4834	2610
107540778	F		VP-2G-E	-158	A	API/A	4835	2610
107540779	F		VP-2G-F	-170	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
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
97500403	F	ESA	XMM	N-GSO	N	PART	2	2574
109540808	G		ADS-1B	N-GSO	A	API/A	5917	2658
109540532	G		AMC-125W	-125	A	API/A	5762	2651
109540529	G		AMC-129W	-129	A	API/A	5759	2651
109540531	G		AMC-139W	-139	A	API/A	5761	2651
109540530	G		AMC-77W	-77	A	API/A	5760	2651
104520193	G		AM-SAT 125W	-125	C	CR/C	1450	2616
103520384	G		AM-SAT 172E	172	C	CR/C	1319	2569
103520022	G		AM-SAT 79W	-79	C	CR/C	1156	2558
105520079	G		AM-SAT 81W	-81	C	CR/C	1587	2616
104520232	G		AM-SAT 83W-B	-83	C	CR/C	1489	2581
103520023	G		AM-SAT 85W	-85	C	CR/C	1157	2567
103520024	G		AM-SAT 96W	-96	C	CR/C	1158	2558
109500405	G		AM-SAT A4	108.2	N	PART	2	2658
108520121	G		AM-SAT-108.2E-G	108.2	C	CR/C	2214	2643
107520157	G		AM-SAT-79W-G	-79	C	CR/C	2053	2625
103500150	G		DJCF-1A	39.5	N	PART	2	2612

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104500480	G		DJCF-1B	46	N	PART	2	2635
103500151	G		DJCF-2A	-39	N	PART	2	2603
104500319	G		DJCF-2B	-26	N	PART	2	2626
102500178	G		DMC1	N-GSO	N	PART	2	2554
107520036	G		ESAT 1	25	C	CR/C	1938	2614
107520037	G		ESAT 2	13	C	CR/C	1939	2616
108520260	G		ESAT-3	9.5	C	CR/C	2305	2636
108520261	G		ESAT-4	19	C	CR/C	2306	2636
108520262	G		ESAT-5	33	C	CR/C	2307	2636
108520263	G		ESAT-6	38	C	CR/C	2308	2636
100520118	G		GIBSAT A1	-105	C	CR/C	443	2655
100543841	G		GIBSAT-5	-139	A	API/A	1273	2603
106520012	G		GIBSAT-5B	-139	C	CR/C	1789	2600
105520081	G		GIBSAT-8B	-47	C	CR/C	1590	2616
105520082	G		GIBSAT-8B-KA	-43	C	CR/C	1589	2616
106520011	G		GIBSAT-A1-B	-105	C	CR/C	1782	2600
108520059	G		HIBLEO-KA	N-GSO	C	CR/C	2208	2646
105520109	G		ICO-G	-93	C	CR/C	1625	2588
107500097	G		ICO-P	N-GSO	N	PART	2	2609
92520068	G		INMARSAT GSO-2F	110	C	CR/C	121	2499
106500143	G		INMARSAT GSO-2H	65	N	PART	2	2658
97520322	G		INMARSAT GSO-2J	-54	C	CR/C	413	2548
102520001	G		INMARSAT GSO-2L	-53	C	CR/C	1024	2555
102540147	G		INMARSAT GSO-2M	178	A	API/A	2309	2534
102520123	G		INMARSAT GSO-2N	64	C	CR/C	1150	2558
92500069	G		INMARSAT-2 AOR EAST	-15.5	N	PART	2	2638
95500665	G		INMARSAT-2 AOR WEST	-55	N	PART	2	2638
92500070	G		INMARSAT-2 IOR 1	64.5	N	PART	2	2638
95500666	G		INMARSAT-2 POR 1	179.5	N	PART	2	2638
106500289	G		INMARSAT-2 POR EAST	-142	N	PART	2	2644
97500292	G		INMARSAT-3 AOR EAST	-15.5	N	PART	2	2632
97500293	G		INMARSAT-3 AOR EAST2	-17	N	PART	2	2592
99500052	G		INMARSAT-3 AOR WEST	-55	N	PART	2	2632
97500291	G		INMARSAT-3 AOR WEST2	-54	N	PART	2	2578
107500118	G		INMARSAT-3 AOR WEST3	-98	N	PART	2	2648
104520194	G		INMARSAT-3 AOR WEST4	-53	C	CR/C	1454	2579
103500320	G		INMARSAT-3 IOR WEST	25	N	PART	2	2644
96500418	G		INMARSAT-3 IOR-1	64	N	PART	2	2632
100500320	G		INMARSAT-3 IOR-2	65	N	PART	2	2634
106500290	G		INMARSAT-3 POR EAST	-142	N	PART	2	2660
103500319	G		INMARSAT-3 POR WEST	109	N	PART	2	2620
99500051	G		INMARSAT-3 POR-1	179	N	PART	2	2606
97500253	G		INMARSAT-3 POR-2	178	N	PART	2	2580
108501205	G		INMARSAT-3 POR-3	143.5	N	PART	2	2653
104520037	G		INMARSAT-4 104W	-104	C	CR/C	1359	2634
104520035	G		INMARSAT-4 109E	109	C	CR/C	1357	2634
104520036	G		INMARSAT-4 143.5E	143.5	C	CR/C	1358	2634
104520033	G		INMARSAT-4 25E	25	C	CR/C	1355	2634
104520034	G		INMARSAT-4 64E	64	C	CR/C	1356	2634
105520012	G		INMARSAT-4 98W	-98	C	CR/C	1530	2627
107520300	G		INMARSAT-4A 143.5E	143.5	C	CR/C	2134	2649

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107520302	G		INMARSAT-4A 15.5W	-15.5	C	CR/C	2136	2635
107520301	G		INMARSAT-4A 178E	178	C	CR/C	2135	2649
107520298	G		INMARSAT-4A 25E	25	C	CR/C	2132	2641
107520303	G		INMARSAT-4A 53W	-53	C	CR/C	2137	2635
107520299	G		INMARSAT-4A 64E	64	C	CR/C	2133	2649
107520304	G		INMARSAT-4A 98W	-98	C	CR/C	2138	2635
109540526	G		INMARSAT-KA 105W	-105	A	API/A	5757	2650
109540524	G		INMARSAT-KA 142.5E	142.5	A	API/A	5755	2650
109540527	G		INMARSAT-KA 178W	-178	A	API/A	5758	2650
109540522	G		INMARSAT-KA 25E	25	A	API/A	5753	2650
109540525	G		INMARSAT-KA 55W	-55	A	API/A	5756	2650
109540523	G		INMARSAT-KA 64E	64	A	API/A	5754	2650
105520320	G		INMARSAT-S1	8.5	C	CR/C	1722	2644
107520089	G		INMARSAT-S2	31	C	CR/C	2016	2628
107520090	G		INMARSAT-S3	61.5	C	CR/C	2017	2638
105520321	G		INMARSAT-S4	127	C	CR/C	1723	2627
105520322	G		INMARSAT-S7	-113	C	CR/C	1724	2595
106520219	G		INMARSAT-XL1	25	C	CR/C	1908	2627
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	C	CR/C	1818	2578
106520077	G		INTELSAT N KA 66E-A	66	C	CR/C	1819	2578
107540345	G		IOMBSN-101W	-101	A	API/A	4675	2599
108540407	G		IOMBSN-70W	-70	A	API/A	5264	2626
107540344	G		IOMBSN-96.5W	-96.5	A	API/A	4674	2599
108520067	G		IOMBSN-A	-115	C	CR/C	2171	2641
105520107	G		IOMSAT-11A	-115	C	CR/C	1689	2592
107540346	G		IOMSAT-123W	-123	A	API/A	4676	2599
105520103	G		IOMSAT-2A	-15	C	CR/C	1686	2592
105520104	G		IOMSAT-5A	-37.55	C	CR/C	1687	2592
105520106	G		IOMSAT-9A	-97	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	2643
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	A	API/A	4670	2599
107540341	G		IOMSAT-KA-107W	-107	A	API/A	4671	2599
107540342	G		IOMSAT-KA-113W	-113	A	API/A	4672	2599

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107540343	G		IOMSAT-KA-117W	-117	A	API/A	4673	2599
109520018	G		IOMSAT-KA-63W	-63	C	CR/C	2372	2660
107540338	G		IOMSAT-KA-76W	-76	A	API/A	4668	2599
107540339	G		IOMSAT-KA-87W	-87	A	API/A	4669	2599
109520146	G		MSV-42A	42	C	CR/C	2455	2660
109520147	G		MSV-42B	42	C	CR/C	2456	2660
108520176	G		MSV-46A	46	C	CR/C	2262	2648
108520177	G		MSV-46B	46	C	CR/C	2263	2652
108520116	G		O3B-A	N-GSO	C	CR/C	2209	2660
109540034	G		O3B-B	N-GSO	A	API/A	5524	2640
95500617	G		SKYNET-4A	-1	N	PART	2	2329
92500068	G		SKYNET-4B	6	N	PART	2	2251
95500150	G		SKYNET-4C	53	N	PART	2	2251
98500171	G		SKYNET-4D	-34	N	PART	2	2421
104500381	G		SKYNET-4J	-1	N	PART	2	2630
104500383	G		SKYNET-4K	6	N	PART	2	2642
104500384	G		SKYNET-4L	53	N	PART	2	2627
104500382	G		SKYNET-4M	-34	N	PART	2	2627
102520115	G		SKYNET-5A	-34	C	CR/C	1074	2559
109520044	G		SKYNET-5A-KA	-34	C	CR/C	2378	2645
108501024	G		SKYNET-5B	-1	N	PART	2	2660
109520045	G		SKYNET-5B-KA	-1	C	CR/C	2379	2645
108501025	G		SKYNET-5C	6	N	PART	2	2660
109520046	G		SKYNET-5C-KA	6	C	CR/C	2380	2645
102520118	G		SKYNET-5D	53	C	CR/C	1077	2559
109520047	G		SKYNET-5D-KA	53	C	CR/C	2381	2645
105520004	G		SKYNET-5E	-17.8	C	CR/C	1532	2625
108520259	G		SKYNET-5F	35.5	C	CR/C	2304	2652
106520130	G		SKYNET-IOR3	89	C	CR/C	1866	2605
106520199	G		SNS	N-GSO	C	CR/C	1897	2616
106520231	G		TERRESTAR EUR	-15.4	C	CR/C	1917	2617
106520088	G		UKDIGISAT-3	-33.5	C	CR/C	1829	2638
109540547	G		UKMMSAT-A1	-39.5	A	API/A	5775	2653
109540548	G		UKMMSAT-A2	-27.5	A	API/A	5776	2653
109540549	G		UKMMSAT-B1	25	A	API/A	5777	2653
109540550	G		UKMMSAT-B2	37	A	API/A	5778	2653
109540551	G		UKMMSAT-C1	55.5	A	API/A	5779	2653
109540552	G		UKMMSAT-C2	67.5	A	API/A	5780	2653
109540556	G		UKPAC-1	170	A	API/A	5783	2653
104520041	G		UKSAT-1	23.5	C	CR/C	1367	2573
104520050	G		UKSAT-10	-95	C	CR/C	1365	2573
104520051	G		UKSAT-11	-113	C	CR/C	1366	2573
104520114	G		UKSAT-12	-97	C	CR/C	1418	2576
107520279	G		UKSAT-13	-97	C	CR/C	2118	2635
107520280	G		UKSAT-14	-107	C	CR/C	2119	2635
107520281	G		UKSAT-15	-91	C	CR/C	2120	2635
107520282	G		UKSAT-16	-109	C	CR/C	2121	2635
107520283	G		UKSAT-17	-95	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	C	CR/C	1370	2573

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104520045	G		UKSAT-5	100.5	C	CR/C	1371	2573
104520046	G		UKSAT-6	107.8	C	CR/C	1372	2573
103540620	G		UKSAT-7	-99	A	API/A	2891	2505
103540621	G		UKSAT-8	-101	A	API/A	2892	2505
103540622	G		UKSAT-9	-103	A	API/A	2893	2505
108520061	G		UKSAT-KU-1	-47.5	C	CR/C	2163	2640
108520062	G		UKSAT-KU-2	-50	C	CR/C	2164	2640
107540546	G		UKSAT-KU-3	-64	A	API/A	4727	2604
108520063	G		UKSAT-KU-4	-76	C	CR/C	2165	2640
108520064	G		UKSAT-KU-5	-84	C	CR/C	2166	2640
108520065	G		UKSAT-KU-6	-86	C	CR/C	2167	2640
102540150	G		USAT-S1	-105.5	A	API/A	2312	2595
102500251	GRC		HELLAS-SAT	39	N	PART	2	2586
108520033	GRC		HELLAS-SAT-2G	39	C	CR/C	2168	2640
100500446	HNG		CERES-1	-4	N	PART	2	2539
109540291	HNG		MASAT-1	N-GSO	A	API/A	5585	2656
107520029	HOL		BSSNET101W	-101	C	CR/C	1931	2610
107520030	HOL		BSSNET105.5W	-105.5	C	CR/C	1932	2610
107520031	HOL		BSSNET110W	-110	C	CR/C	1933	2610
107520032	HOL		BSSNET114.5W	-114.5	C	CR/C	1934	2610
107520033	HOL		BSSNET119W	-119	C	CR/C	1935	2610
107520248	HOL		BSSNET2-103W	-103	C	CR/C	2102	2632
107520249	HOL		BSSNET2-107W	-107	C	CR/C	2103	2632
107520250	HOL		BSSNET2-111W	-111	C	CR/C	2104	2632
107520251	HOL		BSSNET2-115W	-115	C	CR/C	2105	2632
107520252	HOL		BSSNET2-119W	-119	C	CR/C	2106	2632
107520246	HOL		BSSNET2-95W	-95	C	CR/C	2100	2632
107520247	HOL		BSSNET2-99W	-99	C	CR/C	2101	2632
107520028	HOL		BSSNET96.5W	-96.5	C	CR/C	1930	2610
107500088	HOL		DELFI-C3	N-GSO	N	PART	2	2628
98500068	HOL		INTELSAT IBS 183E	-177	N	PART	2	2464
92500290	HOL		INTELSAT IBS 319.5E	-40.5	N	PART	2	
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	N	PART	2	2560
92500212	HOL		INTELSAT5 183E	-177	N	PART	2	2366
96500436	HOL		INTELSAT5A 183E	-177	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	N	PART	1	2640
92500181	HOL		INTELSAT5A INDOC2	57	N	PART	2	2366
102500289	HOL		INTELSAT7 183E	-177	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	N	PART	2	2545
105500699	HOL		INTELSAT7 95E	95	N	PART	2	2580
101500408	HOL		INTELSAT8 183E	-177	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	N	PART	2	2579
102500434	HOL		INTELSAT8 95E	95	N	PART	2	2571

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105520138	HOL		NSS-14A	-133	C	CR/C	1659	2590
106500323	HOL		NSS-16	-22	N	PART	2	2643
107540749	HOL		NSS-16A	-22	A	API/A	4808	2609
106500346	HOL		NSS-18	-40.5	N	PART	2	2644
107540750	HOL		NSS-18A	-40.5	A	API/A	4809	2609
106500362	HOL		NSS-19	-177	N	PART	2	2644
107540751	HOL		NSS-19A	-177	A	API/A	4810	2609
101520006	HOL		NSS-20	2	C	CR/C	828	2654
107540752	HOL		NSS-20A	2	A	API/A	4811	2609
107540753	HOL		NSS-24A	83	A	API/A	4812	2609
107500153	HOL		NSS-31	-20	N	PART	2	2648
107540754	HOL		NSS-31A	-20	A	API/A	4813	2609
108500015	HOL		NSS-32	1	N	PART	2	2658
103520005	HOL		NSS-35	-40.5	C	CR/C	1162	2558
103520006	HOL		NSS-36	57	C	CR/C	1167	2513
104520039	HOL		NSS-37	45	C	CR/C	1387	2540
107540755	HOL		NSS-37A	45	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	C	CR/C	1531	2585
105540789	HOL		NSS-55	51	A	API/A	3920	2560
106520074	HOL		NSS-57	-40.5	C	CR/C	1850	2603
106540748	HOL		NSS-59	-177	A	API/A	4424	2587
106540749	HOL		NSS-60	-155	A	API/A	4425	2587
107540757	HOL		NSS-60A	-155	A	API/A	4816	2609
106540750	HOL		NSS-61	-145	A	API/A	4426	2587
106540751	HOL		NSS-62	-143	A	API/A	4427	2587
107540758	HOL		NSS-62A	-143	A	API/A	4817	2609
106540752	HOL		NSS-63	-137	A	API/A	4428	2587
106540753	HOL		NSS-64	-135	A	API/A	4429	2587
106540754	HOL		NSS-65	-131	A	API/A	4430	2587
107540759	HOL		NSS-65A	-131	A	API/A	4818	2609
106540755	HOL		NSS-66	-90	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	A	API/A	4433	2587
107540761	HOL		NSS-68A	-60	A	API/A	4820	2609
106540758	HOL		NSS-69	-40.5	A	API/A	4434	2587
106540759	HOL		NSS-70	-32	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	A	API/A	4437	2587
106540762	HOL		NSS-73	-20	A	API/A	4438	2587
106540763	HOL		NSS-74	2	A	API/A	4439	2587
106540764	HOL		NSS-75	35.5	A	API/A	4440	2587
106540765	HOL		NSS-76	38	A	API/A	4441	2587
106540766	HOL		NSS-77	42.5	A	API/A	4442	2587
106540767	HOL		NSS-78	45	A	API/A	4443	2587
108520269	HOL		NSS-79	50.75	C	CR/C	2316	2653
105500391	HOL		NSS-8	57	N	PART	2	2652
106540769	HOL		NSS-80	57	A	API/A	4445	2587

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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	2648
107540747	HOL		NSS-8A	57	A	API/A	4806	2609
105500498	HOL		NSS-9	95	N	PART	2	2652
107540748	HOL		NSS-9A	95	A	API/A	4807	2609
108540476	HOL		NSS-G1-1	109	A	API/A	5312	2629
108540477	HOL		NSS-G1-2	144	A	API/A	5313	2629
108540478	HOL		NSS-G1-3	178	A	API/A	5314	2629
109520124	HOL		NSS-G2-1	-177	C	CR/C	2422	2654
108540602	HOL		NSS-G2-10	-37.5	A	API/A	5375	2636
109520125	HOL		NSS-G2-11	-22	C	CR/C	2423	2654
109520126	HOL		NSS-G2-12	-20	C	CR/C	2424	2654
108540605	HOL		NSS-G2-13	2	A	API/A	5378	2636
108540606	HOL		NSS-G2-14	35.5	A	API/A	5379	2636
109520127	HOL		NSS-G2-15	42.5	C	CR/C	2419	2653
108540608	HOL		NSS-G2-16	51	A	API/A	5381	2636
109520128	HOL		NSS-G2-17	57	C	CR/C	2420	2653
109520129	HOL		NSS-G2-18	95	C	CR/C	2421	2653
108540611	HOL		NSS-G2-19	108.2	A	API/A	5384	2636
108540594	HOL		NSS-G2-2	-155	A	API/A	5367	2636
108540612	HOL		NSS-G2-20	141.5	A	API/A	5385	2636
109540359	HOL		NSS-G2-21	-47.5	A	API/A	5628	2646
108540595	HOL		NSS-G2-3	-148	A	API/A	5368	2636
108540596	HOL		NSS-G2-4	-143	A	API/A	5369	2636
108540597	HOL		NSS-G2-5	-133	A	API/A	5370	2636
108540598	HOL		NSS-G2-6	83	A	API/A	5371	2636
108540599	HOL		NSS-G2-7	-68.7	A	API/A	5372	2658
108540600	HOL		NSS-G2-8	-58	A	API/A	5373	2636
108540601	HOL		NSS-G2-9	-40.5	A	API/A	5374	2636
103520063	HOL		NSS-KA18	-125	C	CR/C	1186	2516
104520011	HOL		NSS-KA21	-20	C	CR/C	1360	2537
104520014	HOL		NSS-KA25	1	C	CR/C	1352	2536
105520024	HOL		NSS-KA29	-148	C	CR/C	1534	2554
105520102	HOL		NSS-KA34	-58	C	CR/C	1610	2559
105520025	HOL		NSS-KA37	-22	C	CR/C	1535	2554
105520026	HOL		NSS-KA38	55	C	CR/C	1536	2554
105520027	HOL		NSS-KA39	57	C	CR/C	1537	2554
105520130	HOL		NSS-KA40	60	C	CR/C	1649	2561
105520028	HOL		NSS-KA41	95	C	CR/C	1538	2554
106540615	HOL		OSAT	N-GSO	A	API/A	4377	2588
108520277	HOL		OSAT GE	29.6	C	CR/C	2317	2656
108520278	HOL		OSAT GW	-10.2	C	CR/C	2318	2656
106500322	I		AGILE	N-GSO	N	PART	2	2647
104500001	I		COSMO SKYMED	N-GSO	N	PART	2	2647
103500082	I	GLS	GALILEO-M-NAVSTAR	N-GSO	N	PART	2	2639
105500442	I		GEA SAT D	N-GSO	N	PART	2	2607
109540515	I		INTERACT-KA	9	A	API/A	5747	2650
109540054	I		NEWSAT-1A	1	A	API/A	5539	2644
109540055	I		NEWSAT-1B	30.8	A	API/A	5540	2644

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109540544	I		PRISMA-I	N-GSO	A	API/A	5774	2655
102500428	I		SICRAL-2A	16.2	N	PART	2	2621
104520060	I		SICRAL-3A	16.2	C	CR/C	1391	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	2652
107520137	I		SICRAL-4-37E	37	C	CR/C	2040	2623
90504397	IND		ASLV	N-GSO	N	PART	2	
107540050	IND		CHANDRAYAAN-1	N-GSO	A	API/A	4508	2604
108520136	IND		ESSELSAT-1	98.5	C	CR/C	2228	2629
104540474	IND		HAMSAT	N-GSO	A	API/A	3291	2591
90500588	IND		INSAT-1B	74	N	PART	2	
90500590	IND		INSAT-1C	93.5	N	PART	2	
90500583	IND		INSAT-1D	83	N	PART	2	
102500130	IND		INSAT-2(111.5)	111.5	N	PART	2	2544
101500482	IND		INSAT-2(48)	48	N	PART	2	2620
102500027	IND		INSAT-2(55)	55	N	PART	2	2583
90504231	IND		INSAT-2(74)	74	N	PART	2	2133
90504228	IND		INSAT-2(83)	83	N	PART	2	2257
90504230	IND		INSAT-2(93.5)	93.5	N	PART	2	2164
91500221	IND		INSAT-2A	83	N	PART	2	2544
91500222	IND		INSAT-2B	93.5	N	PART	2	2544
91500223	IND		INSAT-2C	74	N	PART	2	2544
104500369	IND		INSAT-2E74	74	N	PART	2	2653
95520201	IND		INSAT-2E82	82	C	CR/C	1989	2598
102500028	IND		INSAT-2E83	83	N	PART	2	2573
95520199	IND		INSAT-2E93.5	93.5	C	CR/C	2265	2633
97500420	IND		INSAT-2K (74)	74	N	PART	2	2412
100500088	IND		INSAT-2K (83)	83	N	PART	2	2491
97500421	IND		INSAT-2K (93.5)	93.5	N	PART	2	2412
106500257	IND		INSAT-2M (48)	48	N	PART	2	2629
106500256	IND		INSAT-2M (74)	74	N	PART	2	2629
106500315	IND		INSAT-2M (83)	83	N	PART	2	2629
106500255	IND		INSAT-2M (93.5)	93.5	N	PART	2	2629
106500254	IND		INSAT-2T (48)	48	N	PART	2	2586
105500708	IND		INSAT-2T (55)	55	N	PART	2	2583
105500707	IND		INSAT-2T (74)	74	N	PART	2	2583
105500709	IND		INSAT-2T (93.5)	93.5	N	PART	2	2583
109520043	IND		INSAT-C/KU(86)	86	C	CR/C	2383	2646
96520358	IND		INSAT-EK48	48	C	CR/C	1991	2598
108500669	IND		INSAT-EK48R	48	N	PART	2	2652
96520359	IND		INSAT-EK55	55	C	CR/C	1990	2598
105500128	IND		INSAT-EK55R	55	N	PART	2	2652
108500976	IND		INSAT-EK74	74	N	PART	2	2652
105500126	IND		INSAT-EK74R	74	N	PART	2	2657
108500668	IND		INSAT-EK83	83	N	PART	2	2652
108500575	IND		INSAT-EK83R	83	N	PART	2	2658
108500577	IND		INSAT-EK93.5	93.5	N	PART	2	2652
108500576	IND		INSAT-EK93.5R	93.5	N	PART	2	2655

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107500528	IND		INSAT-EXC55E	55	N	PART	2	2624
108540156	IND		INSAT-G5(111.5)	111.5	A	API/A	5086	2616
108540150	IND		INSAT-G5(48)	48	A	API/A	5080	2616
108540151	IND		INSAT-G5(55)	55	A	API/A	5081	2616
108540152	IND		INSAT-G5(74)	74	A	API/A	5082	2616
108540153	IND		INSAT-G5(82)	82	A	API/A	5083	2616
108540154	IND		INSAT-G5(83)	83	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	C	CR/C	2046	2607
107520150	IND		INSAT-KA55	55	C	CR/C	2047	2607
107520151	IND		INSAT-KA74	74	C	CR/C	2048	2607
108520040	IND		INSAT-KA82	82	C	CR/C	2200	2625
107520152	IND		INSAT-KA83	83	C	CR/C	2049	2607
107520153	IND		INSAT-KA93.5	93.5	C	CR/C	2050	2607
108520317	IND		INSAT-KAUHF (74)	74	C	CR/C	2358	2659
108520318	IND		INSAT-KAUHF (83)	83	C	CR/C	2359	2659
108520319	IND		INSAT-KAUHF (93.5)	93.5	C	CR/C	2360	2659
105520071	IND		INSAT-KU10(111.5)E	111.5	C	CR/C	1585	2558
105520067	IND		INSAT-KU10(48)E	48	C	CR/C	1581	2558
104520208	IND		INSAT-KU10(55)E	55	C	CR/C	1473	2547
105520068	IND		INSAT-KU10(74)E	74	C	CR/C	1582	2558
105520069	IND		INSAT-KU10(83)E	83	C	CR/C	1583	2558
105520070	IND		INSAT-KU10(93.5)E	93.5	C	CR/C	1584	2558
109540570	IND		INSAT-KU11(111.5)E	111.5	A	API/A	5789	2654
109540566	IND		INSAT-KU11(48)E	48	A	API/A	5785	2654
109520202	IND		INSAT-KU11(55)E	55	C	CR/C	2450	2658
109540567	IND		INSAT-KU11(74)E	74	A	API/A	5786	2654
109540568	IND		INSAT-KU11(83)E	83	A	API/A	5787	2654
109540569	IND		INSAT-KU11(93.5)E	93.5	A	API/A	5788	2654
108520076	IND		INSAT-KU113.5	113.5	C	CR/C	2301	2636
108520077	IND		INSAT-KU117.5	117.5	C	CR/C	2302	2636
108520078	IND		INSAT-KU123.5	123.5	C	CR/C	2303	2636
107540508	IND		INSAT-KU71.5	71.5	A	API/A	4714	2602
107520224	IND		INSAT-KU78	78	C	CR/C	2093	2614
107520225	IND		INSAT-KU88	88	C	CR/C	2094	2614
102540130	IND		INSAT-MET(82E)	82	A	API/A	2306	2471
102540131	IND		INSAT-MET(94E)	94	A	API/A	2307	2594
109540439	IND		INSAT-MET48E	48	A	API/A	5686	2649
109540440	IND		INSAT-MET55E	55	A	API/A	5687	2649
109540441	IND		INSAT-MET74E	74	A	API/A	5688	2649
109540761	IND		INSAT-MET81.5E	81.5	A	API/A	5905	2660
109540442	IND		INSAT-MET82E	82	A	API/A	5689	2649
109540443	IND		INSAT-MET83E	83	A	API/A	5690	2649
109540444	IND		INSAT-MET93.5E	93.5	A	API/A	5691	2649
108520016	IND		INSAT-MSS-NG(111.5)	111.5	C	CR/C	2207	2652
108520011	IND		INSAT-MSS-NG(48)	48	C	CR/C	2217	2644
108520012	IND		INSAT-MSS-NG(55)	55	C	CR/C	2218	2644
108520013	IND		INSAT-MSS-NG(74)	74	C	CR/C	2219	2644
108520014	IND		INSAT-MSS-NG(83)	83	C	CR/C	2205	2652
108520015	IND		INSAT-MSS-NG(93.5)	93.5	C	CR/C	2206	2652

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108520070	IND		INSAT-NAV(131.5)	131.5	C	CR/C	2204	2657
106520155	IND		INSAT-NAV(132)	132	C	CR/C	1887	2618
106520153	IND		INSAT-NAV(34)	34	C	CR/C	1885	2618
107520285	IND		INSAT-NAV(55)	55	C	CR/C	2123	2635
104520332	IND		INSAT-NAV(82)	82	C	CR/C	1520	2598
106520154	IND		INSAT-NAV(83)	83	C	CR/C	1886	2609
108520075	IND		INSAT-NAV-A(132)	132	C	CR/C	2198	2642
108520073	IND		INSAT-NAV-A(34)	34	C	CR/C	2196	2657
108520074	IND		INSAT-NAV-A(83)	83	C	CR/C	2197	2657
108520024	IND		INSAT-NAV-A-GS	N-GSO	C	CR/C	2160	2657
106520156	IND		INSAT-NAV-GS	N-GSO	C	CR/C	1892	2609
107520115	IND		INSAT-TTC(111.5)E	111.5	C	CR/C	2032	2635
107520110	IND		INSAT-TTC(48)E	48	C	CR/C	2027	2635
107520111	IND		INSAT-TTC(55)E	55	C	CR/C	2028	2635
107520112	IND		INSAT-TTC(74)E	74	C	CR/C	2029	2635
109540754	IND		INSAT-TTC(81.5)E	81.5	A	API/A	5899	2658
109520051	IND		INSAT-TTC(82)E	82	C	CR/C	2449	2658
107520113	IND		INSAT-TTC(83)E	83	C	CR/C	2030	2635
107520114	IND		INSAT-TTC(93.5)E	93.5	C	CR/C	2031	2635
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
109540888	IND		OCEANSAT-2	N-GSO	A	API/A	5953	2660
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	2644
94520235	INS		GARUDA-1	118	C	AR11/C	2526	2444
94520235	INS		GARUDA-1	118	C	RES46/C	153	2444
103520019	INS		GARUDA-1A	118	C	CR/C	1168	2513
105500155	INS		GARUDA-2	123	N	PART	2	2653
104520159	INS		GARUDA-4A	80.5	C	CR/C	1483	2581
99500073	INS		INDOSTAR-1	107.7	N	PART	2	2646
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	C	CR/C	2110	2616
108520042	INS		INDOSTAR-110E-K	110	C	CR/C	2283	2635
107520012	INS		INDOSTAR-118E	118	C	CR/C	1941	2613
107520172	INS		INDOSTAR-1A	107.7	C	CR/C	2068	2637
108540584	INS		LAPANSAT	N-GSO	A	API/A	5348	2650
105500657	INS		LAPAN-TUBSAT	N-GSO	N	PART	2	2609
107520158	INS		PALAPA PAC-3R	144	C	CR/C	2072	2621
99520001	INS		PALAPA PAC-C 146E	146	C	CR/C	9	2461
104500391	INS		PALAPA PACIFIC-3	144	N	PART	2	2645
108500599	INS		PALAPA PAC-KU 146E	146	N	PART	2	2660

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90500037	INS		PALAPA-B1	108	N	PART	2	2648
107500144	INS		PALAPA-B1-EC	108	N	PART	2	2647
90500039	INS		PALAPA-B2	113	N	PART	2	2258
90500001	INS		PALAPA-B3	118	N	PART	2	2526
105520066	INS		PALAPA-B3 TT&C	118	C	CR/C	1678	2565
97520054	INS		PALAPA-B3-EC	118	C	CR/C	2247	2632
102500197	INS		PALAPA-C1	113	N	PART	2	2660
103500163	INS		PALAPA-C2	108	N	PART	2	2648
107500427	INS		PALAPA-C3	118	N	PART	2	2652
106500321	INS		PALAPA-C3-X	118	N	PART	2	2644
106500566	INS		PALAPA-C4	150.5	N	PART	2	2639
109520091	INS		PALAPA-C4-A	150.5	C	CR/C	2403	2649
109540013	INS		PALAPA-C4-K	150.5	A	API/A	5508	2639
108520068	INS		TELKOM-3EK	118	C	CR/C	2296	2635
109540571	IRN		AUTSAT	N-GSO	A	API/A	5792	2654
101500402	IRN		MESBAH	N-GSO	N	PART	2	2632
107540635	IRN		MESBAH-2	N-GSO	A	API/A	4787	2621
108540404	IRN		OMID	N-GSO	A	API/A	5261	2647
105500147	IRN		SINA-1	N-GSO	N	PART	2	2632
93500331	IRN		ZOHREH-1	34	N	PART	2	2658
93500332	IRN		ZOHREH-2	26	N	PART	2	2192
93500333	IRN		ZOHREH-3	47	N	PART	2	2658
107540638	IRN		ZOHREH-3A/PETROSAT	47	A	API/A	4789	2608
99500251	ISR		AMOS 1-B	-4	N	PART	2	2575
101520379	ISR		AMOS 2-B	-4	C	CR/C	1054	2655
106520010	ISR		AMOS 3-A	-4	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	N	PART	2	2549
107540172	ISR		AMS-4-61E	61	A	API/A	4620	2597
107540173	ISR		AMS-4-63E	63	A	API/A	4621	2597
107520263	ISR		AMS-4-65E	65	C	CR/C	2109	2633
108520027	ISR		AMS-4-67.25E	67.25	C	CR/C	2147	2638
109540921	ISR		AMS-4A-65E	65	A	API/A	5961	2660
109520132	ISR		AMS-CK-22.75E	22.75	C	CR/C	2429	2654
107540823	ISR		AMS-CK-30.5E	30.5	A	API/A	4867	2612
107540321	ISR		AMS-CK-36E	36	A	API/A	4680	2599
107540318	ISR		AMS-CK-3W	-3	A	API/A	4677	2599
107540824	ISR		AMS-CK-45E	45	A	API/A	4868	2612
107540319	ISR		AMS-CK-6E	6	A	API/A	4678	2599
100500371	ISR		EROS	N-GSO	N	PART	2	2554
108540428	ISR		SPARTAN I	-137	A	API/A	5271	2627
108540429	ISR		SPARTAN II	-123	A	API/A	5272	2627
108540430	ISR		SPARTAN III	-129	A	API/A	5273	2627
107500101	J		ALOS	N-GSO	N	PART	2	2627
108520003	J		ALOSSAR	N-GSO	C	CR/C	2199	2642
106540471	J		AS20-01	N-GSO	A	API/A	4288	2580
109540438	J		ASNARO	N-GSO	A	API/A	5692	2660
100500051	J		ASTRO-E	N-GSO	N	PART	2	2582
106500126	J		ASTRO-F	N-GSO	N	PART	2	2608
105520064	J		BBISS-A	143	C	CR/C	1570	2585

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105520065	J		BBISS-C	146	C	CR/C	1571	2585
90500073	J		BS-3	110	N	PART	2	
103500094	J		BS-3N	109.85	N	PART	2	2607
100500188	J		BSAT-109.85	109.85	N	PART	2	2648
100500189	J		BSAT-110	110	N	PART	2	2648
90500122	J		CS-3B	136	N	PART	2	
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
105500223	J		DRTS-90.75E	90.75	N	PART	2	2632
107500244	J		D-STAR-1	132	N	PART	2	2654
98520847	J		D-STAR-2	136	C	CR/C	273	2610
104520333	J		ETS-8	146	C	CR/C	1518	2584
97520142	J		ETS-8-129E	129	C	CR/C	887	2655
97520143	J		ETS-8-135E	135	C	CR/C	888	2655
107540073	J		EXCELSIOR	N-GSO	A	API/A	4531	2605
90504408	J		EXOS-D	N-GSO	N	PART	2	2643
108540720	J		GCOM-W1	N-GSO	A	API/A	5501	2653
92500295	J		GEOTAIL	N-GSO	N	PART	2	2616
90500464	J		GMS-120E	120	N	PART	2	
95500020	J		GMS-140E	140	N	PART	2	2356
90500472	J		GMS-160E	160	N	PART	2	
109500024	J		GOSAT	N-GSO	N	PART	2	2647
109540365	J		HIMAWARI-8-140E	140.7	A	API/A	5632	2646
109540366	J		HIMAWARI-8-143E	143.3	A	API/A	5633	2646
106540270	J		HIT-SAT	N-GSO	A	API/A	4228	2579
108540582	J		HORYU	N-GSO	A	API/A	5346	2650
106540046	J		HTV-R	N-GSO	A	API/A	4019	2565
108540583	J		IKAROS	N-GSO	A	API/A	5347	2660
105500237	J		INDEX-1	N-GSO	N	PART	2	2607
109500008	J		ISS-JEM-ICS-R	N-GSO	N	PART	2	2658
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
90500066	J		JCSAT-1	150	N	PART	2	2510
103500133	J		JCSAT-1R	150	N	PART	2	2611
90500242	J		JCSAT-2	154	N	PART	2	2510
103500132	J		JCSAT-2R	154	N	PART	2	2639
103500134	J		JCSAT-3A	128	N	PART	2	2642
103500135	J		JCSAT-3B	124	N	PART	2	2631
103520056	J		JCSAT-FO-124E	124	C	CR/C	1233	2564
108501222	J		JCSAT-FO-128E	128	N	PART	2	2655
103520058	J		JCSAT-FO-132E	132	C	CR/C	1235	2564
108501219	J		JCSAT-FO-136E	136	N	PART	2	2655
105500535	J		JCSAT-FO-150E	150	N	PART	2	2637
103520061	J		JCSAT-FO-154E	154	C	CR/C	1238	2564
102520197	J		JCSAT-T-127.5E	127.5	C	CR/C	1142	2655
104500620	J		JMCS-1	144	N	PART	2	2612
105500335	J		JMCS-1R	144	N	PART	2	2653
107500115	J		JMCS-2	110	N	PART	2	2658
105500336	J		JMCS-3A	158	N	PART	2	2652

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105500227	J		JMCS-3B	162	N	PART	2	2606
106520228	J		JMCS-72E	72	C	CR/C	1914	2609
106520229	J		JMCS-82E	82	C	CR/C	1915	2609
106520230	J		JMCS-93E	93	C	CR/C	1916	2609
108520005	J		JMCS-A4-X	158	C	CR/C	2152	2638
108520006	J		JMCS-B4-X	162	C	CR/C	2153	2638
104520331	J		JMCS-C2-X	144	C	CR/C	1515	2584
108520007	J		JMCS-D2-X	110	C	CR/C	2154	2638
108540587	J		JOSHO	N-GSO	A	API/A	5349	2650
106540716	J		KAGSAT	N-GSO	A	API/A	4422	2587
107540234	J		KKS-1	N-GSO	A	API/A	4647	2612
105500039	J		MTSAT-140E	140	N	PART	2	2609
102520152	J		MTSAT-B-140E	140	C	CR/C	1096	2638
106500136	J		MTSAT-B-145E	145	N	PART	2	2641
107520018	J		MTSAT-C-135E	135	C	CR/C	1945	2631
107520019	J		MTSAT-C-140E	140	C	CR/C	1946	2615
107520020	J		MTSAT-C-145E	145	C	CR/C	1947	2615
97500353	J		MUSES-B	N-GSO	N	PART	2	2555
107500169	J		MUSES-C	N-GSO	N	PART	2	2653
107540215	J		NANO-JASMINE	N-GSO	A	API/A	4637	2612
109540294	J		NBSAT-21A	110	A	API/A	5588	2645
109540295	J		NBSAT-21B	109.85	A	API/A	5589	2645
109540296	J		NBSAT-21C	109.65	A	API/A	5590	2645
101500489	J		N-SAT-110	110	N	PART	2	2635
108501100	J		N-SAT-110E	110	N	PART	2	2652
107520016	J		N-SAT-118E	118	C	CR/C	1984	2617
108520048	J		N-SAT-124E	124	C	CR/C	2229	2645
106500574	J		N-SAT-127W	-127	N	PART	2	2645
101500531	J		N-SAT-128	128	N	PART	2	2616
108520049	J		N-SAT-128E	128	C	CR/C	2230	2645
108500022	J		N-SAT-143.72E	143.72	N	PART	2	2657
107540550	J		N-SAT-144E	144	A	API/A	4731	2604
97500365	J		N-SAT-146	144	N	PART	2	2654
109520032	J		N-SAT-150.5E	150.5	C	CR/C	2443	2657
109520033	J		N-SAT-154E	154	C	CR/C	2444	2657
107540551	J		N-SAT-158E	158	A	API/A	4732	2604
108520043	J		N-SAT-162E	162	C	CR/C	2169	2641
108520175	J		N-SAT2-110E	110	C	CR/C	2361	2659
109520034	J		N-SAT2-144E	144	C	CR/C	2445	2658
109520035	J		N-SAT2-158E	158	C	CR/C	2446	2658
109520036	J		N-SAT2-162E	162	C	CR/C	2447	2658
106540302	J		N-SAT2-164W	-164	A	API/A	4278	2578
106540303	J		N-SAT2-165W	-165	A	API/A	4279	2578
107520013	J		N-SAT2-173W	-173	C	CR/C	1944	2616
106540305	J		N-SAT2-180E	180	A	API/A	4281	2578
106520234	J		N-SAT-72E	72	C	CR/C	1918	2609
108520045	J		N-SAT-75E	75	C	CR/C	2157	2640
106520235	J		N-SAT-82E	82	C	CR/C	1919	2609
106520203	J		N-SAT-85.15E	85.15	C	CR/C	1899	2611
106520202	J		N-SAT-85E	85	C	CR/C	1898	2611
106520236	J		N-SAT-88E	88	C	CR/C	1920	2609

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106520237	J		N-SAT-90.75E	90.75	C	CR/C	1921	2609
106520238	J		N-SAT-93E	93	C	CR/C	1922	2609
106520204	J		N-SAT-97.8E	97.8	C	CR/C	1900	2611
106520205	J		N-SAT-98.5E	98.5	C	CR/C	1901	2611
109540331	J		N-SAT-A-103W	-103	A	API/A	5617	2646
109540332	J		N-SAT-A-109.2W	-109.2	A	API/A	5618	2646
109540313	J		N-SAT-A-11.5E	11.5	A	API/A	5599	2646
109540333	J		N-SAT-A-119W	-119	A	API/A	5619	2646
109540334	J		N-SAT-A-127W	-127	A	API/A	5620	2646
109540321	J		N-SAT-A-13.5W	-13.5	A	API/A	5607	2646
109540335	J		N-SAT-A-139W	-139	A	API/A	5621	2646
109540336	J		N-SAT-A-147W	-147	A	API/A	5622	2646
109540337	J		N-SAT-A-155W	-155	A	API/A	5623	2646
109540338	J		N-SAT-A-167W	-167	A	API/A	5624	2646
109540312	J		N-SAT-A-1E	1	A	API/A	5598	2646
109540322	J		N-SAT-A-21.5W	-21.5	A	API/A	5608	2646
109540314	J		N-SAT-A-22.5E	22.5	A	API/A	5600	2646
109540315	J		N-SAT-A-29.5E	29.5	A	API/A	5601	2646
109540323	J		N-SAT-A-29.5W	-29.5	A	API/A	5609	2646
109540316	J		N-SAT-A-35E	35	A	API/A	5602	2646
109540324	J		N-SAT-A-39W	-39	A	API/A	5610	2646
109540317	J		N-SAT-A-44E	44	A	API/A	5603	2646
109540325	J		N-SAT-A-47.5W	-47.5	A	API/A	5611	2646
109540318	J		N-SAT-A-54E	54	A	API/A	5604	2646
109540326	J		N-SAT-A-59W	-59	A	API/A	5612	2646
109540319	J		N-SAT-A-63E	63	A	API/A	5605	2646
109540327	J		N-SAT-A-67.5W	-67.5	A	API/A	5613	2646
109540328	J		N-SAT-A-75W	-75	A	API/A	5614	2646
109540329	J		N-SAT-A-81W	-81	A	API/A	5615	2660
109540320	J		N-SAT-A-8W	-8	A	API/A	5606	2660
109540330	J		N-SAT-A-96W	-96	A	API/A	5616	2646
104500548	J		N-SAT-HEO2	N-GSO	N	PART	2	2603
104520018	J		N-SAT-HEO3	N-GSO	C	CR/C	1342	2616
108520047	J		N-SAT-M-132E	132	C	CR/C	2158	2645
107520195	J		N-SAT-M-136E	136	C	CR/C	2078	2645
107520196	J		N-SAT-M-150E	150	C	CR/C	2079	2645
107520017	J		N-SAT-T-126.4E	126.4	C	CR/C	2034	2604
95500133	J		N-STAR-A	132	N	PART	2	2609
98520844	J		N-STAR-A2	132	C	CR/C	1179	2639
95500571	J		N-STAR-B	136	N	PART	2	2616
105500530	J		N-STAR-B2	136	N	PART	1	2646
107520217	J		N-STAR-E	136	C	CR/C	2083	2631
107520218	J		N-STAR-F	132	C	CR/C	2084	2631
108500014	J		OICETS-R	N-GSO	N	PART	2	2635
107540001	J		PLANET-C	N-GSO	A	API/A	4457	2653
107540072	J		PRISM1	N-GSO	A	API/A	4530	2616
106540666	J		PRISM2	N-GSO	A	API/A	4383	2653
107520015	J		QZSS-1	N-GSO	C	CR/C	1952	2623
107500049	J		SB-SAT-144	144	N	PART	2	2645
103520215	J		SB-SAT-A-135	135	C	CR/C	1245	2522
103520216	J		SB-SAT-A-144	144	C	CR/C	1246	2522

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103520217	J		SB-SAT-A-154	154	C	CR/C	1247	2522
104520008	J		SB-SAT-L-135	135	C	CR/C	1343	2571
104520009	J		SB-SAT-L-144	144	C	CR/C	1344	2571
104520010	J		SB-SAT-L-154	154	C	CR/C	1345	2571
107540501	J		SDS-1	N-GSO	A	API/A	4707	2656
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
101500530	J		SJC-1	124	N	PART	2	2636
107540102	J		SOHLA1	N-GSO	A	API/A	4554	2610
109500015	J		SOHLA-1	N-GSO	N	PART	2	2651
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	2645
107540176	J		SORUNSAT-1	N-GSO	A	API/A	4624	2612
109500014	J		SPRITE-SAT	N-GSO	N	PART	2	2649
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
90500373	J		SUPERBIRD-A	158	N	PART	2	2655
104500273	J		SUPERBIRD-A2	158	N	PART	2	2655
104500274	J		SUPERBIRD-A2-KA	158	N	PART	2	2653
106500017	J		SUPERBIRD-A2-R	158	N	PART	2	2640
90500376	J		SUPERBIRD-B	162	N	PART	2	2656
103500226	J		SUPERBIRD-B2	162	N	PART	2	2616
106500434	J		SUPERBIRD-B2-KA	162	N	PART	2	2649
103520213	J		SUPERBIRD-B2-R	162	C	CR/C	1242	2575
103500169	J		SUPERBIRD-C	144	N	PART	2	2607
103520212	J		SUPERBIRD-C2	144	C	CR/C	1243	2613
109540355	J		UNITEC-1	N-GSO	A	API/A	5626	2650
109540485	J		WASEDA.SAT	N-GSO	A	API/A	5723	2652
107500006	J		WEOS-R	N-GSO	N	PART	2	2610
108501175	J		WINDS-A	143	N	PART	2	2655
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
108520315	KAZ		KAZSAT10	44	C	CR/C	2356	2659
108520316	KAZ		KAZSAT11	98.5	C	CR/C	2357	2659
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	C	CR/C	1948	2615
107520193	KAZ		KAZSAT3M	55	C	CR/C	2076	2630
108520312	KAZ		KAZSAT5	49.3	C	CR/C	2353	2659
108520313	KAZ		KAZSAT7	77.5	C	CR/C	2354	2659
108520314	KAZ		KAZSAT9	34.3	C	CR/C	2355	2659
108540097	KAZ		KAZSAT-T2	86.5	A	API/A	5068	2615
108540098	KAZ		KAZSAT-T3	55	A	API/A	5069	2615
108540099	KAZ		KAZSAT-T4	56.4	A	API/A	5070	2615

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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	C	AR11/C	3526	2463
98520421	KOR		DACOMSAT-11KU	155	C	AR11/C	3527	2463
98520418	KOR		DACOMSAT-8KU	107	C	AR11/C	3524	2463
98520273	KOR		DACOMSAT-9KA	109	C	CR/C	89	2466
98520419	KOR		DACOMSAT-9KU	109	C	AR11/C	3525	2463
98520277	KOR		DACOMSAT-9X	109	C	AR11/C	3546	2463
106500298	KOR		HAUSAT-1	N-GSO	N	PART	2	2607
105520157	KOR		IMTSAT-3	116	C	CR/C	1667	2593
105520158	KOR		IMTSAT-4	128.2	C	CR/C	1668	2593
105520159	KOR		IMTSAT-5	144	C	CR/C	1669	2593
108500797	KOR		INFOSAT-B	113	N	PART	2	2659
99500246	KOR		INFOSAT-C	116	N	PART	2	2557
107500037	KOR		KAISTSAT-4	N-GSO	N	PART	2	2637
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	2645
100500017	KOR		KOMPSAT-1	N-GSO	N	PART	2	2655
106500084	KOR		KOMPSAT-2	N-GSO	N	PART	2	2632
109540521	KOR		KOMPSAT-3	N-GSO	A	API/A	5752	2660
108540733	KOR		KOMPSAT-5	N-GSO	A	API/A	5493	2653
107520230	KOR		KORBSAT-113E	113	C	CR/C	2097	2631
107520231	KOR		KORBSAT-116E	116	C	CR/C	2098	2631
107520232	KOR		KORBSAT-128.2E	128.2	C	CR/C	2099	2631
95500170	KOR		KOREASAT-1	116	N	PART	2	2589
107520223	KOR		KOREASAT-103.2E	103.2	C	CR/C	2127	2637
102540322	KOR		KOREASAT-113	113	A	API/A	2430	2594
106500308	KOR		KOREASAT-113E	113	N	PART	2	2645
98520408	KOR		KOREASAT-113X	113	C	CR/C	485	2539
104520002	KOR		KOREASAT-116D	116	C	CR/C	1351	2571
95500171	KOR		KOREASAT-2	113	N	PART	2	2489
109540519	KOR		KOREASAT-97E	97	A	API/A	5750	2650
107500608	KOR		SKDAB-2	144	N	PART	2	2652
108501015	KOR		STSAT-2	N-GSO	N	PART	2	2647
109540520	KOR		STSAT-3	N-GSO	A	API/A	5751	2650
108520236	LAO		LAOSAT-128.5E	128.5	C	CR/C	2326	2638
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
107500529	LBY		LIBSAT-02-28.5E	28.9	N	PART	2	2617
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

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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	2646
103520556	LUX		LUX-G3-1	1	C	CR/C	1373	2651
103520553	LUX		LUX-G3-19.2E	19.2	C	CR/C	1380	2651
103520557	LUX		LUX-G3-2	5	C	CR/C	1374	2651
103520554	LUX		LUX-G3-24.2E	23.5	C	CR/C	1381	2651
104520141	LUX		LUX-G3-26-A	-129	C	CR/C	1426	2576
104520080	LUX		LUX-G3-27-A	-123	C	CR/C	1400	2575
103520555	LUX		LUX-G3-28.2E	28.2	C	CR/C	1382	2651
104520198	LUX		LUX-G3-29-B	-105	C	CR/C	1459	2580
103520558	LUX		LUX-G3-3	13	C	CR/C	1375	2651
103520380	LUX		LUX-G3-30-A	-101	C	CR/C	1315	2569
103520381	LUX		LUX-G3-31-A	-87	C	CR/C	1316	2569
104520102	LUX		LUX-G3-31-B	-85	C	CR/C	1412	2576
103520382	LUX		LUX-G3-32-A	-79	C	CR/C	1317	2569
105520090	LUX		LUX-G3-32-B	-81	C	CR/C	1591	2616
103520383	LUX		LUX-G3-33-A	-72	C	CR/C	1318	2569
103520563	LUX		LUX-G3-37	-37.2	C	CR/C	1383	2651
103520564	LUX		LUX-G3-38	-30	C	CR/C	1384	2651
103520559	LUX		LUX-G3-4	31	C	CR/C	1376	2651
103520565	LUX		LUX-G3-40	-13	C	CR/C	1385	2651
103520560	LUX		LUX-G3-5	38.5	C	CR/C	1377	2651
103520561	LUX		LUX-G3-6	45	C	CR/C	1378	2651
103520562	LUX		LUX-G3-8	63	C	CR/C	1379	2651
106520147	LUX		LUX-G4-24	103	C	CR/C	1879	2607
106520224	LUX		LUX-G4-48	-147.6	C	CR/C	1909	2609
106520225	LUX		LUX-G4-49	-143	C	CR/C	1910	2609
106520109	LUX		LUX-G4-49B	-139	C	CR/C	1845	2603
106520100	LUX		LUX-G4-5	19.2	C	CR/C	1841	2603
106520135	LUX		LUX-G4-50A	-138	C	CR/C	1868	2605
106520110	LUX		LUX-G4-50B	-137	C	CR/C	1846	2603
106520111	LUX		LUX-G4-51B	-135	C	CR/C	1847	2603
106520157	LUX		LUX-G4-52B	-131	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	C	CR/C	1871	2605
106520139	LUX		LUX-G4-59A	-99	C	CR/C	1872	2605
106520101	LUX		LUX-G4-6	23.5	C	CR/C	1842	2603
106520140	LUX		LUX-G4-64A	-77	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
107520136	LUX		LUX-G5-25	108.2	C	CR/C	2035	2651
107520091	LUX		LUX-G5-51	-135	C	CR/C	2020	2621
107520092	LUX		LUX-G5-52	-131	C	CR/C	2021	2621
107520093	LUX		LUX-G5-53	-127	C	CR/C	2022	2621
107520094	LUX		LUX-G5-54	-123	C	CR/C	2023	2621
108520137	LUX		LUX-G5-56	-107.3	C	CR/C	2226	2644
108520028	LUX		LUX-G5-57	-109.2	C	CR/C	2148	2638

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108520138	LUX		LUX-G5-59	-99	C	CR/C	2227	2644
107520139	LUX		LUX-G5-60	-95	C	CR/C	2036	2634
107520140	LUX		LUX-G5-62	-83	C	CR/C	2037	2623
107520045	LUX		LUX-G5-63	-79	C	CR/C	1950	2626
107520095	LUX		LUX-G5-64	-75	C	CR/C	2024	2621
107520048	LUX		LUX-G5-66	-67	C	CR/C	1985	2617
107520155	LUX		LUX-G5-8	31.5	C	CR/C	2054	2625
108520152	LUX		LUX-G6-1	1.8	C	CR/C	2236	2650
107540854	LUX		LUX-G6-10	38.5	A	API/A	4878	2614
108520160	LUX		LUX-G6-11	38.8	C	CR/C	2244	2650
108520161	LUX		LUX-G6-12	43.5	C	CR/C	2245	2650
108520162	LUX		LUX-G6-13	51	C	CR/C	2246	2650
107540858	LUX		LUX-G6-14	57	A	API/A	4882	2614
107540859	LUX		LUX-G6-15	63	A	API/A	4883	2614
107540860	LUX		LUX-G6-16	69	A	API/A	4884	2614
107540861	LUX		LUX-G6-17	75	A	API/A	4885	2614
107540862	LUX		LUX-G6-18	87	A	API/A	4886	2614
107540863	LUX		LUX-G6-19	99	A	API/A	4887	2614
108520153	LUX		LUX-G6-2	5	C	CR/C	2237	2650
107540864	LUX		LUX-G6-20	108.2	A	API/A	4888	2614
108520254	LUX		LUX-G6-21	113.5	C	CR/C	2299	2659
107540866	LUX		LUX-G6-22	120	A	API/A	4890	2614
107540867	LUX		LUX-G6-23	126	A	API/A	4891	2614
107540868	LUX		LUX-G6-24	132	A	API/A	4892	2614
107540869	LUX		LUX-G6-25	150	A	API/A	4893	2614
107540870	LUX		LUX-G6-26	156	A	API/A	4894	2614
107540871	LUX		LUX-G6-27	162	A	API/A	4895	2614
107540872	LUX		LUX-G6-28	168	A	API/A	4896	2614
107540873	LUX		LUX-G6-29	174	A	API/A	4897	2614
109540048	LUX		LUX-G6-2-E	5	A	API/A	5535	2642
108520154	LUX		LUX-G6-3	8.5	C	CR/C	2238	2650
107540874	LUX		LUX-G6-30	-178	A	API/A	4898	2614
107540875	LUX		LUX-G6-31	-172	A	API/A	4899	2614
107540876	LUX		LUX-G6-32	-166	A	API/A	4900	2614
107540877	LUX		LUX-G6-33	-160	A	API/A	4901	2614
107540878	LUX		LUX-G6-34	-154	A	API/A	4902	2614
107540879	LUX		LUX-G6-35	-147.6	A	API/A	4903	2614
107540880	LUX		LUX-G6-36	-139	A	API/A	4904	2614
107540881	LUX		LUX-G6-37	-131	A	API/A	4905	2614
108520141	LUX		LUX-G6-38	-119	C	CR/C	2248	2648
108520142	LUX		LUX-G6-39	-115	C	CR/C	2249	2648
107540848	LUX		LUX-G6-4	13	A	API/A	4872	2614
108520143	LUX		LUX-G6-40	-111.1	C	CR/C	2250	2648
108520144	LUX		LUX-G6-41	-103	C	CR/C	2251	2648
108520145	LUX		LUX-G6-42	-91	C	CR/C	2252	2648
108520146	LUX		LUX-G6-43	-87	C	CR/C	2253	2648
108520147	LUX		LUX-G6-44	-83	C	CR/C	2254	2648
108520148	LUX		LUX-G6-45	-79	C	CR/C	2255	2648
108520149	LUX		LUX-G6-46	-71	C	CR/C	2256	2648
107540891	LUX		LUX-G6-47	-67	A	API/A	4915	2614
108520150	LUX		LUX-G6-48	-62	C	CR/C	2257	2648

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108520151	LUX		LUX-G6-49	-59	C	CR/C	2258	2648
108520155	LUX		LUX-G6-5	19.2	C	CR/C	2239	2650
107540894	LUX		LUX-G6-50	-49	A	API/A	4918	2614
108520163	LUX		LUX-G6-51	-40.5	C	CR/C	2259	2648
107540896	LUX		LUX-G6-52	-30	A	API/A	4920	2614
108520164	LUX		LUX-G6-53	-24	C	CR/C	2260	2648
107540898	LUX		LUX-G6-54	-19	A	API/A	4922	2614
107540899	LUX		LUX-G6-55	-13	A	API/A	4923	2614
107540900	LUX		LUX-G6-56	-7	A	API/A	4924	2614
108520165	LUX		LUX-G6-57	-3	C	CR/C	2261	2648
108520156	LUX		LUX-G6-6	21.5	C	CR/C	2240	2650
108520157	LUX		LUX-G6-7	23.5	C	CR/C	2241	2650
108520158	LUX		LUX-G6-8	28.2	C	CR/C	2242	2650
108520159	LUX		LUX-G6-9	31.5	C	CR/C	2243	2650
109540589	LUX		LUX-G7-1	1	A	API/A	5806	2656
109540598	LUX		LUX-G7-10	38.5	A	API/A	5815	2656
109540599	LUX		LUX-G7-11	42	A	API/A	5816	2656
109540600	LUX		LUX-G7-12	45	A	API/A	5817	2656
109540601	LUX		LUX-G7-13	51	A	API/A	5818	2656
109540602	LUX		LUX-G7-14	57	A	API/A	5819	2656
109540603	LUX		LUX-G7-15	63	A	API/A	5820	2656
109540604	LUX		LUX-G7-16	69	A	API/A	5821	2656
109540605	LUX		LUX-G7-17	75	A	API/A	5822	2656
109540606	LUX		LUX-G7-18	87	A	API/A	5823	2656
109540607	LUX		LUX-G7-19	99	A	API/A	5824	2656
109540590	LUX		LUX-G7-2	5	A	API/A	5807	2656
109540608	LUX		LUX-G7-20	108.2	A	API/A	5825	2656
109540609	LUX		LUX-G7-21	114	A	API/A	5826	2656
109540610	LUX		LUX-G7-22	120	A	API/A	5827	2656
109540611	LUX		LUX-G7-23	126	A	API/A	5828	2656
109540612	LUX		LUX-G7-24	132	A	API/A	5829	2656
109540613	LUX		LUX-G7-25	150	A	API/A	5830	2656
109540614	LUX		LUX-G7-26	156	A	API/A	5831	2656
109540615	LUX		LUX-G7-27	162	A	API/A	5832	2656
109540616	LUX		LUX-G7-28	168	A	API/A	5833	2656
109540617	LUX		LUX-G7-29	174	A	API/A	5834	2656
109540591	LUX		LUX-G7-3	9	A	API/A	5808	2656
109540618	LUX		LUX-G7-30	-178	A	API/A	5835	2656
109540619	LUX		LUX-G7-31	-172	A	API/A	5836	2656
109540620	LUX		LUX-G7-32	-166	A	API/A	5837	2656
109540621	LUX		LUX-G7-33	-160	A	API/A	5838	2656
109540622	LUX		LUX-G7-34	-154	A	API/A	5839	2656
109540623	LUX		LUX-G7-35	-147.6	A	API/A	5840	2656
109540624	LUX		LUX-G7-36	-139	A	API/A	5841	2656
109540625	LUX		LUX-G7-37	-131	A	API/A	5842	2656
109540626	LUX		LUX-G7-38	-123	A	API/A	5843	2656
109540733	LUX		LUX-G7-38B	-115	A	API/A	5879	2657
109540892	LUX		LUX-G7-38C	-117	A	API/A	5954	2660
109540627	LUX		LUX-G7-39	-114.5	A	API/A	5844	2656
109540592	LUX		LUX-G7-4	13	A	API/A	5809	2656
109540628	LUX		LUX-G7-40	-109.2	A	API/A	5845	2656

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109540734	LUX		LUX-G7-40B	-101	A	API/A	5880	2657
109540629	LUX		LUX-G7-41	-103	A	API/A	5846	2656
109540630	LUX		LUX-G7-42	-95	A	API/A	5847	2656
109540893	LUX		LUX-G7-42B	-91	A	API/A	5955	2660
109540631	LUX		LUX-G7-43	-87	A	API/A	5848	2656
109540735	LUX		LUX-G7-43B	-86	A	API/A	5881	2657
109540632	LUX		LUX-G7-44	-83	A	API/A	5849	2656
109540633	LUX		LUX-G7-45	-79	A	API/A	5850	2656
109540634	LUX		LUX-G7-46	-72	A	API/A	5851	2656
109540635	LUX		LUX-G7-47	-67	A	API/A	5852	2656
109540636	LUX		LUX-G7-48	-61.9	A	API/A	5853	2656
109540637	LUX		LUX-G7-49	-55	A	API/A	5854	2656
109540593	LUX		LUX-G7-5	19.2	A	API/A	5810	2656
109540638	LUX		LUX-G7-50	-49	A	API/A	5855	2656
109540639	LUX		LUX-G7-51	-37.2	A	API/A	5856	2656
109540640	LUX		LUX-G7-52	-30	A	API/A	5857	2656
109540641	LUX		LUX-G7-53	-25	A	API/A	5858	2656
109540642	LUX		LUX-G7-54	-19	A	API/A	5859	2656
109540643	LUX		LUX-G7-55	-13	A	API/A	5860	2656
109540644	LUX		LUX-G7-56	-7	A	API/A	5861	2656
109540645	LUX		LUX-G7-57	-3	A	API/A	5862	2656
109540594	LUX		LUX-G7-6	23.5	A	API/A	5811	2656
109540595	LUX		LUX-G7-7	28.2	A	API/A	5812	2656
109540596	LUX		LUX-G7-8	31.5	A	API/A	5813	2656
109540597	LUX		LUX-G7-9	35	A	API/A	5814	2656
104500543	LUX		LUX-KA-19E	19	N	PART	2	2635
105500067	LUX		LUX-KA-28.2E	28.2	N	PART	2	2622
109520122	LUX		LUXMSS-1	N-GSO	C	CR/C	2417	2658
109520135	LUX		LXS-AIS	N-GSO	C	CR/C	2431	2655
103520390	LUX		MSS-1	N-GSO	C	CR/C	1340	2631
109540765	MAU		REDSAT-1A	27	A	API/A	5910	2659
109540766	MAU		REDSAT-2A	79	A	API/A	5911	2659
105520375	MCO		MONASAT-2E	2	C	CR/C	1756	2598
105520376	MCO		MONASAT-52E	52	C	CR/C	1757	2598
106540588	MEX		MEXSAT 109.2 KU EXT	-109.2	A	API/A	4367	2583
108520270	MEX		MEXSAT 113 KU EXT	-113	C	CR/C	2313	2637
108520271	MEX		MEXSAT 114.9 KU EXT	-114.9	C	CR/C	2314	2637
108540438	MEX		MEXSAT 114.9 L X	-114.9	A	API/A	5276	2632
108520272	MEX		MEXSAT 116.8 KU EXT	-116.8	C	CR/C	2315	2637
108540439	MEX		MEXSAT 116.8 L C EXT	-116.8	A	API/A	5277	2632
109540039	MEX		MEXSAT113 L-CEXT-X	-113	A	API/A	5518	2640
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
109520136	MEX		MEXSAT114.9 L-CEXT-X	-114.9	C	CR/C	2441	2656
109540041	MEX		MEXSAT116.8 L-CEXT-X	-116.8	A	API/A	5520	2640
104520287	MEX		MEXSAT-A-109.2 KA	-109.2	C	CR/C	1495	2548
104520288	MEX		MEXSAT-A-113.0 KA	-113	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

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104520121	MEX		MOVISAT-113	-113	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	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	2637
99500013	MEX		SOLIDARIDAD 1MA	-109.2	N	PART	2	2637
101500478	MEX		SOLIDARIDAD 2M	-113	N	PART	2	2637
99500015	MEX		SOLIDARIDAD 2MA	-113	N	PART	2	2637
97500440	MEX		SOLIDARIDAD-1	-109.2	N	PART	2	2637
97500441	MEX		SOLIDARIDAD-2	-113	N	PART	2	2617
100500293	MLA		INNOSAT	N-GSO	N	PART	2	2609
95500480	MLA		MEASAT-1	91.5	N	PART	2	2628
108520342	MLA		MEASAT-13.4E	13.4	C	CR/C	2363	2659
104500299	MLA		MEASAT-148E	148	N	PART	2	2623
104520321	MLA		MEASAT-1R	91.5	C	CR/C	1519	2659
95500106	MLA		MEASAT-2	148	N	PART	2	2580
109540307	MLA		MEASAT-2A	148	A	API/A	5597	2647
104520323	MLA		MEASAT-2R	148	C	CR/C	1525	2659
92540002	MLA		MEASAT-3	95	A	API/A	35	2551
104520180	MLA		MEASAT-37E	37	C	CR/C	1427	2556
104520316	MLA		MEASAT-3-95E	95	C	CR/C	1508	2659
101520007	MLA		MEASAT-46E	46	C	CR/C	911	2556
107520058	MLA		MEASAT-46E-R	46	C	CR/C	2012	2659
104520318	MLA		MEASAT-4-72E	72	C	CR/C	1509	2659
103520070	MLA		MEASAT-5.7E	5.7	C	CR/C	1282	2567
109540360	MLA		MEASAT-5.7E-R	5.7	A	API/A	5629	2647
104520181	MLA		MEASAT-72E	72	C	CR/C	1428	2560
104520298	MLA		MEASAT-78.5E-R	78.5	C	CR/C	1505	2556
104520299	MLA		MEASAT-86E-R	86	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	C	CR/C	603	2598
103520018	MLA		MEASAT-9E	9	C	CR/C	1178	2653
108540239	MLA		MEASAT-9E-R	9	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
94540173	MLA		MEASAT-IK 91.5E	91.5	A	API/A	575	2435
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	2637
104520182	MLA		MEASAT-ROUTE-27E	27	C	CR/C	1429	2556
108540403	MLA		MEASAT-ROUTE-2A	27	A	API/A	5260	2637
108540402	MLA		MEASAT-ROUTE-3A	-79	A	API/A	5259	2637
104520183	MLA		MEASAT-ROUTE-41W	-41	C	CR/C	1431	2579
108540401	MLA		MEASAT-ROUTE-4A	-97.5	A	API/A	5258	2637
108540399	MLA		MEASAT-ROUTE-5A	-41	A	API/A	5255	2637
104520184	MLA		MEASAT-ROUTE-79W	-79	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	1	2657
94540007	MLA		MEASAT-SA2	9	A	API/A	604	2551

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94540008	MLA		MEASAT-SA3	37	A	API/A	605	2551
104520320	MLA		MEASAT-SA3-37E	37	C	CR/C	1511	2659
94540009	MLA		MEASAT-SA4	46	A	API/A	606	2551
104520317	MLA		MEASAT-SA4-46E	46	C	CR/C	1512	2659
107500030	MLA		MLA-NEQO	N-GSO	N	PART	2	2654
107500622	MRC		MSATH-Z	N-GSO	N	PART	2	2644
109520079	NIG		NIGCOMSAT-1A	-19.2	C	CR/C	2399	2649
109520080	NIG		NIGCOMSAT-1D	22	C	CR/C	2400	2649
106520040	NIG		NIGCOMSAT-1G	42.5	C	CR/C	1796	2606
109520005	NIG		NIGCOMSAT-1R	42.5	C	CR/C	2425	2654
109520038	NOR		ARE-1	N-GSO	C	CR/C	2377	2645
102500350	NOR		BIFROST	-0.8	N	PART	2	2630
104520311	NOR		BIFROST-0.8W-2004	-0.8	C	CR/C	1513	2596
109540302	NOR		BIFROST-12.5W-2009	-12.5	A	API/A	5592	2647
99520504	NOR		BIFROST-15	-1	C	CR/C	364	2531
109540304	NOR		BIFROST-24.5E-2009	24.5	A	API/A	5594	2647
109540303	NOR		BIFROST-2E-FSS-2009	2	A	API/A	5593	2656
100500079	NOR		BIFROST-2-FSS	-0.8	N	PART	2	2549
106500355	NOR		BIFROST-3-FSS	-0.8	N	PART	2	2591
109540305	NOR		BIFROST-40E-2009	40	A	API/A	5595	2647
109540301	NOR		BIFROST-4W-FSS-2009	-4	A	API/A	5591	2656
109540306	NOR		BIFROST-51E-2009	51	A	API/A	5596	2647
108540481	NOR		DUB DUB 1	46	A	API/A	5316	2644
108540482	NOR		DUB DUB 2	50.2	A	API/A	5317	2644
108540483	NOR		DUB DUB 3	53.2	A	API/A	5318	2644
108520280	NOR		NORSAT-1A	18.7	C	CR/C	2327	2656
108520285	NOR		NORSAT-1B	24.5	C	CR/C	2324	2656
108520286	NOR		NORSAT-1C	32	C	CR/C	2325	2656
108540703	NOR		NORSAT-1D	5	A	API/A	5494	2638
108520129	NRU		SWANSAT-1A	-100	C	CR/C	2220	2646
109520020	NRU		SWANSAT-2A	30	C	CR/C	2371	2660
107540959	NRU		SWANSAT-3A	150	A	API/A	5105	2616
109540557	NRU		SWANSAT-3A2	150	A	API/A	5784	2658
103520007	NZL		NZLSAT-1	158	C	CR/C	1160	2508
107540137	NZL		NZLSAT-1R	158	A	API/A	4602	2595
103520008	NZL		NZLSAT-2	158	C	CR/C	1161	2508
108520311	NZL		NZLSAT-2R	158	C	CR/C	2349	2641
103520129	NZL		NZLSAT-3	158	C	CR/C	1301	2595
107540138	NZL		NZLSAT-3R	158	A	API/A	4603	2655
103520130	NZL		NZLSAT-4	158	C	CR/C	1211	2518
107540139	NZL		NZLSAT-4R	158	A	API/A	4604	2595
97500282	PAK		BADR-B	N-GSO	N	PART	2	2614
106500372	PAK		PAKSAT-1	38	N	PART	2	2660
104520327	PAK		PAKSAT-1R	38	C	CR/C	1517	2630
109520006	PAK		PAKSAT-1R1	38	C	CR/C	2369	2643
93540117	PAK		PAKSAT-2	41	A	API/A	654	2641
106520095	PAK		PAKSAT-2R	41	C	CR/C	1837	2603
108540493	PAK		PAKSAT-2R1	41	A	API/A	5326	2631
106520096	PAK		PAKSAT-CR	30	C	CR/C	1833	2603
106520097	PAK		PAKSAT-DR	88	C	CR/C	1834	2603
106520098	PAK		PAKSAT-ER	101	C	CR/C	1835	2603

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106520099	PAK		PAKSAT-FR	56	C	CR/C	1836	2603
105520298	PNG		NEW DAWN 1	-77	C	CR/C	1692	2566
106520015	PNG		NEW DAWN 10	-77	C	CR/C	1783	2575
106520016	PNG		NEW DAWN 11	-89	C	CR/C	1784	2575
106520017	PNG		NEW DAWN 12	-93	C	CR/C	1785	2575
106520018	PNG		NEW DAWN 13	-97	C	CR/C	1786	2575
106520019	PNG		NEW DAWN 14	-121	C	CR/C	1787	2575
106520020	PNG		NEW DAWN 15	-129	C	CR/C	1788	2575
106520164	PNG		NEW DAWN 16	85	C	CR/C	1893	2588
108540441	PNG		NEW DAWN 19	98.5	A	API/A	5279	2629
105520299	PNG		NEW DAWN 2	-89	C	CR/C	1693	2566
109520052	PNG		NEW DAWN 20	50.75	C	CR/C	2384	2646
109540683	PNG		NEW DAWN 21	60	A	API/A	5869	2656
109540684	PNG		NEW DAWN 22	62	A	API/A	5870	2656
109540685	PNG		NEW DAWN 23	64	A	API/A	5871	2656
109540686	PNG		NEW DAWN 24	66	A	API/A	5872	2656
105520300	PNG		NEW DAWN 3	-93	C	CR/C	1694	2566
105520301	PNG		NEW DAWN 4	-129	C	CR/C	1695	2566
105520302	PNG		NEW DAWN 5	-127	C	CR/C	1696	2566
105520303	PNG		NEW DAWN 6	-131	C	CR/C	1697	2566
105520304	PNG		NEW DAWN 7	-133	C	CR/C	1698	2566
105520317	PNG		NEW DAWN 8	98.5	C	CR/C	1706	2568
105520318	PNG		NEW DAWN 9	118	C	CR/C	1707	2568
108520226	PNG		NEW DAWN-17	-131	C	CR/C	2284	2650
108520227	PNG		NEW DAWN-18	-133	C	CR/C	2285	2650
109540394	PNG		PACIFISAT C/KU-1	156	A	API/A	5656	2656
109540395	PNG		PACIFISAT C/KU-2	159	A	API/A	5657	2656
109520145	PNG		PACIFISAT-1	75	C	CR/C	2440	2660
108540474	PNG		PACIFISAT-2	70	A	API/A	5310	2658
108540475	PNG		PACIFISAT-3	67	A	API/A	5311	2658
109540767	PNG		PACIFISAT-4	59.5	A	API/A	5906	2659
109540768	PNG		PACIFISAT-5	61.5	A	API/A	5907	2659
109540769	PNG		PACIFISAT-6	63.5	A	API/A	5908	2659
109540770	PNG		PACIFISAT-7	65.5	A	API/A	5909	2659
107500102	PNG		PACSTAR-L4	-121	N	PART	2	2619
94500024	POR		POSAT-1	N-GSO	N	PART	2	2575
109540771	QAT		QATARSAT-1	34	A	API/A	5912	2659
109540772	QAT		QATARSAT-2	37.5	A	API/A	5913	2659
109540773	QAT		QATARSAT-3	51	A	API/A	5914	2659
109540774	QAT		QATARSAT-4	56	A	API/A	5915	2659
109540775	QAT		QATARSAT-5	65	A	API/A	5916	2659
109540748	RUS		AMG-104.5E	104.5	A	API/A	5894	2657
109540738	RUS		AMG-106W	-106	A	API/A	5884	2657
109540749	RUS		AMG-141E	141	A	API/A	5895	2657
109540750	RUS		AMG-159.5E	159.5	A	API/A	5896	2657
109540737	RUS		AMG-170W	-170	A	API/A	5883	2657
109540742	RUS		AMG-23E	23	A	API/A	5888	2657
109540740	RUS		AMG-36W	-36	A	API/A	5886	2657
109540741	RUS		AMG-3W	-3	A	API/A	5887	2657
109540743	RUS		AMG-49E	49	A	API/A	5889	2657
109540739	RUS		AMG-65.5W	-65.5	A	API/A	5885	2657

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109540744	RUS		AMG-76.5E	76.5	A	API/A	5890	2657
109540745	RUS		AMG-82.5E	82.5	A	API/A	5891	2657
109540746	RUS		AMG-93E	93	A	API/A	5892	2657
109540747	RUS		AMG-99E	99	A	API/A	5893	2657
96500536	RUS		COMPARUS-C	N-GSO	N	PART	2	2390
96500535	RUS		COMPARUS-E	N-GSO	N	PART	2	2385
90500132	RUS		CSDRN	95	N	PART	2	2403
106520148	RUS		CSDRN-M	95	C	CR/C	1880	2622
90501087	RUS		CSSRD-2	77	N	PART	2	2403
107500002	RUS		CUP	N-GSO	N	PART	2	2610
90500133	RUS		ESDRN	-160	N	PART	2	2403
100500089	RUS		EXPRESS-10	140	N	PART	2	2602
106500057	RUS		EXPRESS-10B	140	N	PART	2	2641
109520049	RUS		EXPRESS-10KA	140	C	CR/C	2428	2654
100500090	RUS		EXPRESS-11	145	N	PART	2	2660
97500285	RUS		EXPRESS-2	-14	N	PART	2	2580
106500060	RUS		EXPRESS-2B	-14	N	PART	2	2637
97500286	RUS		EXPRESS-3	-11	N	PART	2	2631
98500178	RUS		EXPRESS-4	40	N	PART	2	2647
106500059	RUS		EXPRESS-4B	40	N	PART	2	2639
103520015	RUS		EXPRESS-4K	40	C	CR/C	1181	2516
98500179	RUS		EXPRESS-5	53	N	PART	2	2658
106500050	RUS		EXPRESS-5B	53	N	PART	2	2653
109520048	RUS		EXPRESS-5KA	53	C	CR/C	2427	2654
97500288	RUS		EXPRESS-6	80	N	PART	2	2658
106500056	RUS		EXPRESS-6B	80	N	PART	2	2660
108520180	RUS		EXPRESS-6KA	80	C	CR/C	2297	2635
100500160	RUS		EXPRESS-7	90	N	PART	2	2611
106500099	RUS		EXPRESS-7B	90	N	PART	2	2660
106520041	RUS		EXPRESS-7C	90	C	CR/C	1840	2580
100500298	RUS		EXPRESS-8	96.5	N	PART	2	2660
106500055	RUS		EXPRESS-8B	96.5	N	PART	2	2642
100500229	RUS		EXPRESS-9	103	N	PART	2	2646
106500058	RUS		EXPRESS-9B	103	N	PART	2	2641
109540507	RUS		EXPRESS-B 11W	-11	A	API/A	5742	2650
109520123	RUS		EXPRESS-B 14.5E	14.5	C	CR/C	2418	2653
108520002	RUS		EXPRESS-RB	N-GSO	C	CR/C	2162	2640
94500364	RUS		FOTON-1	-13.5	N	PART	2	2403
92500170	RUS		FOTON-2	80	N	PART	2	
94500365	RUS		FOTON-3	-168	N	PART	2	
90500385	RUS		GALS-10	128	N	PART	2	2173
101500486	RUS		GALS-11	-3	N	PART	2	2492
101500485	RUS		GALS-12	15	N	PART	2	2491
98500183	RUS		GALS-13	49	N	PART	2	2654
98500184	RUS		GALS-14	69	N	PART	2	2425
101500484	RUS		GALS-15	1	N	PART	2	2496
98500185	RUS		GALS-16	70	N	PART	2	2654
98500186	RUS		GALS-17	12	N	PART	2	2640
101500180	RUS		GALS-7	8	N	PART	2	2510
101500487	RUS		GALS-8	23	N	PART	2	2492
90500404	RUS		GALS-9	-25	N	PART	2	2173

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94500133	RUS		GEO-IK-2	N-GSO	N	PART	2	2358
97500304	RUS		GLONASS-M	N-GSO	N	PART	2	2645
96500168	RUS		GOMS-1M	-14.5	N	PART	2	2645
95500278	RUS		GOMS-M	76	N	PART	2	2613
101500568	RUS		GONETS	N-GSO	N	PART	2	2534
108500573	RUS		GONETS-M	N-GSO	N	PART	2	2638
107500005	RUS		GTS	N-GSO	N	PART	2	2624
104520224	RUS	IK	INTERSPUTNIK-1.2E-CK	1.2	C	CR/C	1507	2583
106520002	RUS	IK	INTERSPUTNIK-153.5E2	153.5	C	CR/C	1797	2601
105500238	RUS	IK	INTERSPUTNIK-153.5EQ	153.5	N	PART	2	2619
109540689	RUS	IK	INTERSPUTNIK-16W-2	-16	A	API/A	5874	2656
103500127	RUS	IK	INTERSPUTNIK-17E	17	N	PART	2	2619
109520131	RUS	IK	INTERSPUTNIK-17E-2	17	C	CR/C	2426	2654
103520288	RUS	IK	INTERSPUTNIK-17E-CK	17	C	CR/C	1188	2560
103500238	RUS	IK	INTERSPUTNIK-27E	27	N	PART	2	2619
105520234	RUS	IK	INTERSPUTNIK-27E-CK	27	C	CR/C	1762	2600
105500293	RUS	IK	INTERSPUTNIK-27E-Q	27	N	PART	2	2622
103500095	RUS	IK	INTERSPUTNIK-3W	-3	N	PART	2	2619
105520237	RUS	IK	INTERSPUTNIK-3W-CK	-3	C	CR/C	1761	2600
105500292	RUS	IK	INTERSPUTNIK-3W-Q	-3	N	PART	2	2652
108520257	RUS	IK	INTERSPUTNIK-47.5W	-47.5	C	CR/C	2309	2652
108520258	RUS	IK	INTERSPUTNIK-50.5E	50.5	C	CR/C	2310	2652
109540690	RUS	IK	INTERSPUTNIK-55W	-55	A	API/A	5875	2656
109540691	RUS	IK	INTERSPUTNIK-78E	78	A	API/A	5876	2656
109540688	RUS	IK	INTERSPUTNIK-9.5W	-9.5	A	API/A	5873	2656
105520293	RUS	IK	INTERSPUTNIK-98.5ECK	98.5	C	CR/C	1764	2600
106500111	RUS		KORONAS-PHOTON	N-GSO	N	PART	2	2647
90504426	RUS		KOSPAS	N-GSO	N	PART	2	
100500233	RUS		KUPON-1	55	N	PART	2	2430
105520089	RUS		KUPON-1M	55	C	CR/C	1611	2576
108500042	RUS		KUPON-1S	55	N	PART	2	2647
104500545	RUS		KUPON-1T	55	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	C	CR/C	1662	2562
105520153	RUS		KUPON-7M	165	C	CR/C	1663	2562
101500488	RUS		LOUTCH-10	145	N	PART	2	2554
90500286	RUS		LOUTCH-2	53	N	PART	2	
90500287	RUS		LOUTCH-3	90	N	PART	2	2554
90500288	RUS		LOUTCH-4	140	N	PART	2	2554
90500290	RUS		LOUTCH-5	103	N	PART	2	2554
99500020	RUS		LOUTCH-7	40	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
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	2652
109540753	RUS		MKA-FKI	N-GSO	A	API/A	5904	2658
103500030	RUS		MONITOR	N-GSO	N	PART	2	2647
109540372	RUS		PHOBOS-GRUNT	N-GSO	A	API/A	5634	2660

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90500593	RUS		POTOK-1	-13.5	N	PART	2	2610
90500592	RUS		POTOK-2	80	N	PART	2	2583
90500594	RUS		POTOK-3	-168	N	PART	2	2610
90500531	RUS		PROGNOZ-1	-24	N	PART	2	
90500528	RUS		PROGNOZ-2	12	N	PART	2	
90500529	RUS		PROGNOZ-3	35	N	PART	2	
90500530	RUS		PROGNOZ-4	80	N	PART	2	2518
94500349	RUS		PROGNOZ-5	130	N	PART	2	2182
94500350	RUS		PROGNOZ-6	166	N	PART	2	2183
94500351	RUS		PROGNOZ-7	-159	N	PART	2	2183
102500059	RUS		PROGNOZ-8	98	N	PART	2	2535
108500004	RUS		RESURS-DK1	N-GSO	N	PART	2	2634
102540391	RUS		RESURS-O1	N-GSO	A	API/A	2448	2485
102500045	RUS		ROSCOM-2	-170	N	PART	2	2588
102500048	RUS		ROSCOM-3	23	N	PART	2	2632
102500047	RUS		ROSCOM-4	49	N	PART	2	2652
99500287	RUS		RST-1	36	N	PART	2	2522
99500288	RUS		RST-2	56	N	PART	2	2522
102520075	RUS		SADKO-1	85.4	C	CR/C	1067	2559
104520330	RUS		SELENA	N-GSO	C	CR/C	1514	2596
95500664	RUS		SIGNAL	N-GSO	N	PART	2	2340
107500107	RUS		SMOTR	N-GSO	N	PART	2	2644
106500006	RUS		SPECTR-R	N-GSO	N	PART	2	2612
90500477	RUS		STATSIONAR-10	-170	N	PART	2	2654
101500526	RUS		STATSIONAR-10A	-170	N	PART	2	2658
90500209	RUS		STATSIONAR-11	-11	N	PART	2	
90500211	RUS		STATSIONAR-12	40	N	PART	2	
90500193	RUS		STATSIONAR-14	96.5	N	PART	2	2554
90500216	RUS		STATSIONAR-15	128	N	PART	2	2635
90500185	RUS		STATSIONAR-16	145	N	PART	2	2569
101500181	RUS		STATSIONAR-17	-26.5	N	PART	2	2654
101500182	RUS		STATSIONAR-18	8	N	PART	2	2504
101500183	RUS		STATSIONAR-19	23	N	PART	2	2504
90500496	RUS		STATSIONAR-2	35	N	PART	2	2652
90500256	RUS		STATSIONAR-20	70	N	PART	2	2652
90500220	RUS		STATSIONAR-21	103	N	PART	2	2554
90500196	RUS		STATSIONAR-22	1	N	PART	2	2656
101500185	RUS		STATSIONAR-23	15	N	PART	2	2510
90500199	RUS		STATSIONAR-24	49	N	PART	2	2656
91910063	RUS		STATSIONAR-27	12	N	PART	2	2654
90500501	RUS		STATSIONAR-3	85	N	PART	2	2617
90500486	RUS		STATSIONAR-4	-14	N	PART	2	
90500488	RUS		STATSIONAR-4A	-14	N	PART	2	2610
90504197	RUS		STATSIONAR-5	53	N	PART	2	2610
90500482	RUS		STATSIONAR-6	90	N	PART	2	2554
90500483	RUS		STATSIONAR-7	140	N	PART	2	2554
90500484	RUS		STATSIONAR-8	-25	N	PART	2	2654
90500507	RUS		STATSIONAR-9	45	N	PART	2	2649
101500527	RUS		STATSIONAR-9A	45	N	PART	2	2654
94500244	RUS		STATSIONAR-D1	-26.5	N	PART	2	
101500591	RUS		STATSIONAR-D1-30B	-26.5	N	PART	2	2527

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94500245	RUS		STATSIONAR-D2	-170	N	PART	2	
101500592	RUS		STATSIONAR-D2-30B	-170	N	PART	2	2527
94500246	RUS		STATSIONAR-D3	35	N	PART	2	
101500593	RUS		STATSIONAR-D3-30B	35	N	PART	2	2527
94500247	RUS		STATSIONAR-D4	45	N	PART	2	
101500594	RUS		STATSIONAR-D4-30B	45	N	PART	2	2527
94500248	RUS		STATSIONAR-D5	85.4	N	PART	2	
101500595	RUS		STATSIONAR-D5-30B	85.4	N	PART	2	2527
94500249	RUS		STATSIONAR-D6	128	N	PART	2	
101500596	RUS		STATSIONAR-D6-30B	128	N	PART	2	2527
102500030	RUS		STATSIONAR-M1	-170	N	PART	2	2586
107500387	RUS		STATSIONAR-M11	49	N	PART	2	2653
104500019	RUS		STATSIONAR-M2	-3	N	PART	2	2605
107500388	RUS		STATSIONAR-M8	23	N	PART	2	2652
90500508	RUS		STATSIONAR-T	99	N	PART	2	2597
90500509	RUS		STATSIONAR-T2	99	N	PART	2	2597
105500356	RUS		TOR-10M	130	N	PART	2	2621
105500357	RUS		TOR-11M	-3	N	PART	2	2621
105500358	RUS		TOR-12M	14	N	PART	2	2652
105500359	RUS		TOR-13M	58	N	PART	2	2621
105500360	RUS		TOR-14M	69	N	PART	2	2621
105500448	RUS		TOR-15M	1	N	PART	2	2631
105500449	RUS		TOR-16M	49	N	PART	2	2631
105500450	RUS		TOR-17M	70	N	PART	2	2631
105500451	RUS		TOR-18M	12	N	PART	2	2631
105500352	RUS		TOR-1M	-26.5	N	PART	2	2620
105500444	RUS		TOR-2M	35	N	PART	2	2631
105500445	RUS		TOR-4M	85	N	PART	2	2631
105500446	RUS		TOR-5M	-170	N	PART	2	2631
95500611	RUS		TOR-6	128	N	PART	2	2343
105500447	RUS		TOR-6M	128	N	PART	2	2631
105500353	RUS		TOR-7M	24	N	PART	2	2652
105500354	RUS		TOR-8M	8	N	PART	2	2621
105500355	RUS		TOR-9M	-25	N	PART	2	2621
96500453	RUS		TSYKADA	N-GSO	N	PART	2	2476
106540528	RUS		UCTS-ISS	N-GSO	A	API/A	4346	2582
101500386	RUS		VOLNA-11	35	N	PART	2	2529
101500387	RUS		VOLNA-13	-26.5	N	PART	2	2515
101500388	RUS		VOLNA-15	8	N	PART	2	2497
101500389	RUS		VOLNA-17	23	N	PART	2	2492
101500390	RUS		VOLNA-19	70	N	PART	2	2492
95500612	RUS		VOLNA-1A	-25	N	PART	2	2398
101500391	RUS		VOLNA-21	1	N	PART	2	2492
101500392	RUS		VOLNA-23	15	N	PART	2	2497
101500393	RUS		VOLNA-25	49	N	PART	2	2655
101500394	RUS		VOLNA-27	12	N	PART	2	2655
107520034	RUS		VOLNA-3R	-11	C	CR/C	2025	2621
103520347	RUS		VOLNA-4R	40	C	CR/C	1302	2569
107520035	RUS		VOLNA-5R	96.5	C	CR/C	2026	2621
103520348	RUS		VOLNA-6R	145	C	CR/C	1303	2569
103520349	RUS		VOLNA-8R	80	C	CR/C	1304	2569

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101500385	RUS		VOLNA-9	128	N	PART	2	2498
90501088	RUS		VSSRD-2	167	N	PART	2	2403
106520149	RUS		VSSRD-2M	167	C	CR/C	1881	2622
90500134	RUS		WSDRN	-16	N	PART	2	2403
106520150	RUS		WSDRN-M	-16	C	CR/C	1882	2630
108520287	RUS		YAMAL-49E	49	C	CR/C	2342	2641
105500011	RUS		YAMAL-E3	81.75	N	PART	2	2630
106520042	RUS		YAMAL-E3C	81.75	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
106500078	RUS		YAMAL-W2	-36	N	PART	2	2638
106500079	RUS		YAMAL-W3	-65.5	N	PART	2	2640
90501090	RUS		ZSSRD-2	-16	N	PART	2	2403
104500579	RUS		ZSSRD-2 (30B)	-16	N	PART	2	2561
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
108520256	S		SIRIUS-13W-4	-13	C	CR/C	2300	2659
108540635	S		SIRIUS-13W-5	-13	A	API/A	5387	2635
104500472	S		SIRIUS-2	4.8	N	PART	2	2659
107540741	S		SIRIUS-2E-2	2	A	API/A	4803	2620
100500401	S		SIRIUS-30B	5	N	PART	2	2538
106500573	S		SIRIUS-30B-5E	5	N	PART	2	2610
108501081	S		SIRIUS-3B	5	N	PART	2	2652
104520171	S		SIRIUS-5E	5	C	CR/C	1445	2578
107520044	S		SIRIUS-5E-2	5	C	CR/C	1949	2615
107540740	S		SIRIUS-5E-5	5	A	API/A	4802	2620
108540634	S		SIRIUS-5E-6	5	A	API/A	5386	2635
102520078	S		SIRIUS-P	5	C	CR/C	1052	2560
90500541	S	NOT	TELE-X	5	N	PART	2	
100500167	SEY		SEYSAT-1	42.5	N	PART	2	2465
95540019	SEY		SEYSAT-1A	42.5	A	API/A	1176	2555
100500168	SEY		SEYSAT-2	37.5	N	PART	2	2492
100543820	SEY		SEYSAT-4A	50	A	API/A	1262	2603
105520335	SNG		ST-130E	130	C	CR/C	1727	2627
99500056	SNG		ST-1A	88	N	PART	2	2523
101520389	SNG		ST-1A-CK	88	C	CR/C	1010	2497
108540231	SNG		ST-2A-CK	88	A	API/A	5130	2623
107540723	SNG		ST-2B-CK	98.5	A	API/A	4791	2608
108540175	SNG		ST-2C-CK	110	A	API/A	5100	2617
103540742	SNG		X-SAT	N-GSO	A	API/A	2935	2565
107500492	SUI		SWISSCUBE	N-GSO	N	PART	2	2658
100500119	THA		THAICOM-A2	78.5	N	PART	2	2632
106500234	THA		THAICOM-A2B	78.5	N	PART	2	2632
106500007	THA		THAICOM-A2KA	78.5	N	PART	2	2638
101500557	THA		THAICOM-A3	120	N	PART	2	2632
106500350	THA		THAICOM-A3B	120	N	PART	2	2644
105500506	THA		THAICOM-A3KA	120	N	PART	2	2639
96500002	THA		THAICOM-AK2	78.5	N	PART	2	2351
101500558	THA		THAICOM-AK3	120	N	PART	2	2580
106500348	THA		THAICOM-C1	50.5	N	PART	2	2658

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106500349	THA		THAICOM-C2	126	N	PART	2	2644
98520171	THA		THAICOM-G12A	142	C	CR/C	1636	2560
98520251	THA		THAICOM-G1K	78.5	C	AR11/C	3357	2454
98520252	THA		THAICOM-G2K	120	C	CR/C	1055	2507
98520253	THA		THAICOM-G3K	142	C	CR/C	2414	2652
98520168	THA		THAICOM-G7A	50.5	C	AR11/C	3360	2454
98520168	THA		THAICOM-G7A	50.5	C	RES46/C	534	2454
98520169	THA		THAICOM-G8A	78.5	C	CR/C	1635	2560
105500508	THA		THAICOM-G9A	120	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
109540373	THA		THAICOM-LSX1R	50.5	A	API/A	5635	2647
107540214	THA		THAICOM-LSX4	120	A	API/A	4636	2598
109540374	THA		THAICOM-LSX4R	120	A	API/A	5636	2647
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	C	CR/C	1569	2585
108520206	THA		THAICOM-N4	126	C	CR/C	2286	2650
108540631	THA		THAICOM-N5	142	A	API/A	5388	2637
106500406	THA		THEOS	N-GSO	N	PART	2	2658
101500570	TON		TONGASAT AP-1	130	N	PART	2	2582
101500571	TON		TONGASAT AP-2	134	N	PART	2	2585
101500573	TON		TONGASAT AP-3	138	N	PART	2	2558
101500574	TON		TONGASAT AP-4	142.5	N	PART	2	2578
93500471	TON		TONGASAT C/KU-1	130	N	PART	2	2608
93500472	TON		TONGASAT C/KU-2	134	N	PART	2	2632
98500226	TON		TONGASAT C/KU-3	138	N	PART	2	2625
103500409	TON		TONGASAT C/KU-4	142.5	N	PART	2	2582
102540161	TON		TONGASAT-2/130E	130	A	API/A	2322	2594
104520119	TON		TONGASAT-2/134E	134	C	CR/C	1420	2543
104520120	TON		TONGASAT-2/138E	138	C	CR/C	1421	2543
105520377	TON		TONGASAT-2/142.5E	142.5	C	CR/C	1760	2574
105500703	TON		TONGASAT-H70	70	N	PART	2	2577
103540447	TUR		BILSAT	N-GSO	A	API/A	2723	2578
108540251	TUR		RASAT	N-GSO	A	API/A	5136	2638
107520293	TUR		TURKSAT-17E-B	17.3	C	CR/C	2141	2649
108540396	TUR		TURKSAT-19W-A	-19	A	API/A	5252	2625
95500457	TUR		TURKSAT-1A	42	N	PART	2	2639
95500458	TUR		TURKSAT-1B	31	N	PART	2	2639
99500054	TUR		TURKSAT-1C	50	N	PART	2	2639
100500442	TUR		TURKSAT-1D	42	N	PART	2	2639
108540394	TUR		TURKSAT-2.5W-A	-2.5	A	API/A	5250	2625
108540397	TUR		TURKSAT-28.5W-A	-28.5	A	API/A	5253	2625
103520350	TUR		TURKSAT-2B	31	C	CR/C	1305	2601
105520323	TUR		TURKSAT-31E-A	31	C	CR/C	1703	2634
107520294	TUR		TURKSAT-31E-B	31	C	CR/C	2142	2649
105520324	TUR		TURKSAT-42E-A	42	C	CR/C	1704	2634
107520295	TUR		TURKSAT-42E-B	42	C	CR/C	2143	2654
105520325	TUR		TURKSAT-50E-A	50	C	CR/C	1705	2629

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107520296	TUR		TURKSAT-50E-B	50	C	CR/C	2144	2649
107520297	TUR		TURKSAT-73.5E-B	73.25	C	CR/C	2145	2649
107520292	TUR		TURKSAT-8.5E-B	8.5	C	CR/C	2140	2649
108540395	TUR		TURKSAT-9.5W-A	-9.5	A	API/A	5251	2625
102520059	TUR		TURKSAT-C50E	50	C	CR/C	1025	2497
107520198	TUR		TURKSAT-EUX31	31	C	CR/C	2080	2636
107520199	TUR		TURKSAT-EUX42	42	C	CR/C	2081	2636
107520200	TUR		TURKSAT-EUX50	50	C	CR/C	2082	2636
96500024	TUR		TURKSAT-K1	31	N	PART	2	2639
101500035	TUR		TURKSAT-K2	42	N	PART	2	2639
97520106	TUR		TURKSAT-K3	50	C	AR11/C	3153	2368
104500576	TUR		TURKSAT-KX	42	N	PART	2	2639
107500094	UAE		DUBAISAT-1	N-GSO	N	PART	2	2634
108540693	UAE		DUBAISAT-2	N-GSO	A	API/A	5423	2651
109540356	UAE		DUBAISAT-2B	N-GSO	A	API/A	5627	2657
94520285	UAE		EMARSAT-1B	54	C	CR/C	1758	2573
96520082	UAE		EMARSAT-1B/M	54	C	CR/C	1851	2581
106500419	UAE		EMARSAT-1F	44	N	PART	2	2648
102520004	UAE		EMARSAT-1F/M	44	C	CR/C	1030	2638
108500025	UAE		EMARSAT-1G	52.5	N	PART	2	2629
103520328	UAE		EMARSAT-1K/M	86	C	CR/C	1300	2569
107500383	UAE		EMARSAT-1L	28.5	N	PART	2	2626
102520105	UAE		EMARSAT-1L/M	28.75	C	CR/C	1134	2655
105520117	UAE		EMARSAT-4F	44	C	CR/C	1624	2630
104520334	UAE		EMARSAT-4I/M	-68	C	CR/C	1524	2630
104520032	UAE		EMARSAT-4R	95	C	CR/C	1353	2571
108501071	UAE		EMARSAT-4S	98.5	N	PART	2	2659
106520127	UAE		EMARSAT-5G	52.5	C	CR/C	1862	2604
106520116	UAE		EMARSAT-5L	28.75	C	CR/C	1855	2630
106520115	UAE		EMARSAT-5S	98.5	C	CR/C	1856	2631
107520216	UAE		EMARSAT-6E	60	C	CR/C	2085	2632
107520254	UAE		EMARSAT-6H	67.5	C	CR/C	2096	2631
107520109	UAE		EMARSAT-6N	101	C	CR/C	2033	2604
107520148	UAE		EMARSAT-6O	112.5	C	CR/C	2044	2630
107520145	UAE		EMARSAT-6S	104.5	C	CR/C	2041	2630
108540107	UAE		EMARSAT-7A	20	A	API/A	5028	2616
108540108	UAE		EMARSAT-7A/M	-101	A	API/A	5029	2616
108540109	UAE		EMARSAT-7B	29	A	API/A	5030	2616
108540110	UAE		EMARSAT-7B/M	-110	A	API/A	5031	2616
108540111	UAE		EMARSAT-7C	38	A	API/A	5032	2616
108540112	UAE		EMARSAT-7C/M	-119	A	API/A	5033	2616
108540113	UAE		EMARSAT-7D	47	A	API/A	5034	2616
108540114	UAE		EMARSAT-7D/M	-128	A	API/A	5035	2616
108540115	UAE		EMARSAT-7E	60	A	API/A	5036	2616
108540116	UAE		EMARSAT-7E/M	-137	A	API/A	5037	2616
109520157	UAE		EMARSAT-7F	44	C	CR/C	2452	2660
108540118	UAE		EMARSAT-7F/M	-146	A	API/A	5039	2616
108540119	UAE		EMARSAT-7G	52.5	A	API/A	5040	2616
109520161	UAE		EMARSAT-7G/M	127	C	CR/C	2451	2660
108540121	UAE		EMARSAT-7H	67.5	A	API/A	5042	2616
108540122	UAE		EMARSAT-7H/M	137	A	API/A	5043	2616

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108540123	UAE		EMARSAT-7I	74	A	API/A	5044	2616
108540124	UAE		EMARSAT-7I/M	146	A	API/A	5045	2616
108540125	UAE		EMARSAT-7J	83	A	API/A	5046	2616
108540126	UAE		EMARSAT-7K	92	A	API/A	5047	2616
108540127	UAE		EMARSAT-7L	28.75	A	API/A	5048	2616
108540128	UAE		EMARSAT-7M	-68	A	API/A	5049	2616
108540129	UAE		EMARSAT-7N	101	A	API/A	5050	2616
108540130	UAE		EMARSAT-7O	112.5	A	API/A	5051	2616
108540131	UAE		EMARSAT-7P	119	A	API/A	5052	2616
108540132	UAE		EMARSAT-7Q	-20	A	API/A	5053	2616
108540133	UAE		EMARSAT-7R	-29	A	API/A	5054	2616
108520228	UAE		EMARSAT-7S	98.5	C	CR/C	2294	2652
108540135	UAE		EMARSAT-7S/M	104.5	A	API/A	5056	2616
108540136	UAE		EMARSAT-7T	-38	A	API/A	5057	2616
108540137	UAE		EMARSAT-7U	-47	A	API/A	5058	2616
108540138	UAE		EMARSAT-7V	-56	A	API/A	5059	2616
108540139	UAE		EMARSAT-7W	-65	A	API/A	5060	2616
108540140	UAE		EMARSAT-7W/M	12	A	API/A	5061	2616
108540141	UAE		EMARSAT-7X	-74	A	API/A	5062	2616
108540142	UAE		EMARSAT-7X/M	3	A	API/A	5063	2616
108540143	UAE		EMARSAT-7Y	-83	A	API/A	5064	2616
108540144	UAE		EMARSAT-7Y/M	-6	A	API/A	5065	2616
108540145	UAE		EMARSAT-7Z	-92	A	API/A	5066	2616
108540146	UAE		EMARSAT-7Z/M	-14	A	API/A	5067	2616
109540856	UAE		EMARSAT-8A	20	A	API/A	5921	2659
109540857	UAE		EMARSAT-8A/M	-102	A	API/A	5922	2659
109540858	UAE		EMARSAT-8B	29	A	API/A	5923	2659
109540859	UAE		EMARSAT-8B/M	-114	A	API/A	5924	2659
109540860	UAE		EMARSAT-8C	38	A	API/A	5925	2659
109540861	UAE		EMARSAT-8D	47	A	API/A	5926	2659
109540862	UAE		EMARSAT-8D/M	-126	A	API/A	5927	2659
109540863	UAE		EMARSAT-8E	60	A	API/A	5928	2659
109540864	UAE		EMARSAT-8E/M	-138	A	API/A	5929	2659
109540865	UAE		EMARSAT-8F/M	-150	A	API/A	5930	2659
109540866	UAE		EMARSAT-8G	52.5	A	API/A	5931	2659
109540867	UAE		EMARSAT-8G/M	127	A	API/A	5932	2659
109540868	UAE		EMARSAT-8H	67.5	A	API/A	5933	2659
109540869	UAE		EMARSAT-8H/M	137	A	API/A	5934	2659
109540870	UAE		EMARSAT-8I	74	A	API/A	5935	2659
109540871	UAE		EMARSAT-8I/M	146	A	API/A	5936	2659
109540872	UAE		EMARSAT-8J	83	A	API/A	5937	2659
109540873	UAE		EMARSAT-8K	92	A	API/A	5938	2659
109540874	UAE		EMARSAT-8L	28.75	A	API/A	5939	2659
109540875	UAE		EMARSAT-8N	101	A	API/A	5940	2659
109540876	UAE		EMARSAT-8O	112.5	A	API/A	5941	2659
109540877	UAE		EMARSAT-8P	119	A	API/A	5942	2659
109540878	UAE		EMARSAT-8R	-30	A	API/A	5943	2659
109540879	UAE		EMARSAT-8U	-42	A	API/A	5944	2659
109540880	UAE		EMARSAT-8V	-54	A	API/A	5945	2659
109540881	UAE		EMARSAT-8W	-66	A	API/A	5946	2659
109540882	UAE		EMARSAT-8W/M	12	A	API/A	5947	2659

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109540884	UAE		EMARSAT-8X/M	3	A	API/A	5949	2659
109540885	UAE		EMARSAT-8Y/M	-6	A	API/A	5950	2659
109540886	UAE		EMARSAT-8Z	-90	A	API/A	5951	2659
109540887	UAE		EMARSAT-8Z/M	-18	A	API/A	5952	2659
106520117	UAE		EMARSAT-S2	-58.75	C	CR/C	1854	2629
106520128	UAE		YAHSAT	52.5	C	CR/C	1863	2605
107540554	UAE		YAHSAT-10E	10	A	API/A	4735	2604
107540555	UAE		YAHSAT-15E	15	A	API/A	4736	2604
107540556	UAE		YAHSAT-20E	20	A	API/A	4737	2604
107540557	UAE		YAHSAT-25E	25	A	API/A	4738	2604
107540558	UAE		YAHSAT-28.5E	28.5	A	API/A	4739	2604
107540559	UAE		YAHSAT-30E	30	A	API/A	4740	2604
107540560	UAE		YAHSAT-33E	33	A	API/A	4741	2604
107540561	UAE		YAHSAT-39E	39	A	API/A	4742	2604
108520092	UAE		YAHSAT-46E	46	C	CR/C	2201	2642
108520093	UAE		YAHSAT-57E	57	C	CR/C	2202	2642
107540553	UAE		YAHSAT-5E	5	A	API/A	4734	2604
108520066	UAE		YAHSAT-60E	60	C	CR/C	2170	2641
108520094	UAE		YAHSAT-63E	63	C	CR/C	2203	2642
108540041	UAE		YAHSAT-EHF-20E	20	A	API/A	4973	2614
108540042	UAE		YAHSAT-EHF-25E	25	A	API/A	4974	2614
108520230	UAE		YAHSAT-EHF-33E	33	C	CR/C	2287	2646
108540044	UAE		YAHSAT-EHF-35E	35	A	API/A	4976	2614
108540045	UAE		YAHSAT-EHF-40E	40	A	API/A	4977	2614
108540046	UAE		YAHSAT-EHF-46E	46	A	API/A	4978	2614
108520231	UAE		YAHSAT-EHF-50.5E	50.5	C	CR/C	2288	2646
108520232	UAE		YAHSAT-EHF-52.5E	52.5	C	CR/C	2289	2646
108520233	UAE		YAHSAT-EHF-57E	57	C	CR/C	2290	2646
108520234	UAE		YAHSAT-EHF-60E	60	C	CR/C	2291	2646
108540051	UAE		YAHSAT-EHF-63E	63	A	API/A	4983	2614
108520235	UAE		YAHSAT-EHF-67.5E	67.5	C	CR/C	2292	2646
108540053	UAE		YAHSAT-EHF-70E	70	A	API/A	4985	2614
107540785	UAE		YAHSAT-KA-0	0	A	API/A	4844	2610
107540787	UAE		YAHSAT-KA-10E	10	A	API/A	4846	2610
107540783	UAE		YAHSAT-KA-10W	-10	A	API/A	4842	2610
108520229	UAE		YAHSAT-KA1-52.5E	52.5	C	CR/C	2293	2652
107540788	UAE		YAHSAT-KA-15E	15	A	API/A	4847	2610
108520284	UAE		YAHSAT-KA-17.5W	-17.5	C	CR/C	2323	2656
107540789	UAE		YAHSAT-KA-20E	20	A	API/A	4848	2610
107540790	UAE		YAHSAT-KA-25E	25	A	API/A	4849	2610
108520134	UAE		YAHSAT-KA-33E	33	C	CR/C	2223	2644
107540792	UAE		YAHSAT-KA-35E	35	A	API/A	4851	2610
107540793	UAE		YAHSAT-KA-40E	40	A	API/A	4852	2610
108520140	UAE		YAHSAT-KA-47.5E	47.5	C	CR/C	2235	2645
108520135	UAE		YAHSAT-KA-50.5E	50.5	C	CR/C	2224	2644
107540786	UAE		YAHSAT-KA-5E	5	A	API/A	4845	2610
107540784	UAE		YAHSAT-KA-5W	-5	A	API/A	4843	2610
107540797	UAE		YAHSAT-KA-60E	60	A	API/A	4856	2610
108540054	UAE		YAHSAT-KA-65E	65	A	API/A	5024	2615
107540798	UAE		YAHSAT-KA-67.5E	67.5	A	API/A	4857	2610

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108540446	UAE		YAHSAT-N-10E	10	A	API/A	5284	2629
108540447	UAE		YAHSAT-N-10W	-10	A	API/A	5285	2629
108540448	UAE		YAHSAT-N-15E	15	A	API/A	5286	2629
108540449	UAE		YAHSAT-N-20E	20	A	API/A	5287	2629
109520029	UAE		YAHSAT-N-20W	-20	C	CR/C	2375	2644
108540451	UAE		YAHSAT-N-25E	25	A	API/A	5289	2629
108540452	UAE		YAHSAT-N-30E	30	A	API/A	5290	2629
108540453	UAE		YAHSAT-N-30W	-30	A	API/A	5291	2629
108540454	UAE		YAHSAT-N-35E	35	A	API/A	5292	2629
108540455	UAE		YAHSAT-N-40E	40	A	API/A	5293	2629
108540456	UAE		YAHSAT-N-40W	-40	A	API/A	5294	2629
109520140	UAE		YAHSAT-N-46E	46	C	CR/C	2436	2656
108540458	UAE		YAHSAT-N-47E	47	A	API/A	5296	2629
108540459	UAE		YAHSAT-N-50E	50	A	API/A	5297	2629
108540460	UAE		YAHSAT-N-50W	-50	A	API/A	5298	2629
109520148	UAE		YAHSAT-N-52.5E	52.5	C	CR/C	2437	2656
108540462	UAE		YAHSAT-N-55E	55	A	API/A	5300	2629
109520141	UAE		YAHSAT-N-57E	57	C	CR/C	2438	2656
108540445	UAE		YAHSAT-N-5W	-5	A	API/A	5283	2629
108540464	UAE		YAHSAT-N-60E	60	A	API/A	5302	2629
108540465	UAE		YAHSAT-N-60W	-60	A	API/A	5303	2629
109520142	UAE		YAHSAT-N-63E	63	C	CR/C	2439	2656
108540467	UAE		YAHSAT-N-65E	65	A	API/A	5305	2629
108540468	UAE		YAHSAT-N-67.5E	67.5	A	API/A	5306	2629
108540469	UAE		YAHSAT-N-70E	70	A	API/A	5307	2629
108540470	UAE		YAHSAT-N-80E	80	A	API/A	5308	2629
108540444	UAE		YAHSAT-N-8E	8	A	API/A	5282	2660
107500013	UKR		SICH-2	N-GSO	N	PART	2	2609
109540393	UKR		UKRSAT-43E	43	A	API/A	5655	2648
107520023	UKR		UKRSAT-KA-34.5E	34.5	C	CR/C	1936	2611
108520133	UKR		UKRSAT-KA-38.2E	38.2	C	CR/C	2322	2656
109540022	UKR		UKRSAT-KU-38.2E	38.2	A	API/A	5516	2639
106500338	UKR		YAVIR-1	N-GSO	N	PART	2	2607
100520145	URG		VENESAT-1	-78	C	CR/C	544	2583
107520040	URG		VENESAT-1A	-78	C	CR/C	2045	2623
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
102500532	USA		ACS-1	-101	N	PART	2	2636
103500278	USA		AFRIBSS	21	N	PART	2	2562
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
109540036	USA		AQUARIUS	N-GSO	A	API/A	5526	2654
90500615	USA		ASC-1	-128	N	PART	2	
90500611	USA		ATS-5	-105	N	PART	2	
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

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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
90500525	USA		COMSTAR D-2	-95	N	PART	2	
109540364	USA		COSMIC	N-GSO	A	API/A	5631	2653
105500717	USA		CP1	N-GSO	N	PART	2	2640
109540033	USA		CP6	N-GSO	A	API/A	5521	2659
90504402	USA		CRRES	N-GSO	N	PART	2	2166
104500387	USA		DAWN	N-GSO	N	PART	2	2609
103500255	USA		DEEP IMPACT	N-GSO	N	PART	2	2592
98500032	USA		EMU-SSCS	N-GSO	N	PART	2	2591
97500289	USA		EOS AM	N-GSO	N	PART	2	2591
99500040	USA		EOS PM	N-GSO	N	PART	2	2613
90504403	USA		ERBS	N-GSO	N	PART	2	2573
94500029	USA		FAST	N-GSO	N	PART	2	2591
90500265	USA		FLTSATCOM ATL	-23	N	PART	2	
90500266	USA		FLTSATCOM E PAC	-100	N	PART	2	
90500264	USA		FLTSATCOM W PAC	172	N	PART	2	
105520022	USA		FLTSATCOM-A INDOC-4	100	C	CR/C	1533	2585
92500294	USA		FLTSATCOM-A W PAC	-177	N	PART	2	2543
90500270	USA		FLTSATCOM-B EAST ATL	-22.5	N	PART	2	2543
90500271	USA		FLTSATCOM-B EAST PAC	-100	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	N	PART	2	2442
93500148	USA		FLTSATCOM-C E PAC-2	-100	N	PART	2	2481
93500635	USA		FLTSATCOM-C INDOC-1	29	N	PART	2	2497
93500636	USA		FLTSATCOM-C INDOC-2	72	N	PART	2	2498
93500637	USA		FLTSATCOM-C INDOC-3	75	N	PART	2	2500
93500640	USA		FLTSATCOM-C W PAC-1	172	N	PART	2	2504
93500641	USA		FLTSATCOM-C W PAC-2	-177	N	PART	2	2502
93500147	USA		FLTSATCOM-C W PAC-3	-145	N	PART	1	2621
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
107520047	USA		GOES 60W	-60	C	CR/C	1986	2639
90500361	USA		GOES EAST	-75	N	PART	2	
90500362	USA		GOES WEST	-135	N	PART	2	
103500401	USA		GOES-EAST-1	-75	N	PART	2	2625
106520151	USA		GOES-EAST-2	-75	C	CR/C	1883	2609
108520297	USA		GOES-EAST-3	-75	C	CR/C	2339	2658
103500402	USA		GOES-WEST-1	-135	N	PART	2	2625
106520152	USA		GOES-WEST-2	-135	C	CR/C	1884	2609
108520296	USA		GOES-WEST-3	-137	C	CR/C	2340	2658
109540831	USA		GPM	N-GSO	A	API/A	5920	2659
109540035	USA		GRAIL	N-GSO	A	API/A	5525	2654
100500185	USA		GRAVITY PROBE-B	N-GSO	N	PART	2	2591

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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	2638
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
90501108	USA		INTELSAT IBS 307E	-53	N	PART	2	2614
92500179	USA		INTELSAT IBS 342E	-18	N	PART	2	2543
99543699	USA		INTELSAT KA 145E	145	A	API/A	1106	2410
105520163	USA		INTELSAT KAEXT 121W	-121	C	CR/C	1673	2600
105520160	USA		INTELSAT KAEXT 67.5W	-67.5	C	CR/C	1670	2600
105520161	USA		INTELSAT KAEXT 89W	-89	C	CR/C	1671	2600
105520162	USA		INTELSAT KAEXT 97W	-97	C	CR/C	1672	2600
106500581	USA		INTELSAT KFOS 85E	85	N	PART	2	2653
106500076	USA		INTELSAT10 310E	-50	N	PART	2	2645
107500486	USA		INTELSAT10 359E	-1	N	PART	2	2655
106500249	USA		INTELSAT5 33E	33	N	PART	2	2644
90500666	USA		INTELSAT5 INDOC4	66	N	PART	2	2543
90500678	USA		INTELSAT5 PAC2	177	N	PART	2	2450
90500677	USA		INTELSAT5 PAC3	180	N	PART	2	2614
100500228	USA		INTELSAT5A 157E	157	N	PART	2	2643
100500274	USA		INTELSAT5A 304.5E	-55.5	N	PART	2	2543
92500180	USA		INTELSAT5A 342E	-18	N	PART	2	2543
93500468	USA		INTELSAT5A 66E	66	N	PART	2	2543
93500015	USA		INTELSAT5A ATL6	-31	N	PART	2	2543
90500630	USA		INTELSAT5A CONT1	-53	N	PART	2	2529
92500184	USA		INTELSAT5A CONT2	-50	N	PART	2	2543
90500634	USA		INTELSAT5A CONT4	-1	N	PART	2	2543
90910018	USA		INTELSAT5A INDOC3	63	N	PART	2	2543
90910003	USA		INTELSAT5A PAC1	174	N	PART	2	2543
103500073	USA		INTELSAT6 157E	157	N	PART	2	2643
106500239	USA		INTELSAT6 178E	178	N	PART	2	2639
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	N	PART	2	2644
91910088	USA		INTELSAT6 60E	60	N	PART	2	2614
99500102	USA		INTELSAT6 62E	62	N	PART	2	2614
94520053	USA		INTELSAT6 64E	64	C	AR11/C	2442	2450
107500324	USA		INTELSAT6 85E	85	N	PART	2	2652
102500192	USA		INTELSAT7 157E	157	N	PART	2	2647
93500545	USA		INTELSAT7 174E	174	N	PART	2	2450
106500583	USA		INTELSAT7 176E	176	N	PART	2	2649
96500027	USA		INTELSAT7 177E	177	N	PART	2	2450
106500585	USA		INTELSAT7 178E	178	N	PART	2	2649

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102500193	USA		INTELSAT7 304.5E	-55.5	N	PART	2	2652
96500437	USA		INTELSAT7 307E	-53	N	PART	2	2585
95500117	USA		INTELSAT7 310E	-50	N	PART	2	2450
102500182	USA		INTELSAT7 325.5E	-34.5	N	PART	2	2645
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	N	PART	2	2603
101500277	USA		INTELSAT7 340E	-20	N	PART	2	2541
97500430	USA		INTELSAT7 342E	-18	N	PART	2	2450
94500331	USA		INTELSAT7 359E	-1	N	PART	2	2450
103500005	USA		INTELSAT7 62E	62	N	PART	2	2569
103500006	USA		INTELSAT7 64E	64	N	PART	2	2568
95500027	USA		INTELSAT7 66E	66	N	PART	2	2565
102500011	USA		INTELSAT7 85E	85	N	PART	2	2633
103500004	USA		INTELSAT8 157E	157	N	PART	2	2651
99500206	USA		INTELSAT8 174E	174	N	PART	2	2652
103500403	USA		INTELSAT8 176E	176	N	PART	2	2630
108500028	USA		INTELSAT8 178E	178	N	PART	2	2659
101500003	USA		INTELSAT8 304.5E	-55.5	N	PART	2	2591
103500100	USA		INTELSAT8 307E	-53	N	PART	2	2648
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	2636
102500023	USA		INTELSAT8 332.5E	-27.5	N	PART	2	2605
102500022	USA		INTELSAT8 335.5E	-24.5	N	PART	2	2644
103500069	USA		INTELSAT8 33E	33	N	PART	2	2566
103500007	USA		INTELSAT8 340E	-20	N	PART	2	2646
101500421	USA		INTELSAT8 342E	-18	N	PART	2	2623
103500098	USA		INTELSAT8 359E	-1	N	PART	2	2647
102500056	USA		INTELSAT8 60E	60	N	PART	2	2651
105500094	USA		INTELSAT8 62E	62	N	PART	2	2656
99500053	USA		INTELSAT8 64E	64	N	PART	2	2608
102500012	USA		INTELSAT8 85E	85	N	PART	2	2646
107500152	USA		INTELSAT9 174E	174	N	PART	2	2647
106500242	USA		INTELSAT9 176E	176	N	PART	2	2643
106500243	USA		INTELSAT9 178E	178	N	PART	2	2641
107500311	USA		INTELSAT9 304.5E	-55.5	N	PART	2	2652
107500312	USA		INTELSAT9 307E	-53	N	PART	2	2652
107500329	USA		INTELSAT9 310E	-50	N	PART	2	2652
107500313	USA		INTELSAT9 325.5E	-34.5	N	PART	2	2650
107500330	USA		INTELSAT9 328.5E	-31.5	N	PART	2	2656
107500331	USA		INTELSAT9 330.5E	-29.5	N	PART	2	2656
107500332	USA		INTELSAT9 332.5E	-27.5	N	PART	2	2656
107500333	USA		INTELSAT9 335.5E	-24.5	N	PART	2	2655
98520128	USA		INTELSAT9 33E	33	C	CR/C	533	2483
107500334	USA		INTELSAT9 340E	-20	N	PART	2	2655
107500339	USA		INTELSAT9 342E	-18	N	PART	2	2655
107500335	USA		INTELSAT9 359E	-1	N	PART	2	2656
107500325	USA		INTELSAT9 60E	60	N	PART	2	2654

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107500326	USA		INTELSAT9 62E	62	N	PART	2	2656
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107500328	USA		INTELSAT9 66E	66	N	PART	2	2657
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
106520053	USA		IRIS-10R	29	C	CR/C	1807	2603
106520054	USA		IRIS-11R	125	C	CR/C	1808	2603
106520044	USA		IRIS-1R	-105	C	CR/C	1798	2603
106520045	USA		IRIS-2R	-100	C	CR/C	1799	2603
106520046	USA		IRIS-3R	-22.5	C	CR/C	1800	2603
106520047	USA		IRIS-4R	-15.5	C	CR/C	1801	2603
106520048	USA		IRIS-5R	72	C	CR/C	1802	2603
106520049	USA		IRIS-6R	75	C	CR/C	1803	2603
106520050	USA		IRIS-7R	172	C	CR/C	1804	2603
106520051	USA		IRIS-8R	-177	C	CR/C	1805	2603
106520052	USA		IRIS-9R	-145	C	CR/C	1806	2603
98500030	USA		ISS SSCS	N-GSO	N	PART	2	2592
108540580	USA		ISS-COTS1	N-GSO	A	API/A	5344	2651
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	2639
104500337	USA		KASATCOM-2	-22.5	N	PART	2	2596
104500336	USA		KASATCOM-3	72	N	PART	2	2597
104500338	USA		KASATCOM-5	172	N	PART	2	2602
106500296	USA		KEPLER	N-GSO	N	PART	2	2656
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
108540636	USA		LDCM	N-GSO	A	API/A	5390	2650
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
100520444	USA		LM-RPS-107.3W	-107.3	C	CR/C	770	2574
100544003	USA		LM-RPS-11E	11	A	API/A	1381	2522
100544005	USA		LM-RPS-131.8E	131.8	A	API/A	1383	2606
100520445	USA		LM-RPS-133W	-133	C	CR/C	771	2574
100544004	USA		LM-RPS-71E	71	A	API/A	1382	2606
100544006	USA		LM-RPS-79W	-79	A	API/A	1384	2606
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		MARSGLOBALSURVEYOR	N-GSO	N	PART	2	2593
106540547	USA		MAST	N-GSO	A	API/A	4363	2584
106500580	USA		MCS-1	-101	N	PART	2	2644
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

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94500313	USA		MICROLAB-1	N-GSO	N	PART	2	2593
107520118	USA		MIDSTAR-1	N-GSO	C	CR/C	2111	2633
95500504	USA		MILSTAR 1	-90	N	PART	2	2592
95500516	USA		MILSTAR 13	4	N	PART	2	2592
95500517	USA		MILSTAR 14	177.5	N	PART	2	2593
95500507	USA		MILSTAR 4	55	N	PART	2	2592
95500508	USA		MILSTAR 5	90	N	PART	2	2594
95500509	USA		MILSTAR 6	-120	N	PART	2	2593
95500511	USA		MILSTAR 8	-68	N	PART	2	2592
109540751	USA		MMS	N-GSO	A	API/A	5902	2658
104500107	USA		MRO	N-GSO	N	PART	2	2584
108500627	USA		MSL	N-GSO	N	PART	2	2645
96520043	USA		MSSLEO-3	N-GSO	C	RES46/C	383	2309
102540248	USA		MSV-1	-101	A	API/A	2384	2594
106520129	USA		MSV-1A	-101	C	CR/C	1867	2605
106520034	USA		MSV-SA	-63.5	C	CR/C	1794	2601
105500120	USA		MTI	N-GSO	N	PART	2	2607
108500792	USA		NANOSAIL-D	N-GSO	N	PART	2	2647
90504609	USA		NAVSTAR GPS	N-GSO	N	PART	2	2593
103500110	USA		NAVSTAR GPS-IIRF	N-GSO	N	PART	2	2645
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	2658
105500436	USA		NPP	N-GSO	N	PART	2	2660
109540752	USA		NUSTAR	N-GSO	A	API/A	5903	2658
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	
108540735	USA		OSTM	N-GSO	A	API/A	5500	2653
98500199	USA		P-197-1	N-GSO	N	PART	2	2613
105500432	USA		P-197-2	-144	N	PART	2	2593
105500433	USA		P-197-3	-141	N	PART	2	2593
105500434	USA		P-197-4	-13	N	PART	2	2593
105500435	USA		P-197-5	-10	N	PART	2	2593
95500118	USA		P92-1	N-GSO	N	PART	2	2593
95500119	USA		P92-2	N-GSO	N	PART	2	2593
96500496	USA		P92-3	-10	N	PART	2	2510
96500497	USA		P92-4	-13	N	PART	2	2511
95500606	USA		P92-5	-141	N	PART	2	2396
95500607	USA		P92-6	-144	N	PART	2	2396
90504615	USA		PAM	N-GSO	N	PART	2	2573
106500336	USA		PHOENIX	N-GSO	N	PART	2	2637
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
108500793	USA		PRESAT	N-GSO	N	PART	2	2647
98500027	USA		QUIKSCAT	N-GSO	N	PART	2	2594
108540659	USA		RBSP	N-GSO	A	API/A	5389	2650
105540383	USA		RINCON1	N-GSO	A	API/A	3716	2549

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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
90500298	USA		SPACENET-3	-87	N	PART	2	
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
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
107520009	USA		TDRS 12W	-12	C	CR/C	2060	2609
106520032	USA		TDRS 133E	133	C	CR/C	1865	2584
109540059	USA		TDRS 167.5W	-167.5	A	API/A	5543	2653
90500641	USA		TDRS 174W	-174	N	PART	2	2647
93500227	USA		TDRS 46W	-46	N	PART	2	2647
101500534	USA		TDRS 49W	-49	N	PART	2	2588
91910045	USA		TDRS 62W	-62	N	PART	2	2588
95500076	USA		TDRS 85E	85	N	PART	2	2588
106520031	USA		TDRS 89E	89	C	CR/C	1864	2644
90500644	USA		TDRS CENTRAL	-79	N	PART	2	
90500646	USA		TDRS EAST	-41	N	PART	2	2652
90500647	USA		TDRS WEST	-171	N	PART	2	2647
104520203	USA		TDRS-174W-ISS	-174	C	CR/C	1487	2547
104520205	USA		TDRS-46W-ISS	-46	C	CR/C	1486	2547
91910108	USA		TDRS-C2	-79	N	PART	2	2588
108500041	USA		TDRS-EAST-ISS	-41	N	PART	2	2660
104520206	USA		TDRS-WEST-ISS	-171	C	CR/C	1484	2547
105500023	USA		THEMIS	N-GSO	N	PART	2	2605
109540587	USA		THEMIS-LUNAR	N-GSO	A	API/A	5805	2654
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
90500452	USA		US SATCOM 1-R	-139	N	PART	2	2097
102520185	USA		USABSN-1	-101	C	CR/C	1110	2655
102540128	USA		USABSN-10	-114.5	A	API/A	2303	2470
108520118	USA		USABSN-10A	-110.4	C	CR/C	2211	2643
102540129	USA		USABSN-11	-119	A	API/A	2304	2470
106540665	USA		USABSN-11A	-119	A	API/A	4382	2585
107520056	USA		USABSN-12	-103	C	CR/C	2009	2618

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109520058	USA		USABSN-12A	-103	C	CR/C	2389	2648
107520057	USA		USABSN-13	-99	C	CR/C	2010	2618
109520059	USA		USABSN-13A	-99	C	CR/C	2390	2648
108520119	USA		USABSN-15	-75	C	CR/C	2212	2643
108520120	USA		USABSN-16	-62.15	C	CR/C	2213	2643
102540120	USA		USABSN-2	-96.5	A	API/A	2295	2470
108540238	USA		USABSN-21	-79	A	API/A	5132	2620
109520003	USA		USABSN-22	-70	C	CR/C	2401	2649
108540529	USA		USABSN-23	-118.4	A	API/A	5330	2631
102540121	USA		USABSN-3	-105.5	A	API/A	2296	2470
102540122	USA		USABSN-4	-91	A	API/A	2297	2594
102540123	USA		USABSN-5	-101	A	API/A	2298	2470
102540124	USA		USABSN-6	-110	A	API/A	2299	2470
102540125	USA		USABSN-7	-107	A	API/A	2300	2470
102540126	USA		USABSN-8	-117	A	API/A	2301	2470
102540127	USA		USABSN-9	-110	A	API/A	2302	2470
108520117	USA		USABSN-9A	-107	C	CR/C	2210	2643
99500088	USA		USABSS-1	-101.2	N	PART	2	2455
98500238	USA		USABSS-10	-119	N	PART	2	2442
99500089	USA		USABSS-2	-100.8	N	PART	2	2487
99500090	USA		USABSS-5	-110	N	PART	2	2454
99500091	USA		USABSS-6	-110.2	N	PART	2	2493
99500092	USA		USABSS-7	-119	N	PART	2	2487
98500237	USA		USABSS-8	-61.5	N	PART	2	2453
106540173	USA		USAKA-H1	N-GSO	A	API/A	4125	2575
108540530	USA		USAKA-H2	N-GSO	A	API/A	5331	2632
98520759	USA		USAMEO-4	N-GSO	C	CR/C	1658	2562
105500622	USA		USAS	N-GSO	N	PART	2	2631
104500213	USA		USASAT 13I(30B)	-45	N	PART	2	2582
104500214	USA		USASAT 26G(30B)	-58	N	PART	2	2582
90504198	USA		USASAT-11D	-134	N	PART	2	2097
90501104	USA		USASAT-12B	-93.5	N	PART	2	2097
99500229	USA		USASAT-12C	-76	N	PART	2	2499
96500511	USA		USASAT-13I	-45	N	PART	2	2574
103500168	USA		USASAT-13I-2	-45	N	PART	2	2577
103500279	USA		USASAT-14E	-174.3	N	PART	2	2576
101500545	USA		USASAT-14G	169	N	PART	2	2583
101500547	USA		USASAT-14H	166	N	PART	2	2644
101500407	USA		USASAT-14I	68.5	N	PART	2	2633
105500472	USA		USASAT-14I-2	68	N	PART	2	2593
103520320	USA		USASAT-14I-3	68.5	C	CR/C	1293	2528
101500405	USA		USASAT-14J	72	N	PART	2	2580
105500377	USA		USASAT-14J-2	72	N	PART	2	2581
103500458	USA		USASAT-14K	172	N	PART	2	2628
106500246	USA		USASAT-14L	-15	N	PART	2	2597
98520746	USA		USASAT-14N	-47	C	CR/C	1725	2570
101500415	USA		USASAT-15B	-74	N	PART	2	2580
99500140	USA		USASAT-21A	-135	N	PART	2	2458
104500020	USA		USASAT-22A	-133	N	PART	2	2553
101500395	USA		USASAT-22B	-125	N	PART	2	2549
101500414	USA		USASAT-22E	-74	N	PART	2	2555

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99500142	USA		USASAT-22G	-137	N	PART	2	2458
99500141	USA		USASAT-22H	-131	N	PART	2	2458
103500021	USA		USASAT-22I	-139	N	PART	2	2504
105500224	USA		USASAT-22J	-137	N	PART	2	2652
108500941	USA		USASAT-22K	-135	N	PART	2	2652
102500351	USA		USASAT-23F	-95	N	PART	2	2589
106500094	USA		USASAT-23G	-121	N	PART	2	2637
101500075	USA		USASAT-23H	-105	N	PART	2	2507
101500399	USA		USASAT-24D	-97	N	PART	2	2615
101500404	USA		USASAT-24E	-89	N	PART	2	2633
101500427	USA		USASAT-24F	-103	N	PART	2	2580
101500406	USA		USASAT-24J	-99	N	PART	2	2633
101500413	USA		USASAT-24K	-91	N	PART	2	2612
101500426	USA		USASAT-24L	-95	N	PART	2	2612
104500271	USA		USASAT-24N	-129	N	PART	2	2651
106500048	USA		USASAT-24O	-127	N	PART	2	2588
103500020	USA		USASAT-24P	-123	N	PART	2	2585
105500167	USA		USASAT-24Q	-77	N	PART	2	2619
104500286	USA		USASAT-24S	-93	N	PART	2	2651
105500240	USA		USASAT-24T	-87	N	PART	2	2652
105500241	USA		USASAT-24U	-85	N	PART	2	2652
105500235	USA		USASAT-24V	-83	N	PART	2	2652
105500234	USA		USASAT-24W	-79	N	PART	2	2652
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	N	PART	2	2576
104500278	USA		USASAT-25D	-45	N	PART	2	2627
101500120	USA		USASAT-25E	-47	N	PART	2	2508
101500278	USA		USASAT-25G	-58	N	PART	2	2644
102500471	USA		USASAT-26A	-37.5	N	PART	2	2593
101500542	USA		USASAT-26C	-43	N	PART	2	2578
101500397	USA		USASAT-26G	-58	N	PART	2	2644
103520284	USA		USASAT-26G-3	-58	C	CR/C	1263	2565
100500337	USA		USASAT-28C	N-GSO	N	PART	2	2633
97520353	USA		USASAT-28F	-85.1	C	CR/C	1409	2615
97520354	USA		USASAT-28G	-115	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	C	CR/C	2007	2618
108540526	USA		USASAT-28M	N-GSO	A	API/A	5327	2631
95500460	USA		USASAT-30A	N-GSO	N	PART	2	2636
96500526	USA		USASAT-30B	N-GSO	N	PART	2	2613
103500092	USA		USASAT-30C	N-GSO	N	PART	2	2595
105500186	USA		USASAT-31G	-121	N	PART	2	2649
105500185	USA		USASAT-31I	-113	N	PART	2	2649
105500184	USA		USASAT-31K	-105	N	PART	2	2649
105500084	USA		USASAT-31L	-103	N	PART	2	2652
105500085	USA		USASAT-31M	-101	N	PART	2	2651
105500086	USA		USASAT-31N	-99	N	PART	2	2651
108500666	USA		USASAT-31O	-97	N	PART	2	2649
105500164	USA		USASAT-31S	-89	N	PART	2	2651

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105500183	USA		USASAT-31U	-85	N	PART	2	2652
105500166	USA		USASAT-32A	-117	N	PART	2	2652
108501176	USA		USASAT-35A	-131	N	PART	2	2657
108501064	USA		USASAT-35C	-127	N	PART	2	2653
107500538	USA		USASAT-35D	-125	N	PART	2	2631
108501117	USA		USASAT-35E	-123	N	PART	2	2655
105500476	USA		USASAT-35G	-105	N	PART	2	2652
105500502	USA		USASAT-35H	-103	N	PART	2	2655
105500501	USA		USASAT-35I	-101	N	PART	2	2656
108501094	USA		USASAT-35J	-99	N	PART	2	2652
105500494	USA		USASAT-35K	-97	N	PART	2	2652
105500381	USA		USASAT-35L	-95	N	PART	2	2652
105500493	USA		USASAT-35M	-93	N	PART	2	2652
105500380	USA		USASAT-35N	-91	N	PART	2	2653
105500477	USA		USASAT-35O	-89	N	PART	2	2632
105500518	USA		USASAT-35P	-87	N	PART	2	2653
105500517	USA		USASAT-35Q	-85	N	PART	2	2644
108501118	USA		USASAT-35R	-83	N	PART	2	2652
108501116	USA		USASAT-35T	-79	N	PART	2	2653
106500245	USA		USASAT-35V	-74	N	PART	2	2604
105500514	USA		USASAT-35W	-72	N	PART	2	2653
108501147	USA		USASAT-35Y	-133	N	PART	2	2653
90501111	USA		USASAT-3C	-85	N	PART	2	
105520031	USA		USASAT-50A	-127	C	CR/C	1553	2555
105520032	USA		USASAT-50B	-133	C	CR/C	1554	2555
105520033	USA		USASAT-50C	-125	C	CR/C	1555	2555
104520229	USA		USASAT-50D	-43	C	CR/C	1446	2545
106520026	USA		USASAT-55A	-109	C	CR/C	1791	2575
104520230	USA		USASAT-55F	-43	C	CR/C	1447	2578
104520292	USA		USASAT-55G	-45	C	CR/C	1403	2541
107520050	USA		USASAT-55H	-125	C	CR/C	1987	2618
106520108	USA		USASAT-55I	33	C	CR/C	1853	2582
107520201	USA		USASAT-55J	-1	C	CR/C	2086	2612
108540341	USA		USASAT-55K	-31.5	A	API/A	5221	2623
108540480	USA		USASAT-55L	169	A	API/A	5315	2630
109540572	USA		USASAT-55M	-58	A	API/A	5793	2654
109540503	USA		USASAT-55N	85	A	API/A	5738	2660
109540736	USA		USASAT-55O	-50	A	API/A	5882	2657
104520197	USA		USASAT-60A	172	C	CR/C	1457	2546
104520063	USA		USASAT-60B	166	C	CR/C	1463	2546
103520429	USA		USASAT-60C	68.5	C	CR/C	1285	2526
105520034	USA		USASAT-60E	-91	C	CR/C	1556	2585
105520035	USA		USASAT-60F	-95	C	CR/C	1557	2585
105520036	USA		USASAT-60G	-99	C	CR/C	1558	2585
105520037	USA		USASAT-60H	-123	C	CR/C	1559	2585
104520227	USA		USASAT-60I	-45	C	CR/C	1404	2575
104520228	USA		USASAT-60J	169	C	CR/C	1434	2544
106520006	USA		USASAT-60L	-74	C	CR/C	1825	2603
106520073	USA		USASAT-60M	-77	C	CR/C	1830	2603
108520193	USA		USASAT-60N	33	C	CR/C	2341	2658
109540361	USA		USASAT-60O	50.75	A	API/A	5630	2646

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106520029	USA		USASAT-66C	-121	C	CR/C	1793	2575
90500349	USA		USASAT-6A	-97	N	PART	2	2307
90500350	USA		USASAT-6C	-95	N	PART	2	
104520172	USA		USASAT-70A	-62	C	CR/C	1435	2578
104520173	USA		USASAT-70B	-71	C	CR/C	1436	2578
104520174	USA		USASAT-70C	-119	C	CR/C	1437	2578
104520175	USA		USASAT-70D	-129	C	CR/C	1438	2578
104520176	USA		USASAT-70E	-77	C	CR/C	1439	2578
104520113	USA		USASAT-70G	-87	C	CR/C	1425	2576
104520202	USA		USASAT-70K	-97	C	CR/C	1475	2581
104520226	USA		USASAT-70L	-117	C	CR/C	1488	2600
106520028	USA		USASAT-70N	-113	C	CR/C	1792	2600
105520297	USA		USASAT-70O	-95	C	CR/C	1708	2594
106540478	USA		USASAT-70U	-87	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	C	CR/C	1643	2589
107520269	USA		USASAT-71B	-77.3	C	CR/C	2116	2635
108540174	USA		USASAT-71C	-115	A	API/A	5099	2617
108540531	USA		USASAT-71D	-121	A	API/A	5332	2632
108540532	USA		USASAT-71E	-83	A	API/A	5333	2632
108540533	USA		USASAT-71F	34	A	API/A	5334	2632
108540534	USA		USASAT-71G	130	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
109540588	USA		USASAT-71J	-89	A	API/A	5863	2656
106520094	USA		USASAT-76D	116.5	C	CR/C	1832	2603
101500073	USA		USASAT-7D	-101	N	PART	2	2491
90500511	USA		USASAT-8B	-72	N	PART	2	
101500396	USA		USASAT-9A	-91	N	PART	2	2493
101500077	USA		USASAT-9C	-85	N	PART	2	2630
101500076	USA		USASAT-9D	-81	N	PART	2	2630
106540139	USA		USAVKA-H1	N-GSO	A	API/A	4109	2574
106500342	USA		USBUD-1	100	N	PART	2	2657
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	2660
104500352	USA		USCSID-A1	0	N	PART	2	2598
104500353	USA		USCSID-A2	44	N	PART	2	2633
104500354	USA		USCSID-A3	75	N	PART	2	2633
104500355	USA		USCSID-A4	82	N	PART	2	2633
104500356	USA		USCSID-A5	92	N	PART	2	2621
104500357	USA		USCSID-A6	110	N	PART	2	2621
104500358	USA		USCSID-E1	-10	N	PART	2	2600
104500359	USA		USCSID-E2	-13	N	PART	2	2622
104500360	USA		USCSID-E3	-24	N	PART	2	2597
104500361	USA		USCSID-E4	-30	N	PART	2	2622
96500158	USA		USCSID-P	N-GSO	N	PART	2	2646
104500362	USA		USCSID-W1	-141	N	PART	2	2621
104500363	USA		USCSID-W2	-144	N	PART	2	2622

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107500365	USA		USDKA2	-69	N	PART	2	2628
106500292	USA		USDKH2	-30.4	N	PART	2	2642
104500514	USA		USGAE-1	-90	N	PART	2	2633
98520401	USA		USGAE-10	-150	C	CR/C	242	2554
103520137	USA		USGAE-10R	-150	C	CR/C	1219	2560
98520388	USA		USGAE-11	93	C	CR/C	243	2554
109520218	USA		USGAE-11M	93	C	CR/C	2462	2660
103520138	USA		USGAE-11R	93	C	CR/C	1220	2560
98520389	USA		USGAE-12	111	C	CR/C	244	2554
109520219	USA		USGAE-12M	111	C	CR/C	2463	2660
103520139	USA		USGAE-12R	111	C	CR/C	1221	2560
98520390	USA		USGAE-13	96	C	CR/C	245	2554
109520220	USA		USGAE-13M	96	C	CR/C	2464	2660
103520140	USA		USGAE-13R	96	C	CR/C	1222	2560
98520391	USA		USGAE-14	-16.5	C	CR/C	246	2554
109520221	USA		USGAE-14M	-16.5	C	CR/C	2465	2660
103520141	USA		USGAE-14R	-16.5	C	CR/C	1223	2561
98520392	USA		USGAE-15	-31.5	C	CR/C	247	2554
109520222	USA		USGAE-15M	-31.5	C	CR/C	2466	2660
103520142	USA		USGAE-15R	-31.5	C	CR/C	1224	2561
98520393	USA		USGAE-16	30	C	CR/C	248	2554
103520143	USA		USGAE-16R	30	C	CR/C	1225	2561
98520394	USA		USGAE-17	-39	C	CR/C	249	2554
103520144	USA		USGAE-17R	-39	C	CR/C	1226	2561
98520395	USA		USGAE-18	-155	C	CR/C	250	2554
109520223	USA		USGAE-18M	-155	C	CR/C	2467	2660
103520145	USA		USGAE-18R	-155	C	CR/C	1227	2561
98520396	USA		USGAE-19	150	C	CR/C	251	2554
109540091	USA		USGAE-19M	150	A	API/A	5555	2645
103520146	USA		USGAE-19R	150	C	CR/C	1228	2561
104500515	USA		USGAE-2	4	N	PART	2	2634
98520397	USA		USGAE-20	155	C	CR/C	252	2554
109540092	USA		USGAE-20M	155	A	API/A	5556	2645
103520147	USA		USGAE-20R	155	C	CR/C	1229	2561
98520398	USA		USGAE-21	175	C	CR/C	253	2554
109540093	USA		USGAE-21M	175	A	API/A	5557	2645
103520148	USA		USGAE-21R	175	C	CR/C	1230	2561
98520399	USA		USGAE-22	180	C	CR/C	254	2554
109540094	USA		USGAE-22M	180	A	API/A	5558	2645
103520149	USA		USGAE-22R	180	C	CR/C	1231	2561
109520224	USA		USGAE-23M	19	C	CR/C	2468	2660
98520385	USA		USGAE-3	90	C	CR/C	235	2551
109520213	USA		USGAE-3M	90	C	CR/C	2457	2660
103520131	USA		USGAE-3R	90	C	CR/C	1213	2560
104500516	USA		USGAE-4	177.5	N	PART	2	2634
98520387	USA		USGAE-5	55	C	CR/C	237	2551
109520214	USA		USGAE-5M	55	C	CR/C	2458	2660
103520132	USA		USGAE-5R	55	C	CR/C	1214	2560
98520380	USA		USGAE-6	-120	C	CR/C	238	2554
109520215	USA		USGAE-6M	-120	C	CR/C	2459	2660
103520133	USA		USGAE-6R	-120	C	CR/C	1215	2560

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98520381	USA		USGAE-7	-68	C	CR/C	239	2554
109520216	USA		USGAE-7M	-68	C	CR/C	2460	2660
103520134	USA		USGAE-7R	-68	C	CR/C	1216	2560
98520382	USA		USGAE-8	-9	C	CR/C	240	2554
109520217	USA		USGAE-8M	-9	C	CR/C	2461	2660
103520135	USA		USGAE-8R	-9	C	CR/C	1217	2560
98520400	USA		USGAE-9	152	C	CR/C	241	2554
103520136	USA		USGAE-9R	152	C	CR/C	1218	2560
96500383	USA		USGCSS PH2 INDOC-2	57	N	PART	2	2580
80540004	USA		USGCSS PH3 ATL	-12	A	SPA-AA/	351	2472
76540003	USA		USGCSS PH3 E PAC	-135	A	SPA-AA/	248	2246
92500208	USA		USGCSS PH3 E PAC-2	-130	N	PART	2	2369
93500163	USA		USGCSS PH3 INDOC	60	N	PART	2	2140
100500005	USA		USGCSS PH3 INDOC-2	57	N	PART	2	2580
96500389	USA		USGCSS PH3 MID-ATL	-42.5	N	PART	2	2370
90500067	USA		USGCSS PH3 W PAC	175	N	PART	2	2133
96500387	USA		USGCSS PH3 W PAC-2	180	N	PART	2	2463
96500392	USA		USGCSS PH3B ATL	-12	N	PART	2	2373
92500109	USA		USGCSS PH3B E PAC	-135	N	PART	2	2372
96500386	USA		USGCSS PH3B E PAC-2	-130	N	PART	2	2511
100500004	USA		USGCSS PH3B INDOC	60	N	PART	2	2612
101500466	USA		USGCSS PH3B INDOC-2	57	N	PART	2	2612
100500003	USA		USGCSS PH3B MID-ATL	-42.5	N	PART	2	2580
96500388	USA		USGCSS PH3B W ATL	-52.5	N	PART	2	2510
96500384	USA		USGCSS PH3B W PAC	175	N	PART	2	2463
100500086	USA		USGCSS PH3B W PAC-2	180	N	PART	2	2580
100500087	USA		USGCSS PH3B W PAC-3	150	N	PART	2	2612
104500510	USA		USGGR-11	110	N	PART	2	2604
104500507	USA		USGGR-3	-30	N	PART	2	2604
104500508	USA		USGGR-4	44	N	PART	2	2603
104500509	USA		USGGR-8	82	N	PART	2	2603
104500103	USA		USGGR-HEO	N-GSO	N	PART	2	2595
104500104	USA		USGGR-LEO	N-GSO	N	PART	2	2595
104500264	USA		USGON-1	70	N	PART	2	2598
104500568	USA		USGON-2	8.5	N	PART	2	2619
104500569	USA		USGON-3	103	N	PART	2	2593
104500570	USA		USGON-4	-165	N	PART	2	2619
104500571	USA		USGON-5	-38	N	PART	2	2594
104500572	USA		USGON-6	145	N	PART	2	2594
104500573	USA		USGON-7	-145	N	PART	2	2593
105520039	USA		USGOVSAT-1	180	C	CR/C	1539	2585
105520048	USA		USGOVSAT-10	60	C	CR/C	1548	2585
105520049	USA		USGOVSAT-11	150	C	CR/C	1549	2585
105520050	USA		USGOVSAT-12	175	C	CR/C	1550	2585
105520051	USA		USGOVSAT-13	-123	C	CR/C	1551	2585
105520052	USA		USGOVSAT-14	-77	C	CR/C	1552	2585
105520040	USA		USGOVSAT-2	-151	C	CR/C	1540	2585
105520041	USA		USGOVSAT-3	-135	C	CR/C	1541	2585
105520042	USA		USGOVSAT-4	-130	C	CR/C	1542	2585
105520043	USA		USGOVSAT-5	-112	C	CR/C	1543	2585
105520044	USA		USGOVSAT-6	-52.5	C	CR/C	1544	2585

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105520045	USA		USGOVSAT-7	-42.5	C	CR/C	1545	2585
105520046	USA		USGOVSAT-8	-12	C	CR/C	1546	2585
105520047	USA		USGOVSAT-9	57	C	CR/C	1547	2585
99543671	USA		USGX-141W	-141	A	API/A	1092	2410
99543672	USA		USGX-144W	-144	A	API/A	1093	2410
105500621	USA		USKL	N-GSO	N	PART	2	2636
108520122	USA		USKW	N-GSO	C	CR/C	2319	2653
95500286	USA		USLL-ATL	-10	N	PART	2	2240
104500333	USA		USLL-ATL2	-12.5	N	PART	2	2603
95500287	USA		USLL-HEO	N-GSO	N	PART	2	2596
95500288	USA		USLL-LEO	N-GSO	N	PART	2	2596
95500289	USA		USLL-PAC	-144	N	PART	2	2278
104500334	USA		USLL-PAC2	-141	N	PART	2	2602
104500339	USA		USMB-1	-61	N	PART	2	2597
104500348	USA		USMB-10	75	N	PART	2	2598
104500349	USA		USMB-11	82	N	PART	2	2597
104500350	USA		USMB-12	92	N	PART	2	2597
104500351	USA		USMB-13	106.5	N	PART	2	2598
104500340	USA		USMB-2	-30	N	PART	2	2597
104500341	USA		USMB-3	-19	N	PART	2	2597
104500342	USA		USMB-4	-10	N	PART	2	2597
104500343	USA		USMB-5	5	N	PART	2	2597
104500344	USA		USMB-6	7	N	PART	2	2597
104500345	USA		USMB-7	33	N	PART	2	2600
104500346	USA		USMB-8	49	N	PART	2	2597
104500347	USA		USMB-9	62	N	PART	2	2600
108520004	USA		USNFR	N-GSO	C	CR/C	2159	2640
107540502	USA		USNN-1	-65	A	API/A	4708	2602
107540503	USA		USNN-2	-69	A	API/A	4709	2602
109520027	USA		USNN-3	-127	C	CR/C	2373	2644
109520028	USA		USNN-4	100	C	CR/C	2374	2644
101520081	USA		USOBO-1	-159.4	C	CR/C	844	2585
101520090	USA		USOBO-10	130.6	C	CR/C	853	2585
105520370	USA		USOBO-10R	130.6	C	CR/C	1749	2597
101520091	USA		USOBO-11	139	C	CR/C	854	2585
105520371	USA		USOBO-11R	139	C	CR/C	1750	2597
105520361	USA		USOBO-1R	-159.4	C	CR/C	1740	2597
106500112	USA		USOBO-2	-96.8	N	PART	2	2638
105520362	USA		USOBO-2R	-96.8	C	CR/C	1741	2597
106500113	USA		USOBO-3	-49.4	N	PART	2	2642
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	C	CR/C	849	2585
105520366	USA		USOBO-6R	66	C	CR/C	1745	2597
101520087	USA		USOBO-7	73	C	CR/C	850	2585
105520367	USA		USOBO-7R	73	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

ntc_id	adm	ntwk_org	sat_name	long_nom	nff_rsn	ssn_ref	ssn_no	ific_no
101520089	USA		USOBO-9	94	C	CR/C	852	2585
105520369	USA		USOBO-9R	94	C	CR/C	1748	2597
109520004	USA		USPOJOAQUE	N-GSO	C	CR/C	2405	2650
98500254	USA		USPOL	N-GSO	N	PART	2	2596
90500517	USA		USRDSS CENTRAL	-100	N	PART	2	2543
90500519	USA		USRDSS EAST	-70	N	PART	2	2543
90500521	USA		USRDSS WEST	-130	N	PART	2	2543
109540506	USA		USRSR	N-GSO	A	API/A	5741	2650
108520026	USA		USSTP-1	N-GSO	C	CR/C	2146	2636
106500268	USA		USTRO-1	N-GSO	N	PART	2	2608
106500269	USA		USTRO-2	-144	N	PART	2	2640
106500270	USA		USTRO-3	-141	N	PART	2	2640
106500271	USA		USTRO-4	-13	N	PART	2	2642
106500272	USA		USTRO-5	-10	N	PART	2	2641
106500273	USA		USTRO-6	70	N	PART	2	2642
106500274	USA		USTRO-7	90	N	PART	2	2641
106500275	USA		USTRO-8	103	N	PART	2	2642
106500276	USA		USTRO-9	85	N	PART	2	2644
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	A	API/A	5352	2637
108540616	VTN		VIETSAT-110	110	A	API/A	5353	2637
108540617	VTN		VIETSAT-114.5	114.5	A	API/A	5354	2637
108540618	VTN		VIETSAT-120	120	A	API/A	5355	2637
108540619	VTN		VIETSAT-126	126	A	API/A	5356	2637
108540620	VTN		VIETSAT-128	128	A	API/A	5357	2637
108540621	VTN		VIETSAT-129	129	A	API/A	5358	2637
108540622	VTN		VIETSAT-131	131	A	API/A	5359	2637
108540623	VTN		VIETSAT-131.8	131.8	A	API/A	5360	2637
108540624	VTN		VIETSAT-132	132	A	API/A	5361	2637
108540625	VTN		VIETSAT-133	133	A	API/A	5362	2637
108540626	VTN		VIETSAT-134	134	A	API/A	5363	2637
108540627	VTN		VIETSAT-136	136	A	API/A	5364	2637
108540628	VTN		VIETSAT-138	138	A	API/A	5365	2637
108540613	VTN		VIETSAT-68	68	A	API/A	5350	2637
108540614	VTN		VIETSAT-97	97	A	API/A	5351	2637
109520050	VTN		VINASAT-1C1	107	C	CR/C	2382	2645
105520236	VTN		VINASAT-1D	131	C	CR/C	1679	2591
103520549	VTN		VINASAT-3B2	103	C	CR/C	1361	2573
97520201	VTN		VINASAT-4A	132	C	CR/C	805	2586
101520356	VTN		VINASAT-4A2	132	C	CR/C	1008	2659
104520308	VTN		VINASAT-4A3	132	C	CR/C	1522	2584
108500949	VTN		VINASAT-FSS-131E-III	131.8	N	PART	2	2630
107520144	VTN		VINASAT-TTC	132	C	CR/C	2042	2606
90500382	XSU		GALS-1	-26.5	N	PART	2	2654
90500393	XSU		GALS-2	45	N	PART	2	2654
90500394	XSU		GALS-3	85	N	PART	2	2654

ntc_id	adm	ntwk_org	sat_name	long_nom	nff_rsn	ssn_ref	ssn_no	ific_no
90500395	XSU		GALS-4	-170	N	PART	2	2654
90500397	XSU		GALS-5	130	N	PART	2	2654
90500399	XSU		GALS-6	35	N	PART	2	2654
90504410	XSU		GLONASS	N-GSO	N	PART	2	
90500284	XSU		LOUTCH-1	-14	N	PART	2	2597
91910025	XSU		LOUTCH-6	-11	N	PART	2	2131
90500295	XSU		LOUTCH-8	80	N	PART	2	
90504431	XSU		MOLNIA-1	N-GSO	N	PART	2	
90504432	XSU		MOLNIA-2	N-GSO	N	PART	2	
90504874	XSU	IK	MOLNIA-3	N-GSO	N	PART	2	
90504628	XSU		RADIO-M	N-GSO	N	PART	2	
90504630	XSU		RS	N-GSO	N	PART	2	
90500475	XSU		STATSIONAR-1	80	N	PART	2	
90500546	XSU		TOR-3	45	N	PART	2	2655
90500547	XSU		TOR-4	85	N	PART	2	2655
90500548	XSU		TOR-5	-170	N	PART	2	2655
90500585	XSU		VOLNA-2	-14	N	PART	2	
90504199	XSU		VOLNA-3	45	N	PART	2	
90500586	XSU		VOLNA-4	53	N	PART	2	
90504200	XSU		VOLNA-5	85	N	PART	2	
90500587	XSU		VOLNA-6	140	N	PART	2	
90504201	XSU		VOLNA-7	-170	N	PART	2	
90504202	XSU		VOLNA-8	90	N	PART	2	

ANNEX 2

Appendices 30 & 30A - List of geostationary-satellite networks in the Broadcasting-Satellite Service (BSS) and its associated feeder links communicated and published in application of the provisions of Article 4 of Appendices 30 and 30A

(Sorted by administration and satellite name)

ntc_id	adm	ntw_org	sat_name	long_nom
105552008	ARS	ARB	ARABSAT BSS 6D	11.00
105554008	ARS	ARB	ARABSAT BSS 6D	11.00
105552006	ARS	ARB	ARABSAT BSS 6E	34.50
105554006	ARS	ARB	ARABSAT BSS 6E	34.50
105552007	ARS	ARB	ARABSAT BSS 6F	44.50
105554007	ARS	ARB	ARABSAT BSS 6F	44.50
100551015	ARS	ARB	ARABSAT-BSS1	26.00
100551030	ARS	ARB	ARABSAT-BSS1	26.00
100551614	ARS	ARB	ARABSAT-BSS1	26.00
100551625	ARS	ARB	ARABSAT-BSS1	26.00
100554003	ARS	ARB	ARABSAT-BSS1A	26.00
100552003	ARS	ARB	ARABSAT-BSS1A	26.00
100554004	ARS	ARB	ARABSAT-BSS1B	26.00
100552004	ARS	ARB	ARABSAT-BSS1B	26.00
105552002	ARS	ARB	ARABSAT-VA30.5E	30.50
105554002	ARS	ARB	ARABSAT-VA30.5E	30.50
109552017	ARS	ARB	ARABSAT-VB17E	17.00
109554017	ARS	ARB	ARABSAT-VB17E	17.00
106552003	ARS	ARB	ARABSAT-VB26E	26.00
106554003	ARS	ARB	ARABSAT-VB26E	26.00
105552001	ARS	ARB	ARABSAT-VC20E	20.00
105554001	ARS	ARB	ARABSAT-VC20E	20.00
105552011	BUL		BULSAT-BSS-1.2W-W	-1.20
96555002	CAN		CAN-BSS1	-82.00
106555001	CAN		CAN-BSS1X	-82.00
96555003	CAN		CAN-BSS2	-91.10
106555002	CAN		CAN-BSS2X	-91.10
96555010	CAN		CAN-BSS3	-72.70
96555007	CAN		CAN-BSS4	-129.00
109555001	CAN		CAN-BSS57 (138W)	-138.00
103555006	CAN		CAN-BSS6	-72.70
105555004	CAN		CAN-BSS7	-129.00
96552001	CHN		ASIASAT-ABS	122.00
102552001	CHN		ASIASAT-ABS-A	122.00
102554001	CHN		ASIASAT-ABS-A	122.00
109552019	CHN		ASIASAT-BSS-C1	105.50
98552002	CHN		ASIASAT-DTH-A	122.00
104552014	CHN		ASIASAT-DTH-A1	122.20
104554014	CHN		ASIASAT-DTH-A1	122.20
104552010	CHN		CHNBSAT-101E	101.00
104554010	CHN		CHNBSAT-101E	101.00

ntc_id	adm	ntw_org	sat_name	long_nom
104552011	CHN		CHNBSAT-108E	108.00
104554011	CHN		CHNBSAT-108E	108.00
104552012	CHN		CHNBSAT-119E	119.00
104554012	CHN		CHNBSAT-119E	119.00
104552013	CHN		CHNBSAT-125E	125.00
104554013	CHN		CHNBSAT-125E	125.00
103552006	CHN		CHNBSAT-134E	134.00
103554006	CHN		CHNBSAT-134E	134.00
103552004	CHN		CHNBSAT-62E	62.00
103554004	CHN		CHNBSAT-62E	62.00
104552008	CHN		CHNBSAT-80E	80.00
104554008	CHN		CHNBSAT-80E	80.00
104552009	CHN		CHNBSAT-84E	84.00
104554009	CHN		CHNBSAT-84E	84.00
103552005	CHN		CHNBSAT-92.2E	92.20
103554005	CHN		CHNBSAT-92.2E	92.20
103552009	CHN		SINOSAT-3 BSS	97.50
103554009	CHN		SINOSAT-3 BSS	97.50
109552020	CYP		KYPROS-SAT-4	39.00
109554020	CYP		KYPROS-SAT-4	39.00
100551628	E		HISPASAT 2U3	-30.00
100551606	E		HISPASAT 2U3	-30.00
100551040	E		HISPASAT 2U3	-30.00
100551033	E		HISPASAT 2U3	-30.00
99552001	EGY		NILESAT-102	-7.00
99554001	EGY		NILESAT-102	-7.00
105552004	EGY		NILESAT-103	-7.00
105554004	EGY		NILESAT-103	-7.00
100551013	EGY		NILESAT-1S	-7.00
100551613	EGY		NILESAT-1S	-7.00
109552004	F		F-SAT-E-BSS-70.5E	70.50
109554004	F		F-SAT-E-BSS-70.5E	70.50
109552005	F		F-SAT-E-BSS-73.5E	73.50
109554005	F		F-SAT-E-BSS-73.5E	73.50
109552006	F		F-SAT-E-BSS-76E	76.00
109554006	F		F-SAT-E-BSS-76E	76.00
105552012	F		F-SAT-E-BSS-7W	-7.00
105554012	F		F-SAT-E-BSS-7W	-7.00
109552007	F		F-SAT-E-BSS-80.5E	80.50
109554007	F		F-SAT-E-BSS-80.5E	80.50
109552008	F		F-SAT-E-BSS-83.5E	83.50
109554008	F		F-SAT-E-BSS-83.5E	83.50
109552009	F		F-SAT-E-BSS-86E	86.00
109554009	F		F-SAT-E-BSS-86E	86.00
109552010	F		F-SAT-E-BSS-88.5E	88.50
109554010	F		F-SAT-E-BSS-88.5E	88.50
100551034	F		RADIOSAT-5-5A	-7.00
100551629	F		RADIOSAT-5-5A	-7.00
97552056	F		RADIOSAT-5C	-7.00

ntc_id	adm	ntw_org	sat_name	long_nom
97554058	F		RADIOSAT-5C	-7.00
97552010	F	EUT	EUTELSAT B-10E	10.00
97554010	F	EUT	EUTELSAT B-10E	10.00
100552007	F	EUT	EUTELSAT B-12W	-12.00
100554007	F	EUT	EUTELSAT B-12W	-12.00
97552001	F	EUT	EUTELSAT B-12W	-12.00
97554001	F	EUT	EUTELSAT B-12W	-12.00
95552004	F	EUT	EUTELSAT B-13E	13.00
95554005	F	EUT	EUTELSAT B-13E	13.00
100551006	F	EUT	EUTELSAT B-13E	13.00
100551605	F	EUT	EUTELSAT B-13E	13.00
100552008	F	EUT	EUTELSAT B-18W	-18.00
100554008	F	EUT	EUTELSAT B-18W	-18.00
95552005	F	EUT	EUTELSAT B-36E	36.00
100552005	F	EUT	EUTELSAT B-36E	36.00
100554005	F	EUT	EUTELSAT B-36E	36.00
100551608	F	EUT	EUTELSAT B-36E	36.00
101552012	F	EUT	EUTELSAT B-40E	40.00
101554012	F	EUT	EUTELSAT B-40E	40.00
100552006	F	EUT	EUTELSAT B-48E	48.00
100554006	F	EUT	EUTELSAT B-48E	48.00
95554007	F	EUT	EUTELSAT B-48E	48.00
95552006	F	EUT	EUTELSAT B-48E	48.00
101552015	F	EUT	EUTELSAT B-9E	9.00
101554013	F	EUT	EUTELSAT B-9E	9.00
103552008	G		AM-SAT 172E	172.00
103554008	G		AM-SAT 172E	172.00
103552010	G		AM-SAT AF3 BSS	51.00
103554010	G		AM-SAT AF3 BSS	51.00
105555002	G		BERMUDASAT-1	-96.20
96552021	G		INTELSAT KUEXT 157E	157.00
98555008	G		INTELSAT KUEXT 304.5	-55.50
97555003	G		INTELSAT KUEXT 304.5	-55.50
96555016	G		INTELSAT KUEXT 304.5	-55.50
96552015	G		INTELSAT KUEXT 60E	60.00
105552013	G		INTELSAT KUEXT 66E	66.00
96552018	G		INTELSAT KUEXT 66E	66.00
102555006	G		IOMBSS-1	-96.50
107552002	G		UKDIGISAT-4A	-33.50
107554002	G		UKDIGISAT-4A	-33.50
104555003	G		USAT-S1 MOD-A	-105.50
102555005	G		USAT-S1 MOD-A	-105.50
109555002	G		USAT-S1 MOD-B	-105.50
103555001	G		USAT-S2	-114.50
103555004	G		USAT-S2 MOD-A	-114.50
103555003	G		USAT-S3	-86.50
103555005	G		USAT-S3 MOD-A	-86.50
104555004	G		USAT-S3 MOD-B	-86.50
106555007	G		USAT-S3 MOD-C	-86.50

ntc_id	adm	ntw_org	sat_name	long_nom
106555011	G		USAT-S3 MOD-D	-86.50
104555002	G		USAT-S4	-68.50
109555003	G		USAT-S4 MOD-A	-68.50
104555006	G		USAT-S5	-66.30
106555003	G		USAT-S8	-133.50
107552017	GRC		GRC15002	39.00
107554017	GRC		GRC15002	39.00
102555003	HOL		NSS-10 BSS	-125.00
108552010	HOL		NSS-BSS 108.2E	108.20
108554010	HOL		NSS-BSS 108.2E	108.20
108552013	HOL		NSS-BSS 113.5E	113.50
108554013	HOL		NSS-BSS 113.5E	113.50
107555002	HOL		NSS-BSS 143.5W	-143.50
109552013	HOL		NSS-BSS 50.75E	50.75
109554013	HOL		NSS-BSS 50.75E	50.75
106555005	HOL		NSS-BSS 59W	-59.00
106555004	HOL		NSS-BSS 78W	-78.00
109552012	HOL		NSS-BSS 95E	95.00
109554012	HOL		NSS-BSS 95E	95.00
105555001	HOL		SF_BSS5	-114.50
104552002	I		INTERACT	9.00
104554002	I		INTERACT	9.00
103552007	I		INTERACT	9.00
103554007	I		INTERACT	9.00
109552002	IRN		IRANDBS2	34.00
109554002	IRN		IRANDBS2	34.00
109552003	IRN		IRANDBS2	34.00
109554003	IRN		IRANDBS2	34.00
109552001	IRN		IRANDBS2	34.00
109554001	IRN		IRANDBS2	34.00
96552042	IRN		IRNDBS-2	26.00
96554047	IRN		IRNDBS-2	26.00
108552008	ISR		AMS-BSS-4W	-4.00
108554008	ISR		AMS-BSS-4W	-4.00
108552009	ISR		AMS-BSS-65E	65.00
108554009	ISR		AMS-BSS-65E	65.00
102552005	J		NB-SAT-109.85AA	109.85
102552002	J		NB-SAT-109.85AA	109.85
103552002	J		NB-SAT-109.85-AAE	109.85
103554002	J		NB-SAT-109.85-AAE	109.85
102552006	J		NB-SAT-110AA	110.00
102552003	J		NB-SAT-110AA	110.00
103552003	J		NB-SAT-110-AAE	110.00
103554003	J		NB-SAT-110-AAE	110.00
103552001	J		NB-SAT-134A	134.00
103554001	J		NB-SAT-134A	134.00
100552056	J		TAIKI-109.65-34.5	109.65
100554048	J		TAIKI-109.65-34.5	109.65
100551014	KOR		KOREASAT-2	113.00

ntc_id	adm	ntw_org	sat_name	long_nom
100551401	KOR		KOREASAT-2	113.00
96552029	KOR		KOREASAT-3	116.00
96554029	KOR		KOREASAT-3	116.00
100551029	LAO		LSTAR4B	126.00
100551623	LAO		LSTAR4B	126.00
100551004	LUX		DBL	19.20
100551609	LUX		DBL	19.20
93552003	LUX		DBL	19.20
95552016	LUX		DBL-24.2E	23.50
94552006	LUX		DBL-24.2E	23.50
94554006	LUX		DBL-24.2E	23.50
100551610	LUX		DBL-28.2E	28.20
100551007	LUX		DBL-28.2E	28.20
94552009	LUX		DBL-31.5E	31.50
94554009	LUX		DBL-31.5E	31.50
104554004	LUX		DBL-G3-19.2E	19.20
104552003	LUX		DBL-G3-19.2E	19.20
106552001	LUX		DBL-G3-21.5E	21.50
106554001	LUX		DBL-G3-21.5E	21.50
104554005	LUX		DBL-G3-23.5E	23.50
104552004	LUX		DBL-G3-23.5E	23.50
104554006	LUX		DBL-G3-28.2E	28.20
104552005	LUX		DBL-G3-28.2E	28.20
104552006	LUX		DBL-G3-31.5E	31.50
104554007	LUX		DBL-G3-31.5E	31.50
105552003	LUX		DBL-G3-7W	-7.00
105554003	LUX		DBL-G3-7W	-7.00
109552016	LUX		DBL-G4-16E	16.00
109554016	LUX		DBL-G4-16E	16.00
107552010	LUX		DBL-G4-19.2E	19.20
107552011	LUX		DBL-G4-21.5E	21.50
107552012	LUX		DBL-G4-23.5E	23.50
107552009	LUX		DBL-G4-24W	-24.00
107554009	LUX		DBL-G4-24W	-24.00
107552013	LUX		DBL-G4-28.2E	28.20
107552014	LUX		DBL-G4-31.5E	31.50
107554014	LUX		DBL-G4-31.5E	31.50
108552014	LUX		DBL-G4-31E	31.00
108554014	LUX		DBL-G4-31E	31.00
107552008	LUX		DBL-G4-37.2W	-37.20
107554008	LUX		DBL-G4-37.2W	-37.20
105552010	MCO		MCO-BSS-40.5W	-40.50
105554010	MCO		MCO-BSS-40.5W	-40.50
105552009	MCO		MCO-BSS-52E	52.00
105554009	MCO		MCO-BSS-52E	52.00
96555004	MEX		MEX-TDH1	-77.00
103555007	MEX		MEX-TVD1	-76.80
103555008	MEX		MEX-TVD2	-77.20
106555010	MEX		QUETZSAT-77	-77.00

ntc_id	adm	ntw_org	sat_name	long_nom
108552002	MNE		MNESAT	-24.00
108554002	MNE		MNESAT	-24.00
105552015	NOR		BIFROST-4W-BSS	-4.00
105554015	NOR		BIFROST-4W-BSS	-4.00
100551037	NOR		BIFROST-BSS-0.8W-EUR	-0.80
100551632	NOR		BIFROST-BSS-0.8W-EUR	-0.80
100551038	NOR		BIFROST-BSS-0.8W-GLO	-0.80
100551633	NOR		BIFROST-BSS-0.8W-GLO	-0.80
100551036	NOR		BIFROST-BSS-0.8W-NOR	-0.80
100551631	NOR		BIFROST-BSS-0.8W-NOR	-0.80
100551035	NOR		BIFROST-BSS-0.8W-NOR	-0.80
100551630	NOR		BIFROST-BSS-0.8W-NOR	-0.80
107552007	NOR		EOE-BSS-2007	-0.80
107552004	PAK		PAK12712	38.00
107554004	PAK		PAK12712	38.00
106552002	PAK		PAKSAT 1R-BSS-38E	38.00
107552006	PAK		PAKSAT-1R-BSS-38.2EA	38.20
107554006	PAK		PAKSAT-1R-BSS-38.2EA	38.20
107552005	PAK		PAKSAT-1R-BSS-38EA	38.00
107554005	PAK		PAKSAT-1R-BSS-38EA	38.00
109552011	PNG		PACIFSAT-B-1	75.00
109554011	PNG		PACIFSAT-B-1	75.00
100551016	RUS		RST-1	36.00
100551615	RUS		RST-1	36.00
108552011	RUS		RST-1A	36.00
108554011	RUS		RST-1A	36.00
100551017	RUS		RST-2	56.00
100551616	RUS		RST-2	56.00
108552012	RUS		RST-2A	56.00
108554012	RUS		RST-2A	56.00
94552001	RUS		RST-4	110.00
94554001	RUS		RST-4	110.00
108552003	RUS	IK	INTERSPUTNIK-17E-B	17.00
108554003	RUS	IK	INTERSPUTNIK-17E-B	17.00
108552006	RUS	IK	INTERSPUTNIK-47.5W-B	-47.50
108554006	RUS	IK	INTERSPUTNIK-47.5W-B	-47.50
108555002	RUS	IK	INTERSPUTNIK-47.5W-B	-47.50
108552007	RUS	IK	INTERSPUTNIK-50.5E-B	50.50
108554007	RUS	IK	INTERSPUTNIK-50.5E-B	50.50
107552020	RUS	IK	INTERSPUTNIK-74.9E-B	74.90
107554020	RUS	IK	INTERSPUTNIK-74.9E-B	74.90
95552009	S		SIRIUS-13W	-13.00
95554011	S		SIRIUS-13W	-13.00
95554057	S		SIRIUS-13W	-13.00
107552001	S		SIRIUS-13W-BSS	-13.00
107554001	S		SIRIUS-13W-BSS	-13.00
100551031	S		SIRIUS-2-BSS	5.00
100551626	S		SIRIUS-2-BSS	5.00
100551627	S		SIRIUS-3-BSS	5.20

ntc_id	adm	ntw_org	sat_name	long_nom
100551032	S		SIRIUS-3-BSS	5.20
105552016	S		SIRIUS-4.8E-BSS-2	4.80
100551039	S		SIRIUS-4-BSS	5.00
104552001	S		SIRIUS-5-BSS	4.80
104554001	S		SIRIUS-5-BSS	4.80
107554018	S		SIRIUS-5E-BSS	5.00
100551008	S		SIRIUS-W	-13.00
100551607	S		SIRIUS-W	-13.00
100551024	TUR		TURKSAT-BSS	42.00
100551619	TUR		TURKSAT-BSS	42.00
106552004	UAE		EMARSAT-1	52.50
106554004	UAE		EMARSAT-1	52.50
109552018	UAE		YAHSAT-BSS-20W	-20.00
109554018	UAE		YAHSAT-BSS-20W	-20.00
107552015	UAE		YAHSAT-BSS-46E	46.00
107554015	UAE		YAHSAT-BSS-46E	46.00
107552019	UAE		YAHSAT-BSS-57E	57.00
107554019	UAE		YAHSAT-BSS-57E	57.00
107552016	UAE		YAHSAT-BSS-60E	60.00
107554016	UAE		YAHSAT-BSS-60E	60.00
108552004	UAE		YAHSAT-BSS-63E	63.00
108554004	UAE		YAHSAT-BSS-63E	63.00
108552001	UAE		YAHSAT-BSS-67.5E	67.50
108554001	UAE		YAHSAT-BSS-67.5E	67.50
108552015	UKR		UKRSAT-BSS-38.2E-G-1	38.20
108554015	UKR		UKRSAT-BSS-38.2E-G-1	38.20
95555003	USA		USABSS-1	-101.20
98555003	USA		USABSS-10	-119.00
101555003	USA		USABSS-13	-101.20
102555001	USA		USABSS-14	-119.00
102555004	USA		USABSS-15	-110.00
104555005	USA		USABSS-16	-110.00
102555002	USA		USABSS-17	-61.50
103555002	USA		USABSS-18	-119.00
104555007	USA		USABSS-19	-100.85
99555002	USA		USABSS-1M	-110.00
99555001	USA		USABSS-1R	-101.20
95555004	USA		USABSS-2	-100.80
105555003	USA		USABSS-21	-101.00
105555005	USA		USABSS-24	-100.80
106555009	USA		USABSS-26	-110.00
107555001	USA		USABSS-27	-86.50
107552003	USA		USABSS-29	85.15
95555005	USA		USABSS-2A	-100.85
96555006	USA		USABSS-3	-119.20
98555006	USA		USABSS-3	-119.20
108555003	USA		USABSS-30	-110.00
96555013	USA		USABSS-4	-118.80
98555004	USA		USABSS-4	-118.80

ntc_id	adm	ntw_org	sat_name	long_nom
98555007	USA		USABSS-4	-118.80
97555001	USA		USABSS-5	-109.80
97555002	USA		USABSS-6	-110.20
101555001	USA		USABSS-7A	-119.00
98555001	USA		USABSS-8	-61.50
98555002	USA		USABSS-9	-148.00

ANNEX 3

Appendix 30B – List of geostationary-satellite networks in the Fixed-Satellite Service (FSS) communicated and published in application of the provisions of Articles 6 and 7 of Appendix 30B

(Sorted by administration and satellite name)

ntc_id	adm	ntw_org	sat_name	long_nom
99558001	ARM		ARM00000	71.30
92559006	CAN		MSAT	-106.50
94559014	CAN		MSAT	-106.50
103559025	CTI	RAS	RASCOM-1F	2.90
102559002	CTI	RAS	RASCOM-2F	2.90
99559004	E		HISPASAT-1C	-30.00
87559001	F		EUTELSAT-1	10.00
103559014	F		F-SAT-30B	9.00
101559043	F		GEOSAT-30B	-7.00
99559005	F		TELECOM-30B	-8.00
87559002	F	EUT	EUTELSAT 1-2	13.00
90559005	F	EUT	EUTELSAT 1-3	7.00
101559020	F	EUT	EUTELSAT EXB-10E	10.00
100559004	F	EUT	EUTELSAT EXB-12.5W	-12.50
97559001	F	EUT	EUTELSAT EXB-13E	13.00
101559001	F	EUT	EUTELSAT EXB-16E	16.00
101559004	F	EUT	EUTELSAT EXB-18W	-18.00
101559003	F	EUT	EUTELSAT EXB-18W_C	-18.00
101559006	F	EUT	EUTELSAT EXB-24W	-24.00
101559005	F	EUT	EUTELSAT EXB-24W_C	-24.00
101559012	F	EUT	EUTELSAT EXB-25.5E	25.50
101559002	F	EUT	EUTELSAT EXB-28.5E	28.50
101559014	F	EUT	EUTELSAT EXB-33E	33.00
100559005	F	EUT	EUTELSAT EXB-36E	36.00
101559008	F	EUT	EUTELSAT EXB-37.2W	13.00
101559007	F	EUT	EUTELSAT EXB-37.2W_C	13.00
100559006	F	EUT	EUTELSAT EXB-40E	40.00
101559018	F	EUT	EUTELSAT EXB-44E	53.00
101559016	F	EUT	EUTELSAT EXB-48E	48.00
101559010	F	EUT	EUTELSAT EXB-64W	-61.00
101559009	F	EUT	EUTELSAT EXB-64W_C	-61.00
100559012	F	EUT	EUTELSAT EXB-70.5E	70.50
101559022	F	EUT	EUTELSAT EXB-70.5E	70.50
100559013	F	EUT	EUTELSAT EXB-70.5E_C	70.50
100559014	F	EUT	EUTELSAT EXB-73.5E	73.50
101559024	F	EUT	EUTELSAT EXB-73.5E	73.50
100559015	F	EUT	EUTELSAT EXB-73.5E_C	73.50
101559023	F	EUT	EUTELSAT EXB-73.5E_C	73.50
100559011	F	EUT	EUTELSAT EXB-76E	76.00
101559026	F	EUT	EUTELSAT EXB-76E	76.00

ntc_id	adm	ntw_org	sat_name	long_nom
100559016	F	EUT	EUTELSAT EXB-76E_C	76.00
101559025	F	EUT	EUTELSAT EXB-76E_C	76.00
100559003	F	EUT	EUTELSAT EXB-7E	7.00
101559042	F	EUT	EUTELSAT EXB-7E	7.00
100559007	F	EUT	EUTELSAT EXB-80.5E	80.50
101559028	F	EUT	EUTELSAT EXB-80.5E	80.50
100559009	F	EUT	EUTELSAT EXB-83.5E	83.50
101559027	F	EUT	EUTELSAT EXB-83.5E	83.50
100559008	F	EUT	EUTELSAT EXB-86E	86.00
101559029	F	EUT	EUTELSAT EXB-86E	86.00
100559010	F	EUT	EUTELSAT EXB-88.5E	88.50
101559030	F	EUT	EUTELSAT EXB-88.5E	88.50
97559002	HNG		CERES-1	-4.00
89559001	IND		INSAT-2A	83.00
90559001	IND		INSAT-2A	83.00
89559002	IND		INSAT-2B	93.50
90559002	IND		INSAT-2B	93.50
89559003	IND		INSAT-2C	74.00
90559003	IND		INSAT-2C	74.00
103559024	IND		INSAT-EXC55E	55.00
95559001	ISR		AMOS-II 4W	-4.00
97558001	KGZ		KGZ00000	65.10
103559023	LBY		LIBSAT-02-28.5E	28.90
90559004	LUX		GDL-6	19.20
91559001	LUX		GDL-6	19.20
92559003	LUX		GDL-6	19.20
93559001	LUX		GDL-6	19.20
95559002	LUX		GDL-6	19.20
95559003	LUX		GDL-6	19.20
95559004	LUX		GDL-6	19.20
103559010	LUX		LUX-30B-5	19.20
103559011	LUX		LUX-30B-6	23.50
103559012	LUX		LUX-30B-7	28.20
103559013	LUX		LUX-30B-8	21.50
96559009	NOR		BIFROST 2 FSS	-0.80
102559001	NOR		BIFROST-3-FSS	-0.80
94559002	RUS		CSDRN	95.00
94559011	RUS		CSSRD-2	77.00
94559001	RUS		ESDRN	-160.00
92559001	RUS		FOTON-1	-13.50
92559005	RUS		FOTON-2	80.00
92559002	RUS		FOTON-3	-168.00
101559035	RUS		STATSIONAR-D1	-26.50
101559036	RUS		STATSIONAR-D2	-170.00
101559037	RUS		STATSIONAR-D3	35.00
101559038	RUS		STATSIONAR-D4	45.00
101559039	RUS		STATSIONAR-D5	85.40
101559040	RUS		STATSIONAR-D6	128.00
94559012	RUS		VSSRD-2	167.00

ntc_id	adm	ntw_org	sat_name	long_nom
94559003	RUS		WSDRN	-16.00
89559004	RUS		ZSSRD-2	-16.00
96559010	S		SIRIUS-30B	5.00
103559009	S		SIRIUS-30B-5E	5.00
101558001	UKR		UKR00000	50.50
92559004	USA		USASAT-101A	-101.00
96559003	USA		USASAT-13I	-45.00
96559004	USA		USASAT-13I	-45.00
96559005	USA		USASAT-26G	-58.00
104559004	VTN		VINASAT-FSS-126E-III	126.00
104559003	VTN		VINASAT-FSS-131E-III	131.80

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)

Year	Networks		A	C	N
2009	GSO	3166	1043	1109	1014
	non-GSO	469	135	36	298
	TOTAL	3635	1178	1145	1312
2008	GSO	3126	1017	1249	860
	non-GSO	438	115	35	288
	TOTAL	3564	1132	1284	1148

Table 4.2: Count of unique filings (networks) per administration

Total count - 64 administrations

ADM	A	C	N	TOTAL
AFS			1	1
ALG			1	1
ARG	5	1	5	11
ARS	2	25	9	36
AUS	8	49	34	91
AZE	3	2		5
B	4	18	17	39
BEL	2	1	4	7
BGD	1			1
BLR		1	2	3
BRU		1		1
CAN	68	49	26	143
CHL	1			1
CHN	84	48	79	211
CLM	18		1	19
CTI	13	6	2	21
CYP	2	5	3	10
CZE	1	2		3
D	5	20	12	37
E	6	6	14	26
EGY	20	9	1	30
F	281	114	158	553
G	51	94	36	181
GRC		1	1	2
HNG	1		1	2
HOL	59	42	29	130
I	4	7	5	16
IND	29	52	45	126
INS	2	16	14	32
IRN	4		5	9
ISR	11	7	3	21
J	68	60	69	197
KAZ	7	11		18
KOR	5	17	14	36
LAO		1		1
LBY	2		2	4
LUX	94	84	11	189
MAU	2			2
MCO		2		2
MEX	5	15	8	28
MLA	13	23	9	45
MRC			1	1
NIG		4		4
NOR	10	6	3	19
NRU	2	2		4
NZL	3	5		8

ADM	A	C	N	TOTAL
PAK	2	7	2	11
PNG	13	20	1	34
POR			1	1
QAT	5			5
RUS	24	34	170	228
S	4	5	7	16
SEY	2		2	4
SNG	4	2	1	7
SUI			1	1
THA	5	14	12	31
TON	1	3	9	13
TUR	6	15	7	28
UAE	123	41	5	169
UKR	2	2	2	6
URG		2		2
USA	75	187	440	702
VTN	16	7	1	24
XSU			26	26
TOTAL	1178	1145	1312	3635

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**

Item	Description	Description	Descripción
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

قائمة الأنظمة الساتلية
وصف للأعمدة

Item	描述	Описание	الوصف
ntc_id	卫星网络标识号码	Идентификационный номер спутниковой сети	رقم هوية الشبكة الساتلية
adm	通知主管部门（参阅前言表1）	Заявляющая администрация (см. таблицу 1 Предисловия)	الإدارة المبلغة (انظر الجدول 1 في المقدمة)
ntw_org	政府间卫星组织	Межправительственная спутниковая организация	منظمة ساتلية دولية حكومية
sat_name	卫星网络的标识	Название спутниковой сети	هوية الشبكة الساتلية
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	خط الطول الاسمي لمحطة فضائية مستقرة بالنسبة إلى الأرض (بالدرجات) أو N-GSO في حالة محطة غير مستقرة بالنسبة إلى الأرض
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 = شبكة في مرحلة "معلومات النشر المسبق" C = شبكة في مرحلة التنسيق N = شبكة في مرحلة التبليغ
sns_ref+ssn_no	引证特节	Ссылка на Специальные секции	إحالة إلى الأقسام الخاصة
ific_no	无线电通信局国际频率信息通报编号	Номер ИФИК БР	رقم النشرة الإعلامية الدولية للترددات