



## **ITU Radiocommunication Bureau (BR) 2012 Annual Space Report to the STS-13 on the use of the geostationary-satellite orbit (GSO) and other orbits**

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

Accordingly, please find attached:

**ANNEX 1A** - List of geostationary space networks for which information has been communicated to the ITU Radiocommunication Bureau **up to 31.12.2012** 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 1B** - List of non-geostationary space networks for which information has been communicated to the ITU Radiocommunication Bureau **up to 31.12.2012** 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 the STS-13 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/go/space-preface/en>

## ANNEX 1A

**Table 1A.1: List of geostationary space networks for which information has been communicated to the Bureau up to 31.12.2012 in application of the provisions of Article 9 (Advance Publication Information - A or Coordination Request - C) and/or Article 11 (Notification - N) of the Radio Regulations.**

(Sorted by administration and satellite name)

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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
109540422	ARG		ARSAT-A	-47.5	A	API/A	5683	2648
109540423	ARG		ARSAT-B	-72	A	API/A	5684	2648
110520406	ARG		ARSAT-C	-81	C	CR/C	2762	2707
96500487	ARG		NAHUEL-C	-72	N	PART	2	2586
105500330	ARG		P-P-SAT-1	-81	N	PART	2	2653
90500092	ARS	ARB	ARABSAT 1-B	26	N	PART	2	2703
91910032	ARS	ARB	ARABSAT 1-C	31	N	PART	2	2703
107520008	ARS	ARB	ARABSAT 1-C-KU	31	C	CR/C	1951	2596
97500434	ARS	ARB	ARABSAT 2-A	30.5	N	PART	2	2702
97500433	ARS	ARB	ARABSAT 2-B	26	N	PART	2	2431
102500474	ARS	ARB	ARABSAT 2-C	20	N	PART	2	2686
110500040	ARS	ARB	ARABSAT 5A-30.5E	30.5	N	PART	2	2709
111500061	ARS	ARB	ARABSAT 5B-26E	26	N	PART	2	2708
105520074	ARS	ARB	ARABSAT 5C-20E	20	C	CR/C	1628	2662
109520057	ARS	ARB	ARABSAT 5D-17E	17	C	CR/C	2388	2701
105520075	ARS	ARB	ARABSAT 6D-7.5E	7.5	C	CR/C	1629	2662
105520076	ARS	ARB	ARABSAT 6E-34.5E	34.5	C	CR/C	1630	2662
105520077	ARS	ARB	ARABSAT 6F-44.5E	44.5	C	CR/C	1631	2662
109520112	ARS	ARB	ARABSAT 7A-30.5E	30.5	C	CR/C	2406	2701
109520113	ARS	ARB	ARABSAT 7B-26E	26	C	CR/C	2407	2701
109520114	ARS	ARB	ARABSAT 7C-20E	20	C	CR/C	2408	2701
109520115	ARS	ARB	ARABSAT 7D-7.5E	7.5	C	CR/C	2409	2701
109520116	ARS	ARB	ARABSAT 7E-34.5E	34.5	C	CR/C	2410	2701
109520117	ARS	ARB	ARABSAT 7F-44.5E	44.5	C	CR/C	2411	2701
109520118	ARS	ARB	ARABSAT 7G-11E	11	C	CR/C	2412	2701
110500087	ARS	ARB	ARABSAT-EXT-C2	26	N	PART	2	2688
108501204	ARS	ARB	ARABSAT-KA-26E	26	N	PART	2	2689
109500199	ARS	ARB	ARABSAT-KA-30.5E	30.5	N	PART	2	2671
107500526	ARS	ARB	ARABSAT-KU-26E	26	N	PART	2	2691
111540098	ARS		SAUDI-FMSS-5-R1	52	A	API/A	6750	2693
111540099	ARS		SAUDI-FMSS-6-R1	20.1	A	API/A	6751	2693
109520338	ARS		SAUDI-FMSS-7-R1	29	C	CR/C	2548	2688
111540100	ARS		SAUDI-FMSS-8-R1	41	A	API/A	6752	2693
111540101	ARS		STRATSAT-4-R1	29	A	API/A	6753	2693
109520339	ARS		STRATSAT-5-R1	41	C	CR/C	2547	2688
111540102	ARS		STRATSAT-6-R1	73.5	A	API/A	6754	2693
108520304	AUS		ADF 152E GOVR	152	C	CR/C	2346	2658
110500203	AUS		ADF 156E GOV	156	N	PART	2	2697
108520305	AUS		ADF 160E GOVR	160	C	CR/C	2347	2658
108520306	AUS		ADF 164E GOVR	164	C	CR/C	2348	2658
109520119	AUS		ADF UHF-2	72.1	C	CR/C	2415	2670
105520352	AUS		ADF WEST-1	80	C	CR/C	1732	2627

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
110540492	AUS		AUS-NBN-1	129	A	API/A	6434	2683
111520161	AUS		AUS-NBN-2	135	C	CR/C	2924	2702
111520162	AUS		AUS-NBN-3	140	C	CR/C	2925	2702
111520163	AUS		AUS-NBN-4	145	C	CR/C	2926	2702
111520164	AUS		AUS-NBN-5	150	C	CR/C	2939	2702
92500065	AUS		AUSSAT A 152E	152	N	PART	2	2191
90500084	AUS		AUSSAT A 164E	164	N	PART	2	0
90500087	AUS		AUSSAT A 164E PAC	164	N	PART	2	0
108500604	AUS		AUSSAT B 152E	152	N	PART	2	2665
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	2666
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	2672
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	2683
104500282	AUS		AUSSAT C 156E GOV	156	N	PART	2	2689
107520068	AUS		AUSSAT C 156E GOVR	156	C	CR/C	2015	2621
108501261	AUS		AUSSAT D 156E FSS	156	N	PART	2	2691
101520396	AUS		AUSSAT D 160E FSS	160	C	CR/C	1005	2679
109540508	AUS		AUSSAT E 156E FSS	156	A	API/A	5743	2650
109540509	AUS		AUSSAT E 164E FSS	164	A	API/A	5744	2650
111520200	AUS		DDSP-1	86	C	CR/C	2935	2702
108520294	AUS		DDSP-104E	104	C	CR/C	2343	2658
108520295	AUS		DDSP-108.5E	108.5	C	CR/C	2344	2658
111520201	AUS		DDSP-2	88	C	CR/C	2936	2702
110540939	AUS		DDSP-3	95	A	API/A	6634	2688
111520202	AUS		DDSP-4	95	C	CR/C	2937	2702
104500279	AUS		DEF-R-SAT-1A	82	N	PART	2	2634

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
104500280	AUS		DEF-R-SAT-2A	72	N	PART	2	2634
104500281	AUS		DEF-R-SAT-3A	93	N	PART	2	2634
104500293	AUS		DEF-R-SAT-4B 121.0E	121	N	PART	2	2631
110520222	AUS		ENDEAVOUR-143E	143	C	CR/C	2701	2702
110520223	AUS		ENDEAVOUR-147E	147	C	CR/C	2702	2702
110520224	AUS		ENDEAVOUR-166E	166	C	CR/C	2703	2702
110520225	AUS		ENDEAVOUR-169E	169	C	CR/C	2704	2702
109520075	AUS		KACOMM-1	160	C	CR/C	2391	2665
109520076	AUS		KACOMM-2	154	C	CR/C	2392	2665
109520077	AUS		KACOMM-3	152	C	CR/C	2393	2665
109520078	AUS		KACOMM-4	137.9	C	CR/C	2394	2665
110540072	AUS		KACOMM-5	106	A	API/A	6118	2668
110540073	AUS		KACOMM-6	115	A	API/A	6119	2668
110540074	AUS		KACOMM-7	122.5	A	API/A	6120	2668
105520100	AUS		PAS-ENDEAVOUR-81W	-81	C	CR/C	1609	2586
110520152	AZE		AZERSAT 95.9	95.9	C	CR/C	2665	2700
108520283	AZE		AZERSAT A	43.2	C	CR/C	2329	2639
110520123	AZE		AZERSAT A1	43.2	C	CR/C	2638	2695
109520016	AZE		AZERSAT B	58.5	C	CR/C	2366	2643
110520124	AZE		AZERSAT B1	58.5	C	CR/C	2639	2695
110540917	AZE		AZERSAT C12	12	A	API/A	6612	2688
110540918	AZE		AZERSAT C17	17	A	API/A	6613	2688
110540919	AZE		AZERSAT C22	22	A	API/A	6614	2688
110540920	AZE		AZERSAT C27	27	A	API/A	6615	2688
110540921	AZE		AZERSAT C32	32	A	API/A	6616	2688
110540922	AZE		AZERSAT C37	37	A	API/A	6617	2688
110540923	AZE		AZERSAT C42	42	A	API/A	6618	2688
110540924	AZE		AZERSAT C47	47	A	API/A	6619	2688
110540925	AZE		AZERSAT C52	52	A	API/A	6620	2688
110540926	AZE		AZERSAT C57	57	A	API/A	6621	2688
110540927	AZE		AZERSAT C62	62	A	API/A	6622	2688
110540928	AZE		AZERSAT C67	67	A	API/A	6623	2688
110540882	AZE		AZERSAT C7	7	A	API/A	6521	2687
110540929	AZE		AZERSAT C72	72	A	API/A	6624	2688
110540930	AZE		AZERSAT C77	77	A	API/A	6625	2688
110540931	AZE		AZERSAT C82	82	A	API/A	6626	2688
110540932	AZE		AZERSAT C87	87	A	API/A	6627	2688
110540933	AZE		AZERSAT C92	92	A	API/A	6628	2688
102500255	B		B-SAT E	-63	N	PART	2	2597
107500035	B		B-SAT I	-63	N	PART	2	2686
104500559	B		B-SAT P	-84	N	PART	2	2633
110500015	B		B-SAT-1C	-70	N	PART	2	2705
111540430	B		B-SAT-1F-1	-92	A	API/A	6986	2703
104520004	B		B-SAT-1J	-68	C	CR/C	1402	2702
109520007	B		B-SAT-1L	-37	C	CR/C	2432	2671
107520289	B		B-SAT-1O	-10	C	CR/C	2139	2636
109520138	B		B-SAT-1Q	-61	C	CR/C	2433	2671
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
110520466	B		B-SAT-1Y	-26	C	CR/C	2790	2709
109520008	B		B-SAT-2D	-77.5	C	CR/C	2434	2671
110520001	B		B-SAT-2E	-87	C	CR/C	2620	2692
109520009	B		B-SAT-2F	-92	C	CR/C	2435	2671
110520128	B		B-SAT-2J	-68	C	CR/C	2644	2696
110520052	B		B-SAT-2N	-84	C	CR/C	2640	2696
104500485	B		B-SAT-Q	-61	N	PART	2	2644
109500279	B		B-SAT-R	-65	N	PART	2	2671
107500108	B		B-SAT-S	-75	N	PART	2	2674
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	2701
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
111520017	B		SISCOMIS-2A	-65	C	CR/C	2930	2702
98500055	B		SISCOMIS-3	-70	N	PART	2	2636
111520018	B		SISCOMIS-3A	-70	C	CR/C	2931	2702
108500588	B		SISCOMIS-4	-75	N	PART	2	2658
111520019	B		SISCOMIS-4A	-75	C	CR/C	2932	2702
110520161	B		SISCOMIS-8	-48	C	CR/C	2672	2700
89540035	BEL		SATCOM-4	-18	A	AR11/A	342	1985
108501099	BEL		SATCOM-4/10E	10	N	PART	2	2659
106500280	BEL		SATCOM-4/20.2W	-20.2	N	PART	2	2670
100540030	BEL		SATCOM-5	-17.8	A	API/A	1330	2451
110520463	BGD		BDSAT	102	C	CR/C	2785	2708
110520208	BOL		TUPAK KATARI-1	-87.2	C	CR/C	2678	2700
109541084	BOL		TUPAK KATARI-10	-82.5	A	API/A	6005	2664
109540971	BOL		TUPAK KATARI-2	-59.5	A	API/A	5972	2662
109540972	BOL		TUPAK KATARI-3	-48	A	API/A	5973	2662
109541078	BOL		TUPAK KATARI-4	-23	A	API/A	5999	2664
109541079	BOL		TUPAK KATARI-5	-26	A	API/A	6000	2664
109541080	BOL		TUPAK KATARI-6	-33	A	API/A	6001	2664
109541081	BOL		TUPAK KATARI-7	-39	A	API/A	6002	2664
109541082	BOL		TUPAK KATARI-8	-51.5	A	API/A	6003	2664
109541083	BOL		TUPAK KATARI-9	-57	A	API/A	6004	2664
111540726	BUL		BULSAT-1.9E	1.9	A	API/A	7161	2706
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	2674
93500184	CAN		ANIK E-B	-111.1	N	PART	2	2674
102500408	CAN		ANIK E-D	-118.7	N	PART	2	2564
106500142	CAN		ANIK-F1	-107.3	N	PART	2	2690
105500032	CAN		ANIK-F2	-111.1	N	PART	2	2648
111520060	CAN		ANIK-F2R	-111.1	C	CR/C	2835	2695
111520021	CAN		ANIK-F3R	-118.7	C	CR/C	2796	2691
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
108520018	CAN		CAN-BSS24	-72.5	C	CR/C	2173	2641
108520019	CAN		CAN-BSS27	-82	C	CR/C	2174	2641
108520020	CAN		CAN-BSS29	-86.5	C	CR/C	2175	2641
108520021	CAN		CAN-BSS31	-91	C	CR/C	2176	2641
109520226	CAN		CAN-BSS34	-103	C	CR/C	2469	2678
108520022	CAN		CAN-BSS36	-107.3	C	CR/C	2177	2641
108520023	CAN		CAN-BSS40	-118.7	C	CR/C	2178	2641
110520027	CAN		CAN-BSS50 (95W)	-95	C	CR/C	2568	2690
110520028	CAN		CAN-BSS51 (99W)	-99	C	CR/C	2569	2690
109520111	CAN		CAN-BSS52 (111.1W)	-111.1	C	CR/C	2413	2669
110520029	CAN		CAN-BSS53 (113W)	-113	C	CR/C	2570	2690
110520030	CAN		CAN-BSS54 (114.9W)	-114.9	C	CR/C	2571	2690
110540020	CAN		CAN-BSS58 (111.1W)	-111.1	A	API/A	6019	2665
105520326	CAN		CAN-BSS8	-82	C	CR/C	1714	2595
105520327	CAN		CAN-BSS9	-86.5	C	CR/C	1715	2595
110540032	CAN		CANSAT (107.3W) - V1	-107.3	A	API/A	6027	2666
110540026	CAN		CANSAT (107.3W)-KA1	-107.3	A	API/A	6096	2665
110540042	CAN		CANSAT (107.3W)-KAV1	-107.3	A	API/A	6102	2666
110540031	CAN		CANSAT (109.2W) - V1	-109.2	A	API/A	6026	2666
110520024	CAN		CANSAT (109.2W)-CKU	-109.2	C	CR/C	2567	2690
110540041	CAN		CANSAT (109.2W)-KAV1	-109.2	A	API/A	6101	2666
110540030	CAN		CANSAT (111.1W) - V1	-111.1	A	API/A	6025	2666
110540040	CAN		CANSAT (111.1W)-KAV1	-111.1	A	API/A	6100	2666
110540029	CAN		CANSAT (114.9W) - V1	-114.9	A	API/A	6024	2666
110540039	CAN		CANSAT (114.9W)-KAV1	-114.9	A	API/A	6099	2666
110540028	CAN		CANSAT (118.7W) - V1	-118.7	A	API/A	6023	2666
110540038	CAN		CANSAT (118.7W)-KAV1	-118.7	A	API/A	6098	2666
110540027	CAN		CANSAT (129W) - V1	-129	A	API/A	6022	2666
110540037	CAN		CANSAT (129W)-KAV1	-129	A	API/A	6097	2666
110540036	CAN		CANSAT (72.5W) - V1	-72.5	A	API/A	6031	2666
110540046	CAN		CANSAT (72.5W)-KAV1	-72.5	A	API/A	6106	2666
110540035	CAN		CANSAT (82W) - V1	-82	A	API/A	6030	2666
110540045	CAN		CANSAT (82W)-KAV1	-82	A	API/A	6105	2666
110540034	CAN		CANSAT (86.5W) - V1	-86.5	A	API/A	6029	2666
110540044	CAN		CANSAT (86.5W)-KAV1	-86.5	A	API/A	6104	2666
110540033	CAN		CANSAT (91W) - V1	-91	A	API/A	6028	2666
110540043	CAN		CANSAT (91W)-KAV1	-91	A	API/A	6103	2666
104500106	CAN		CANSAT KA-3	-82	N	PART	2	2604
108501177	CAN		CANSAT KA-4	-111.1	N	PART	2	2667
108501178	CAN		CANSAT KA-5	-118.7	N	PART	2	2661
108500946	CAN		CANSAT KA-5X	-118.7	N	PART	2	2659

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110520190	CAN		CANSAT(103W)-XKA	-103	C	CR/C	2691	2701
109520139	CAN		CANSAT(107.3W)-L	-107.3	C	CR/C	2448	2674
110520023	CAN		CANSAT(107.3W)-XKA	-107.3	C	CR/C	2566	2690
110520051	CAN		CANSAT(109.2W)-EXTKU	-109.2	C	CR/C	2574	2670
109540019	CAN		CANSAT(111.1W)-XKA	-111.1	A	API/A	5514	2639
110520191	CAN		CANSAT(113W)-XKA	-113	C	CR/C	2692	2701
109540920	CAN		CANSAT(114.9W)-CKU	-114.9	A	API/A	5960	2660
109520254	CAN		CANSAT(118.7W)-EXTKU	-118.7	C	CR/C	2488	2664
110520192	CAN		CANSAT(118.7W)-XKA	-118.7	C	CR/C	2673	2700
110540061	CAN		CANSAT(129W)-XKA	-129	A	API/A	6115	2666
109540014	CAN		CANSAT(72.7W)-XKA	-72.7	A	API/A	5509	2639
110540144	CAN		CANSAT(76W)-KA	-76	A	API/A	6160	2671
111540591	CAN		CANSAT(82W)-KA	-82	A	API/A	7075	2705
109540015	CAN		CANSAT(82W)-XKA	-82	A	API/A	5510	2639
109540016	CAN		CANSAT(86.5W)-XKA	-86.5	A	API/A	5511	2639
110520148	CAN		CANSAT(87W)-KA	-87	C	CR/C	2656	2696
110520022	CAN		CANSAT(91.1W)-XKA	-91.1	C	CR/C	2565	2690
110520149	CAN		CANSAT(93W)-KA	-93	C	CR/C	2657	2696
110500038	CAN		CANSAT-17	-114.9	N	PART	2	2690
108501202	CAN		CANSAT-18	-118.7	N	PART	2	2665
105520334	CAN		CANSAT-24	-111.1	C	CR/C	1710	2674
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
105520099	CAN		CANSAT-30	-91	C	CR/C	1608	2586
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	2673
106520075	CAN		CANSAT-35	-114.9	C	CR/C	1817	2603
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
101500597	CAN		MSAT	-106.5	N	PART	2	2559
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
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
110520266	CHN		ASIASAT-120V	120	C	CR/C	2720	2703
109540543	CHN		ASIASAT-140V	140	A	API/A	5773	2652
110540781	CHN		ASIASAT-17V	17	A	API/A	6500	2685
110540085	CHN		ASIASAT-40V	40	A	API/A	6131	2668

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110540086	CHN		ASIASAT-50V	50	A	API/A	6132	2668
111540736	CHN		ASIASAT-70U	70	A	API/A	7168	2706
111540737	CHN		ASIASAT-80U	80	A	API/A	7169	2706
109540539	CHN		ASIASAT-80V	80	A	API/A	5769	2652
111540738	CHN		ASIASAT-90U	90	A	API/A	7170	2706
109540540	CHN		ASIASAT-90V	90	A	API/A	5770	2652
98500161	CHN		ASIASAT-A	122	N	PART	2	2423
111520126	CHN		ASIASAT-AAA	122	C	CR/C	2898	2700
110540785	CHN		ASIASAT-AAB	122	A	API/A	6504	2686
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
109520276	CHN		ASIASAT-AKW	122.2	C	CR/C	2503	2684
108500585	CHN		ASIASAT-AKX	122	N	PART	2	2661
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
109520277	CHN		ASIASAT-CKW	105.5	C	CR/C	2504	2684
108500589	CHN		ASIASAT-CKX	105.5	N	PART	2	2684
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
109520278	CHN		ASIASAT-EKW	100.5	C	CR/C	2505	2684
104500426	CHN		ASIASAT-EKX	100.5	N	PART	2	2656
105520374	CHN		ASIASAT-EKZ	100.5	C	CR/C	1755	2598
110520447	CHN		CGSAT-98W	-94.5	C	CR/C	2779	2708
107500033	CHN		CHINASAT-1	87.5	N	PART	2	2639
108501257	CHN		CHINASAT-115.5E	115.5	N	PART	2	2678
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	2689
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
109500876	CHN		CHINASAT-31	80	N	PART	2	2680
109500877	CHN		CHINASAT-32	140	N	PART	2	2680
107500478	CHN		CHINASAT-33	110.5	N	PART	2	2680
110500133	CHN		CHINASAT-34A	79.6	N	PART	2	2694
110500134	CHN		CHINASAT-34B	84	N	PART	2	2694
110500115	CHN		CHINASAT-35B	140.4	N	PART	2	2693
110500135	CHN		CHINASAT-35C	144.5	N	PART	2	2694
107500125	CHN		CHINASAT-4	130	N	PART	2	2686
108501183	CHN		CHINASAT-44	98	N	PART	2	2687
108501038	CHN		CHINASAT-45	101.5	N	PART	2	2652
105500289	CHN		CHINASAT-46	105	N	PART	2	2654
109500020	CHN		CHINASAT-49	125	N	PART	2	2670
109500021	CHN		CHINASAT-51.5E	51.5	N	PART	2	2692



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105500221	CHN		CHINASAT-6	110.5	N	PART	2	2554
110500099	CHN		CHINASAT-64	98	N	PART	2	2689
110500098	CHN		CHINASAT-65	103	N	PART	2	2689
101544625	CHN		CHINASAT-71.5E	71.5	A	API/A	1966	2449
105500478	CHN		CHINASAT-92.2E	92.2	N	PART	2	2681
109520150	CHN		CHINASAT-A1	9.7	C	CR/C	2442	2673
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
109540282	CHN		CHINASAT-A4	85	A	API/A	5576	2645
109520260	CHN		CHINASAT-A5	87.5	C	CR/C	2487	2681
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
110520008	CHN		CHINASAT-AL1	-8.5	C	CR/C	2553	2689
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
110520121	CHN		CHINASAT-AL4	-40	C	CR/C	2637	2695
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
110520009	CHN		CHINASAT-AL9	-86.3	C	CR/C	2554	2689
110540410	CHN		CHINASAT-CL1	46.5	A	API/A	6393	2680
110540419	CHN		CHINASAT-CL10	125	A	API/A	6402	2680
111520040	CHN		CHINASAT-CL11	163	C	CR/C	2816	2706
110540421	CHN		CHINASAT-CL12	176	A	API/A	6404	2680
111520039	CHN		CHINASAT-CL2	51.5	C	CR/C	2815	2706
110540412	CHN		CHINASAT-CL3	71.7	A	API/A	6395	2680
110540413	CHN		CHINASAT-CL4	85	A	API/A	6396	2680
110540414	CHN		CHINASAT-CL5	92.2	A	API/A	6397	2680
110540415	CHN		CHINASAT-CL6	97.5	A	API/A	6398	2680
110540416	CHN		CHINASAT-CL7	105	A	API/A	6399	2680
110540417	CHN		CHINASAT-CL8	110.5	A	API/A	6400	2680
110540418	CHN		CHINASAT-CL9	115.5	A	API/A	6401	2680
110540895	CHN		CHINASAT-DL1	87.5	A	API/A	6596	2687
110540896	CHN		CHINASAT-DL2	92.2	A	API/A	6597	2687
110540897	CHN		CHINASAT-DL3	105	A	API/A	6598	2687
111520197	CHN		CHINASAT-DL4	110.5	C	CR/C	2927	2702
111520198	CHN		CHINASAT-DL5	115.5	C	CR/C	2928	2702
111520199	CHN		CHINASAT-DL6	125	C	CR/C	2929	2702
108501216	CHN		CHINASAT-MSB4	115.5	N	PART	2	2697
108501132	CHN		CHINASAT-MSB5	125	N	PART	2	2692
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

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107520166	CHN		CHINASAT-ROUTE5	92.2	C	CR/C	2063	2664
107520167	CHN		CHINASAT-ROUTE6	105	C	CR/C	2064	2626
107520168	CHN		CHINASAT-ROUTE7	115.5	C	CR/C	2065	2664
107520169	CHN		CHINASAT-ROUTE8	125	C	CR/C	2066	2664
106520013	CHN		CHNBSAT-108E	108.5	C	CR/C	1848	2581
110500168	CHN		CHNBSAT-113E	113.2	N	PART	2	2706
110500163	CHN		CHNBSAT-119E	119	N	PART	2	2706
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
110540963	CHN		CHNBSAT-G3-1	62	A	API/A	6654	2690
110540972	CHN		CHNBSAT-G3-10	115.5	A	API/A	6663	2690
110540973	CHN		CHNBSAT-G3-11	119	A	API/A	6664	2690
110540974	CHN		CHNBSAT-G3-12	125	A	API/A	6665	2690
110540975	CHN		CHNBSAT-G3-13	129	A	API/A	6666	2690
110540976	CHN		CHNBSAT-G3-14	134	A	API/A	6667	2690
110540977	CHN		CHNBSAT-G3-15	139	A	API/A	6668	2690
110540964	CHN		CHNBSAT-G3-2	71	A	API/A	6655	2690
110540965	CHN		CHNBSAT-G3-3	80	A	API/A	6656	2690
110540966	CHN		CHNBSAT-G3-4	86	A	API/A	6657	2690
110540967	CHN		CHNBSAT-G3-5	92.2	A	API/A	6658	2690
110540968	CHN		CHNBSAT-G3-6	98	A	API/A	6659	2690
110540969	CHN		CHNBSAT-G3-7	101	A	API/A	6660	2690
110540970	CHN		CHNBSAT-G3-8	108.5	A	API/A	6661	2690
110540971	CHN		CHNBSAT-G3-9	113.2	A	API/A	6662	2690
111520323	CHN		CHNSAT-103E	103	C	CR/C	2990	2709
105520119	CHN		CHNSAT-130E	130	C	CR/C	1633	2675
105520120	CHN		CHNSAT-142E	142.5	C	CR/C	1634	2668
110540106	CHN		CHNSAT-155W	-155	A	API/A	6143	2670
110540112	CHN		CHNSAT-167.5E	167.5	A	API/A	6149	2670
108520310	CHN		CHNSAT-2-130E	130	C	CR/C	2350	2658
110540107	CHN		CHNSAT-2W	-2	A	API/A	6144	2670
105520118	CHN		CHNSAT-72E	71.5	C	CR/C	1632	2668
111520322	CHN		CHNSAT-81.5E	81.5	C	CR/C	2989	2709
110540109	CHN		CHNSAT-86.5E	86.5	A	API/A	6146	2670
111520054	CHN		CHNSAT-98E	98.2	C	CR/C	2828	2706
110520219	CHN		CHNSAT-M-101.4E	101.4	C	CR/C	2698	2702
103500418	CHN		COMPASS-110.5E	110.5	N	PART	2	2681

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103500419	CHN		COMPASS-140E	140	N	PART	2	2684
109500803	CHN		COMPASS-160E	160	N	PART	2	2701
103500416	CHN		COMPASS-58.75E	58.75	N	PART	2	2687
103500417	CHN		COMPASS-80E	80	N	PART	2	2689
111520204	CHN		COMPASS-B-144.5E	144.5	C	CR/C	2934	2702
111520203	CHN		COMPASS-B-84E	84	C	CR/C	2933	2702
108501265	CHN		CTDRS-1-77E	77	N	PART	2	2691
108501266	CHN		CTDRS-1-80E	80	N	PART	2	2692
110520238	CHN		CTDRS-2-10.6E	10.6	C	CR/C	2711	2702
110520239	CHN		CTDRS-2-16.8E	16.8	C	CR/C	2712	2702
107520175	CHN		CTDRS-2-167E	167	C	CR/C	2069	2636
107520176	CHN		CTDRS-2-171E	171	C	CR/C	2070	2636
107520177	CHN		CTDRS-2-176.8E	176.8	C	CR/C	2071	2636
110520240	CHN		CTDRS-2-20.4E	20.4	C	CR/C	2713	2702
105500526	CHN		DFH-3A-OB	110.5	N	PART	2	2656
108501200	CHN		DFH-3A-OC	98	N	PART	2	2685
110500170	CHN		DFH-3A-OD	130	N	PART	2	2693
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	2697
95500597	CHN		DFH-3-OE	121	N	PART	2	2352
105500161	CHN		DFH-4-OA	125	N	PART	2	2662
110540961	CHN		DFH-4-OAF	155	A	API/A	6651	2690
108500967	CHN		DFH-4-OB	103	N	PART	2	2649
108501060	CHN		DFH-4-OD	115.5	N	PART	2	2652
111540799	CHN		DFH-5-01A	96	A	API/A	7184	2709
111540800	CHN		DFH-5-01B	107.5	A	API/A	7185	2709
108501095	CHN		DFH-5-OD	115.5	N	PART	2	2686
104500597	CHN		FY-2A	105	N	PART	2	2626
105500156	CHN		FY-2AS	105	N	PART	2	2691
105500157	CHN		FY-2B	86.5	N	PART	2	2691
105500158	CHN		FY-2BS	86.5	N	PART	2	2691
105500159	CHN		FY-2C	123.5	N	PART	2	2691
105500160	CHN		FY-2CS	123.5	N	PART	2	2691
111520013	CHN		FYGEOSAT-105E	105	C	CR/C	2802	2697
111520014	CHN		FYGEOSAT-112E	112	C	CR/C	2803	2697
111520015	CHN		FYGEOSAT-123.5E	123.5	C	CR/C	2804	2697
110540335	CHN		FYGEOSAT-130E	130	A	API/A	6320	2678
111520016	CHN		FYGEOSAT-133E	133	C	CR/C	2805	2703
110540337	CHN		FYGEOSAT-137E	137	A	API/A	6322	2678
110540325	CHN		FYGEOSAT-61E	61	A	API/A	6310	2678
110540326	CHN		FYGEOSAT-63E	63	A	API/A	6311	2678
110540327	CHN		FYGEOSAT-67E	67	A	API/A	6312	2678
111520010	CHN		FYGEOSAT-79E	79	C	CR/C	2799	2697
111520011	CHN		FYGEOSAT-86.5E	86.5	C	CR/C	2800	2697
110540330	CHN		FYGEOSAT-98.5E	98.5	A	API/A	6315	2678
111520012	CHN		FYGEOSAT-99.5E	99.5	C	CR/C	2801	2697
108540386	CHN		FYMETSAT-4A-105E	105	A	API/A	5243	2649

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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
111520127	CHN		G4SAT-1	82	C	CR/C	2938	2702
111540547	CHN		ITS-136E	136	A	API/A	7037	2704
110540891	CHN		ITS-KA-A	83.5	A	API/A	6592	2687
110540892	CHN		ITS-KA-B	64.5	A	API/A	6593	2687
110540893	CHN		ITS-KA-C	96.5	A	API/A	6594	2687
110540894	CHN		ITS-KA-D	133.5	A	API/A	6595	2687
111540423	CHN		ITS-SA-A	-77.2	A	API/A	6978	2703
111540424	CHN		ITS-SA-B	-63.2	A	API/A	6979	2703
108501217	CHN		SINOSAT-3	97.5	N	PART	2	2690
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	2707
106520145	CHN		SINOSAT-5	110.5	C	CR/C	1895	2668
106520146	CHN		SINOSAT-7A	46.5	C	CR/C	1896	2668
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
109500101	CLM	ASA	SIMON BOLIVAR 2	-67	N	PART	2	2676
109520244	CLM		SATCOL 1B	-70.9	C	CR/C	2472	2678
110520469	CLM		SATCOL 1P	-38	C	CR/C	2789	2709
111520041	CLM		SATCOL 1Q	-131	C	CR/C	2814	2706
107540235	CLM		SIMON BOLIVAR 2A	-67	A	API/A	4648	2598
110540207	CLM		SIMON BOLIVAR 2B	-67	A	API/A	6214	2674
108540740	CTI	RAS	RASCOM-3G-A	-21.1	A	API/A	5478	2702
108540741	CTI	RAS	RASCOM-3G-B	-15.1	A	API/A	5479	2702
108540742	CTI	RAS	RASCOM-3G-C	-9.1	A	API/A	5480	2702
110520076	CTI	RAS	RASCOM-3G-D	1	C	CR/C	2586	2691
110520077	CTI	RAS	RASCOM-3G-E	2.9	C	CR/C	2587	2691
110520078	CTI	RAS	RASCOM-3G-F	14	C	CR/C	2588	2691
110520079	CTI	RAS	RASCOM-3G-G	17	C	CR/C	2589	2691
110520080	CTI	RAS	RASCOM-3G-H	23.5	C	CR/C	2590	2691
108540748	CTI	RAS	RASCOM-3G-I	26.9	A	API/A	5486	2702
110520081	CTI	RAS	RASCOM-3G-J	31	C	CR/C	2591	2691
110520082	CTI	RAS	RASCOM-3G-K	38	C	CR/C	2592	2691
108540751	CTI	RAS	RASCOM-3G-L	44.9	A	API/A	5489	2702
108540752	CTI	RAS	RASCOM-3G-M	50.9	A	API/A	5490	2702
110540298	CTI	RAS	RASCOM-4G-A	-21.1	A	API/A	6285	2677
110540299	CTI	RAS	RASCOM-4G-B	-15.1	A	API/A	6286	2677
110540300	CTI	RAS	RASCOM-4G-C	-9.1	A	API/A	6287	2677
110540301	CTI	RAS	RASCOM-4G-D	-3.1	A	API/A	6288	2677
110540302	CTI	RAS	RASCOM-4G-E	2.9	A	API/A	6289	2677

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110540303	CTI	RAS	RASCOM-4G-F	8.9	A	API/A	6290	2677
110540304	CTI	RAS	RASCOM-4G-G	14.9	A	API/A	6291	2677
110540305	CTI	RAS	RASCOM-4G-H	20.9	A	API/A	6292	2677
110540306	CTI	RAS	RASCOM-4G-I	26.9	A	API/A	6293	2677
110540307	CTI	RAS	RASCOM-4G-J	32.9	A	API/A	6294	2677
110540308	CTI	RAS	RASCOM-4G-K	38.9	A	API/A	6295	2677
110540309	CTI	RAS	RASCOM-4G-L	44.9	A	API/A	6296	2677
110540310	CTI	RAS	RASCOM-4G-M	50.9	A	API/A	6297	2677
109500221	CTI	RAS	RASCOM-C	5.5	N	PART	2	2667
105520087	CTI	RAS	RASCOM-C2	5.5	C	CR/C	1664	2563
111520240	CYP		KYPROS-ACHILLEAS	174	C	CR/C	2970	2706
111540110	CYP		KYPROS-AEGAEON	-12.5	A	API/A	6761	2694
111520244	CYP		KYPROS-AETHER	-2	C	CR/C	2976	2706
108520196	CYP		KYPROS-APHRODITE	90	C	CR/C	2279	2650
111520150	CYP		KYPROS-APHRODITE-2	90	C	CR/C	2901	2701
110520263	CYP		KYPROS-APOLLO	-56	C	CR/C	2719	2703
109520238	CYP		KYPROS-ARES	89.5	C	CR/C	2473	2707
108520253	CYP		KYPROS-ARTEMIS	-174.5	C	CR/C	2298	2652
111520151	CYP		KYPROS-ARTEMIS-2	-174.5	C	CR/C	2902	2701
111520245	CYP		KYPROS-ASTERIA	61	C	CR/C	2972	2706
108520197	CYP		KYPROS-ATHENA	22.5	C	CR/C	2280	2650
111520193	CYP		KYPROS-ATHENA-2	22.5	C	CR/C	2903	2701
111520246	CYP		KYPROS-ATLAS	123	C	CR/C	2975	2706
111540084	CYP		KYPROS-CAERUS	114	A	API/A	6736	2694
111540063	CYP		KYPROS-CRONOS	-26	A	API/A	6722	2694
111540111	CYP		KYPROS-ELPIS	-123	A	API/A	6762	2694
111520247	CYP		KYPROS-EUROPA	16.5	C	CR/C	2977	2706
111540112	CYP		KYPROS-HEBE	-101	A	API/A	6763	2694
111540086	CYP		KYPROS-HEMERA	103	A	API/A	6738	2694
110520264	CYP		KYPROS-HERA	107.5	C	CR/C	2718	2703
111540087	CYP		KYPROS-HERACLES	150	A	API/A	6739	2694
111520194	CYP		KYPROS-HERMES-2	57	C	CR/C	2904	2701
111540064	CYP		KYPROS-IRIS	-34	A	API/A	6723	2694
111540113	CYP		KYPROS-KRATOS	-79	A	API/A	6764	2694
111540065	CYP		KYPROS-ODYSSEUS	-134	A	API/A	6724	2694
111520241	CYP		KYPROS-OKEANOS	-161	C	CR/C	2971	2706
111540088	CYP		KYPROS-ORION	92	A	API/A	6740	2694
111520242	CYP		KYPROS-PERSEUS	-50.5	C	CR/C	2969	2706
111540068	CYP		KYPROS-PLUTONAS	-149	A	API/A	6727	2694
108520198	CYP		KYPROS-POSEIDON	-52.5	C	CR/C	2281	2650
111520195	CYP		KYPROS-POSEIDON-2	-52.5	C	CR/C	2905	2701
111520248	CYP		KYPROS-PROMETHEUS	134	C	CR/C	2974	2706
111520128	CYP		KYPROS-SAT-5	39	C	CR/C	2899	2700
108501035	CYP		KYPROS-SAT-C	39	N	PART	2	2652
108501207	CYP		KYPROS-SAT-KA3	39	N	PART	2	2678
108501096	CYP		KYPROS-SAT-L4	39	N	PART	2	2652
111540090	CYP		KYPROS-SELENE	76	A	API/A	6742	2694
111520249	CYP		KYPROS-THALASSA	47	C	CR/C	2973	2706
111540092	CYP		KYPROS-THEMIS	54	A	API/A	6744	2694
111540069	CYP		KYPROS-TITANOS	-42	A	API/A	6728	2694

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111520243	CYP		KYPROS-URANUS	-172.5	C	CR/C	2968	2706
111540114	CYP		KYPROS-ZEPHYRUS	32	A	API/A	6765	2694
108520199	CYP		KYPROS-ZEUS	54	C	CR/C	2282	2650
111520196	CYP		KYPROS-ZEUS-2	54	C	CR/C	2906	2701
107520286	CZE		CESASAT-2	18	C	CR/C	2124	2637
111540487	CZE		CESASAT-2-1	14	A	API/A	7013	2703
111540488	CZE		CESASAT-2-2	18	A	API/A	7014	2703
111540489	CZE		CESASAT-2-3	22.5	A	API/A	7015	2703
111540490	CZE		CESASAT-2-4	27	A	API/A	7016	2703
111540491	CZE		CESASAT-2-5	32	A	API/A	7017	2703
111540492	CZE		CESASAT-2-6	37.5	A	API/A	7018	2703
111540493	CZE		CESASAT-2-7	43.5	A	API/A	7019	2703
111540494	CZE		CESASAT-2-8	48.5	A	API/A	7020	2703
109520010	CZE		CESASAT-7	46	C	CR/C	2364	2659
107520306	D	EUM	METEOSAT IODC_57.5E	57.5	C	CR/C	2128	2669
107520307	D	EUM	METEOSAT IODC_67.5E	67.5	C	CR/C	2129	2669
111540550	D	EUM	MTG-3.5E	3.5	A	API/A	7040	2704
110520422	D	EUM	MTG-D1_0E	0	C	CR/C	2776	2708
110520423	D	EUM	MTG-D1_3.4W	-3.4	C	CR/C	2783	2708
110520424	D	EUM	MTG-D1_9.5E	9.5	C	CR/C	2777	2708
107500643	D		DFS II-1	23.5	N	PART	2	2666
107500494	D		DFS II-2	28.5	N	PART	2	2638
92500176	D		DFS-1	23.5	N	PART	2	2678
92500177	D		DFS-2	28.5	N	PART	2	2678
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
111520232	D		EUROPESTAR-45E-KA	45	C	CR/C	2957	2705
111520233	D		EUROPESTAR-47.5E-KA	47.5	C	CR/C	2958	2705
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
109500171	D		GENESIS-8	13	N	PART	2	2691
109500420	D		GENESIS-9	63	N	PART	2	2681
109520110	E		HISPASAT 2A 36W	-36	C	CR/C	2416	2670
107520253	E		HISPASAT 36W	-36	C	CR/C	2095	2631
92500108	E		HISPASAT-1	-30	N	PART	2	2645
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
110520014	E		HISPASAT-3A	-30	C	CR/C	2564	2689
110540295	E		HISPASAT-4A	-61	A	API/A	6283	2676
111520124	E		HISPASAT-5A	-47.5	C	CR/C	2900	2700

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111520213	E		HISPASAT-6A	-26	C	CR/C	2956	2705
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	2678
111520030	E		SECOMSAT-B1_22E	22	C	CR/C	2834	2695
108520282	E		SECOMSAT-B1_29E	29	C	CR/C	2321	2638
110520031	E		SECOMSAT-B1-36E	36	C	CR/C	2572	2696
110520032	E		SECOMSAT-B1-50E	50	C	CR/C	2573	2696
111540552	E		SECOMSAT-B1-R_41E	41	A	API/A	7042	2705
109540384	EGY		NAVISAT-10A	22	A	API/A	5646	2647
109520317	EGY		NAVISAT-11A	28.25	C	CR/C	2533	2686
109520318	EGY		NAVISAT-12A	35.5	C	CR/C	2534	2686
109540387	EGY		NAVISAT-13A	40	A	API/A	5649	2647
109520319	EGY		NAVISAT-14A	44	C	CR/C	2535	2686
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
109520315	EGY		NAVISAT-2A	21	C	CR/C	2531	2686
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
110520449	EGY		NAVISAT-7A	1	C	CR/C	2780	2708
109540382	EGY		NAVISAT-8A	10	A	API/A	5644	2647
109520316	EGY		NAVISAT-9A	14	C	CR/C	2532	2686
109520031	EGY		NILESAT-301-7W	-7	C	CR/C	2376	2644
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
102500435	F	ESA	ARTEMIS-21.5E-DR	21.5	N	PART	2	2703
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
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	2694
101500510	F	ESA	MSG-S2	-10	N	PART	2	2684
90500631	F	EUT	EUTELSAT 1-3	7	N	PART	2	2702
92500311	F	EUT	EUTELSAT 1-5	21.5	N	PART	2	2684
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	2	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

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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
108500798	F	EUT	EUTELSAT 3-25.5E	25.5	N	PART	2	2692
98543403	F	EUT	EUTELSAT 3-29E	29	A	API/A	657	2509
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	2683
103500277	F	EUT	EUTELSAT 3-70.5E	70.5	N	PART	2	2682
103500280	F	EUT	EUTELSAT 3-7E	7	N	PART	2	2606
97540448	F	EUT	EUTELSAT 3A-14.8W	-14.8	A	API/A	2986	2510
107500525	F	EUT	EUTELSAT-B1-13E	13	N	PART	2	2633
107500234	F	EUT	EUTELSAT-B1-16E	16	N	PART	2	2709
107500236	F	EUT	EUTELSAT-B1-25.5E	25.5	N	PART	2	2690
107500232	F	EUT	EUTELSAT-B1-7E	7	N	PART	2	2690
103500079	F	EUT	EUTELSAT-E-70.5E	70.5	N	PART	2	2604
105500069	F	EUT	EUTELSAT-KA-13E	13	N	PART	2	2640
105500068	F	EUT	EUTELSAT-KA-16E	16	N	PART	2	2709
95540331	F	EUT	EUTELSAT-KA-21.5E	21.5	A	AR11/A	1466	2306
108500579	F	EUT	EUTELSAT-KA-25.5E	25.5	N	PART	2	2642
108500581	F	EUT	EUTELSAT-KA-33E	33	N	PART	2	2707
108500578	F	EUT	EUTELSAT-KA-36E	36	N	PART	2	2708
95540336	F	EUT	EUTELSAT-KA-48E	48	A	AR11/A	1471	2306
105500071	F	EUT	EUTELSAT-KA-7E	7	N	PART	2	2634
105520122	F		3GSAT-G15R	-15	C	CR/C	1638	2589
110500239	F		3GSAT-G17R	10	N	PART	2	2697
105520121	F		3GSAT-G2R	32.5	C	CR/C	1637	2589
106520144	F		AGORA-25E	25	C	CR/C	1878	2609
110540368	F		ASAT E000	0	A	API/A	6352	2679
110540369	F		ASAT E006	6	A	API/A	6353	2679
110540370	F		ASAT E012	12	A	API/A	6354	2679
110540371	F		ASAT E018	18	A	API/A	6355	2679
110540374	F		ASAT E036	36	A	API/A	6358	2679
110540375	F		ASAT E042	42	A	API/A	6359	2679
110540376	F		ASAT E048	48	A	API/A	6360	2679
110540377	F		ASAT E054	54	A	API/A	6361	2679
110540378	F		ASAT E060	60	A	API/A	6362	2679
110540379	F		ASAT E066	66	A	API/A	6363	2679
110540380	F		ASAT E072	72	A	API/A	6364	2679
110540381	F		ASAT E078	78	A	API/A	6365	2679
110540382	F		ASAT E084	84	A	API/A	6366	2679
110540383	F		ASAT E090	90	A	API/A	6367	2679
110540384	F		ASAT E096	96	A	API/A	6368	2679
110540385	F		ASAT E102	102	A	API/A	6369	2679
110540386	F		ASAT E108	108	A	API/A	6370	2679
110540387	F		ASAT E114	114	A	API/A	6371	2679
110540388	F		ASAT E120	120	A	API/A	6372	2679
110540389	F		ASAT E126	126	A	API/A	6373	2679
110540390	F		ASAT E132	132	A	API/A	6374	2679



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110540391	F		ASAT E138	138	A	API/A	6375	2679
110540392	F		ASAT E144	144	A	API/A	6376	2679
110540393	F		ASAT E150	150	A	API/A	6377	2679
110540394	F		ASAT E156	156	A	API/A	6378	2679
110540395	F		ASAT E162	162	A	API/A	6379	2679
110540396	F		ASAT E168	168	A	API/A	6380	2679
110540397	F		ASAT E174	174	A	API/A	6381	2679
110540398	F		ASAT E180	180	A	API/A	6382	2679
110540366	F		ASAT W012	-12	A	API/A	6350	2679
110540365	F		ASAT W018	-18	A	API/A	6349	2679
111520125	F		ASAT W026	-26	C	CR/C	2895	2700
110540363	F		ASAT W030	-30	A	API/A	6347	2679
110540362	F		ASAT W036	-36	A	API/A	6346	2679
110540361	F		ASAT W042	-42	A	API/A	6345	2679
110540360	F		ASAT W048	-48	A	API/A	6344	2679
110540359	F		ASAT W054	-54	A	API/A	6343	2679
110540358	F		ASAT W060	-60	A	API/A	6342	2679
110540357	F		ASAT W066	-66	A	API/A	6341	2679
110540356	F		ASAT W072	-72	A	API/A	6340	2679
110540355	F		ASAT W078	-78	A	API/A	6339	2679
110540354	F		ASAT W084	-84	A	API/A	6338	2679
110540353	F		ASAT W090	-90	A	API/A	6337	2679
110540352	F		ASAT W096	-96	A	API/A	6336	2679
110540351	F		ASAT W102	-102	A	API/A	6335	2679
110540350	F		ASAT W108	-108	A	API/A	6334	2679
110540349	F		ASAT W114	-114	A	API/A	6333	2679
110540348	F		ASAT W120	-120	A	API/A	6332	2679
110540347	F		ASAT W126	-126	A	API/A	6331	2679
110540346	F		ASAT W132	-132	A	API/A	6330	2679
110540345	F		ASAT W138	-138	A	API/A	6329	2679
110540344	F		ASAT W144	-144	A	API/A	6328	2679
110540343	F		ASAT W150	-150	A	API/A	6327	2679
110540342	F		ASAT W156	-156	A	API/A	6326	2679
110540341	F		ASAT W162	-162	A	API/A	6325	2679
110540340	F		ASAT W168	-168	A	API/A	6324	2679
110540339	F		ASAT W174	-174	A	API/A	6323	2679
111520227	F		ASAT-P1B	-2.8	C	CR/C	2953	2705
111520228	F		ASAT-P2B	25	C	CR/C	2954	2705
111520229	F		ASAT-P3B	31.2	C	CR/C	2955	2705
109540459	F		AST-0E	0	A	API/A	5707	2656
111520306	F		AST-102W	-102	C	CR/C	2986	2708
109540468	F		AST-108E	108	A	API/A	5716	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
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

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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
111520153	F		AST-17.5W	-17.5	C	CR/C	2916	2701
109540474	F		AST-180E	180	A	API/A	5722	2656
111540010	F		AST-2-0E	0	A	API/A	6694	2705
111540019	F		AST-2-108E	108	A	API/A	6703	2705
111540031	F		AST-2-108W	-108	A	API/A	6685	2705
111540020	F		AST-2-120E	120	A	API/A	6704	2705
111540030	F		AST-2-120W	-120	A	API/A	6684	2705
111540011	F		AST-2-12E	12	A	API/A	6695	2705
111540039	F		AST-2-12W	-12	A	API/A	6693	2705
111540021	F		AST-2-132E	132	A	API/A	6705	2705
111540029	F		AST-2-132W	-132	A	API/A	6683	2705
111540022	F		AST-2-144E	144	A	API/A	6706	2705
111540028	F		AST-2-144W	-144	A	API/A	6682	2705
111540023	F		AST-2-156E	156	A	API/A	6707	2705
111540027	F		AST-2-156W	-156	A	API/A	6681	2705
111540024	F		AST-2-168E	168	A	API/A	6708	2705
111540026	F		AST-2-168W	-168	A	API/A	6680	2705
111540025	F		AST-2-180E	180	A	API/A	6709	2691
111540012	F		AST-2-24E	24	A	API/A	6696	2705
111540038	F		AST-2-24W	-24	A	API/A	6692	2705
111540013	F		AST-2-36E	36	A	API/A	6697	2705
111540037	F		AST-2-36W	-36	A	API/A	6691	2705
111540014	F		AST-2-48E	48	A	API/A	6698	2705
111540036	F		AST-2-48W	-48	A	API/A	6690	2705
109540461	F		AST-24E	24	A	API/A	5709	2656
109540446	F		AST-24W	-24	A	API/A	5694	2656
111540015	F		AST-2-60E	60	A	API/A	6699	2705
111540035	F		AST-2-60W	-60	A	API/A	6689	2705
111540016	F		AST-2-72E	72	A	API/A	6700	2705
111540034	F		AST-2-72W	-72	A	API/A	6688	2705
111540017	F		AST-2-84E	84	A	API/A	6701	2705
111540033	F		AST-2-84W	-84	A	API/A	6687	2705
111540018	F		AST-2-96E	96	A	API/A	6702	2705
111540032	F		AST-2-96W	-96	A	API/A	6686	2705
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
109520081	F		ATHENA-FIDUS-23.7E	23.7	C	CR/C	2395	2665

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108520320	F		ATHENA-FIDUS-25E	25	C	CR/C	2362	2659
109520082	F		ATHENA-FIDUS-31E	31	C	CR/C	2396	2665
109520083	F		ATHENA-FIDUS-38E	38	C	CR/C	2397	2665
109520084	F		ATHENA-FIDUS-49E	49	C	CR/C	2398	2665
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
111540695	F		BASAT E000	0	A	API/A	7127	2706
111540696	F		BASAT E006	6	A	API/A	7128	2706
111540697	F		BASAT E012	12	A	API/A	7129	2706
111540698	F		BASAT E018	18	A	API/A	7130	2706
111540699	F		BASAT E024	24	A	API/A	7131	2706
111540700	F		BASAT E030	30	A	API/A	7132	2706
111540701	F		BASAT E036	36	A	API/A	7133	2706
111540702	F		BASAT E042	42	A	API/A	7134	2706
111540703	F		BASAT E048	48	A	API/A	7135	2706
111540704	F		BASAT E054	54	A	API/A	7136	2706
111540705	F		BASAT E060	60	A	API/A	7137	2706
111540706	F		BASAT E066	66	A	API/A	7138	2706
111540707	F		BASAT E072	72	A	API/A	7139	2706
111540708	F		BASAT E078	78	A	API/A	7140	2706
111540709	F		BASAT E084	84	A	API/A	7141	2706
111540710	F		BASAT E090	90	A	API/A	7142	2706
111540711	F		BASAT E096	96	A	API/A	7143	2706
111540712	F		BASAT E102	102	A	API/A	7144	2706
111540713	F		BASAT E108	108	A	API/A	7145	2706
111540714	F		BASAT E114	114	A	API/A	7146	2706
111540715	F		BASAT E120	120	A	API/A	7147	2706
111540716	F		BASAT E126	126	A	API/A	7148	2706
111540717	F		BASAT E132	132	A	API/A	7149	2706
111540718	F		BASAT E138	138	A	API/A	7150	2706
111540719	F		BASAT E144	144	A	API/A	7151	2706
111540720	F		BASAT E150	150	A	API/A	7152	2706
111540721	F		BASAT E156	156	A	API/A	7153	2706
111540722	F		BASAT E162	162	A	API/A	7154	2706
111540723	F		BASAT E168	168	A	API/A	7155	2706
111540724	F		BASAT E174	174	A	API/A	7156	2706
111540725	F		BASAT E180	180	A	API/A	7157	2706
111540694	F		BASAT W006	-6	A	API/A	7126	2706
111540693	F		BASAT W012	-12	A	API/A	7125	2706
111540692	F		BASAT W018	-18	A	API/A	7124	2706
111540691	F		BASAT W024	-24	A	API/A	7123	2706
111540690	F		BASAT W030	-30	A	API/A	7122	2706
111540689	F		BASAT W036	-36	A	API/A	7121	2706
111540688	F		BASAT W042	-42	A	API/A	7120	2706
111540687	F		BASAT W048	-48	A	API/A	7119	2706
111540686	F		BASAT W054	-54	A	API/A	7118	2706
111540685	F		BASAT W060	-60	A	API/A	7117	2706
111540684	F		BASAT W066	-66	A	API/A	7116	2706

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111540683	F		BASAT W072	-72	A	API/A	7115	2706
111540682	F		BASAT W078	-78	A	API/A	7114	2706
111540681	F		BASAT W084	-84	A	API/A	7113	2706
111540680	F		BASAT W090	-90	A	API/A	7112	2706
111540679	F		BASAT W096	-96	A	API/A	7111	2706
111540678	F		BASAT W102	-102	A	API/A	7110	2706
111540677	F		BASAT W108	-108	A	API/A	7109	2706
111540676	F		BASAT W114	-114	A	API/A	7108	2706
111540675	F		BASAT W120	-120	A	API/A	7107	2706
111540674	F		BASAT W126	-126	A	API/A	7106	2706
111540673	F		BASAT W132	-132	A	API/A	7105	2706
111540672	F		BASAT W138	-138	A	API/A	7104	2706
111540671	F		BASAT W144	-144	A	API/A	7103	2706
111540670	F		BASAT W150	-150	A	API/A	7102	2706
111540669	F		BASAT W156	-156	A	API/A	7101	2706
111540668	F		BASAT W162	-162	A	API/A	7100	2706
111540667	F		BASAT W168	-168	A	API/A	7099	2706
111540666	F		BASAT W174	-174	A	API/A	7098	2706
109520090	F		CP 125.2E	125.2	C	CR/C	2402	2667
109520053	F		CP 60.75E	60.75	C	CR/C	2385	2665
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
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
109520269	F		DUNIA-2	8	C	CR/C	2497	2684
109540897	F		DUNIA-3	11	A	API/A	5957	2660
111540150	F		EDRS-1	9	A	API/A	6774	2694
111540584	F		EDRS-10	-39	A	API/A	7068	2705
111540151	F		EDRS-2	3	A	API/A	6775	2702
111540152	F		EDRS-3	-5	A	API/A	6776	2702
111540578	F		EDRS-4	-15	A	API/A	7062	2705
111540579	F		EDRS-5	-19	A	API/A	7063	2705
111540580	F		EDRS-6	-23	A	API/A	7064	2705
111540581	F		EDRS-7	-27	A	API/A	7065	2705
111540582	F		EDRS-8	-31	A	API/A	7066	2705
111540583	F		EDRS-9	-35	A	API/A	7067	2705
105520316	F		EUROSAT-15E	15	C	CR/C	1702	2617
111540571	F		F-MILSATCOM-25E	25	A	API/A	7059	2705
111540570	F		F-MILSATCOM-3E	3	A	API/A	7058	2705
111540572	F		F-MILSATCOM-47E	47	A	API/A	7060	2705
111540573	F		F-MILSATCOM-49E	49	A	API/A	7061	2705
111540568	F		F-MILSATCOM-5W	-5	A	API/A	7056	2705
111540569	F		F-MILSATCOM-8W	-8	A	API/A	7057	2705
109520017	F		F-SAT-B1-E-3E	3	C	CR/C	2370	2643
107520264	F		F-SAT-B1-E-9E	9	C	CR/C	2112	2616
110500280	F		F-SAT-C-E-10E	10	N	PART	2	2697

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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
110520069	F		F-SAT-E-133.5E	133.5	C	CR/C	2579	2691
110520070	F		F-SAT-E-137E	137	C	CR/C	2580	2691
110520071	F		F-SAT-E-155.9E	155.9	C	CR/C	2581	2691
110520073	F		F-SAT-E-163.5E	163.5	C	CR/C	2582	2691
110520072	F		F-SAT-E-164.1E	164.1	C	CR/C	2583	2691
110520074	F		F-SAT-E-170.5E	170.5	C	CR/C	2584	2691
110520068	F		F-SAT-E-58.45E	58.45	C	CR/C	2578	2691
110520153	F		F-SAT-E-DRS-3E	3	C	CR/C	2663	2678
110520154	F		F-SAT-E-DRS-9E	9	C	CR/C	2664	2678
107520051	F		F-SAT-KA-E-1.6E	1.6	C	CR/C	1999	2618
110500034	F		F-SAT-KA-E-13E	13	N	PART	2	2704
109520212	F		F-SAT-KA-E-3E	3	C	CR/C	2454	2677
109520056	F		F-SAT-KA-E-76E	76	C	CR/C	2387	2665
111500056	F		F-SAT-KA-E-7E	7	N	PART	2	2704
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	2677
108520288	F		F-SAT-K-E-11W	-11	C	CR/C	2331	2657
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
110520468	F		F-SAT-KM-33E	33	C	CR/C	2792	2703
110520467	F		F-SAT-KM-9E	9	C	CR/C	2791	2703
111500029	F		F-SAT-KU2-E-10E	10	N	PART	2	2701
111500030	F		F-SAT-KU2-E-12.5W	-12.5	N	PART	2	2701
111500031	F		F-SAT-KU2-E-13E	13	N	PART	2	2702
111500032	F		F-SAT-KU2-E-16E	16	N	PART	2	2701
111500027	F		F-SAT-KU2-E-4E	4	N	PART	2	2701
111500028	F		F-SAT-KU2-E-7E	7	N	PART	2	2701
111500055	F		F-SAT-KU3-E-25.5E	25.5	N	PART	2	2704
111500054	F		F-SAT-KU3-E-33E	33	N	PART	2	2705
111500074	F		F-SAT-KU3-E-36E	36	N	PART	2	2705
111500033	F		F-SAT-KU3-E-70.5E	70.5	N	PART	2	2702
111500025	F		F-SAT-KU3-E-76E	76	N	PART	2	2701
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	2668
111500026	F		F-SAT-KU-E-76E	76	N	PART	2	2701
107520096	F		F-SAT-KU-E-7W	-7	C	CR/C	2018	2621
107500250	F		F-SAT-KU-E-8W	-8	N	PART	2	2670
111520077	F		F-SAT-N-11.5E	11.5	C	CR/C	2843	2709
111520086	F		F-SAT-N1-1.6E	1.6	C	CR/C	2858	2698
111520091	F		F-SAT-N1-10E	10	C	CR/C	2863	2698
111520105	F		F-SAT-N1-11W	-11	C	CR/C	2877	2699
111520100	F		F-SAT-N1-12.5W	-12.5	C	CR/C	2872	2698
111520118	F		F-SAT-N1-133.5E	133.5	C	CR/C	2891	2699
111520134	F		F-SAT-N1-137E	137	C	CR/C	2908	2701

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111520092	F		F-SAT-N1-13E	13	C	CR/C	2864	2698
111520133	F		F-SAT-N1-14.8W	-14.8	C	CR/C	2907	2701
111520135	F		F-SAT-N1-155.9E	155.9	C	CR/C	2909	2701
111520136	F		F-SAT-N1-163.5E	163.5	C	CR/C	2910	2701
111520137	F		F-SAT-N1-164.1E	164.1	C	CR/C	2911	2701
111520138	F		F-SAT-N1-169E	169	C	CR/C	2912	2701
111520093	F		F-SAT-N1-16E	16	C	CR/C	2865	2698
111520139	F		F-SAT-N1-170.5E	170.5	C	CR/C	2913	2701
111520094	F		F-SAT-N1-21.5E	21.5	C	CR/C	2866	2698
111520095	F		F-SAT-N1-25.5E	25.5	C	CR/C	2867	2698
111520104	F		F-SAT-N1-28.5E	28.5	C	CR/C	2878	2699
111520106	F		F-SAT-N1-33E	33	C	CR/C	2879	2699
111520107	F		F-SAT-N1-36E	36	C	CR/C	2880	2699
111520087	F		F-SAT-N1-3E	3	C	CR/C	2859	2698
111520096	F		F-SAT-N1-3W	-3	C	CR/C	2868	2698
111520078	F		F-SAT-N-14.5E	14.5	C	CR/C	2844	2709
111520108	F		F-SAT-N1-40E	40	C	CR/C	2881	2699
111520109	F		F-SAT-N1-48E	48	C	CR/C	2882	2699
111520088	F		F-SAT-N1-4E	4	C	CR/C	2860	2698
111520110	F		F-SAT-N1-58.45E	58.45	C	CR/C	2883	2699
111520097	F		F-SAT-N1-5W	-5	C	CR/C	2869	2698
111520079	F		F-SAT-N-17.5E	17.5	C	CR/C	2852	2698
111520111	F		F-SAT-N1-70.5E	70.5	C	CR/C	2884	2699
111520112	F		F-SAT-N1-73.5E	73.5	C	CR/C	2885	2699
111520113	F		F-SAT-N1-76E	76	C	CR/C	2886	2699
111520089	F		F-SAT-N1-7E	7	C	CR/C	2861	2698
111520098	F		F-SAT-N1-7W	-7	C	CR/C	2870	2698
111520114	F		F-SAT-N1-80.5E	80.5	C	CR/C	2887	2699
111520115	F		F-SAT-N1-83.5E	83.5	C	CR/C	2888	2699
111520116	F		F-SAT-N1-88.5E	88.5	C	CR/C	2889	2699
111520099	F		F-SAT-N1-8W	-8	C	CR/C	2871	2698
111520117	F		F-SAT-N1-96E	96	C	CR/C	2890	2699
111520090	F		F-SAT-N1-9E	9	C	CR/C	2862	2698
111520074	F		F-SAT-N-1E	1	C	CR/C	2845	2709
111520080	F		F-SAT-N-27E	27	C	CR/C	2846	2709
111520081	F		F-SAT-N-34.5E	34.5	C	CR/C	2847	2709
111520082	F		F-SAT-N-37.5E	37.5	C	CR/C	2853	2698
111520075	F		F-SAT-N-5.5E	5.5	C	CR/C	2850	2698
111520072	F		F-SAT-N-6W	-6	C	CR/C	2848	2698
111520076	F		F-SAT-N-8.5E	8.5	C	CR/C	2851	2698
111520073	F		F-SAT-N-9.5W	-9.5	C	CR/C	2849	2698
109520291	F		F-SAT-N-E-10E	10	C	CR/C	2511	2685
109520285	F		F-SAT-N-E-12.5W	-12.5	C	CR/C	2525	2685
110520211	F		F-SAT-N-E-133.5E	133.5	C	CR/C	2682	2680
110520212	F		F-SAT-N-E-137E	137	C	CR/C	2683	2680
109520292	F		F-SAT-N-E-13E	13	C	CR/C	2512	2685
109520284	F		F-SAT-N-E-14.8W	-14.8	C	CR/C	2526	2685
110520213	F		F-SAT-N-E-155.9E	155.9	C	CR/C	2684	2680
110520214	F		F-SAT-N-E-163.5E	163.5	C	CR/C	2685	2680
110520215	F		F-SAT-N-E-164.1E	164.1	C	CR/C	2686	2680

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110520216	F		F-SAT-N-E-169E	169	C	CR/C	2687	2700
109520293	F		F-SAT-N-E-16E	16	C	CR/C	2513	2685
110520217	F		F-SAT-N-E-170.5E	170.5	C	CR/C	2688	2680
109520294	F		F-SAT-N-E-21.5E	21.5	C	CR/C	2514	2685
109520295	F		F-SAT-N-E-25.5E	25.5	C	CR/C	2515	2685
109520296	F		F-SAT-N-E-28.5E	28.5	C	CR/C	2516	2685
109520297	F		F-SAT-N-E-33E	33	C	CR/C	2517	2685
109520298	F		F-SAT-N-E-36E	36	C	CR/C	2518	2685
109520287	F		F-SAT-N-E-3E	3	C	CR/C	2508	2685
109520299	F		F-SAT-N-E-48E	48	C	CR/C	2519	2685
109520288	F		F-SAT-N-E-4E	4	C	CR/C	2509	2685
110520210	F		F-SAT-N-E-58.45E	58.45	C	CR/C	2681	2680
109520286	F		F-SAT-N-E-5W	-5	C	CR/C	2523	2685
109520300	F		F-SAT-N-E-70.5E	70.5	C	CR/C	2520	2685
109520301	F		F-SAT-N-E-73.5E	73.5	C	CR/C	2521	2685
109520302	F		F-SAT-N-E-76E	76	C	CR/C	2522	2685
109520289	F		F-SAT-N-E-7E	7	C	CR/C	2510	2685
109520290	F		F-SAT-N-E-8W	-8	C	CR/C	2524	2685
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
101520290	F		GEOSAT C 1E	1	C	CR/C	919	2493
110500276	F		GEOSAT-3E	3	N	PART	2	2697
109520275	F		MM 008W	-8	C	CR/C	2506	2684
110520221	F		MM 10.25W	-10.25	C	CR/C	2700	2702
109520243	F		MM 55.2W	-55.2	C	CR/C	2480	2680
110520218	F		MM 74.75W	-74.75	C	CR/C	2689	2701
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
109540581	F		MM2 98.5E	98.5	A	API/A	5801	2654
106520241	F		MUSICAA	21	C	CR/C	1926	2610
105520154	F		NEMO-3	1	C	CR/C	1665	2590
105520155	F		NEMO-6	32	C	CR/C	1666	2590
93540106	F		RADIOSAT-5	-7	A	AR11/A	942	2082
106500331	F		SYRACUSE-31C	-8	N	PART	2	2668
106500332	F		SYRACUSE-31E	-5	N	PART	2	2667
106500333	F		SYRACUSE-31F	3	N	PART	2	2668
106500334	F		SYRACUSE-31H	47	N	PART	2	2668
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

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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
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
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
109500885	F		TELECOM-4C	3	N	PART	2	2682
99543555	F		VIDEOSAT-5	-7	A	API/A	888	2399
101500513	F		VIDEOSAT-6	-8	N	PART	2	2693
107500524	F		VIDEOSAT-6-KA	-8	N	PART	2	2647
100500161	F		VIDEOSAT-7	-5	N	PART	2	2674
107500382	F		VIDEOSAT-7-KA	-5	N	PART	2	2622
107500417	F		VIDEOSAT-8-KU-C	3	N	PART	2	2648
104520193	G		AM-SAT 125W	-125	C	CR/C	1450	2692
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
111520296	G		DFSAT120E	120	C	CR/C	2983	2707
111540284	G		DFSAT15.4W	-15.4	A	API/A	6889	2699
111520025	G		DFSAT44W	-44	C	CR/C	2797	2709
103500150	G		DJCF-1A	39.5	N	PART	2	2612
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
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	2708
108520263	G		ESAT-6	38	C	CR/C	2308	2636
110520353	G		ESAT-7	9	C	CR/C	2750	2687
109500200	G		GIBSAT A1	-105	N	PART	2	2666
110520226	G		GIBSAT-113W	-113	C	CR/C	2705	2702
110520010	G		GIBSAT-125W	-125	C	CR/C	2555	2689
110520011	G		GIBSAT-129W	-129	C	CR/C	2556	2689
111540394	G		GIBSAT-129W-B	-129	A	API/A	6962	2702
110540297	G		GIBSAT-137W	-137	A	API/A	6299	2677
110520015	G		GIBSAT-139W	-139	C	CR/C	2563	2689



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110540022	G		GIBSAT-43W	-43	A	API/A	6021	2665
111540396	G		GIBSAT-47W	-47	A	API/A	6964	2702
110540321	G		GIBSAT-63E	63	A	API/A	6307	2678
110540322	G		GIBSAT-66E	66	A	API/A	6308	2678
111540395	G		GIBSAT-68.5W	-68.5	A	API/A	6963	2702
110540323	G		GIBSAT-72.5W	-72.5	A	API/A	6309	2708
110520007	G		GIBSAT-77W	-77	C	CR/C	2552	2692
105520081	G		GIBSAT-8B	-47	C	CR/C	1590	2702
105520109	G		ICO-G	-93	C	CR/C	1625	2588
92520068	G		INMARSAT GSO-2F	110	C	CR/C	121	2499
106500143	G		INMARSAT GSO-2H	65	N	PART	2	2658
109500253	G		INMARSAT GSO-2J	-54	N	PART	2	2668
108501009	G		INMARSAT GSO-2L	-53	N	PART	2	2686
109500230	G		INMARSAT GSO-2N	64	N	PART	2	2696
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
106500289	G		INMARSAT-2 POR EAST	-142	N	PART	2	2667
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	2669
103500320	G		INMARSAT-3 IOR WEST	25	N	PART	2	2670
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
104520036	G		INMARSAT-4 143.5E	143.5	C	CR/C	1358	2684
110500192	G		INMARSAT-4 25E	25	N	PART	2	2708
110500194	G		INMARSAT-4 98W	-98	N	PART	2	2697
107520300	G		INMARSAT-4A 143.5E	143.5	C	CR/C	2134	2649
110540097	G		INMARSAT-4A 144W	-144	A	API/A	6136	2669
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
110540425	G		INMARSAT-KA 106W	-106	A	API/A	6410	2681
110520017	G		INMARSAT-KA 107W	-107	C	CR/C	2560	2689
110540430	G		INMARSAT-KA 10E	10	A	API/A	6415	2681
110540424	G		INMARSAT-KA 118W	-118	A	API/A	6409	2681
110540436	G		INMARSAT-KA 137E	137	A	API/A	6421	2681
110520021	G		INMARSAT-KA 148E	148	C	CR/C	2561	2689
111520048	G		INMARSAT-KA 151E	151	C	CR/C	2822	2706
110540438	G		INMARSAT-KA 161E	161	A	API/A	6423	2681

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110540423	G		INMARSAT-KA 167W	-167	A	API/A	6408	2681
111520049	G		INMARSAT-KA 171E	171	C	CR/C	2823	2706
111540166	G		INMARSAT-KA 174E	174	A	API/A	6789	2695
111540155	G		INMARSAT-KA 174W	-174	A	API/A	6778	2695
110520016	G		INMARSAT-KA 178W	-178	C	CR/C	2562	2689
111520050	G		INMARSAT-KA 180E	180	C	CR/C	2824	2706
110540431	G		INMARSAT-KA 22E	22	A	API/A	6416	2681
110520018	G		INMARSAT-KA 23E	23	C	CR/C	2557	2689
111520042	G		INMARSAT-KA 35E	35	C	CR/C	2818	2706
110540429	G		INMARSAT-KA 42W	-42	A	API/A	6414	2681
111540158	G		INMARSAT-KA 53W	-53	A	API/A	6781	2695
111540159	G		INMARSAT-KA 54E	54	A	API/A	6782	2695
110520020	G		INMARSAT-KA 55W	-55	C	CR/C	2558	2689
111520043	G		INMARSAT-KA 56.5E	56.5	C	CR/C	2821	2693
111520044	G		INMARSAT-KA 56W	-56	C	CR/C	2825	2706
111540157	G		INMARSAT-KA 59W	-59	A	API/A	6780	2695
111540160	G		INMARSAT-KA 63E	63	A	API/A	6783	2706
111520045	G		INMARSAT-KA 63W	-63	C	CR/C	2826	2706
110520019	G		INMARSAT-KA 64E	64	C	CR/C	2559	2689
111540156	G		INMARSAT-KA 65W	-65	A	API/A	6779	2695
111520046	G		INMARSAT-KA 68.5E	68.5	C	CR/C	2819	2706
111540161	G		INMARSAT-KA 69E	69	A	API/A	6784	2695
111540162	G		INMARSAT-KA 71E	71	A	API/A	6785	2695
111520047	G		INMARSAT-KA 72E	72	C	CR/C	2820	2706
111540163	G		INMARSAT-KA 76.5E	76.5	A	API/A	6786	2708
111540164	G		INMARSAT-KA 86E	86	A	API/A	6787	2695
111520214	G		INMARSAT-KA 87.5E	87.5	C	CR/C	2949	2703
111540165	G		INMARSAT-KA 93E	93	A	API/A	6788	2708
110540426	G		INMARSAT-KA 94W	-94	A	API/A	6411	2681
110520354	G		INMARSAT-KA 97W	-97	C	CR/C	2751	2706
105520320	G		INMARSAT-S1	8.5	C	CR/C	1722	2644
111520083	G		INMARSAT-S1-R	8.5	C	CR/C	2854	2698
107520089	G		INMARSAT-S2	31	C	CR/C	2016	2628
111520084	G		INMARSAT-S2-R	31	C	CR/C	2855	2698
107520090	G		INMARSAT-S3	61.5	C	CR/C	2017	2638
111520085	G		INMARSAT-S3-R	61.5	C	CR/C	2856	2698
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	2664
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
107540344	G		IOMBSN-96.5W	-96.5	A	API/A	4674	2599
108520067	G		IOMBSN-A	-115	C	CR/C	2171	2641
110540296	G		IOMESAT-1	-117	A	API/A	6284	2676
105520107	G		IOMSAT-11A	-115	C	CR/C	1689	2592
107540346	G		IOMSAT-123W	-123	A	API/A	4676	2599
111540392	G		IOMSAT-2A2	-15	A	API/A	6960	2700

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111540393	G		IOMSAT-5A2	-37.55	A	API/A	6961	2700
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
110540140	G		IOMSAT-B12R	-109.2	A	API/A	6157	2669
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
110540095	G		IOMSAT-FSS1	-113	A	API/A	6134	2669
107520097	G		IOMSAT-KA-1	-72.5	C	CR/C	2019	2707
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
107540343	G		IOMSAT-KA-117W	-117	A	API/A	4673	2599
109520018	G		IOMSAT-KA-63W	-63	C	CR/C	2372	2707
107540338	G		IOMSAT-KA-76W	-76	A	API/A	4668	2599
107540339	G		IOMSAT-KA-87W	-87	A	API/A	4669	2599
111520255	G		IOMSAT-S23	-86.9	C	CR/C	2979	2707
111520256	G		IOMSAT-S24	-75	C	CR/C	2980	2707
111520257	G		IOMSAT-S25	-76.8	C	CR/C	2981	2707
111520258	G		IOMSAT-S26	-65	C	CR/C	2982	2707
109520146	G		MSV-42A	42	C	CR/C	2455	2677
109520147	G		MSV-42B	42	C	CR/C	2456	2677
108520176	G		MSV-46A	46	C	CR/C	2262	2648
108520177	G		MSV-46B	46	C	CR/C	2263	2668
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
108501023	G		SKYNET-5A	-34	N	PART	2	2695
109520044	G		SKYNET-5A-KA	-34	C	CR/C	2378	2645
111540103	G		SKYNET-5A-KA2	-34	A	API/A	6755	2693
108501024	G		SKYNET-5B	-1	N	PART	2	2693
109520045	G		SKYNET-5B-KA	-1	C	CR/C	2379	2645
111540104	G		SKYNET-5B-KA2	-1	A	API/A	6756	2693
108501025	G		SKYNET-5C	6	N	PART	2	2693

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109520046	G		SKYNET-5C-KA	6	C	CR/C	2380	2645
111540105	G		SKYNET-5C-KA2	6	A	API/A	6757	2693
108501026	G		SKYNET-5D	53	N	PART	2	2695
109520047	G		SKYNET-5D-KA	53	C	CR/C	2381	2645
111540106	G		SKYNET-5D-KA2	53	A	API/A	6758	2693
105520004	G		SKYNET-5E	-17.8	C	CR/C	1532	2625
111540107	G		SKYNET-5E-KA2	-17.8	A	API/A	6759	2693
108520259	G		SKYNET-5F	35.5	C	CR/C	2304	2652
110520421	G		SKYNET-5G	20.6	C	CR/C	2775	2708
106520130	G		SKYNET-IOR3	89	C	CR/C	1866	2605
106520231	G		TERRESTAR EUR	-15.4	C	CR/C	1917	2617
111500087	G		UKDIGISAT-3	-33.5	N	PART	2	2709
111540585	G		UKDSAT-A1	-60	A	API/A	7069	2705
111540586	G		UKDSAT-A2	-39.5	A	API/A	7070	2705
111540587	G		UKDSAT-B1	37	A	API/A	7071	2705
111540588	G		UKDSAT-B2	45	A	API/A	7072	2705
111540589	G		UKDSAT-C1	67.5	A	API/A	7073	2705
111540590	G		UKDSAT-C2	55.5	A	API/A	7074	2705
111540752	G		UKDSAT-D1	168	A	API/A	7181	2707
111540753	G		UKDSAT-D2	156	A	API/A	7182	2707
111520140	G		UK-KA-1	-70	C	CR/C	2915	2701
110540806	G		UK-KA-2	-81	A	API/A	6511	2686
110540807	G		UK-KA-3	-113	A	API/A	6512	2686
111520234	G		UKMMSAT-A1	-41	C	CR/C	2961	2705
111540198	G		UKMMSAT-A1-TTC-C	-33.5	A	API/A	6809	2696
111520235	G		UKMMSAT-A2	-33.5	C	CR/C	2962	2705
111520236	G		UKMMSAT-B1	31	C	CR/C	2963	2705
110540287	G		UKMMSAT-B1-TTC-C	31	A	API/A	6278	2699
111520237	G		UKMMSAT-B2	39	C	CR/C	2964	2705
111520238	G		UKMMSAT-C1	55	C	CR/C	2965	2705
110540288	G		UKMMSAT-C1-TTC-C	61.5	A	API/A	6279	2699
111520239	G		UKMMSAT-C2	61.5	C	CR/C	2966	2705
111520251	G		UKPAC-1	174	C	CR/C	2978	2706
110500164	G		UKSAT-10	-95	N	PART	2	2696
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
111520035	G		UKSAT-18	-18	C	CR/C	2810	2704
111520036	G		UKSAT-19	-6.8	C	CR/C	2811	2704
110540015	G		UKSAT-20	35.5	A	API/A	6014	2674
111520037	G		UKSAT-21	67	C	CR/C	2812	2704
110540017	G		UKSAT-22	68.9	A	API/A	6016	2674
110540018	G		UKSAT-23	82.5	A	API/A	6017	2674
111520038	G		UKSAT-24	104	C	CR/C	2813	2704
111540071	G		UKSAT-25	-91	A	API/A	6730	2692
111540072	G		UKSAT-26	-77.3	A	API/A	6731	2692
111540073	G		UKSAT-27	-73	A	API/A	6732	2692
103540620	G		UKSAT-7	-99	A	API/A	2891	2505

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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
109541089	GRC		ALEXANDER-SAT-61E	61	A	API/A	6010	2665
102500251	GRC		HELLAS-SAT	39	N	PART	2	2586
108520033	GRC		HELLAS-SAT-2G	39	C	CR/C	2168	2640
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
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	2	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
105520138	HOL		NSS-14A	-133	C	CR/C	1659	2590
106500323	HOL		NSS-16	-22	N	PART	2	2643
106500346	HOL		NSS-18	-40.5	N	PART	2	2669
106500362	HOL		NSS-19	-177	N	PART	2	2667
109500235	HOL		NSS-20	2	N	PART	2	2670

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107500153	HOL		NSS-31	-20	N	PART	2	2673
108500015	HOL		NSS-32	1	N	PART	2	2658
103520005	HOL		NSS-35	-40.5	C	CR/C	1162	2663
109500334	HOL		NSS-36	57	N	PART	2	2699
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
108520269	HOL		NSS-79	50.75	C	CR/C	2316	2653
105500391	HOL		NSS-8	57	N	PART	2	2652
107520142	HOL		NSS-81	98.5	C	CR/C	2039	2623
108520178	HOL		NSS-83A	-67.5	C	CR/C	2264	2648
105500498	HOL		NSS-9	95	N	PART	2	2652
109520124	HOL		NSS-G2-1	-177	C	CR/C	2422	2688
109520125	HOL		NSS-G2-11	-22	C	CR/C	2423	2688
109520126	HOL		NSS-G2-12	-20	C	CR/C	2424	2688
109520340	HOL		NSS-G2-13	1	C	CR/C	2546	2688
109520127	HOL		NSS-G2-15	42.5	C	CR/C	2419	2670
110520075	HOL		NSS-G2-16	50.5	C	CR/C	2585	2691
109520128	HOL		NSS-G2-17	57	C	CR/C	2420	2670
109520129	HOL		NSS-G2-18	95	C	CR/C	2421	2670
109520341	HOL		NSS-G2-19	107.7	C	CR/C	2545	2688
110520151	HOL		NSS-G2-20	142	C	CR/C	2661	2700
109540359	HOL		NSS-G2-21	-47.5	A	API/A	5628	2646
109520230	HOL		NSS-G2-7	-68.7	C	CR/C	2470	2678
109520231	HOL		NSS-G2-8	-58	C	CR/C	2471	2678
110540217	HOL		NSS-G3-1	-177	A	API/A	6218	2675
110540226	HOL		NSS-G3-10	-37.5	A	API/A	6227	2675
110540227	HOL		NSS-G3-11	-22	A	API/A	6228	2675
110540228	HOL		NSS-G3-12	-20	A	API/A	6229	2675
110540229	HOL		NSS-G3-13	1	A	API/A	6230	2675
110540230	HOL		NSS-G3-14	35.5	A	API/A	6231	2675
110540231	HOL		NSS-G3-15	42.5	A	API/A	6232	2675
110540232	HOL		NSS-G3-16	51	A	API/A	6233	2675
110540233	HOL		NSS-G3-17	57	A	API/A	6234	2675
110540234	HOL		NSS-G3-18	60	A	API/A	6235	2675
110540235	HOL		NSS-G3-19	83	A	API/A	6236	2675
110540218	HOL		NSS-G3-2	-155	A	API/A	6219	2675
110540236	HOL		NSS-G3-20	95	A	API/A	6237	2675
110540237	HOL		NSS-G3-21	108.2	A	API/A	6238	2675
110540238	HOL		NSS-G3-22	113.5	A	API/A	6239	2675
110540239	HOL		NSS-G3-23	124	A	API/A	6240	2675
110540240	HOL		NSS-G3-24	130	A	API/A	6241	2675
110540241	HOL		NSS-G3-25	142	A	API/A	6242	2675
110540242	HOL		NSS-G3-26	148	A	API/A	6243	2675
110540486	HOL		NSS-G3-27	155	A	API/A	6432	2682
110540487	HOL		NSS-G3-28	175	A	API/A	6433	2682
110540219	HOL		NSS-G3-3	-148	A	API/A	6220	2675
110540220	HOL		NSS-G3-4	-143	A	API/A	6221	2675
110540221	HOL		NSS-G3-5	-133	A	API/A	6222	2675
110540222	HOL		NSS-G3-6	-68.7	A	API/A	6223	2675

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110540223	HOL		NSS-G3-7	-58	A	API/A	6224	2675
110520464	HOL		NSS-G3-8	-47.5	C	CR/C	2786	2708
110520465	HOL		NSS-G3-9	-40.5	C	CR/C	2787	2708
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
108520277	HOL		OSAT GE	29.6	C	CR/C	2317	2656
108520278	HOL		OSAT GW	-10.2	C	CR/C	2318	2656
110520003	I		INTERACT-KA	9	C	CR/C	2550	2688
110520097	I		NEWSAT-1A	1	C	CR/C	2619	2692
109540055	I		NEWSAT-1B	30.8	A	API/A	5540	2644
111520206	I		NEWSAT-1C-27W	-27	C	CR/C	2940	2703
111520207	I		NEWSAT-1D-41E	41	C	CR/C	2941	2703
111520208	I		NEWSAT-1E-46E	46	C	CR/C	2942	2703
111540742	I		NEWSAT-1F-38W	-38	A	API/A	7173	2706
111540743	I		NEWSAT-1G-48W	-48	A	API/A	7174	2706
102500428	I		SICRAL-2A	16.2	N	PART	2	2621
109500089	I		SICRAL-3A	16.2	N	PART	2	2706
103540010	I		SICRAL-3C	-26.5	A	API/A	2599	2526
103540011	I		SICRAL-3D	-16.5	A	API/A	2600	2526
103540012	I		SICRAL-3E	-10.5	A	API/A	2601	2526
109500335	I		SICRAL-3H	11.8	N	PART	2	2691
108520057	I		SICRAL-4-21.8E	21.8	C	CR/C	2295	2652
107520137	I		SICRAL-4-37E	37	C	CR/C	2040	2623
108520136	IND		ESSELSAT-1	98.5	C	CR/C	2228	2629
90500588	IND		INSAT-1B	74	N	PART	2	0
90500590	IND		INSAT-1C	93.5	N	PART	2	2630
90500583	IND		INSAT-1D	83	N	PART	2	2630
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
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
109500566	IND		INSAT-2E93.5	93.5	N	PART	2	2679
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

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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
110500090	IND		INSAT-EK48	48	N	PART	2	2688
108500669	IND		INSAT-EK48R	48	N	PART	2	2652
110500097	IND		INSAT-EK55	55	N	PART	2	2689
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
109520320	IND		INSAT-G5(55)	55	C	CR/C	2536	2667
109520321	IND		INSAT-G5(74)	74	C	CR/C	2537	2667
109520322	IND		INSAT-G5(82)	82	C	CR/C	2538	2667
109520323	IND		INSAT-G5(93.5)	93.5	C	CR/C	2539	2667
111540544	IND		INSAT-KA104	104	A	API/A	7034	2704
111540545	IND		INSAT-KA107	107	A	API/A	7035	2704
107520154	IND		INSAT-KA111.5	111.5	C	CR/C	2051	2607
111540546	IND		INSAT-KA120	120	A	API/A	7036	2704
107520149	IND		INSAT-KA48	48	C	CR/C	2046	2607
111540540	IND		INSAT-KA51	51	A	API/A	7030	2704
107520150	IND		INSAT-KA55	55	C	CR/C	2047	2607
111540541	IND		INSAT-KA68	68	A	API/A	7031	2704
107520151	IND		INSAT-KA74	74	C	CR/C	2048	2607
111540542	IND		INSAT-KA78	78	A	API/A	7032	2704
108520040	IND		INSAT-KA82	82	C	CR/C	2200	2625
107520152	IND		INSAT-KA83	83	C	CR/C	2049	2607
111540543	IND		INSAT-KA85.5	85.5	A	API/A	7033	2704
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
110500114	IND		INSAT-KU10(111.5)E	111.5	N	PART	2	2693
104520208	IND		INSAT-KU10(55)E	55	C	CR/C	1473	2682
111520059	IND		INSAT-KU11(111.5)E	111.5	C	CR/C	2833	2706
111520055	IND		INSAT-KU11(48)E	48	C	CR/C	2829	2706
109520202	IND		INSAT-KU11(55)E	55	C	CR/C	2450	2658
111520056	IND		INSAT-KU11(74)E	74	C	CR/C	2830	2706
111520057	IND		INSAT-KU11(83)E	83	C	CR/C	2831	2706
111520058	IND		INSAT-KU11(93.5)E	93.5	C	CR/C	2832	2706
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
107520224	IND		INSAT-KU78	78	C	CR/C	2093	2614
107520225	IND		INSAT-KU88	88	C	CR/C	2094	2614
109540439	IND		INSAT-MET48E	48	A	API/A	5686	2649
109540440	IND		INSAT-MET55E	55	A	API/A	5687	2649
110520230	IND		INSAT-MET74E	74	C	CR/C	2706	2683



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110520231	IND		INSAT-MET81.5E	81.5	C	CR/C	2707	2683
110520232	IND		INSAT-MET82E	82	C	CR/C	2708	2683
110520233	IND		INSAT-MET83E	83	C	CR/C	2709	2683
110520234	IND		INSAT-MET93.5E	93.5	C	CR/C	2710	2683
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
108520070	IND		INSAT-NAV(131.5)	131.5	C	CR/C	2204	2674
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
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	2674
108520074	IND		INSAT-NAV-A(83)	83	C	CR/C	2197	2674
111540558	IND		INSAT-NAVR(120.5)	120.5	A	API/A	7046	2705
111540559	IND		INSAT-NAVR(121.5)	121.5	A	API/A	7047	2705
111540560	IND		INSAT-NAVR(123.5)	123.5	A	API/A	7048	2705
111540561	IND		INSAT-NAVR(124.5)	124.5	A	API/A	7049	2705
111540562	IND		INSAT-NAVR(125.5)	125.5	A	API/A	7050	2705
111540563	IND		INSAT-NAVR(126.5)	126.5	A	API/A	7051	2705
111540564	IND		INSAT-NAVR(127.5)	127.5	A	API/A	7052	2705
111540565	IND		INSAT-NAVR(128.5)	128.5	A	API/A	7053	2705
111540566	IND		INSAT-NAVR(129.5)	129.5	A	API/A	7054	2705
111540567	IND		INSAT-NAVR(130.5)	130.5	A	API/A	7055	2705
111540556	IND		INSAT-NAVR(32.5)	32.5	A	API/A	7044	2705
111540557	IND		INSAT-NAVR(83)	83	A	API/A	7045	2705
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
110520002	IND		INSAT-TTC(81.5)E	81.5	C	CR/C	2636	2675
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
111540656	INS		CSM-106	106	A	API/A	7095	2705
111540657	INS		CSM-111	111	A	API/A	7096	2705
111540658	INS		CSM-120	120.5	A	API/A	7097	2705
94520235	INS		GARUDA-1	118	C	AR11/C	2526	2444
105500155	INS		GARUDA-2	123	N	PART	2	2653
99500073	INS		INDOSTAR-1	107.7	N	PART	2	2646
107520011	INS		INDOSTAR-107.7E	107.7	C	CR/C	1940	2662
107520143	INS		INDOSTAR-107.7E-K	107.7	C	CR/C	2043	2606
107520260	INS		INDOSTAR-110E	108.2	C	CR/C	2110	2707
108520042	INS		INDOSTAR-110E-K	108.2	C	CR/C	2283	2700
107520012	INS		INDOSTAR-118E	118	C	CR/C	1941	2662
107520172	INS		INDOSTAR-1A	107.7	C	CR/C	2068	2662

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107520158	INS		PALAPA PAC-3R	144	C	CR/C	2072	2621
109500739	INS		PALAPA PAC-C 146E	146	N	PART	2	2682
108500599	INS		PALAPA PAC-KU 146E	146	N	PART	2	2660
90500037	INS		PALAPA-B1	108	N	PART	2	2709
107500144	INS		PALAPA-B1-EC	108	N	PART	2	2674
90500039	INS		PALAPA-B2	113	N	PART	2	2258
90500001	INS		PALAPA-B3	118	N	PART	2	2674
105520066	INS		PALAPA-B3 TT&C	118	C	CR/C	1678	2565
110500157	INS		PALAPA-B3-EC	118	N	PART	2	2705
102500197	INS		PALAPA-C1	113	N	PART	2	2692
109500631	INS		PALAPA-C1-K	113	N	PART	2	2681
103500163	INS		PALAPA-C2	108	N	PART	2	2648
107500427	INS		PALAPA-C3	118	N	PART	2	2681
109500491	INS		PALAPA-C3-K	118	N	PART	2	2705
106500321	INS		PALAPA-C3-X	118	N	PART	2	2668
106500566	INS		PALAPA-C4	150.5	N	PART	2	2693
109520091	INS		PALAPA-C4-A	150.5	C	CR/C	2403	2649
109520283	INS		PALAPA-C4-K	150.5	C	CR/C	2529	2667
111520005	INS		TELKOM-108E	108	C	CR/C	2839	2708
108520068	INS		TELKOM-3EK	118	C	CR/C	2296	2635
111540643	IRN		IRANSAT-26.5E	26.5	A	API/A	7082	2705
111540644	IRN		IRANSAT-27.2E	27.2	A	API/A	7084	2705
111540645	IRN		IRANSAT-27E	27	A	API/A	7083	2705
111540646	IRN		IRANSAT-34E	34	A	API/A	7085	2705
111540647	IRN		IRANSAT-41.5E	41.5	A	API/A	7086	2705
111540648	IRN		IRANSAT-43.5E	43.5	A	API/A	7087	2705
111540649	IRN		IRANSAT-53.5E	53.5	A	API/A	7088	2705
111540650	IRN		IRANSAT-56E	56	A	API/A	7089	2705
111540651	IRN		IRANSAT-58E	58	A	API/A	7090	2705
111540652	IRN		IRANSAT-61.5E	61.5	A	API/A	7091	2705
111540653	IRN		IRANSAT-61.8E	61.8	A	API/A	7092	2705
111540654	IRN		IRANSAT-81E	81	A	API/A	7093	2705
111540746	IRN		IRNDBS-KA	34	A	API/A	7176	2707
93500332	IRN		ZOHREH-2	26	N	PART	2	2705
99500251	ISR		AMOS 1-B	-4	N	PART	2	2680
110500004	ISR		AMOS 2-B	-4	N	PART	2	2683
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
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
111540325	ISR		AMS-A1-18W	-18	A	API/A	6899	2700
111540327	ISR		AMS-A1-24W	-24	A	API/A	6906	2700
111540326	ISR		AMS-A1-26W	-26	A	API/A	6898	2704
111540328	ISR		AMS-A1-30W	-30	A	API/A	6905	2700
111540329	ISR		AMS-A1-36W	-36	A	API/A	6904	2700
111540330	ISR		AMS-A1-42W	-42	A	API/A	6903	2700

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111540331	ISR		AMS-A1-48W	-48	A	API/A	6902	2700
111540332	ISR		AMS-A1-54W	-54	A	API/A	6901	2700
111540333	ISR		AMS-A1-60W	-60	A	API/A	6900	2700
111540337	ISR		AMS-B1-0E	0	A	API/A	6912	2700
111540336	ISR		AMS-B1-12E	12	A	API/A	6909	2700
111540339	ISR		AMS-B1-12W	-12	A	API/A	6910	2700
111540334	ISR		AMS-B1-4W	-4	A	API/A	6907	2704
111540335	ISR		AMS-B1-6E	6	A	API/A	6908	2700
111540338	ISR		AMS-B1-6W	-6	A	API/A	6911	2700
111540357	ISR		AMS-C1-102E	102	A	API/A	6930	2700
111540358	ISR		AMS-C1-108E	108	A	API/A	6931	2700
111540359	ISR		AMS-C1-114E	114	A	API/A	6932	2700
111540360	ISR		AMS-C1-120E	120	A	API/A	6933	2700
111540340	ISR		AMS-C1-17E	17	A	API/A	6913	2704
111540343	ISR		AMS-C1-18E	18	A	API/A	6916	2700
111540341	ISR		AMS-C1-23E	23	A	API/A	6914	2704
111540345	ISR		AMS-C1-24E	24	A	API/A	6918	2700
111540346	ISR		AMS-C1-30E	30	A	API/A	6919	2700
111540347	ISR		AMS-C1-36E	36	A	API/A	6920	2700
111540348	ISR		AMS-C1-42E	42	A	API/A	6921	2700
111540349	ISR		AMS-C1-48E	48	A	API/A	6922	2700
111540344	ISR		AMS-C1-54E	54	A	API/A	6917	2700
111540350	ISR		AMS-C1-60E	60	A	API/A	6923	2700
111540342	ISR		AMS-C1-65E	65	A	API/A	6915	2704
111540351	ISR		AMS-C1-66E	66	A	API/A	6924	2700
111540352	ISR		AMS-C1-72E	72	A	API/A	6925	2700
111540353	ISR		AMS-C1-78E	78	A	API/A	6926	2700
111540354	ISR		AMS-C1-84E	84	A	API/A	6927	2700
111540355	ISR		AMS-C1-90E	90	A	API/A	6928	2700
111540356	ISR		AMS-C1-96E	96	A	API/A	6929	2700
110540183	ISR		AMS-CK-104E	104	A	API/A	6199	2673
110540184	ISR		AMS-CK-113E	113	A	API/A	6200	2673
110540185	ISR		AMS-CK-120E	120	A	API/A	6201	2673
110540167	ISR		AMS-CK-13W	-13	A	API/A	6183	2671
110520450	ISR		AMS-CK-17E	17	C	CR/C	2782	2708
109520132	ISR		AMS-CK-22.75E	22.75	C	CR/C	2429	2688
111520120	ISR		AMS-CK-23E	23	C	CR/C	2841	2696
111520119	ISR		AMS-CK-26W	-26	C	CR/C	2840	2708
110540170	ISR		AMS-CK-2W	-2	A	API/A	6186	2671
110540175	ISR		AMS-CK-32E	32	A	API/A	6191	2673
110540165	ISR		AMS-CK-33W	-33	A	API/A	6181	2708
107540321	ISR		AMS-CK-36E	36	A	API/A	4680	2599
107540318	ISR		AMS-CK-3W	-3	A	API/A	4677	2599
110540164	ISR		AMS-CK-40W	-40	A	API/A	6180	2671
110540176	ISR		AMS-CK-43E	43	A	API/A	6192	2708
110540163	ISR		AMS-CK-49W	-49	A	API/A	6179	2671
110520366	ISR		AMS-CK-4W	-4	C	CR/C	2761	2707
110540177	ISR		AMS-CK-50E	50	A	API/A	6193	2673
110540162	ISR		AMS-CK-58W	-58	A	API/A	6178	2671
110540171	ISR		AMS-CK-5E	5	A	API/A	6187	2671

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111520121	ISR		AMS-CK-65E	65	C	CR/C	2842	2696
110540179	ISR		AMS-CK-68E	68	A	API/A	6195	2673
107540319	ISR		AMS-CK-6E	6	A	API/A	4678	2599
110540168	ISR		AMS-CK-6W	-6	A	API/A	6184	2671
110540180	ISR		AMS-CK-77E	77	A	API/A	6196	2673
110540181	ISR		AMS-CK-86E	86	A	API/A	6197	2673
110540182	ISR		AMS-CK-95E	95	A	API/A	6198	2673
109520252	ISR		SPARTAN II	-123	C	CR/C	2486	2681
110520053	J		BBISS-2A	143	C	CR/C	2693	2702
110520054	J		BBISS-2C	146	C	CR/C	2694	2702
110520055	J		BBISS-2D	52.5	C	CR/C	2695	2708
110520056	J		BBISS-2E	87	C	CR/C	2696	2708
90500073	J		BS-3	110	N	PART	2	2691
103500094	J		BS-3N	109.85	N	PART	2	2607
100500188	J		BSAT-109.85	109.85	N	PART	2	2696
100500189	J		BSAT-110	110	N	PART	2	2696
105500223	J		DRTS-90.75E	90.75	N	PART	2	2673
107500244	J		D-STAR-1	132	N	PART	2	2684
110500022	J		D-STAR-2	136	N	PART	2	2684
104520333	J		ETS-8	146	C	CR/C	1518	2584
90500464	J		GMS-120E	120	N	PART	2	0
95500020	J		GMS-140E	140	N	PART	2	2356
90500472	J		GMS-160E	160	N	PART	2	0
111540538	J		HIMAWARI-140E	140.7	A	API/A	7028	2704
111540539	J		HIMAWARI-143E	143.3	A	API/A	7029	2704
109520232	J		HIMAWARI-8-140E	140.7	C	CR/C	2484	2664
109520233	J		HIMAWARI-8-143E	143.3	C	CR/C	2485	2664
90500066	J		JCSAT-1	150	N	PART	2	2510
103500133	J		JCSAT-1R	150	N	PART	2	2667
90500242	J		JCSAT-2	154	N	PART	2	2510
103500132	J		JCSAT-2R	154	N	PART	2	2707
103500134	J		JCSAT-3A	128	N	PART	2	2700
103500135	J		JCSAT-3B	124	N	PART	2	2668
109500029	J		JCSAT-FO-124E	124	N	PART	2	2666
108501222	J		JCSAT-FO-128E	128	N	PART	2	2655
109500028	J		JCSAT-FO-132E	132	N	PART	2	2670
108501219	J		JCSAT-FO-136E	136	N	PART	2	2670
105500535	J		JCSAT-FO-150E	150	N	PART	2	2678
109500011	J		JCSAT-FO-154E	154	N	PART	2	2671
110500148	J		JCSAT-T-127.5E	127.5	N	PART	2	2694
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	2689
105500336	J		JMCS-3A	158	N	PART	2	2696
105500227	J		JMCS-3B	162	N	PART	2	2697
106520228	J		JMCS-72E	72	C	CR/C	1914	2609
111540200	J		JMCS-72E-R	72	A	API/A	6811	2697
106520229	J		JMCS-82E	82	C	CR/C	1915	2609
111540201	J		JMCS-82E-R	82	A	API/A	6812	2697
106520230	J		JMCS-93E	93	C	CR/C	1916	2609

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111540202	J		JMCS-93E-R	93	A	API/A	6813	2697
108520005	J		JMCS-A4-X	158	C	CR/C	2152	2638
108520006	J		JMCS-B4-X	162	C	CR/C	2153	2638
108501224	J		JMCS-C2-X	144	N	PART	2	2693
108520007	J		JMCS-D2-X	110	C	CR/C	2154	2638
105500039	J		MTSAT-140E	140	N	PART	2	2694
108501129	J		MTSAT-B-140E	140	N	PART	2	2697
106500136	J		MTSAT-B-145E	145	N	PART	2	2705
107520018	J		MTSAT-C-135E	135	C	CR/C	1945	2631
110500016	J		MTSAT-C-140E	140	N	PART	2	2684
110500017	J		MTSAT-C-145E	145	N	PART	2	2685
110520048	J		NBSAT-21A	110	C	CR/C	2575	2690
110520049	J		NBSAT-21B	109.85	C	CR/C	2576	2690
110520050	J		NBSAT-21C	109.65	C	CR/C	2577	2690
101500489	J		N-SAT-110	110	N	PART	2	2635
108501100	J		N-SAT-110E	110	N	PART	2	2652
107520016	J		N-SAT-120	120	C	CR/C	1984	2700
108520048	J		N-SAT-124E	124	C	CR/C	2229	2645
106500574	J		N-SAT-127W	-127	N	PART	2	2679
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	2693
97500365	J		N-SAT-146	144	N	PART	2	2698
109520032	J		N-SAT-150.5E	150.5	C	CR/C	2443	2674
109520033	J		N-SAT-154E	154	C	CR/C	2444	2674
110540186	J		N-SAT-157E	157	A	API/A	6202	2671
108520043	J		N-SAT-162E	162	C	CR/C	2169	2641
108520175	J		N-SAT2-110E	110	C	CR/C	2361	2659
110520451	J		N-SAT2-120E	120	C	CR/C	2784	2708
109520034	J		N-SAT2-144E	144	C	CR/C	2445	2674
109520035	J		N-SAT2-158E	158	C	CR/C	2446	2674
109520036	J		N-SAT2-162E	162	C	CR/C	2447	2674
107520013	J		N-SAT2-173W	-173	C	CR/C	1944	2616
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
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
109520325	J		N-SAT-A-114.9W	-114.9	C	CR/C	2541	2686
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

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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
109520267	J		N-SAT-A-1E	1	C	CR/C	2491	2684
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
109520265	J		N-SAT-A-28.5E	28.5	C	CR/C	2493	2684
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
109520264	J		N-SAT-A-47.5W	-47.5	C	CR/C	2494	2684
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
109520263	J		N-SAT-A-67.5W	-67.5	C	CR/C	2495	2684
109540328	J		N-SAT-A-75W	-75	A	API/A	5614	2646
109520262	J		N-SAT-A-81W	-81	C	CR/C	2496	2684
109520266	J		N-SAT-A-8W	-8	C	CR/C	2492	2684
109540330	J		N-SAT-A-96W	-96	A	API/A	5616	2646
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	2690
109500425	J		N-STAR-A2	132	N	PART	2	2691
95500571	J		N-STAR-B	136	N	PART	2	2690
105500530	J		N-STAR-B2	136	N	PART	2	2691
110500062	J		N-STAR-E	136	N	PART	2	2692
110500063	J		N-STAR-F	132	N	PART	2	2692
107500049	J		SB-SAT-144	144	N	PART	2	2670
101500530	J		SJC-1	124	N	PART	2	2702
90500373	J		SUPERBIRD-A	158	N	PART	2	2655
104500273	J		SUPERBIRD-A2	158	N	PART	2	2681
104500274	J		SUPERBIRD-A2-KA	158	N	PART	2	2677
106500017	J		SUPERBIRD-A2-R	158	N	PART	2	2703
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
109500623	J		SUPERBIRD-B2-R	162	N	PART	2	2704
103500169	J		SUPERBIRD-C	144	N	PART	2	2607
109500410	J		SUPERBIRD-C2	144	N	PART	2	2708
108501268	J		TAIKI-109.65	109.65	N	PART	2	2709
108501175	J		WINDS-A	143	N	PART	2	2655
110500356	KAZ		KAZSAT1	58.5	N	PART	2	2700
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
111540192	KAZ		KAZSAT1R	58.5	A	API/A	6803	2696
110500357	KAZ		KAZSAT2	86.5	N	PART	2	2699

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107520192	KAZ		KAZSAT2M	86.5	C	CR/C	2075	2630
111540193	KAZ		KAZSAT2R	86.5	A	API/A	6804	2696
107520042	KAZ		KAZSAT3	55	C	CR/C	1948	2615
107520193	KAZ		KAZSAT3M	55	C	CR/C	2076	2630
111540194	KAZ		KAZSAT3R	55	A	API/A	6805	2696
108520312	KAZ		KAZSAT5	49.3	C	CR/C	2353	2673
111540195	KAZ		KAZSAT5R	49.3	A	API/A	6806	2696
108520313	KAZ		KAZSAT7	77.5	C	CR/C	2354	2673
111540196	KAZ		KAZSAT7R	77.5	A	API/A	6807	2696
108520314	KAZ		KAZSAT9	34.3	C	CR/C	2355	2659
110500111	KOR		COMS-116.2E	116.2	N	PART	2	2694
110500112	KOR		COMS-128.2E	128.2	N	PART	2	2694
111540139	KOR		HANSAT-113E	113	A	API/A	6768	2694
111540140	KOR		HANSAT-116E	116	A	API/A	6769	2694
111540141	KOR		HANSAT-128.2E	128.2	A	API/A	6770	2694
111540142	KOR		HANSAT-144E	144	A	API/A	6771	2694
111540143	KOR		HANSAT-158E	158	A	API/A	6772	2694
111540138	KOR		HANSAT-98E	98	A	API/A	6767	2694
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	2689
99500246	KOR		INFOSAT-C	116	N	PART	2	2557
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	2677
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	2661
110540951	KOR		KOREASAT-113K	113	A	API/A	6641	2688
109500906	KOR		KOREASAT-113X	113	N	PART	2	2694
110520358	KOR		KOREASAT-116.0E	116	C	CR/C	2755	2706
110540952	KOR		KOREASAT-116K	116	A	API/A	6642	2688
95500171	KOR		KOREASAT-2	113	N	PART	2	2670
111540425	KOR		KOREASAT-93E	93	A	API/A	6977	2703
110520006	KOR		KOREASAT-97E	97	C	CR/C	2551	2688
110540950	KOR		KOREASAT-97K	97	A	API/A	6640	2688
107500608	KOR		SKDAB-2	144	N	PART	2	2652
108520236	LAO		LAOSAT-128.5E	128.5	C	CR/C	2326	2638
90500682	LUX		GDL-6	19.2	N	PART	2	2686
101500585	LUX		GDL-7	19.2	N	PART	2	2664
107500361	LUX		LUX-24.2E	24.2	N	PART	2	2633
107500150	LUX		LUX-28.2E	28.2	N	PART	2	2633
110500151	LUX		LUX-G3-19.2E	19.2	N	PART	2	2696
110500149	LUX		LUX-G3-2	5	N	PART	2	2696
110500152	LUX		LUX-G3-24.2E	23.5	N	PART	2	2696
103520555	LUX		LUX-G3-28.2E	28.2	C	CR/C	1382	2684
103520559	LUX		LUX-G3-4	31	C	CR/C	1376	2682
106520147	LUX		LUX-G4-24	103	C	CR/C	1879	2607

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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
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
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
108520153	LUX		LUX-G6-2	5	C	CR/C	2237	2650
108520254	LUX		LUX-G6-21	113.5	C	CR/C	2299	2659
109520247	LUX		LUX-G6-2-E	5	C	CR/C	2483	2683
108520154	LUX		LUX-G6-3	8.5	C	CR/C	2238	2650
108520141	LUX		LUX-G6-38	-119	C	CR/C	2248	2648
108520142	LUX		LUX-G6-39	-115	C	CR/C	2249	2648
109520279	LUX		LUX-G6-4	7	C	CR/C	2507	2684
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



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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
108520163	LUX		LUX-G6-51	-40.5	C	CR/C	2259	2665
108520164	LUX		LUX-G6-53	-24	C	CR/C	2260	2648
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
110520106	LUX		LUX-G7-1	2	C	CR/C	2627	2694
110520108	LUX		LUX-G7-10	31	C	CR/C	2722	2703
110520109	LUX		LUX-G7-11	38.5	C	CR/C	2629	2694
110520110	LUX		LUX-G7-12	46	C	CR/C	2630	2694
110520111	LUX		LUX-G7-13	50	C	CR/C	2631	2694
110520112	LUX		LUX-G7-14	55	C	CR/C	2632	2694
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
111520122	LUX		LUX-G7-19	95	C	CR/C	2892	2700
109540590	LUX		LUX-G7-2	5	A	API/A	5807	2656
110520094	LUX		LUX-G7-20	108.2	C	CR/C	2613	2692
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
110520095	LUX		LUX-G7-24	130	C	CR/C	2614	2692
110520096	LUX		LUX-G7-25	148	C	CR/C	2615	2692
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
110520107	LUX		LUX-G7-3	5	C	CR/C	2628	2694
111520123	LUX		LUX-G7-30	-177	C	CR/C	2893	2700
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
110520033	LUX		LUX-G7-38	-123	C	CR/C	2599	2693
110520034	LUX		LUX-G7-38B	-115	C	CR/C	2623	2694
110520035	LUX		LUX-G7-38C	-117	C	CR/C	2651	2696
110520036	LUX		LUX-G7-39	-111.1	C	CR/C	2600	2693
109540592	LUX		LUX-G7-4	13	A	API/A	5809	2656
110520037	LUX		LUX-G7-40	-109.2	C	CR/C	2601	2694
110540782	LUX		LUX-G7-40A	-107.3	A	API/A	6501	2686
110520038	LUX		LUX-G7-40B	-101	C	CR/C	2624	2694
110520039	LUX		LUX-G7-41	-99	C	CR/C	2602	2693

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110520041	LUX		LUX-G7-42B	-91	C	CR/C	2652	2677
110520042	LUX		LUX-G7-43	-87	C	CR/C	2604	2693
110520043	LUX		LUX-G7-43B	-86	C	CR/C	2625	2694
110520044	LUX		LUX-G7-44	-85	C	CR/C	2605	2694
110520045	LUX		LUX-G7-45	-79	C	CR/C	2606	2694
110520046	LUX		LUX-G7-46	-74	C	CR/C	2607	2672
110520047	LUX		LUX-G7-47	-72	C	CR/C	2608	2693
110520220	LUX		LUX-G7-48	-67	C	CR/C	2699	2702
109540637	LUX		LUX-G7-49	-55	A	API/A	5854	2656
110520085	LUX		LUX-G7-5	19.2	C	CR/C	2594	2693
110520258	LUX		LUX-G7-50	-47	C	CR/C	2717	2702
109540639	LUX		LUX-G7-51	-37.2	A	API/A	5856	2656
109540640	LUX		LUX-G7-52	-30	A	API/A	5857	2656
110520113	LUX		LUX-G7-53	-24	C	CR/C	2633	2694
109540642	LUX		LUX-G7-54	-19	A	API/A	5859	2656
110520209	LUX		LUX-G7-55	-7	C	CR/C	2680	2700
110520196	LUX		LUX-G7-56	-4	C	CR/C	2677	2700
110520114	LUX		LUX-G7-57	1	C	CR/C	2634	2694
110520086	LUX		LUX-G7-6	21.5	C	CR/C	2595	2693
110520087	LUX		LUX-G7-7	23.5	C	CR/C	2596	2693
110520088	LUX		LUX-G7-8	28.2	C	CR/C	2597	2693
110520089	LUX		LUX-G7-9	31.5	C	CR/C	2598	2693
110540193	LUX		LUX-G7-9-E	31.5	A	API/A	6207	2673
111540108	LUX		LUX-G7-9-E2	31.5	A	API/A	6760	2693
111540212	LUX		LUX-G8-1	1	A	API/A	6823	2698
111540221	LUX		LUX-G8-10	38.5	A	API/A	6832	2698
111540222	LUX		LUX-G8-11	42	A	API/A	6833	2698
111540223	LUX		LUX-G8-12	45	A	API/A	6834	2698
111540224	LUX		LUX-G8-13	51	A	API/A	6835	2698
111540225	LUX		LUX-G8-14	52.2	A	API/A	6836	2709
111540226	LUX		LUX-G8-15	63	A	API/A	6837	2698
111540227	LUX		LUX-G8-16	69	A	API/A	6838	2698
111540228	LUX		LUX-G8-17	75	A	API/A	6839	2698
111540229	LUX		LUX-G8-18	87	A	API/A	6840	2698
111540230	LUX		LUX-G8-19	99	A	API/A	6841	2698
111540213	LUX		LUX-G8-2	5	A	API/A	6824	2698
111540231	LUX		LUX-G8-20	108.2	A	API/A	6842	2698
111540232	LUX		LUX-G8-21	114	A	API/A	6843	2698
111540233	LUX		LUX-G8-22	120	A	API/A	6844	2698
111540234	LUX		LUX-G8-23	126	A	API/A	6845	2698
111540235	LUX		LUX-G8-24	132	A	API/A	6846	2698
111540236	LUX		LUX-G8-25	150	A	API/A	6847	2698
111540237	LUX		LUX-G8-26	156	A	API/A	6848	2698
111540238	LUX		LUX-G8-27	162	A	API/A	6849	2698
111540239	LUX		LUX-G8-28	168	A	API/A	6850	2698
111540240	LUX		LUX-G8-29	174	A	API/A	6851	2698
111540214	LUX		LUX-G8-3	9	A	API/A	6825	2698
111540241	LUX		LUX-G8-30	-178	A	API/A	6852	2698
111540242	LUX		LUX-G8-31	-172	A	API/A	6853	2698

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111540244	LUX		LUX-G8-33	-160	A	API/A	6855	2698
111540245	LUX		LUX-G8-34	-154	A	API/A	6856	2698
111540246	LUX		LUX-G8-35	-147.6	A	API/A	6857	2698
111540247	LUX		LUX-G8-36	-139	A	API/A	6858	2698
111540248	LUX		LUX-G8-37	-131	A	API/A	6859	2698
111540249	LUX		LUX-G8-38	-123	A	API/A	6860	2698
111540250	LUX		LUX-G8-39	-116.8	A	API/A	6861	2707
111540215	LUX		LUX-G8-4	13	A	API/A	6826	2698
111540251	LUX		LUX-G8-40	-109.2	A	API/A	6862	2698
111540252	LUX		LUX-G8-41	-103	A	API/A	6863	2698
111540253	LUX		LUX-G8-42	-95	A	API/A	6864	2698
111540254	LUX		LUX-G8-43	-87	A	API/A	6865	2698
111540255	LUX		LUX-G8-44	-83	A	API/A	6866	2698
111540256	LUX		LUX-G8-45	-79	A	API/A	6867	2698
111540257	LUX		LUX-G8-46	-72	A	API/A	6868	2698
111540258	LUX		LUX-G8-47	-67	A	API/A	6869	2698
111540259	LUX		LUX-G8-48	-61.9	A	API/A	6870	2698
111540260	LUX		LUX-G8-49	-55	A	API/A	6871	2698
111540216	LUX		LUX-G8-5	19.2	A	API/A	6827	2698
111540261	LUX		LUX-G8-50	-49	A	API/A	6872	2698
111540262	LUX		LUX-G8-51	-37.2	A	API/A	6873	2698
111540263	LUX		LUX-G8-52	-30	A	API/A	6874	2698
111540264	LUX		LUX-G8-53	-25	A	API/A	6875	2698
111540265	LUX		LUX-G8-54	-19	A	API/A	6876	2698
111540266	LUX		LUX-G8-55	-13	A	API/A	6877	2698
111540267	LUX		LUX-G8-56	-7	A	API/A	6878	2698
111540268	LUX		LUX-G8-57	-3	A	API/A	6879	2698
111540217	LUX		LUX-G8-6	23.5	A	API/A	6828	2698
111540218	LUX		LUX-G8-7	28.2	A	API/A	6829	2698
111540219	LUX		LUX-G8-8	31	A	API/A	6830	2709
111540220	LUX		LUX-G8-9	31.5	A	API/A	6831	2709
104500543	LUX		LUX-KA-19E	19	N	PART	2	2635
110520122	MAU		REDSAT-1A	24	C	CR/C	2645	2676
110540199	MAU		REDSAT-1A KA	24	A	API/A	6213	2674
109540766	MAU		REDSAT-2A	79	A	API/A	5911	2659
111520062	MAU		REDSAT-3A	51.5	C	CR/C	2857	2698
110540941	MCO		MONASAT-14.7W	-14.7	A	API/A	6636	2688
110540942	MCO		MONASAT-17.5W	-17.5	A	API/A	6637	2688
105520375	MCO		MONASAT-2E	2	C	CR/C	1756	2598
110540161	MCO		MONASAT-2EA	2	A	API/A	6177	2671
105520376	MCO		MONASAT-52E	52	C	CR/C	1757	2598
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
108520272	MEX		MEXSAT 116.8 KU EXT	-116.8	C	CR/C	2315	2637
110520118	MEX		MEXSAT113 L-CEXT-X	-113	C	CR/C	2635	2695
110500271	MEX		MEXSAT-114.9 C-KU	-114.9	N	PART	2	2700
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	2681
111520029	MEX		MEXSAT116.8 L-CEXT-X	-116.8	C	CR/C	2798	2709

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90501083	MEX		MORELOS 1	-113.5	N	PART	2	0
90501085	MEX		MORELOS 2	-116.8	N	PART	2	2576
109500842	MEX		SATMEX 6	-109.2	N	PART	2	2701
109500836	MEX		SATMEX 7	-113	N	PART	2	2683
104520213	MEX		SATMEX 8	-116.8	C	CR/C	1464	2594
101500479	MEX		SOLIDARIDAD 1M	-109.2	N	PART	2	2682
99500013	MEX		SOLIDARIDAD 1MA	-109.2	N	PART	2	2682
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	2682
97500441	MEX		SOLIDARIDAD-2	-113	N	PART	2	2617
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	2707
110520332	MLA		MEASAT-1A	91.5	C	CR/C	2737	2705
104520321	MLA		MEASAT-1R	91.5	C	CR/C	1519	2659
95500106	MLA		MEASAT-2	148	N	PART	2	2707
109520245	MLA		MEASAT-2A	148	C	CR/C	2479	2680
104520323	MLA		MEASAT-2R	148	C	CR/C	1525	2659
92540002	MLA		MEASAT-3	95	A	API/A	35	2551
110520335	MLA		MEASAT-3A	97	C	CR/C	2743	2705
107500633	MLA		MEASAT-46E	46	N	PART	2	2690
107520058	MLA		MEASAT-46E-R	46	C	CR/C	2012	2659
110540155	MLA		MEASAT-4A	72	A	API/A	6171	2671
110520340	MLA		MEASAT-4B	79.5	C	CR/C	2747	2706
111500049	MLA		MEASAT-5.7E	5.7	N	PART	2	2705
109520246	MLA		MEASAT-5.7E-R	5.7	C	CR/C	2482	2680
111520008	MLA		MEASAT-78.5E-B	78.5	C	CR/C	2873	2699
110520337	MLA		MEASAT-87E-A	87	C	CR/C	2745	2705
107500241	MLA		MEASAT-91.5E	91.5	N	PART	2	2626
104500467	MLA		MEASAT-AK 91.5	91.5	N	PART	2	2693
105500148	MLA		MEASAT-IC 91.5	91.5	N	PART	2	2693
94540173	MLA		MEASAT-IK 91.5E	91.5	A	API/A	575	2435
110520352	MLA		MEASAT-LA1A	-95.5	C	CR/C	2742	2705
110520333	MLA		MEASAT-ROUTE-1B	114.5	C	CR/C	2738	2705
110520338	MLA		MEASAT-ROUTE-2C	32.5	C	CR/C	2746	2705
110520339	MLA		MEASAT-ROUTE-3B	-75.5	C	CR/C	2741	2705
110520336	MLA		MEASAT-ROUTE-4B	-97.2	C	CR/C	2744	2705
110520341	MLA		MEASAT-ROUTE-5B	-41.2	C	CR/C	2748	2706
104500002	MLA		MEASAT-SA1	5.7	N	PART	2	2657
111540323	MLA		MEASAT-SA1A	5	A	API/A	6934	2708
94540007	MLA		MEASAT-SA2	9	A	API/A	604	2551
94540008	MLA		MEASAT-SA3	37	A	API/A	605	2551
110520342	MLA		MEASAT-SA3B	23	C	CR/C	2749	2706
94540009	MLA		MEASAT-SA4	46	A	API/A	606	2551
110520334	MLA		MEASAT-SA4A	46	C	CR/C	2739	2705
109520079	NIG		NIGCOMSAT-1A	-19.2	C	CR/C	2399	2667
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	2688

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102500350	NOR		BIFROST	-0.8	N	PART	2	2630
111520065	NOR		BIFROST-0.8W-2010	-0.8	C	CR/C	2838	2708
110520155	NOR		BIFROST-0.8W-2010-KA	-0.8	C	CR/C	2662	2700
110540260	NOR		BIFROST-11E-2010	11	A	API/A	6246	2676
110540258	NOR		BIFROST-11W-2010	-11	A	API/A	6244	2676
109540302	NOR		BIFROST-12.5W-2009	-12.5	A	API/A	5592	2647
109540304	NOR		BIFROST-24.5E-2009	24.5	A	API/A	5594	2647
109520237	NOR		BIFROST-2E-FSS-2009	2	C	CR/C	2477	2701
109540305	NOR		BIFROST-40E-2009	40	A	API/A	5595	2647
109520236	NOR		BIFROST-4W-FSS-2009	-4	C	CR/C	2478	2701
109540306	NOR		BIFROST-51E-2009	51	A	API/A	5596	2647
110520241	NOR		DUB DUB 1	46	C	CR/C	2714	2702
110520242	NOR		DUB DUB 2	50.2	C	CR/C	2715	2702
108540483	NOR		DUB DUB 3	53.2	A	API/A	5318	2644
111540199	NOR		DUB DUB-3-28.8W	-28.8	A	API/A	6810	2697
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
111540363	NOR		SE-KA-168W	-168	A	API/A	6938	2700
111540382	NOR		SE-KA-172E	172	A	API/A	6957	2700
111540362	NOR		SE-KA-173W	-173	A	API/A	6937	2700
111540383	NOR		SE-KA-176E	176	A	API/A	6958	2700
111540361	NOR		SE-KA-176W	-176	A	API/A	6936	2700
111540384	NOR		SE-KA-180E	180	A	API/A	6959	2700
111540369	NOR		SE-KA-50W	-50	A	API/A	6944	2700
111540370	NOR		SE-KA-53E	53	A	API/A	6945	2700
111540368	NOR		SE-KA-53W	-53	A	API/A	6943	2700
111540367	NOR		SE-KA-56W	-56	A	API/A	6942	2700
111540371	NOR		SE-KA-57E	57	A	API/A	6946	2700
111540372	NOR		SE-KA-59E	59	A	API/A	6947	2700
111540366	NOR		SE-KA-59W	-59	A	API/A	6941	2700
111540373	NOR		SE-KA-61E	61	A	API/A	6948	2700
111540365	NOR		SE-KA-62W	-62	A	API/A	6940	2700
111540374	NOR		SE-KA-63E	63	A	API/A	6949	2700
111540375	NOR		SE-KA-65E	65	A	API/A	6950	2700
111540364	NOR		SE-KA-65W	-65	A	API/A	6939	2700
111540376	NOR		SE-KA-67E	67	A	API/A	6951	2700
111540377	NOR		SE-KA-71E	71	A	API/A	6952	2700
111540378	NOR		SE-KA-79E	79	A	API/A	6953	2700
111540379	NOR		SE-KA-83E	83	A	API/A	6954	2700
111540380	NOR		SE-KA-87E	87	A	API/A	6955	2700
111540381	NOR		SE-KA-91E	91	A	API/A	6956	2700
108520129	NRU		SWANSAT-1A	-100	C	CR/C	2220	2646
110540285	NRU		SWANSAT-1A2	-100	A	API/A	6276	2676
109520020	NRU		SWANSAT-2A	30	C	CR/C	2371	2660
110520357	NRU		SWANSAT-3A2	150	C	CR/C	2754	2706
107540137	NZL		NZLSAT-1R	158	A	API/A	4602	2595
108520311	NZL		NZLSAT-2R	158	C	CR/C	2349	2641
102540308	NZL		NZLSAT-3	158	A	API/A	2419	2602
107540138	NZL		NZLSAT-3R	158	A	API/A	4603	2655

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107540139	NZL		NZLSAT-4R	158	A	API/A	4604	2595
110540405	OMA		OMANSAT-1	17.2	A	API/A	6388	2680
110540406	OMA		OMANSAT-2	43	A	API/A	6389	2680
110540407	OMA		OMANSAT-3	58.5	A	API/A	6390	2680
110540408	OMA		OMANSAT-4	80	A	API/A	6391	2680
110540409	OMA		OMANSAT-5	104	A	API/A	6392	2680
106500372	PAK		PAKSAT-1	38	N	PART	2	2660
110500363	PAK		PAKSAT-1R	38	N	PART	2	2709
109520006	PAK		PAKSAT-1R1	38	C	CR/C	2369	2706
93540117	PAK		PAKSAT-2	41	A	API/A	654	2641
109520274	PAK		PAKSAT-2R1	41	C	CR/C	2502	2684
110520119	PNG		AFRISAT-3W	-3	C	CR/C	2679	2709
111520063	PNG		BLUE1	-95	C	CR/C	2945	2703
110540214	PNG		KUMUL-1	161	A	API/A	6217	2674
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
105520299	PNG		NEW DAWN 2	-89	C	CR/C	1693	2566
109520052	PNG		NEW DAWN 20	50.75	C	CR/C	2384	2665
110520133	PNG		NEW DAWN 21	60	C	CR/C	2653	2707
110520125	PNG		NEW DAWN 22	62	C	CR/C	2641	2707
110520126	PNG		NEW DAWN 23	64	C	CR/C	2642	2707
110520127	PNG		NEW DAWN 24	66	C	CR/C	2643	2702
110520355	PNG		NEW DAWN 25	-50	C	CR/C	2752	2706
110520356	PNG		NEW DAWN 26	-55.5	C	CR/C	2753	2706
111520064	PNG		NEW DAWN 27	68.5	C	CR/C	2894	2700
111520154	PNG		NEW DAWN 28	72	C	CR/C	2917	2701
111520155	PNG		NEW DAWN 29	-45	C	CR/C	2918	2701
105520300	PNG		NEW DAWN 3	-93	C	CR/C	1694	2566
111520156	PNG		NEW DAWN 30	-53	C	CR/C	2919	2701
111520157	PNG		NEW DAWN 31	-58	C	CR/C	2920	2701
111520158	PNG		NEW DAWN 32	-43	C	CR/C	2921	2701
111520159	PNG		NEW DAWN 33	33	C	CR/C	2922	2701
111520160	PNG		NEW DAWN 34	85	C	CR/C	2923	2701
111520215	PNG		NEW DAWN 35	-50	C	CR/C	2946	2703
111520216	PNG		NEW DAWN 36	-55.5	C	CR/C	2947	2703
111520295	PNG		NEW DAWN 37	-99	C	CR/C	2984	2707
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

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109520227	PNG		PACIFISAT C/KU-1	156	C	CR/C	2499	2684
109520228	PNG		PACIFISAT C/KU-2	159	C	CR/C	2500	2684
110520260	PNG		PACIFISAT C/KU-3	176.1	C	CR/C	2734	2707
110520261	PNG		PACIFISAT C/KU-4	146.1	C	CR/C	2735	2695
110520262	PNG		PACIFISAT C/KU-5	148.1	C	CR/C	2736	2695
111540426	PNG		PACIFISAT KA-75E	75	A	API/A	6982	2703
109520145	PNG		PACIFISAT-1	75	C	CR/C	2440	2678
111540548	PNG		PACIFISAT-10	150.5	A	API/A	7038	2705
109520239	PNG		PACIFISAT-2	70	C	CR/C	2475	2663
109520240	PNG		PACIFISAT-3	67	C	CR/C	2476	2663
110520058	PNG		PACIFISAT-4	59	C	CR/C	2647	2677
110520059	PNG		PACIFISAT-5	61	C	CR/C	2648	2677
110520060	PNG		PACIFISAT-6	63	C	CR/C	2649	2677
110520057	PNG		PACIFISAT-7	65	C	CR/C	2650	2677
111520061	PNG		PACIFISAT-8	85.3	C	CR/C	2837	2707
111540537	PNG		PACIFISAT-9	116.1	A	API/A	7027	2704
107500102	PNG		PACSTAR-L4	-121	N	PART	2	2680
110520275	PNG		RAGGIANA-1	-59	C	CR/C	2723	2703
111540204	PNG		RAGGIANA-10	88	A	API/A	6815	2703
111520292	PNG		RAGGIANA-11	134	C	CR/C	2992	2709
111520293	PNG		RAGGIANA-12	97.5	C	CR/C	2993	2709
111520294	PNG		RAGGIANA-13	108	C	CR/C	2994	2709
111540730	PNG		RAGGIANA-14	-63	A	API/A	7162	2706
111540731	PNG		RAGGIANA-15	-71	A	API/A	7163	2706
111540732	PNG		RAGGIANA-16	-79	A	API/A	7164	2706
111540733	PNG		RAGGIANA-17	-91	A	API/A	7165	2706
111540734	PNG		RAGGIANA-18	-117	A	API/A	7166	2706
110520276	PNG		RAGGIANA-2	-65	C	CR/C	2724	2703
110520277	PNG		RAGGIANA-3	-75	C	CR/C	2725	2703
110540116	PNG		RAGGIANA-4	-89	A	API/A	6154	2670
110520278	PNG		RAGGIANA-5	-97	C	CR/C	2726	2703
110520279	PNG		RAGGIANA-6	-113	C	CR/C	2727	2703
111520289	PNG		RAGGIANA-7	37	C	CR/C	2991	2709
111540203	PNG		RAGGIANA-8	55	A	API/A	6814	2703
111540168	PNG		RAGGIANA-9	78.5	A	API/A	6791	2695
109540771	QAT		QATARSAT-1	34	A	API/A	5912	2659
111540274	QAT		QATARSAT-10	25.5	A	API/A	6883	2699
111540275	QAT		QATARSAT-11	45	A	API/A	6884	2699
111540276	QAT		QATARSAT-12	91.5	A	API/A	6885	2699
111540277	QAT		QATARSAT-13	100.5	A	API/A	6886	2699
111540278	QAT		QATARSAT-14	105.5	A	API/A	6887	2699
110520281	QAT		QATARSAT-2	41	C	CR/C	2730	2705
110520282	QAT		QATARSAT-3	46	C	CR/C	2731	2705
110520283	QAT		QATARSAT-4	54.5	C	CR/C	2732	2705
110520284	QAT		QATARSAT-5	61	C	CR/C	2733	2705
110520207	QAT		QATARSAT-6	25.5	C	CR/C	2690	2704
111540271	QAT		QATARSAT-7	-7	A	API/A	6880	2699
111540272	QAT		QATARSAT-8	-3	A	API/A	6881	2699
111540273	QAT		QATARSAT-9	21.5	A	API/A	6882	2699
101500190	RUS	IK	INTERBELAR-2	75	N	PART	2	2462

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111540574	RUS	IK	INTERSPUTNIK-111.1W	-111.1	A	API/A	7076	2705
106520002	RUS	IK	INTERSPUTNIK-153.5E2	153.5	C	CR/C	1797	2601
105500238	RUS	IK	INTERSPUTNIK-153.5EQ	153.5	N	PART	2	2673
110520063	RUS	IK	INTERSPUTNIK-16W-2	-16	C	CR/C	2610	2693
110540780	RUS	IK	INTERSPUTNIK-16W-3	-16	A	API/A	6491	2685
111540428	RUS	IK	INTERSPUTNIK-16W-4	-16	A	API/A	6984	2704
103500127	RUS	IK	INTERSPUTNIK-17E	17	N	PART	2	2619
109520131	RUS	IK	INTERSPUTNIK-17E-2	17	C	CR/C	2426	2654
109500232	RUS	IK	INTERSPUTNIK-17E-CK	17	N	PART	2	2701
110540771	RUS	IK	INTERSPUTNIK-18.5E	18.5	A	API/A	6494	2685
111520101	RUS	IK	INTERSPUTNIK-26W	-26	C	CR/C	2874	2699
105520234	RUS	IK	INTERSPUTNIK-27E-CK	27	C	CR/C	1762	2600
110540772	RUS	IK	INTERSPUTNIK-29.5E	29.5	A	API/A	6495	2685
110540778	RUS	IK	INTERSPUTNIK-35W	-35	A	API/A	6489	2685
103500095	RUS	IK	INTERSPUTNIK-3W	-3	N	PART	2	2706
110540779	RUS	IK	INTERSPUTNIK-3W-2	-3	A	API/A	6492	2685
105520237	RUS	IK	INTERSPUTNIK-3W-CK	-3	C	CR/C	1761	2600
105500292	RUS	IK	INTERSPUTNIK-3W-Q	-3	N	PART	2	2706
110540773	RUS	IK	INTERSPUTNIK-41E	41	A	API/A	6496	2685
108520257	RUS	IK	INTERSPUTNIK-47.5W	-47.5	C	CR/C	2309	2681
108520258	RUS	IK	INTERSPUTNIK-50.5E	50.5	C	CR/C	2310	2652
110540774	RUS	IK	INTERSPUTNIK-51.5E	51.5	A	API/A	6497	2685
110520061	RUS	IK	INTERSPUTNIK-52.5W	-52.5	C	CR/C	2611	2693
111520102	RUS	IK	INTERSPUTNIK-62.5E	62.5	C	CR/C	2875	2699
111520103	RUS	IK	INTERSPUTNIK-67.4E	67.4	C	CR/C	2876	2699
105520235	RUS	IK	INTERSPUTNIK-75E-CK	75	C	CR/C	1763	2600
105500291	RUS	IK	INTERSPUTNIK-75E-Q	75	N	PART	2	2675
110520064	RUS	IK	INTERSPUTNIK-78E	78	C	CR/C	2612	2693
111540577	RUS	IK	INTERSPUTNIK-85.2W	-85.2	A	API/A	7079	2705
110540770	RUS	IK	INTERSPUTNIK-8E	8	A	API/A	6493	2685
110520062	RUS	IK	INTERSPUTNIK-9.5W	-9.5	C	CR/C	2609	2693
111540576	RUS	IK	INTERSPUTNIK-94.1W	-94.1	A	API/A	7078	2705
105520293	RUS	IK	INTERSPUTNIK-98.5ECK	98.5	C	CR/C	1764	2600
111540575	RUS	IK	INTERSPUTNIK-99.7W	-99.7	A	API/A	7077	2705
109540748	RUS		AMG-104.5E	104.5	A	API/A	5894	2657
110520362	RUS		AMG-106W	-106	C	CR/C	2760	2707
109540749	RUS		AMG-141E	141	A	API/A	5895	2657
110520365	RUS		AMG-159.5E	159.5	C	CR/C	2759	2707
109540737	RUS		AMG-170W	-170	A	API/A	5883	2657
111520129	RUS		AMG-23E	23	C	CR/C	2896	2700
110520364	RUS		AMG-36W	-36	C	CR/C	2758	2707
111520223	RUS		AMG-3W	-3	C	CR/C	2952	2704
111520130	RUS		AMG-49E	49	C	CR/C	2897	2700
110520363	RUS		AMG-65.5W	-65.5	C	CR/C	2757	2707
111520325	RUS		AMG-76.5E	76.5	C	CR/C	2987	2708
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
90500132	RUS		CSDRN	95	N	PART	2	2686
106520148	RUS		CSDRN-M	95	C	CR/C	1880	2708



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90501087	RUS		CSSRD-2	77	N	PART	2	2686
111540206	RUS		ENSAT-13E	13	A	API/A	6819	2698
111540207	RUS		ENSAT-14.5E	14.5	A	API/A	6820	2698
111540208	RUS		ENSAT-23E	23	A	API/A	6821	2698
111540209	RUS		ENSAT-KA-61E	61	A	API/A	6822	2698
90500133	RUS		ESDRN	-160	N	PART	2	2686
100500089	RUS		EXPRESS-10	140	N	PART	2	2662
106500057	RUS		EXPRESS-10B	140	N	PART	2	2698
109520049	RUS		EXPRESS-10KA	140	C	CR/C	2428	2696
100500090	RUS		EXPRESS-11	145	N	PART	2	2660
97500285	RUS		EXPRESS-2	-14	N	PART	2	2661
106500060	RUS		EXPRESS-2B	-14	N	PART	2	2693
97500286	RUS		EXPRESS-3	-11	N	PART	2	2691
98500178	RUS		EXPRESS-4	40	N	PART	2	2647
106500059	RUS		EXPRESS-4B	40	N	PART	2	2694
98500179	RUS		EXPRESS-5	53	N	PART	2	2658
106500050	RUS		EXPRESS-5B	53	N	PART	2	2695
109520048	RUS		EXPRESS-5KA	53	C	CR/C	2427	2688
97500288	RUS		EXPRESS-6	80	N	PART	2	2658
106500056	RUS		EXPRESS-6B	80	N	PART	2	2699
108520180	RUS		EXPRESS-6KA	80	C	CR/C	2297	2635
100500160	RUS		EXPRESS-7	90	N	PART	2	2693
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	2696
100500229	RUS		EXPRESS-9	103	N	PART	2	2646
106500058	RUS		EXPRESS-9B	103	N	PART	2	2697
109520314	RUS		EXPRESS-B 11W	-11	C	CR/C	2549	2668
109520123	RUS		EXPRESS-B 14.5E	14.5	C	CR/C	2418	2653
94500364	RUS		FOTON-1	-13.5	N	PART	2	2686
92500170	RUS		FOTON-2	80	N	PART	2	2686
94500365	RUS		FOTON-3	-168	N	PART	2	2686
90500382	RUS		GALS-1	-26.5	N	PART	2	2654
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	2682
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
90500393	RUS		GALS-2	45	N	PART	2	2654
90500394	RUS		GALS-3	85	N	PART	2	2654
90500395	RUS		GALS-4	-170	N	PART	2	2654
90500397	RUS		GALS-5	130	N	PART	2	2654
90500399	RUS		GALS-6	35	N	PART	2	2654
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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110520135	RUS		GOMS-14.5W	-14.5	C	CR/C	2721	2703
96500168	RUS		GOMS-1M	-14.5	N	PART	2	2645
95500278	RUS		GOMS-M	76	N	PART	2	2702
100500233	RUS		KUPON-1	55	N	PART	2	2430
110500081	RUS		KUPON-1M	55	N	PART	2	2708
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
101500488	RUS		LOUTCH-10	145	N	PART	2	2554
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
110520134	RUS		MARAFON-M2	90.5	C	CR/C	2654	2696
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	0
90500528	RUS		PROGNOZ-2	12	N	PART	2	0
90500529	RUS		PROGNOZ-3	35	N	PART	2	0
90500530	RUS		PROGNOZ-4	80	N	PART	2	2518
94500349	RUS		PROGNOZ-5	130	N	PART	2	2680
94500350	RUS		PROGNOZ-6	166	N	PART	2	2680
94500351	RUS		PROGNOZ-7	-159	N	PART	2	2680
102500059	RUS		PROGNOZ-8	98	N	PART	2	2535
102500045	RUS		ROSCOM-2	-170	N	PART	2	2673
102500048	RUS		ROSCOM-3	23	N	PART	2	2704
102500047	RUS		ROSCOM-4	49	N	PART	2	2652
111540406	RUS		RSS-VSD-104E	104	A	API/A	6969	2702
111540407	RUS		RSS-VSD-133E	133	A	API/A	6970	2702
111540403	RUS		RSS-VSD-60E	60	A	API/A	6966	2702
111540404	RUS		RSS-VSD-71E	71	A	API/A	6967	2702
111540405	RUS		RSS-VSD-85E	85	A	API/A	6968	2702
99500287	RUS		RST-1	36	N	PART	2	2522
99500288	RUS		RST-2	56	N	PART	2	2522
108501199	RUS		SADKO-1	85.4	N	PART	2	2664
90500475	RUS		STATIONAR-1	80	N	PART	2	0
90500477	RUS		STATIONAR-10	-170	N	PART	2	2654
101500526	RUS		STATIONAR-10A	-170	N	PART	2	2658
90500193	RUS		STATIONAR-14	96.5	N	PART	2	2554
90500216	RUS		STATIONAR-15	128	N	PART	2	2635
90500185	RUS		STATIONAR-16	145	N	PART	2	2569
101500181	RUS		STATIONAR-17	-26.5	N	PART	2	2654
101500182	RUS		STATIONAR-18	8	N	PART	2	2504
101500183	RUS		STATIONAR-19	23	N	PART	2	2504
90500496	RUS		STATIONAR-2	35	N	PART	2	2652
90500256	RUS		STATIONAR-20	70	N	PART	2	2652

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90500220	RUS		STATIONAR-21	103	N	PART	2	2554
90500196	RUS		STATIONAR-22	1	N	PART	2	2656
101500185	RUS		STATIONAR-23	15	N	PART	2	2510
90500199	RUS		STATIONAR-24	49	N	PART	2	2656
91910063	RUS		STATIONAR-27	12	N	PART	2	2654
90500501	RUS		STATIONAR-3	85	N	PART	2	2617
90500482	RUS		STATIONAR-6	90	N	PART	2	2554
90500483	RUS		STATIONAR-7	140	N	PART	2	2554
90500484	RUS		STATIONAR-8	-25	N	PART	2	2654
90500507	RUS		STATIONAR-9	45	N	PART	2	2649
101500527	RUS		STATIONAR-9A	45	N	PART	2	2654
94500244	RUS		STATIONAR-D1	-26.5	N	PART	2	0
94500245	RUS		STATIONAR-D2	-170	N	PART	2	0
94500246	RUS		STATIONAR-D3	35	N	PART	2	0
94500247	RUS		STATIONAR-D4	45	N	PART	2	0
94500248	RUS		STATIONAR-D5	85.4	N	PART	2	0
94500249	RUS		STATIONAR-D6	128	N	PART	2	0
102500030	RUS		STATIONAR-M1	-170	N	PART	2	2673
107500387	RUS		STATIONAR-M11	49	N	PART	2	2653
104500019	RUS		STATIONAR-M2	-3	N	PART	2	2605
90500508	RUS		STATIONAR-T	99	N	PART	2	2597
90500509	RUS		STATIONAR-T2	99	N	PART	2	2597
105500356	RUS		TOR-10M	130	N	PART	2	2664
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	2664
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
90500546	RUS		TOR-3	45	N	PART	2	2655
90500547	RUS		TOR-4	85	N	PART	2	2655
105500445	RUS		TOR-4M	85	N	PART	2	2631
90500548	RUS		TOR-5	-170	N	PART	2	2655
105500446	RUS		TOR-5M	-170	N	PART	2	2631
95500611	RUS		TOR-6	128	N	PART	2	2682
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	2689
101500386	RUS		VOLNA-11	35	N	PART	2	2682
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
90500585	RUS		VOLNA-2	-14	N	PART	2	0

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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
90504199	RUS		VOLNA-3	45	N	PART	2	0
107520034	RUS		VOLNA-3R	-11	C	CR/C	2025	2621
90500586	RUS		VOLNA-4	53	N	PART	2	0
110500067	RUS		VOLNA-4R	40	N	PART	2	2690
90504200	RUS		VOLNA-5	85	N	PART	2	0
107520035	RUS		VOLNA-5R	96.5	C	CR/C	2026	2621
90500587	RUS		VOLNA-6	140	N	PART	2	0
110500012	RUS		VOLNA-6R	145	N	PART	2	2684
90504201	RUS		VOLNA-7	-170	N	PART	2	0
90504202	RUS		VOLNA-8	90	N	PART	2	0
108500738	RUS		VOLNA-8R	80	N	PART	2	2664
101500385	RUS		VOLNA-9	128	N	PART	2	2682
90501088	RUS		VSSRD-2	167	N	PART	2	2686
106520149	RUS		VSSRD-2M	167	C	CR/C	1881	2708
90500134	RUS		WSDRN	-16	N	PART	2	2686
106520150	RUS		WSDRN-M	-16	C	CR/C	1882	2708
108520287	RUS		YAMAL-49E	49	C	CR/C	2342	2672
111520152	RUS		YAMAL-55E	55	C	CR/C	2948	2703
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	2673
106520043	RUS		YAMAL-E5C	163.5	C	CR/C	1839	2580
111520131	RUS		YAMAL-KA1	49	C	CR/C	2943	2703
111520132	RUS		YAMAL-KA2	90	C	CR/C	2944	2703
106500078	RUS		YAMAL-W2	-36	N	PART	2	2679
106500079	RUS		YAMAL-W3	-65.5	N	PART	2	2673
90501090	RUS		ZSSRD-2	-16	N	PART	2	2708
90500541	S	NOT	TELE-X	5	N	PART	2	2662
108520256	S		SIRIUS-13W-4	-13	C	CR/C	2300	2659
109540998	S		SIRIUS-13W-6	-13	A	API/A	5995	2664
104500472	S		SIRIUS-2	4.8	N	PART	2	2659
108501081	S		SIRIUS-3B	5	N	PART	2	2652
104520171	S		SIRIUS-5E	5	C	CR/C	1445	2692
107520044	S		SIRIUS-5E-2	5	C	CR/C	1949	2615
107540740	S		SIRIUS-5E-5	5	A	API/A	4802	2620
109540997	S		SIRIUS-5E-7	5	A	API/A	5994	2664
109500400	S		SIRIUS-P	5	N	PART	2	2669
90540021	SEY		SEYSAT-1	42.5	A	AR11/A	1947	2277
95540019	SEY		SEYSAT-1A	42.5	A	API/A	1176	2555
90540022	SEY		SEYSAT-2	37.5	A	AR11/A	642	2277
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
110500077	SNG		ST-1A-CK	88	N	PART	2	2692
110520129	SNG		ST-2A-CK	88	C	CR/C	2646	2696
110540885	SNG		ST-2D-CK	110	A	API/A	6586	2686

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110540886	SNG		ST-2E-CK	125	A	API/A	6587	2686
110540887	SNG		ST-2F-CK	41	A	API/A	6588	2686
110540888	SNG		ST-2G-CK	53	A	API/A	6589	2686
110540889	SNG		ST-2H-CK	-38	A	API/A	6590	2686
110540890	SNG		ST-2I-CK	-157	A	API/A	6591	2686
100500119	THA		THAICOM-A2	78.5	N	PART	2	2632
106500234	THA		THAICOM-A2B	78.5	N	PART	2	2694
106500007	THA		THAICOM-A2KA	78.5	N	PART	2	2698
101500557	THA		THAICOM-A3	120	N	PART	2	2632
106500350	THA		THAICOM-A3B	120	N	PART	2	2669
105500506	THA		THAICOM-A3KA	120	N	PART	2	2697
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	2683
106500349	THA		THAICOM-C2	126	N	PART	2	2679
109500848	THA		THAICOM-G12A	142	N	PART	2	2701
109500875	THA		THAICOM-G1K	78.5	N	PART	2	2701
109500079	THA		THAICOM-G2K	120	N	PART	2	2698
110500358	THA		THAICOM-G3K	142	N	PART	2	2700
110500005	THA		THAICOM-G8A	78.5	N	PART	2	2701
105500508	THA		THAICOM-G9A	120	N	PART	2	2679
109500219	THA		THAICOM-IP1	119.5	N	PART	2	2693
106520118	THA		THAICOM-LS2	78.5	C	CR/C	1857	2691
106520119	THA		THAICOM-LS3	119.5	C	CR/C	1858	2691
107540213	THA		THAICOM-LSX1	50.5	A	API/A	4635	2598
111540421	THA		THAICOM-LSX1R	50.5	A	API/A	6980	2703
107540214	THA		THAICOM-LSX4	120	A	API/A	4636	2598
111540422	THA		THAICOM-LSX4R	120	A	API/A	6981	2703
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	2688
111540417	THA		THAICOM-P1	50.5	A	API/A	6973	2703
111540418	THA		THAICOM-P2	78.5	A	API/A	6974	2703
111540419	THA		THAICOM-P3	119.5	A	API/A	6975	2703
111540420	THA		THAICOM-P4	120	A	API/A	6976	2703
101500571	TON		TONGASAT AP-2	134	N	PART	2	2692
101500573	TON		TONGASAT AP-3	138	N	PART	2	2692
93500472	TON		TONGASAT C/KU-2	134	N	PART	2	2691
98500226	TON		TONGASAT C/KU-3	138	N	PART	2	2691
105520377	TON		TONGASAT-2/142.5E	142.5	C	CR/C	1760	2574
105500703	TON		TONGASAT-H70	70	N	PART	2	2692
109541086	TUR		TURKSAT-16.5W-N	-16.5	A	API/A	6007	2665
107520293	TUR		TURKSAT-17E-B	17.3	C	CR/C	2141	2649
95500457	TUR		TURKSAT-1A	42	N	PART	2	2639
95500458	TUR		TURKSAT-1B	31	N	PART	2	2690
99500054	TUR		TURKSAT-1C	50	N	PART	2	2639
100500442	TUR		TURKSAT-1D	42	N	PART	2	2639
109541088	TUR		TURKSAT-2.5W-N	-2.5	A	API/A	6009	2665

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109541085	TUR		TURKSAT-20W-N	-20	A	API/A	6006	2665
111540186	TUR		TURKSAT-25E-C	25	A	API/A	6798	2696
111500058	TUR		TURKSAT-2B	31	N	PART	2	2705
105520323	TUR		TURKSAT-31E-A	31	C	CR/C	1703	2634
107520294	TUR		TURKSAT-31E-B	31	C	CR/C	2142	2684
111540187	TUR		TURKSAT-31E-C	31	A	API/A	6799	2696
110520004	TUR		TURKSAT-31E-N	31	C	CR/C	2666	2700
105520324	TUR		TURKSAT-42E-A	42	C	CR/C	1704	2634
107520295	TUR		TURKSAT-42E-B	42	C	CR/C	2143	2667
111540188	TUR		TURKSAT-42E-C	42	A	API/A	6800	2696
110540080	TUR		TURKSAT-42E-N	42	A	API/A	6126	2668
105520325	TUR		TURKSAT-50E-A	50	C	CR/C	1705	2629
107520296	TUR		TURKSAT-50E-B	50	C	CR/C	2144	2684
111540189	TUR		TURKSAT-50E-C	50	A	API/A	6801	2696
110520005	TUR		TURKSAT-50E-N	50	C	CR/C	2667	2700
111540190	TUR		TURKSAT-56E-C	56	A	API/A	6802	2696
110540081	TUR		TURKSAT-73.25E-N	73.25	A	API/A	6127	2668
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
111540185	TUR		TURKSAT-8.5E-C	8.5	A	API/A	6797	2696
110540079	TUR		TURKSAT-8.5E-N	8.5	A	API/A	6125	2668
109541087	TUR		TURKSAT-9.5W-N	-9.5	A	API/A	6008	2665
109500555	TUR		TURKSAT-C50E	50	N	PART	2	2676
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	2690
101500035	TUR		TURKSAT-K2	42	N	PART	2	2639
109500209	TUR		TURKSAT-K3	50	N	PART	2	2669
104500576	TUR		TURKSAT-KX	42	N	PART	2	2639
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	2678
110500260	UAE		EMARSAT-1F/M	44	N	PART	2	2693
108500025	UAE		EMARSAT-1G	52.5	N	PART	2	2703
110500175	UAE		EMARSAT-1L/M	28.75	N	PART	2	2694
105520117	UAE		EMARSAT-4F	44	C	CR/C	1624	2684
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	2688
107520148	UAE		EMARSAT-6O	112.5	C	CR/C	2044	2630
107520145	UAE		EMARSAT-6S	104.5	C	CR/C	2041	2630
109520157	UAE		EMARSAT-7F	44	C	CR/C	2452	2677
109520161	UAE		EMARSAT-7G/M	127	C	CR/C	2451	2677
108520228	UAE		EMARSAT-7S	98.5	C	CR/C	2294	2652
109540856	UAE		EMARSAT-8A	20	A	API/A	5921	2659

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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
110540289	UAE		EMARSAT-8F	44	A	API/A	6280	2676
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
110540290	UAE		EMARSAT-8M	40	A	API/A	6281	2676
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
109540883	UAE		EMARSAT-8X	-78	A	API/A	5948	2659
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
108520092	UAE		YAHSAT-46E	46	C	CR/C	2201	2642
108520093	UAE		YAHSAT-57E	57	C	CR/C	2202	2642
108520066	UAE		YAHSAT-60E	60	C	CR/C	2170	2641
108520094	UAE		YAHSAT-63E	63	C	CR/C	2203	2642
108520230	UAE		YAHSAT-EHF-33E	33	C	CR/C	2287	2646
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
108520235	UAE		YAHSAT-EHF-67.5E	67.5	C	CR/C	2292	2646
109541033	UAE		YAHSAT-G5-0E	0	A	API/A	6056	2667
109541058	UAE		YAHSAT-G5-100E	100	A	API/A	6081	2667
109541017	UAE		YAHSAT-G5-100W	-100	A	API/A	6040	2667
109541059	UAE		YAHSAT-G5-105E	105	A	API/A	6082	2667
109541035	UAE		YAHSAT-G5-10E	10	A	API/A	6058	2667

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109541031	UAE		YAHSAT-G5-10W	-10	A	API/A	6054	2667
109541060	UAE		YAHSAT-G5-110E	110	A	API/A	6083	2667
109541016	UAE		YAHSAT-G5-110W	-110	A	API/A	6039	2667
109541061	UAE		YAHSAT-G5-115E	115	A	API/A	6084	2667
109541062	UAE		YAHSAT-G5-120E	120	A	API/A	6085	2667
109541015	UAE		YAHSAT-G5-120W	-120	A	API/A	6038	2667
109541063	UAE		YAHSAT-G5-125E	125	A	API/A	6086	2667
109541064	UAE		YAHSAT-G5-130E	130	A	API/A	6087	2667
109541014	UAE		YAHSAT-G5-130W	-130	A	API/A	6037	2667
109541065	UAE		YAHSAT-G5-135E	135	A	API/A	6088	2667
109541066	UAE		YAHSAT-G5-140E	140	A	API/A	6089	2667
109541013	UAE		YAHSAT-G5-140W	-140	A	API/A	6036	2667
109541067	UAE		YAHSAT-G5-150E	150	A	API/A	6090	2667
109541012	UAE		YAHSAT-G5-150W	-150	A	API/A	6035	2667
109541036	UAE		YAHSAT-G5-15E	15	A	API/A	6059	2667
109541030	UAE		YAHSAT-G5-15W	-15	A	API/A	6053	2667
109541068	UAE		YAHSAT-G5-160E	160	A	API/A	6091	2667
109541011	UAE		YAHSAT-G5-160W	-160	A	API/A	6034	2667
109541069	UAE		YAHSAT-G5-170E	170	A	API/A	6092	2667
109541010	UAE		YAHSAT-G5-170W	-170	A	API/A	6033	2667
109541070	UAE		YAHSAT-G5-175E	175	A	API/A	6093	2667
109541009	UAE		YAHSAT-G5-175W	-175	A	API/A	6032	2667
109541037	UAE		YAHSAT-G5-20E	20	A	API/A	6060	2667
109541029	UAE		YAHSAT-G5-20W	-20	A	API/A	6052	2667
109541038	UAE		YAHSAT-G5-25E	25	A	API/A	6061	2667
111520023	UAE		YAHSAT-G5-28W	-28	C	CR/C	2793	2709
109541039	UAE		YAHSAT-G5-30E	30	A	API/A	6062	2667
109541027	UAE		YAHSAT-G5-30W	-30	A	API/A	6050	2667
109541040	UAE		YAHSAT-G5-35E	35	A	API/A	6063	2667
109541026	UAE		YAHSAT-G5-35W	-35	A	API/A	6049	2667
109541041	UAE		YAHSAT-G5-40E	40	A	API/A	6064	2667
110520419	UAE		YAHSAT-G5-43W	-43	C	CR/C	2774	2708
109541042	UAE		YAHSAT-G5-45E	45	A	API/A	6065	2667
109541024	UAE		YAHSAT-G5-45W	-45	A	API/A	6047	2667
109541043	UAE		YAHSAT-G5-47E	47	A	API/A	6066	2667
109541044	UAE		YAHSAT-G5-50E	50	A	API/A	6067	2667
109541023	UAE		YAHSAT-G5-50W	-50	A	API/A	6046	2667
109541045	UAE		YAHSAT-G5-52.5E	52.5	A	API/A	6068	2667
109541046	UAE		YAHSAT-G5-55E	55	A	API/A	6069	2667
111520024	UAE		YAHSAT-G5-55W	-55	C	CR/C	2794	2709
109541047	UAE		YAHSAT-G5-57E	57	A	API/A	6070	2667
109541034	UAE		YAHSAT-G5-5E	5	A	API/A	6057	2667
109541032	UAE		YAHSAT-G5-5W	-5	A	API/A	6055	2667
110520361	UAE		YAHSAT-G5-60E	60	C	CR/C	2756	2707
109541021	UAE		YAHSAT-G5-60W	-60	A	API/A	6044	2667
109541049	UAE		YAHSAT-G5-63E	63	A	API/A	6072	2667
110520448	UAE		YAHSAT-G5-66E	66	C	CR/C	2778	2708
109541051	UAE		YAHSAT-G5-67.5E	67.5	A	API/A	6074	2667
109541052	UAE		YAHSAT-G5-70E	70	A	API/A	6075	2667
109541020	UAE		YAHSAT-G5-70W	-70	A	API/A	6043	2667



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109541054	UAE		YAHSAT-G5-80E	80	A	API/A	6077	2667
109541019	UAE		YAHSAT-G5-80W	-80	A	API/A	6042	2667
109541055	UAE		YAHSAT-G5-85E	85	A	API/A	6078	2667
109541056	UAE		YAHSAT-G5-90E	90	A	API/A	6079	2667
109541018	UAE		YAHSAT-G5-90W	-90	A	API/A	6041	2667
109541057	UAE		YAHSAT-G5-95E	95	A	API/A	6080	2667
110540844	UAE		YAHSAT-G6-0E	0	A	API/A	6546	2687
110540869	UAE		YAHSAT-G6-100E	100	A	API/A	6571	2687
110540828	UAE		YAHSAT-G6-100W	-100	A	API/A	6530	2687
110540870	UAE		YAHSAT-G6-105E	105	A	API/A	6572	2687
110540846	UAE		YAHSAT-G6-10E	10	A	API/A	6548	2687
110540842	UAE		YAHSAT-G6-10W	-10	A	API/A	6544	2687
110540871	UAE		YAHSAT-G6-110E	110	A	API/A	6573	2687
110540827	UAE		YAHSAT-G6-110W	-110	A	API/A	6529	2687
110540872	UAE		YAHSAT-G6-115E	115	A	API/A	6574	2687
110540873	UAE		YAHSAT-G6-120E	120	A	API/A	6575	2687
110540826	UAE		YAHSAT-G6-120W	-120	A	API/A	6528	2687
110540874	UAE		YAHSAT-G6-125E	125	A	API/A	6576	2687
110540875	UAE		YAHSAT-G6-130E	130	A	API/A	6577	2687
110540825	UAE		YAHSAT-G6-130W	-130	A	API/A	6527	2687
110540876	UAE		YAHSAT-G6-135E	135	A	API/A	6578	2687
110540877	UAE		YAHSAT-G6-140E	140	A	API/A	6579	2687
110540824	UAE		YAHSAT-G6-140W	-140	A	API/A	6526	2687
110540878	UAE		YAHSAT-G6-150E	150	A	API/A	6580	2687
110540823	UAE		YAHSAT-G6-150W	-150	A	API/A	6525	2687
110540847	UAE		YAHSAT-G6-15E	15	A	API/A	6549	2687
110540879	UAE		YAHSAT-G6-160E	160	A	API/A	6581	2687
110540822	UAE		YAHSAT-G6-160W	-160	A	API/A	6524	2687
110540841	UAE		YAHSAT-G6-17.5W	-17.5	A	API/A	6543	2708
110540880	UAE		YAHSAT-G6-170E	170	A	API/A	6582	2687
110540821	UAE		YAHSAT-G6-170W	-170	A	API/A	6523	2687
110540881	UAE		YAHSAT-G6-175E	175	A	API/A	6583	2687
110540820	UAE		YAHSAT-G6-175W	-175	A	API/A	6522	2687
110540848	UAE		YAHSAT-G6-20E	20	A	API/A	6550	2687
110540840	UAE		YAHSAT-G6-20W	-20	A	API/A	6542	2687
110540849	UAE		YAHSAT-G6-25E	25	A	API/A	6551	2687
110540839	UAE		YAHSAT-G6-25W	-25	A	API/A	6541	2687
110540850	UAE		YAHSAT-G6-30E	30	A	API/A	6552	2687
110540838	UAE		YAHSAT-G6-30W	-30	A	API/A	6540	2687
110540851	UAE		YAHSAT-G6-35E	35	A	API/A	6553	2687
110540837	UAE		YAHSAT-G6-35W	-35	A	API/A	6539	2687
110540852	UAE		YAHSAT-G6-40E	40	A	API/A	6554	2687
110540836	UAE		YAHSAT-G6-40W	-40	A	API/A	6538	2687
110540853	UAE		YAHSAT-G6-45E	45	A	API/A	6555	2687
110540835	UAE		YAHSAT-G6-45W	-45	A	API/A	6537	2687
110540854	UAE		YAHSAT-G6-47E	47	A	API/A	6556	2687
110540855	UAE		YAHSAT-G6-50E	50	A	API/A	6557	2687
110540834	UAE		YAHSAT-G6-50W	-50	A	API/A	6536	2687
110540856	UAE		YAHSAT-G6-52.5E	52.5	A	API/A	6558	2687

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110540833	UAE		YAHSAT-G6-55W	-55	A	API/A	6535	2687
110540858	UAE		YAHSAT-G6-57E	57	A	API/A	6560	2687
110540845	UAE		YAHSAT-G6-5E	5	A	API/A	6547	2687
110540843	UAE		YAHSAT-G6-5W	-5	A	API/A	6545	2687
110540859	UAE		YAHSAT-G6-60E	60	A	API/A	6561	2687
110540832	UAE		YAHSAT-G6-60W	-60	A	API/A	6534	2687
110540860	UAE		YAHSAT-G6-63E	63	A	API/A	6562	2687
110540861	UAE		YAHSAT-G6-65E	65	A	API/A	6563	2687
110540862	UAE		YAHSAT-G6-67.5E	67.5	A	API/A	6564	2687
110540863	UAE		YAHSAT-G6-70E	70	A	API/A	6565	2687
110540831	UAE		YAHSAT-G6-70W	-70	A	API/A	6533	2687
110540864	UAE		YAHSAT-G6-75E	75	A	API/A	6566	2687
110540865	UAE		YAHSAT-G6-80E	80	A	API/A	6567	2687
110540830	UAE		YAHSAT-G6-80W	-80	A	API/A	6532	2687
110540866	UAE		YAHSAT-G6-85E	85	A	API/A	6568	2687
110540867	UAE		YAHSAT-G6-90E	90	A	API/A	6569	2687
110540829	UAE		YAHSAT-G6-90W	-90	A	API/A	6531	2687
110540868	UAE		YAHSAT-G6-95E	95	A	API/A	6570	2687
108520229	UAE		YAHSAT-KA1-52.5E	52.5	C	CR/C	2293	2652
108520284	UAE		YAHSAT-KA-17.5W	-17.5	C	CR/C	2323	2656
108520134	UAE		YAHSAT-KA-33E	33	C	CR/C	2223	2644
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
109520029	UAE		YAHSAT-N-20W	-20	C	CR/C	2375	2661
109520303	UAE		YAHSAT-N-25.5E	25.5	C	CR/C	2530	2686
109520342	UAE		YAHSAT-N-33W	-33	C	CR/C	2543	2686
109520343	UAE		YAHSAT-N-45W	-45	C	CR/C	2544	2686
109520140	UAE		YAHSAT-N-46E	46	C	CR/C	2436	2656
109520148	UAE		YAHSAT-N-52.5E	52.5	C	CR/C	2437	2656
109520141	UAE		YAHSAT-N-57E	57	C	CR/C	2438	2656
109520142	UAE		YAHSAT-N-63E	63	C	CR/C	2439	2656
109520261	UAE		YAHSAT-N-8E	8	C	CR/C	2489	2681
109520255	UKR		UKRSAT-43E	43	C	CR/C	2498	2684
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
110520405	UKR		UKRSAT-KA-46.5E	46.5	C	CR/C	2781	2708
109540022	UKR		UKRSAT-KU-38.2E	38.2	A	API/A	5516	2639
109500801	URG		VENESAT-1	-78	N	PART	2	2677
107520040	URG		VENESAT-1A	-78	C	CR/C	2045	2623
102500532	USA		ACS-1	-101	N	PART	2	2636
103500278	USA		AFRIBSS	21	N	PART	2	2562
90500615	USA		ASC-1	-128	N	PART	2	0
90500611	USA		ATS-5	-105	N	PART	2	0
90500525	USA		COMSTAR D-2	-95	N	PART	2	0
90500265	USA		FLTSATCOM ATL	-23	N	PART	2	0
90500266	USA		FLTSATCOM E PAC	-100	N	PART	2	0
90500264	USA		FLTSATCOM W PAC	172	N	PART	2	0
110500043	USA		FLTSATCOM-A INDOC-4	100	N	PART	2	2706
93500633	USA		FLTSATCOM-C E ATL-1	-22.5	N	PART	2	2505

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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	2	2621
107520047	USA		GOES 60W	-60	C	CR/C	1986	2639
90500361	USA		GOES EAST	-75	N	PART	2	0
90500362	USA		GOES WEST	-135	N	PART	2	0
103500401	USA		GOES-EAST-1	-75	N	PART	2	2692
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
90501108	USA		INTELSAT IBS 307E	-53	N	PART	2	2614
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	2683
106500076	USA		INTELSAT10 310E	-50	N	PART	2	2675
107500486	USA		INTELSAT10 359E	-1	N	PART	2	2683
106500249	USA		INTELSAT5 33E	33	N	PART	2	2644
90500666	USA		INTELSAT5 INDOC4	66	N	PART	2	2543
90500677	USA		INTELSAT5 PAC3	180	N	PART	2	2614
100500228	USA		INTELSAT5A 157E	157	N	PART	2	2679
92500184	USA		INTELSAT5A CONT2	-50	N	PART	2	2543
103500073	USA		INTELSAT6 157E	157	N	PART	2	2679
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	2666
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	2681
102500192	USA		INTELSAT7 157E	157	N	PART	2	2691
93500545	USA		INTELSAT7 174E	174	N	PART	2	2690
96500027	USA		INTELSAT7 177E	177	N	PART	2	2690
106500585	USA		INTELSAT7 178E	178	N	PART	2	2649
98500067	USA		INTELSAT7 180E	180	N	PART	2	2521
102500193	USA		INTELSAT7 304.5E	-55.5	N	PART	2	2681
96500437	USA		INTELSAT7 307E	-53	N	PART	2	2585

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110520259	USA		INTELSAT7 307E_1	-55.5	C	CR/C	2716	2702
95500117	USA		INTELSAT7 310E	-50	N	PART	2	2450
102500182	USA		INTELSAT7 325.5E	-34.5	N	PART	2	2678
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	2690
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	2690
103500005	USA		INTELSAT7 62E	62	N	PART	2	2569
103500006	USA		INTELSAT7 64E	64	N	PART	2	2691
95500027	USA		INTELSAT7 66E	66	N	PART	2	2565
102500011	USA		INTELSAT7 85E	85	N	PART	2	2690
103500004	USA		INTELSAT8 157E	157	N	PART	2	2679
99500206	USA		INTELSAT8 174E	174	N	PART	2	2687
108500028	USA		INTELSAT8 178E	178	N	PART	2	2690
101500003	USA		INTELSAT8 304.5E	-55.5	N	PART	2	2591
103500100	USA		INTELSAT8 307E	-53	N	PART	2	2669
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	2691
103500007	USA		INTELSAT8 340E	-20	N	PART	2	2672
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	2669
105500094	USA		INTELSAT8 62E	62	N	PART	2	2656
99500053	USA		INTELSAT8 64E	64	N	PART	2	2691
102500012	USA		INTELSAT8 85E	85	N	PART	2	2690
107500152	USA		INTELSAT9 174E	174	N	PART	2	2687
106500243	USA		INTELSAT9 178E	178	N	PART	2	2641
107500311	USA		INTELSAT9 304.5E	-55.5	N	PART	2	2679
107500312	USA		INTELSAT9 307E	-53	N	PART	2	2679
107500329	USA		INTELSAT9 310E	-50	N	PART	2	2679
107500313	USA		INTELSAT9 325.5E	-34.5	N	PART	2	2669
107500330	USA		INTELSAT9 328.5E	-31.5	N	PART	2	2683
107500331	USA		INTELSAT9 330.5E	-29.5	N	PART	2	2682
107500332	USA		INTELSAT9 332.5E	-27.5	N	PART	2	2682
107500333	USA		INTELSAT9 335.5E	-24.5	N	PART	2	2683
110500215	USA		INTELSAT9 33E	33	N	PART	2	2697
107500334	USA		INTELSAT9 340E	-20	N	PART	2	2682
107500339	USA		INTELSAT9 342E	-18	N	PART	2	2682
107500335	USA		INTELSAT9 359E	-1	N	PART	2	2682
107500325	USA		INTELSAT9 60E	60	N	PART	2	2682
107500326	USA		INTELSAT9 62E	62	N	PART	2	2682
107500327	USA		INTELSAT9 64E	64	N	PART	2	2682
107500328	USA		INTELSAT9 66E	66	N	PART	2	2682
111540453	USA		IRIS-10A	29	A	API/A	7000	2703

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111540454	USA		IRIS-11A	125	A	API/A	7001	2703
106520054	USA		IRIS-11R	125	C	CR/C	1808	2603
111540444	USA		IRIS-1A	-105	A	API/A	6991	2703
106520044	USA		IRIS-1R	-105	C	CR/C	1798	2603
111540445	USA		IRIS-2A	-100	A	API/A	6992	2703
106520045	USA		IRIS-2R	-100	C	CR/C	1799	2603
111540446	USA		IRIS-3A	-22.5	A	API/A	6993	2703
106520046	USA		IRIS-3R	-22.5	C	CR/C	1800	2603
111540447	USA		IRIS-4A	-15.5	A	API/A	6994	2703
106520047	USA		IRIS-4R	-15.5	C	CR/C	1801	2603
111540448	USA		IRIS-5A	72	A	API/A	6995	2703
106520048	USA		IRIS-5R	72	C	CR/C	1802	2603
111540449	USA		IRIS-6A	75	A	API/A	6996	2703
106520049	USA		IRIS-6R	75	C	CR/C	1803	2603
111540450	USA		IRIS-7A	172	A	API/A	6997	2703
106520050	USA		IRIS-7R	172	C	CR/C	1804	2603
111540451	USA		IRIS-8A	-177	A	API/A	6998	2703
106520051	USA		IRIS-8R	-177	C	CR/C	1805	2603
111540452	USA		IRIS-9A	-145	A	API/A	6999	2703
106520052	USA		IRIS-9R	-145	C	CR/C	1806	2603
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
109500412	USA		LM-RPS-107.3W	-107.3	N	PART	2	2665
100544003	USA		LM-RPS-11E	11	A	API/A	1381	2522
100544005	USA		LM-RPS-131.8E	131.8	A	API/A	1383	2606
109500413	USA		LM-RPS-133W	-133	N	PART	2	2663
100544004	USA		LM-RPS-71E	71	A	API/A	1382	2606
100544006	USA		LM-RPS-79W	-79	A	API/A	1384	2606
106500580	USA		MCS-1	-101	N	PART	2	2644
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
106520129	USA		MSV-1A	-101	C	CR/C	1867	2605
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
110520193	USA		P-197-6	-30.4	C	CR/C	2674	2700
110520194	USA		P-197-7	92	C	CR/C	2675	2700
110520195	USA		P-197-8	110	C	CR/C	2676	2700
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

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110520130	USA		P92-7	-30.4	C	CR/C	2668	2700
110520131	USA		P92-8	92	C	CR/C	2669	2700
110520132	USA		P92-9	110	C	CR/C	2670	2700
90500298	USA		SPACENET-3	-87	N	PART	2	2655
108501124	USA		TDRS 12W	-12	N	PART	2	2682
108501125	USA		TDRS 133E	133	N	PART	2	2678
111540415	USA		TDRS 164.2W	-164.2	A	API/A	6971	2702
109520272	USA		TDRS 167.5W	-167.5	C	CR/C	2501	2665
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	2697
91910045	USA		TDRS 62W	-62	N	PART	2	2588
95500076	USA		TDRS 85E	85	N	PART	2	2691
108501062	USA		TDRS 89E	89	N	PART	2	2692
90500644	USA		TDRS CENTRAL	-79	N	PART	2	0
90500646	USA		TDRS EAST	-41	N	PART	2	2691
90500647	USA		TDRS WEST	-171	N	PART	2	2647
91910108	USA		TDRS-C2	-79	N	PART	2	2588
108500041	USA		TDRS-EAST-ISS	-41	N	PART	2	2660
108520118	USA		USABSN-10A	-110.4	C	CR/C	2211	2643
107520056	USA		USABSN-12	-103	C	CR/C	2009	2618
109520058	USA		USABSN-12A	-103	C	CR/C	2389	2648
111540740	USA		USABSN-12B	-102.8	A	API/A	7172	2706
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
109520324	USA		USABSN-21	-79	C	CR/C	2540	2686
109520003	USA		USABSN-22	-70	C	CR/C	2401	2667
108520117	USA		USABSN-9A	-107	C	CR/C	2210	2643
99500088	USA		USABSS-1	-101.2	N	PART	2	2697
98500238	USA		USABSS-10	-119	N	PART	2	2442
110500126	USA		USABSS-17	-61.5	N	PART	2	2689
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	2688
98500237	USA		USABSS-8	-61.5	N	PART	2	2453
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
101500545	USA		USASAT-14G	169	N	PART	2	2665
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
109500585	USA		USASAT-14I-3	68.5	N	PART	2	2683
101500405	USA		USASAT-14J	72	N	PART	2	2690
105500377	USA		USASAT-14J-2	72	N	PART	2	2581
103500458	USA		USASAT-14K	172	N	PART	2	2709
106500246	USA		USASAT-14L	-15	N	PART	2	2709

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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
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	2666
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
110500270	USA		USASAT-25A-1	-37.5	N	PART	2	2706
101500251	USA		USASAT-25C	-43	N	PART	2	2665
104500278	USA		USASAT-25D	-45	N	PART	2	2666
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	2702
101500542	USA		USASAT-26C	-43	N	PART	2	2665
101500397	USA		USASAT-26G	-58	N	PART	2	2644
110500058	USA		USASAT-26G-3	-58	N	PART	2	2693
109500721	USA		USASAT-28F	-85.1	N	PART	2	2683
109500722	USA		USASAT-28G	-115	N	PART	2	2683
106520106	USA		USASAT-28J	-115.1	C	CR/C	1924	2610
106520107	USA		USASAT-28K	-85.2	C	CR/C	1925	2700
111500010	USA		USASAT-28L	-96	N	PART	2	2701
110520265	USA		USASAT-28N	-116.15	C	CR/C	2788	2702
105500186	USA		USASAT-31G	-121	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

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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	2666
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
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
110500255	USA		USASAT-55F	-43	N	PART	2	2697
110500256	USA		USASAT-55G	-45	N	PART	2	2697
107520050	USA		USASAT-55H	-125	C	CR/C	1987	2618
111500075	USA		USASAT-55I	33	N	PART	2	2705
107520201	USA		USASAT-55J	-1	C	CR/C	2086	2612
110520098	USA		USASAT-55K	-31.5	C	CR/C	2616	2692
111520001	USA		USASAT-55L	169	C	CR/C	2836	2695
110520099	USA		USASAT-55M	-58	C	CR/C	2617	2673
110520100	USA		USASAT-55N	85	C	CR/C	2655	2677
110520104	USA		USASAT-55O	-50	C	CR/C	2626	2674
111520051	USA		USASAT-55P	-29.5	C	CR/C	2827	2706
111520218	USA		USASAT-55Q	66	C	CR/C	2950	2703
111540004	USA		USASAT-55R	180	A	API/A	6678	2690
111540739	USA		USASAT-55S	-58	A	API/A	7171	2706
110500296	USA		USASAT-60A	172	N	PART	2	2708
111500015	USA		USASAT-60B	166	N	PART	2	2707
110500059	USA		USASAT-60C	68.5	N	PART	2	2690
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
109500408	USA		USASAT-60I	-45	N	PART	2	2698
110500254	USA		USASAT-60J	169	N	PART	2	2698
106520006	USA		USASAT-60L	-74	C	CR/C	1825	2603



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106520073	USA		USASAT-60M	-77	C	CR/C	1830	2603
108520193	USA		USASAT-60N	33	C	CR/C	2341	2658
110520101	USA		USASAT-60O	50.75	C	CR/C	2618	2673
111520022	USA		USASAT-60P	-31.5	C	CR/C	2795	2703
90500349	USA		USASAT-6A	-97	N	PART	2	2307
106520028	USA		USASAT-70N	-113	C	CR/C	1792	2600
105520297	USA		USASAT-70O	-95	C	CR/C	1708	2594
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
110520103	USA		USASAT-71J	-89	C	CR/C	2622	2700
101500073	USA		USASAT-7D	-101	N	PART	2	2690
90500511	USA		USASAT-8B	-72	N	PART	2	2630
101500396	USA		USASAT-9A	-91	N	PART	2	2690
101500077	USA		USASAT-9C	-85	N	PART	2	2630
101500076	USA		USASAT-9D	-81	N	PART	2	2630
106500342	USA		USBUD-1	100	N	PART	2	2693
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
104500362	USA		USCSID-W1	-141	N	PART	2	2686
104500363	USA		USCSID-W2	-144	N	PART	2	2691
106500292	USA		USDKH2	-30.4	N	PART	2	2667
104500514	USA		USGAE-1	-90	N	PART	2	2633
98520401	USA		USGAE-10	-150	C	CR/C	242	2554
109500620	USA		USGAE-10R	-150	N	PART	2	2680
98520388	USA		USGAE-11	93	C	CR/C	243	2554
109520218	USA		USGAE-11M	93	C	CR/C	2462	2678
98520389	USA		USGAE-12	111	C	CR/C	244	2554
109520219	USA		USGAE-12M	111	C	CR/C	2463	2678
98520390	USA		USGAE-13	96	C	CR/C	245	2554
109520220	USA		USGAE-13M	96	C	CR/C	2464	2678
98520391	USA		USGAE-14	-16.5	C	CR/C	246	2554
109520221	USA		USGAE-14M	-16.5	C	CR/C	2465	2678
98520392	USA		USGAE-15	-31.5	C	CR/C	247	2554
109520222	USA		USGAE-15M	-31.5	C	CR/C	2466	2678
98520393	USA		USGAE-16	30	C	CR/C	248	2554
109500625	USA		USGAE-16R	30	N	PART	2	2699
98520394	USA		USGAE-17	-39	C	CR/C	249	2554
109500621	USA		USGAE-17R	-39	N	PART	2	2680
98520395	USA		USGAE-18	-155	C	CR/C	250	2554
109520223	USA		USGAE-18M	-155	C	CR/C	2467	2678

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98520396	USA		USGAE-19	150	C	CR/C	251	2554
109540091	USA		USGAE-19M	150	A	API/A	5555	2645
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
98520398	USA		USGAE-21	175	C	CR/C	253	2554
109540093	USA		USGAE-21M	175	A	API/A	5557	2645
98520399	USA		USGAE-22	180	C	CR/C	254	2554
109540094	USA		USGAE-22M	180	A	API/A	5558	2645
109520224	USA		USGAE-23M	19	C	CR/C	2468	2678
98520385	USA		USGAE-3	90	C	CR/C	235	2551
109520213	USA		USGAE-3M	90	C	CR/C	2457	2678
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	2678
98520380	USA		USGAE-6	-120	C	CR/C	238	2554
109520215	USA		USGAE-6M	-120	C	CR/C	2459	2678
98520381	USA		USGAE-7	-68	C	CR/C	239	2554
109520216	USA		USGAE-7M	-68	C	CR/C	2460	2678
98520382	USA		USGAE-8	-9	C	CR/C	240	2554
109520217	USA		USGAE-8M	-9	C	CR/C	2461	2678
98520400	USA		USGAE-9	152	C	CR/C	241	2554
109500486	USA		USGAE-9R	152	N	PART	2	2699
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
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

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104500572	USA		USGON-6	145	N	PART	2	2594
104500573	USA		USGON-7	-145	N	PART	2	2593
110500139	USA		USGOVSAT-10	60	N	PART	2	2709
110520415	USA		USGOVSAT-11R	150	C	CR/C	2771	2707
110500130	USA		USGOVSAT-12	175	N	PART	2	2709
110520416	USA		USGOVSAT-13R	-121.9	C	CR/C	2772	2707
110520417	USA		USGOVSAT-14R	-77	C	CR/C	2773	2707
110540274	USA		USGOVSAT-15R	11	A	API/A	6269	2675
111520031	USA		USGOVSAT-16R	24	C	CR/C	2806	2705
110540276	USA		USGOVSAT-17R	36	A	API/A	6271	2675
111520032	USA		USGOVSAT-18R	78.5	C	CR/C	2807	2692
111520033	USA		USGOVSAT-19R	86	C	CR/C	2808	2692
110520407	USA		USGOVSAT-1R	180	C	CR/C	2763	2707
111520034	USA		USGOVSAT-20R	134	C	CR/C	2809	2692
110520408	USA		USGOVSAT-2R	-151	C	CR/C	2764	2707
110520409	USA		USGOVSAT-3R	-135	C	CR/C	2765	2707
110520410	USA		USGOVSAT-4R	-130	C	CR/C	2766	2707
110520411	USA		USGOVSAT-5R	-112	C	CR/C	2767	2707
110520412	USA		USGOVSAT-6R	-52.5	C	CR/C	2768	2707
110520413	USA		USGOVSAT-7R	-42.5	C	CR/C	2769	2707
111500009	USA		USGOVSAT-8	-12	N	PART	2	2701
110520414	USA		USGOVSAT-9R	57	C	CR/C	2770	2707
99543671	USA		USGX-141W	-141	A	API/A	1092	2410
99543672	USA		USGX-144W	-144	A	API/A	1093	2410
95500286	USA		USLL-ATL	-10	N	PART	2	2240
104500333	USA		USLL-ATL2	-12.5	N	PART	2	2603
111540288	USA		USLL-ATL3	-30.4	A	API/A	6891	2699
95500289	USA		USLL-PAC	-144	N	PART	2	2278
104500334	USA		USLL-PAC2	-141	N	PART	2	2602
111540289	USA		USLL-PAC3	92	A	API/A	6892	2699
111540290	USA		USLL-PAC4	100	A	API/A	6893	2699
111540291	USA		USLL-PAC5	110	A	API/A	6894	2699
111540292	USA		USLL-PAC6	-127	A	API/A	6895	2699
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
109520027	USA		USNN-3	-127	C	CR/C	2373	2661
109520028	USA		USNN-4	100	C	CR/C	2374	2661
111520231	USA		USNN-5	170	C	CR/C	2959	2705

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
111540485	USA		USOBO-10A	130.6	A	API/A	7011	2703
105520370	USA		USOBO-10R	130.6	C	CR/C	1749	2597
111540486	USA		USOBO-11A	139	A	API/A	7012	2703
105520371	USA		USOBO-11R	139	C	CR/C	1750	2597
111540532	USA		USOBO-12A	51.5	A	API/A	7022	2704
111540533	USA		USOBO-13A	107	A	API/A	7023	2704
111540534	USA		USOBO-14A	166	A	API/A	7024	2704
111540535	USA		USOBO-15A	178	A	API/A	7025	2704
111540536	USA		USOBO-16A	-170	A	API/A	7026	2704
111540476	USA		USOBO-1A	-159.4	A	API/A	7002	2703
105520361	USA		USOBO-1R	-159.4	C	CR/C	1740	2597
106500112	USA		USOBO-2	-96.8	N	PART	2	2638
111540477	USA		USOBO-2A	-96.8	A	API/A	7003	2703
105520362	USA		USOBO-2R	-96.8	C	CR/C	1741	2597
106500113	USA		USOBO-3	-49.4	N	PART	2	2667
111540478	USA		USOBO-3A	-49.4	A	API/A	7004	2703
105520363	USA		USOBO-3R	-49.4	C	CR/C	1742	2597
111540479	USA		USOBO-4A	-21.2	A	API/A	7005	2703
105520364	USA		USOBO-4R	-21.2	C	CR/C	1743	2597
111540480	USA		USOBO-5A	20.6	A	API/A	7006	2703
105520365	USA		USOBO-5R	20.6	C	CR/C	1744	2597
111540481	USA		USOBO-6A	66	A	API/A	7007	2703
105520366	USA		USOBO-6R	66	C	CR/C	1745	2597
111540482	USA		USOBO-7A	73	A	API/A	7008	2703
105520367	USA		USOBO-7R	73	C	CR/C	1746	2597
111540483	USA		USOBO-8A	87.5	A	API/A	7009	2703
105520368	USA		USOBO-8R	87.5	C	CR/C	1747	2597
111540484	USA		USOBO-9A	94	A	API/A	7010	2703
105520369	USA		USOBO-9R	94	C	CR/C	1748	2597
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
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
109520281	VTN		VIETSAT-132	131.9	C	CR/C	2527	2685
109520050	VTN		VINASAT-1C1	107	C	CR/C	2382	2663
105520236	VTN		VINASAT-1D	131	C	CR/C	1679	2591
97520201	VTN		VINASAT-4A	132	C	CR/C	805	2586
109500237	VTN		VINASAT-4A2	132	N	PART	2	2691
110500104	VTN		VINASAT-4A3	132	N	PART	2	2693
111500107	VTN		VINASAT-TTC	132	N	PART	2	2709
111540817	VTN		VNSAT-102.5E	102.5	A	API/A	7186	2709
109540987	VTN		VN-SAT-103	103	A	API/A	5984	2663
111540818	VTN		VNSAT-103.5E	103.5	A	API/A	7187	2709

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
111540819	VTN		VNSAT-106.5E	106.5	A	API/A	7188	2709
111540820	VTN		VNSAT-106.8E	106.8	A	API/A	7189	2709
109540988	VTN		VN-SAT-110	110	A	API/A	5985	2663
109540989	VTN		VN-SAT-114.5	114.5	A	API/A	5986	2663
109540990	VTN		VN-SAT-120	120	A	API/A	5987	2663
111540821	VTN		VNSAT-120.5E	120.5	A	API/A	7190	2709
111540822	VTN		VNSAT-125.5E	125.5	A	API/A	7191	2709
109540991	VTN		VN-SAT-126	126	A	API/A	5988	2663
109540992	VTN		VN-SAT-128	128	A	API/A	5989	2663
109540993	VTN		VN-SAT-132	132	A	API/A	5990	2663
109540994	VTN		VN-SAT-136	136	A	API/A	5991	2663
111540823	VTN		VNSAT-137.5E	137.5	A	API/A	7192	2709
109540995	VTN		VN-SAT-138	138	A	API/A	5992	2663
111540824	VTN		VNSAT-139.5E	139.5	A	API/A	7193	2709
111540826	VTN		VNSAT-141.5E	141.5	A	API/A	7195	2709
111540825	VTN		VNSAT-141E	141	A	API/A	7194	2709
109540996	VTN		VN-SAT-142	142	A	API/A	5993	2663
111540052	VTN		VNSAT-1A1	97	A	API/A	6710	2691
111540053	VTN		VNSAT-1A2	103	A	API/A	6711	2691
111540054	VTN		VNSAT-1A3	117	A	API/A	6712	2691
111540055	VTN		VNSAT-1A4	118.5	A	API/A	6713	2691
111540056	VTN		VNSAT-1A5	121.5	A	API/A	6714	2691
111540057	VTN		VNSAT-1A6	124.5	A	API/A	6715	2691
111540058	VTN		VNSAT-1A7	129.5	A	API/A	6716	2691
111540059	VTN		VNSAT-1A8	132.5	A	API/A	6717	2691
111540060	VTN		VNSAT-1A9	134.5	A	API/A	6718	2691
111540061	VTN		VNSAT-1B1	138.5	A	API/A	6719	2691
109540985	VTN		VN-SAT-68	68	A	API/A	5982	2663
109540986	VTN		VN-SAT-97	97	A	API/A	5983	2663

## ANNEX 1B

**Table 1B.1: List of non-geostationary space networks for which information has been communicated to the Bureau up to 31.12.2012 in application of the provisions of Article 9 (Advance Publication Information - A or Coordination Request - C) and/or Article 11 (Notification - N) of the Radio Regulations.**

(Sorted by administration and satellite name)

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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107500340	AFS		ZA-002	N-GSO	N	PART	2	2630
108500677	ALG		ALSAT-2	N-GSO	N	PART	2	2682
107500106	ARG		LATINSAT	N-GSO	N	PART	2	2646
99500173	ARG		SAC-C	N-GSO	N	PART	2	2643
109520249	ARG		SAC-D	N-GSO	C	CR/C	2481	2680
105500571	ARG		SAOCOM	N-GSO	N	PART	2	2607
109500037	ARS		SAUDISAT-1C	N-GSO	N	PART	2	2667
109500038	ARS		SAUDISAT-2	N-GSO	N	PART	2	2697
106520166	AUS		SIRION	N-GSO	C	CR/C	1904	2652
110540962	AUT		BRITE	N-GSO	A	API/A	6652	2701
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
111540431	BEL		OUFTI-1	N-GSO	A	API/A	6987	2703
111540040	BLR		BKA	N-GSO	A	API/A	5898	2703
109520092	CAN		ADS	N-GSO	C	CR/C	2404	2684
105500390	CAN		CANX-2	N-GSO	N	PART	2	2639
111500036	CAN		CASCADE-CX	N-GSO	N	PART	2	2705
111540115	CAN		CASSIOPE-1A	N-GSO	A	API/A	6766	2703
111540324	CAN		COMMSTELLATION	N-GSO	A	API/A	6935	2700
109500062	CAN		JC2SAT	N-GSO	N	PART	2	2686
101500359	CAN		MOST-1	N-GSO	N	PART	2	2520
107500065	CAN		NEOSSAT	N-GSO	N	PART	2	2707
108540240	CAN		NTS	N-GSO	A	API/A	5134	2687
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
111540549	CAN		RADARSAT-3B	N-GSO	A	API/A	7039	2704
108540736	CAN		SAPPHIRE	N-GSO	A	API/A	5502	2653
101500360	CAN		SCISAT-1	N-GSO	N	PART	2	2510
109500900	CHL		SSOT	N-GSO	N	PART	2	2693
105500389	CHN		BLMIT-1	N-GSO	N	PART	2	2607
110540401	CHN		CBERS-02C	N-GSO	A	API/A	6406	2689
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
110540984	CHN		CGSAT-LEO-1	N-GSO	A	API/A	6675	2690
110540946	CHN		CHNGMSS	N-GSO	A	API/A	6653	2688
107540207	CHN		CHNMSSAT	N-GSO	A	API/A	4631	2598

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
103500420	CHN		COMPASS-H	N-GSO	N	PART	2	2596
111540531	CHN		COMPASS-IGSO	N-GSO	A	API/A	7021	2704
103500421	CHN		COMPASS-M	N-GSO	N	PART	2	2596
110520285	CHN		COMPASS-MEO	N-GSO	C	CR/C	2740	2705
100500426	CHN		FY-1	N-GSO	N	PART	2	2709
107500440	CHN		FY-3	N-GSO	N	PART	2	2645
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	2664
110540399	CHN		LUNAR LANDER	N-GSO	A	API/A	6386	2689
110540400	CHN		LUNAR ROVER	N-GSO	A	API/A	6387	2689
108540253	CHN		MARS EXPLORER-1	N-GSO	A	API/A	5137	2665
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	2709
110540313	CHN		SJ-9	N-GSO	A	API/A	6298	2687
108540411	CHN		TIANWANG	N-GSO	A	API/A	5265	2639
109500242	CHN		XW-1	N-GSO	N	PART	2	2667
110540189	CHN		ZIYUAN-3	N-GSO	A	API/A	6203	2681
101500300	D	GLS	GALILEO-NAV-2004	N-GSO	N	PART	2	2582
107500317	D		BIRD	N-GSO	N	PART	2	2697
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
109540923	D		ENMAP	N-GSO	A	API/A	5963	2684
104500168	D		GRACE	N-GSO	N	PART	2	2580
106500286	D		MAGNIFYING GLASS	N-GSO	N	PART	2	2649
105500438	D		RAPIDEYE	N-GSO	N	PART	2	2637
108501139	D		TERRASAR	N-GSO	N	PART	2	2679
111500037	D		TET-1	N-GSO	N	PART	2	2703
108500678	E		DEIMOS-1	N-GSO	N	PART	2	2658
109540563	E		INGENIO	N-GSO	A	API/A	5791	2687
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
110540210	E		OPTOS	N-GSO	A	API/A	6215	2686
109540646	E		PAZ	N-GSO	A	API/A	5790	2669
111540416	E		XATCOBEO	N-GSO	A	API/A	6972	2703
105500097	EGY		MIRSAT-1	N-GSO	N	PART	2	2603
105500004	F	ESA	ADM-AEOLUS	N-GSO	N	PART	2	2583
106500013	F	ESA	AEOLUS	N-GSO	N	PART	2	2607
105500005	F	ESA	ATV	N-GSO	N	PART	2	2700
110540884	F	ESA	BEPICOLOMBO (MPO)	N-GSO	A	API/A	6585	2698
95500126	F	ESA	CLUSTER 1-5	N-GSO	N	PART	2	2583
108500003	F	ESA	CRYOSAT-2	N-GSO	N	PART	2	2670
99500167	F	ESA	ENVISAT	N-GSO	N	PART	2	2680
91910008	F	ESA	ERS-1	N-GSO	N	PART	2	2680
111540172	F	ESA	GAIA	N-GSO	A	API/A	6773	2707
103500001	F	ESA	GOCE	N-GSO	N	PART	2	2644
104500092	F	ESA	HERSCHEL	N-GSO	N	PART	2	2700

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
99500055	F	ESA	INTEGRAL	N-GSO	N	PART	2	2680
109500001	F	ESA	LISA PATHFINDER	N-GSO	N	PART	2	2699
101500521	F	ESA	MARS-EXPRESS	N-GSO	N	PART	2	2700
100500306	F	ESA	METOP	N-GSO	N	PART	2	2702
104500093	F	ESA	PLANCK	N-GSO	N	PART	2	2700
99500101	F	ESA	PROBA	N-GSO	N	PART	2	2680
105500613	F	ESA	PROBA-2	N-GSO	N	PART	2	2669
110540883	F	ESA	PROBA-V	N-GSO	A	API/A	6584	2698
101500519	F	ESA	ROSETTA	N-GSO	N	PART	2	2700
111500003	F	ESA	SENTINEL-1	N-GSO	N	PART	2	2703
111500004	F	ESA	SENTINEL-2	N-GSO	N	PART	2	2702
111500005	F	ESA	SENTINEL-3	N-GSO	N	PART	2	2703
105500083	F	ESA	SMOS	N-GSO	N	PART	2	2708
95500127	F	ESA	SOHO	N-GSO	N	PART	2	2574
104540593	F	ESA	SSETI EXPRESS	N-GSO	A	API/A	3365	2536
110500003	F	ESA	SWARM	N-GSO	N	PART	2	2702
103500345	F	ESA	VENUS EXPRESS	N-GSO	N	PART	2	2700
97500403	F	ESA	XMM	N-GSO	N	PART	2	2574
109520327	F	GLS	GALILEO-2	N-GSO	C	CR/C	2542	2686
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
110500301	F		ALERTE	N-GSO	N	PART	2	2701
108500002	F		ARGOS-4	N-GSO	N	PART	2	2701
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
110540449	F		ASAT HEO	N-GSO	A	API/A	6385	2679
110540448	F		ASAT MEO	N-GSO	A	API/A	6384	2679
111520230	F		ASAT-B	N-GSO	C	CR/C	2960	2705
109500282	F		ASTROTERRA	N-GSO	N	PART	2	2700
93500177	F		CERISE	N-GSO	N	PART	2	2689
100500052	F		DORIS-2	N-GSO	N	PART	2	2588
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
101500326	F		ESSAIM	N-GSO	N	PART	2	2549
95540023	F		F-SATMULTI-1A	N-GSO	A	AR11/A	1604	2337
106520198	F		F-SAT-S-HEO	N-GSO	C	CR/C	1903	2609
110520102	F		HIBLEO-X	N-GSO	C	CR/C	2621	2694
109500002	F		JASON2	N-GSO	N	PART	2	2671
105500220	F		MINOS	N-GSO	N	PART	2	2605
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
110540257	F		MYR_PICARD	N-GSO	A	API/A	6256	2687
106500051	F		MYRIADE	N-GSO	N	PART	2	2630
111540735	F		PLEIADES	N-GSO	A	API/A	7167	2707
105500522	F		PROTEUS-OBS	N-GSO	N	PART	2	2632
96500559	F		PROTEUS-TPFO	N-GSO	N	PART	2	2588



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109540060	F		ROBUSTA	N-GSO	A	API/A	5560	2656
90504639	F		SPOT-1	N-GSO	N	PART	2	2575
93500165	F		SPOT-2	N-GSO	N	PART	2	2575
93500166	F		SPOT-3	N-GSO	N	PART	2	2575
104500595	F		SPOT-7	N-GSO	N	PART	2	2585
106540715	F		VP HEO	N-GSO	A	API/A	4421	2589
106540713	F		VP LEO	N-GSO	A	API/A	4419	2589
106540714	F		VP MEO	N-GSO	A	API/A	4420	2589
109540808	G		ADS-1B	N-GSO	A	API/A	5917	2684
102500178	G		DMC1	N-GSO	N	PART	2	2696
108520059	G		HIBLEO-KA	N-GSO	C	CR/C	2208	2663
107500097	G		ICO-P	N-GSO	N	PART	2	2609
108520116	G		O3B-A	N-GSO	C	CR/C	2209	2661
111520052	G		O3B-B	N-GSO	C	CR/C	2817	2693
106520199	G		SNS	N-GSO	C	CR/C	1897	2616
110500236	HNG		MASAT-1	N-GSO	N	PART	2	2698
107500088	HOL		DELFI-C3	N-GSO	N	PART	2	2628
106540615	HOL		OSAT	N-GSO	A	API/A	4377	2588
103500082	I	GLS	GALILEO-M-NAVSTAR	N-GSO	N	PART	2	2639
106500322	I		AGILE	N-GSO	N	PART	2	2697
104500001	I		COSMO SKYMED	N-GSO	N	PART	2	2647
111500034	I		PRISMA-I	N-GSO	N	PART	2	2701
90504397	IND		ASLV	N-GSO	N	PART	2	0
109500241	IND		CHANDRAYAAN-1	N-GSO	N	PART	2	2675
104540474	IND		HAMSAT	N-GSO	A	API/A	3291	2591
108520024	IND		INSAT-NAV-A-GS	N-GSO	C	CR/C	2160	2674
106520156	IND		INSAT-NAV-GS	N-GSO	C	CR/C	1892	2609
110540953	IND		INSAT-NAV-NGSA	N-GSO	A	API/A	6644	2688
111540555	IND		INSAT-NAVR-GS	N-GSO	A	API/A	7043	2709
90504414	IND		IRS-1B	N-GSO	N	PART	2	0
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
111540655	IND		MEGHA-TROPIQUES	N-GSO	A	API/A	7094	2706
109540888	IND		OCEANSAT-2	N-GSO	A	API/A	5953	2671
93500010	IND		PSLV	N-GSO	N	PART	2	2148
111540205	IND		RESOURCESAT	N-GSO	A	API/A	6816	2709
90504631	IND		RS-D2	N-GSO	N	PART	2	0
90504633	IND		SEO BHASKARA-1	N-GSO	N	PART	2	0
90504634	IND		SEO BHASKARA-2	N-GSO	N	PART	2	0
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
111540211	IND		YOUTHSAT	N-GSO	A	API/A	6817	2709
109500036	INS		LAPANSAT	N-GSO	N	PART	2	2701
105500657	INS		LAPAN-TUBSAT	N-GSO	N	PART	2	2704
110520235	IRN		AUTSAT	N-GSO	C	CR/C	2697	2682
111540002	IRN		FAJR	N-GSO	A	API/A	6676	2701
101500402	IRN		MESBAH	N-GSO	N	PART	2	2632

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109500635	IRN		OMID	N-GSO	N	PART	2	2681
111540003	IRN		RASAD-1	N-GSO	A	API/A	6677	2701
110540558	IRN		SHARIFSAT	N-GSO	A	API/A	6506	2693
111540210	IRN		TOLU-1	N-GSO	A	API/A	6818	2709
100500371	ISR		EROS	N-GSO	N	PART	2	2554
111540439	ISR		VENUS	N-GSO	A	API/A	6990	2703
107500101	J		ALOS	N-GSO	N	PART	2	2627
110520026	J		ALOS-2	N-GSO	C	CR/C	2671	2700
110500173	J		ALOSSAR	N-GSO	N	PART	2	2694
106540471	J		AS20-01	N-GSO	A	API/A	4288	2580
109540438	J		ASNARO	N-GSO	A	API/A	5692	2701
100500051	J		ASTRO-E	N-GSO	N	PART	2	2582
106500126	J		ASTRO-F	N-GSO	N	PART	2	2608
111540642	J		CHUBUSAT-1	N-GSO	A	API/A	7081	2705
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
110500109	J		CUTE-I	N-GSO	N	PART	2	2693
110500207	J		EXCELSIOR	N-GSO	N	PART	2	2696
90504408	J		EXOS-D	N-GSO	N	PART	2	2643
111540427	J		FITSAT-1	N-GSO	A	API/A	6983	2703
108540720	J		GCOM-W1	N-GSO	A	API/A	5501	2676
92500295	J		GEOTAIL	N-GSO	N	PART	2	2616
109500024	J		GOSAT	N-GSO	N	PART	2	2686
106540270	J		HIT-SAT	N-GSO	A	API/A	4228	2579
111540432	J		HODOYOSHI	N-GSO	A	API/A	6988	2703
108540582	J		HORYU	N-GSO	A	API/A	5346	2650
109500579	J		HTV-R	N-GSO	N	PART	2	2699
109500846	J		IKAROS	N-GSO	N	PART	2	2709
105500237	J		INDEX-1	N-GSO	N	PART	2	2607
111540397	J		ISS-CUBES	N-GSO	A	API/A	6965	2703
109500008	J		ISS-JEM-ICS-R	N-GSO	N	PART	2	2658
109500580	J		ISS-PROX-R	N-GSO	N	PART	2	2679
90504424	J		JAS-1B	N-GSO	N	PART	2	2683
96500425	J		JAS-2	N-GSO	N	PART	2	2555
108540587	J		JOSHO	N-GSO	A	API/A	5349	2664
110500196	J		KAGSAT	N-GSO	N	PART	2	2697
109500093	J		KKS-1	N-GSO	N	PART	2	2670
111540285	J		MMO	N-GSO	A	API/A	6890	2699
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	2695
104500548	J		N-SAT-HEO2	N-GSO	N	PART	2	2603
108500014	J		OICETS-R	N-GSO	N	PART	2	2635
109500914	J		PLANET-C	N-GSO	N	PART	2	2697
109500094	J		PRISM1	N-GSO	N	PART	2	2666
106540666	J		PRISM2	N-GSO	A	API/A	4383	2653
110540958	J		QSAT	N-GSO	A	API/A	6648	2701
110500199	J		QZSS-1	N-GSO	N	PART	2	2707
109500033	J		SDS-1	N-GSO	N	PART	2	2666
109540890	J		SDS-3	N-GSO	A	API/A	5956	2684
110540005	J		SDS-A	N-GSO	A	API/A	5996	2700

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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
110500206	J		SERVIS-2	N-GSO	N	PART	2	2697
111540438	J		SLATS	N-GSO	A	API/A	6989	2703
109500095	J		SOHLA1	N-GSO	N	PART	2	2666
109500015	J		SOHLA-1	N-GSO	N	PART	2	2697
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	2690
109500096	J		SORUNSAT-1	N-GSO	N	PART	2	2666
111540745	J		SPRINT-A	N-GSO	A	API/A	7175	2707
109500014	J		SPRITE-SAT	N-GSO	N	PART	2	2649
107540108	J		SPROUT	N-GSO	A	API/A	4560	2616
109500097	J		STARS	N-GSO	N	PART	2	2666
110540948	J		STARS-II	N-GSO	A	API/A	6638	2700
105540489	J		SUBPAYLOAD	N-GSO	A	API/A	3835	2555
110540490	J		TSUBAME	N-GSO	A	API/A	6505	2693
109540355	J		UNITEC-1	N-GSO	A	API/A	5626	2661
109540485	J		WASEDA.SAT	N-GSO	A	API/A	5723	2663
111540792	J		WE WISH	N-GSO	A	API/A	7183	2709
107500006	J		WEOS-R	N-GSO	N	PART	2	2610
108500625	J		XI-IV	N-GSO	N	PART	2	2635
108500626	J		XI-V	N-GSO	N	PART	2	2635
107500037	KOR		KAISTSAT-4	N-GSO	N	PART	2	2637
93500300	KOR		KITSAT-1	N-GSO	N	PART	2	2665
94500234	KOR		KITSAT-2	N-GSO	N	PART	2	2665
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
111500044	KOR		KOMPSAT-3	N-GSO	N	PART	2	2705
110500283	KOR		KOMPSAT-5	N-GSO	N	PART	2	2700
108501015	KOR		STSAT-2	N-GSO	N	PART	2	2647
109540520	KOR		STSAT-3	N-GSO	A	API/A	5751	2686
109520122	LUX		LUXMSS-1	N-GSO	C	CR/C	2417	2674
110540444	LUX		LUX-N-GSO-1	N-GSO	A	API/A	6426	2687
110540445	LUX		LUX-N-GSO-2	N-GSO	A	API/A	6427	2687
110540446	LUX		LUX-N-GSO-3	N-GSO	A	API/A	6428	2687
109520135	LUX		LXS-AIS	N-GSO	C	CR/C	2431	2671
100500293	MLA		INNOSAT	N-GSO	N	PART	2	2692
107500030	MLA		MLA-NEQO	N-GSO	N	PART	2	2654
107500622	MRC		MSATH-Z	N-GSO	N	PART	2	2644
109520038	NOR		ARE-1	N-GSO	C	CR/C	2377	2692
97500282	PAK		BADR-B	N-GSO	N	PART	2	2614
110540720	PAK		PRSS-O1	N-GSO	A	API/A	6507	2695
110540980	POL		BRITE-PL	N-GSO	A	API/A	6671	2701
90504874	RUS	IK	MOLNIA-3	N-GSO	N	PART	2	0
96500536	RUS		COMPARUS-C	N-GSO	N	PART	2	2390
96500535	RUS		COMPARUS-E	N-GSO	N	PART	2	2385
107500002	RUS		CUP	N-GSO	N	PART	2	2610
111540191	RUS		DTRS-ISS	N-GSO	A	API/A	6808	2707

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108520002	RUS		EXPRESS-RB	N-GSO	C	CR/C	2162	2640
94500133	RUS		GEO-IK-2	N-GSO	N	PART	2	2358
90504410	RUS		GLONASS	N-GSO	N	PART	2	0
97500304	RUS		GLONASS-M	N-GSO	N	PART	2	2645
101500568	RUS		GONETS	N-GSO	N	PART	2	2534
108500573	RUS		GONETS-M	N-GSO	N	PART	2	2688
107500005	RUS		GTS	N-GSO	N	PART	2	2624
110500266	RUS		KANOPUS-V	N-GSO	N	PART	2	2702
106500111	RUS		KORONAS-PHOTON	N-GSO	N	PART	2	2647
90504426	RUS		KOSPAS	N-GSO	N	PART	2	2688
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	2691
90504431	RUS		MOLNIA-1	N-GSO	N	PART	2	0
90504432	RUS		MOLNIA-2	N-GSO	N	PART	2	0
103500030	RUS		MONITOR	N-GSO	N	PART	2	2647
110500001	RUS		PHOBOS-GRUNT	N-GSO	N	PART	2	2689
90504628	RUS		RADIO-M	N-GSO	N	PART	2	0
108500004	RUS		RESURS-DK1	N-GSO	N	PART	2	2634
90504630	RUS		RS	N-GSO	N	PART	2	0
111500091	RUS		SELENA	N-GSO	N	PART	2	2709
107500107	RUS		SMOTR	N-GSO	N	PART	2	2644
106500006	RUS		SPECTR-R	N-GSO	N	PART	2	2693
96500453	RUS		TSYKADA	N-GSO	N	PART	2	2476
106540528	RUS		UCTS-ISS	N-GSO	A	API/A	4346	2582
90504425	S		KIRUNA ROCKET	N-GSO	N	PART	2	2577
100500389	S		ODIN	N-GSO	N	PART	2	2674
109500280	S		PRISMA	N-GSO	N	PART	2	2680
111540279	SNG		X-SAT	N-GSO	A	API/A	6888	2699
107500492	SUI		SWISSCUBE	N-GSO	N	PART	2	2702
110500265	SUI		TISAT-1	N-GSO	N	PART	2	2702
106500406	THA		THEOS	N-GSO	N	PART	2	2658
103540447	TUR		BILSAT	N-GSO	A	API/A	2723	2578
110540252	TUR		GOKTURK-1	N-GSO	A	API/A	6253	2687
110540253	TUR		GOKTURK-2	N-GSO	A	API/A	6254	2687
108540251	TUR		RASAT	N-GSO	A	API/A	5136	2638
107500094	UAE		DUBAISAT-1	N-GSO	N	PART	2	2697
109500632	UAE		DUBAISAT-2	N-GSO	N	PART	2	2706
110500065	UAE		DUBAISAT-2B	N-GSO	N	PART	2	2691
107500013	UKR		SICH-2	N-GSO	N	PART	2	2609
106500338	UKR		YAVIR-1	N-GSO	N	PART	2	2607
105540013	USA		3 CORNER SAT	N-GSO	A	API/A	3405	2539
98500190	USA		ACE	N-GSO	N	PART	2	2590
99500078	USA		ACRIMSAT	N-GSO	N	PART	2	2590
105500022	USA		AIM	N-GSO	N	PART	2	2603
94500240	USA		ALEXIS	N-GSO	N	PART	2	2163
104540472	USA		AMSAT-OSCAR-E	N-GSO	A	API/A	3289	2531
110500217	USA		AQUARIUS	N-GSO	N	PART	2	2702
101500081	USA		AURA	N-GSO	N	PART	2	2704
97500109	USA		AXAF-1	N-GSO	N	PART	2	2590

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106500295	USA		BIGELOW	N-GSO	N	PART	2	2693
96500413	USA		BLOCK 5D-3	N-GSO	N	PART	2	2590
96500408	USA		CASSINI	N-GSO	N	PART	2	2590
101500569	USA		CHIPS	N-GSO	N	PART	2	2590
106500083	USA		CIBOLA	N-GSO	N	PART	2	2608
92500205	USA		COMET	N-GSO	N	PART	2	2590
111500006	USA		CONNECT	N-GSO	N	PART	2	2708
109540364	USA		COSMIC	N-GSO	A	API/A	5631	2664
105500717	USA		CP1	N-GSO	N	PART	2	2640
110500002	USA		CP6	N-GSO	N	PART	2	2692
90504402	USA		CRRES	N-GSO	N	PART	2	2166
110540475	USA		CUCU	N-GSO	A	API/A	6430	2692
111540313	USA		CYGNUS	N-GSO	A	API/A	6897	2699
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	2704
90504403	USA		ERBS	N-GSO	N	PART	2	2573
111520020	USA		FALCONSAT	N-GSO	C	CR/C	2914	2701
94500029	USA		FAST	N-GSO	N	PART	2	2591
105500618	USA		FORTE	N-GSO	N	PART	2	2607
98500031	USA		FUSE	N-GSO	N	PART	2	2591
100500183	USA		GALEX	N-GSO	N	PART	2	2591
105540446	USA		GENESAT	N-GSO	A	API/A	3830	2554
106500167	USA		GLAST	N-GSO	N	PART	2	2627
105500392	USA		GLORY	N-GSO	N	PART	2	2702
111500016	USA		GPM	N-GSO	N	PART	2	2703
110500128	USA		GRAIL	N-GSO	N	PART	2	2694
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
111540429	USA		HIBLEO-2FL2	N-GSO	A	API/A	6985	2703
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
101500582	USA		INTNL SPACE STATION	N-GSO	N	PART	2	2592
96500515	USA		INTNL SPACE STN ACS	N-GSO	N	PART	2	2592
96500516	USA		INTNL SPACE STN SGS	N-GSO	N	PART	2	2592
105500024	USA		ION	N-GSO	N	PART	2	2630
98500030	USA		ISS SSCS	N-GSO	N	PART	2	2592
109500265	USA		ISS-COTS1	N-GSO	N	PART	2	2699
110540476	USA		ISS-CUCU	N-GSO	A	API/A	6431	2692
111540174	USA		ISS-ORION	N-GSO	A	API/A	6795	2707
94500123	USA		ISTP WIND	N-GSO	N	PART	2	2592
110540211	USA		JMR	N-GSO	A	API/A	6205	2682

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109500197	USA		JUNO	N-GSO	N	PART	2	2707
110540250	USA		JWST	N-GSO	A	API/A	6251	2685
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
110500103	USA		LDCM	N-GSO	N	PART	2	2692
95500068	USA		LEOTELCOM-1	N-GSO	N	PART	2	2593
93520156	USA		LEOTELCOM-2	N-GSO	C	CR/C	317	2529
101500556	USA		LEOTELCOM-3	N-GSO	N	PART	2	2593
96520552	USA		LEOTELCOM-5	N-GSO	C	RES46/C	310	2302
107500413	USA		LRO	N-GSO	N	PART	2	2689
101500002	USA		MARS 2001 ORBITER	N-GSO	N	PART	2	2593
96500378	USA		MARS GLOBAL SURVEYOR	N-GSO	N	PART	2	2593
106540547	USA		MAST	N-GSO	A	API/A	4363	2584
110540768	USA		MAVEN	N-GSO	A	API/A	6509	2697
105540399	USA		MER	N-GSO	A	API/A	3736	2570
105500001	USA		MEROPE	N-GSO	N	PART	2	2632
102500024	USA		MESSENGER	N-GSO	N	PART	2	2593
94500313	USA		MICROLAB-1	N-GSO	N	PART	2	2593
107520118	USA		MIDSTAR-1	N-GSO	C	CR/C	2111	2633
110500294	USA		MMS	N-GSO	N	PART	2	2699
104500107	USA		MRO	N-GSO	N	PART	2	2584
108500627	USA		MSL	N-GSO	N	PART	2	2684
96520043	USA		MSSLEO-3	N-GSO	C	RES46/C	383	2309
105500120	USA		MTI	N-GSO	N	PART	2	2607
108500792	USA		NANOSAIL-D	N-GSO	N	PART	2	2665
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
111540551	USA		NIRIS	N-GSO	A	API/A	7041	2705
98500127	USA		NMP/EO-1	N-GSO	N	PART	2	2700
107520043	USA		NOAA N	N-GSO	C	CR/C	1943	2616
102500348	USA		NOAA-KLM	N-GSO	N	PART	2	2613
110500216	USA		NPOESS	N-GSO	N	PART	2	2709
105500436	USA		NPP	N-GSO	N	PART	2	2673
110500102	USA		NUSTAR	N-GSO	N	PART	2	2695
106500003	USA		OCO	N-GSO	N	PART	2	2607
111500081	USA		OCO-2	N-GSO	N	PART	2	2708
111540175	USA		ORION	N-GSO	A	API/A	6796	2707
90504613	USA		OSCAR-7	N-GSO	N	PART	2	0
90504614	USA		OSCAR-8	N-GSO	N	PART	2	0
108540735	USA		OSTM	N-GSO	A	API/A	5500	2682
98500199	USA		P-197-1	N-GSO	N	PART	2	2613
95500118	USA		P92-1	N-GSO	N	PART	2	2593
95500119	USA		P92-2	N-GSO	N	PART	2	2593
90504615	USA		PAM	N-GSO	N	PART	2	2573
106500336	USA		PHOENIX	N-GSO	N	PART	2	2637
101500267	USA		PICASSO	N-GSO	N	PART	2	2594
90504617	USA		PIONEER-10	N-GSO	N	PART	2	2580

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
109500198	USA		RBSP	N-GSO	N	PART	2	2671
105540383	USA		RINCON1	N-GSO	A	API/A	3716	2549
105540382	USA		SACRED	N-GSO	A	API/A	3715	2549
93500150	USA		SAMPEX	N-GSO	N	PART	2	2594
90504632	USA		SAR	N-GSO	N	PART	2	2590
104500335	USA		SDO	N-GSO	N	PART	2	2669
102500307	USA		SIRTF	N-GSO	N	PART	2	2594
111540312	USA		SMAP	N-GSO	A	API/A	6896	2699
101500186	USA		SORCE	N-GSO	N	PART	2	2594
90504637	USA		SPACE SHUTTLE	N-GSO	N	PART	2	2608
90504855	USA		SPACE SHUTTLE EMU	N-GSO	N	PART	2	2573
90504854	USA		SPACE SHUTTLE EVA	N-GSO	N	PART	2	2573
98500029	USA		SPACE SHUTTLE SSCS	N-GSO	N	PART	2	2594
99500159	USA		SPOT-4(POAM)	N-GSO	N	PART	2	2451
90504642	USA		ST	N-GSO	N	PART	2	2595
90504858	USA		ST OMNI	N-GSO	N	PART	2	2595
104500386	USA		STEREO	N-GSO	N	PART	2	2586
95500357	USA		SWAS	N-GSO	N	PART	2	2594
101500156	USA		SWIFT	N-GSO	N	PART	2	2595
105500023	USA		THEMIS	N-GSO	N	PART	2	2605
110500129	USA		THEMIS-LUNAR	N-GSO	N	PART	2	2693
98500155	USA		TIMED	N-GSO	N	PART	2	2595
92540096	USA		TOMS-EP	N-GSO	A	AR11/A	855	2215
90504645	USA		TRANSIT	N-GSO	N	PART	2	0
96500514	USA		TRMM	N-GSO	N	PART	2	2595
106540173	USA		USAKA-H1	N-GSO	A	API/A	4125	2575
98520759	USA		USAMEO-4	N-GSO	C	CR/C	1658	2562
100500337	USA		USASAT-28C	N-GSO	N	PART	2	2633
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	2674
106540139	USA		USAVKA-H1	N-GSO	A	API/A	4109	2574
109500487	USA		USCLOUDSAT	N-GSO	N	PART	2	2677
105540378	USA		USCNOFS	N-GSO	A	API/A	3711	2549
105500620	USA		USCP	N-GSO	N	PART	2	2660
96500158	USA		USCSID-P	N-GSO	N	PART	2	2646
104500103	USA		USGGR-HEO	N-GSO	N	PART	2	2595
104500104	USA		USGGR-LEO	N-GSO	N	PART	2	2595
105500621	USA		USKL	N-GSO	N	PART	2	2636
108520122	USA		USKW	N-GSO	C	CR/C	2319	2653
95500287	USA		USLL-HEO	N-GSO	N	PART	2	2596
95500288	USA		USLL-LEO	N-GSO	N	PART	2	2596
109500266	USA		USNFR	N-GSO	N	PART	2	2673
109520004	USA		USPOJOAQUE	N-GSO	C	CR/C	2405	2668
98500254	USA		USPOL	N-GSO	N	PART	2	2596
110520280	USA		USRSR	N-GSO	C	CR/C	2729	2705
108520026	USA		USSTP-1	N-GSO	C	CR/C	2146	2636
106500268	USA		USTRO-1	N-GSO	N	PART	2	2608

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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	2662
96500376	USA		XTE	N-GSO	N	PART	2	2691
110540467	VTN		VNREDSAT-1	N-GSO	A	API/A	6429	2692



## 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	ntwk_org	sat_name	long_nom
105552008	ARS	ARB	ARABSAT BSS 6D	11
105554008	ARS	ARB	ARABSAT BSS 6D	11
105554006	ARS	ARB	ARABSAT BSS 6E	34.5
105552006	ARS	ARB	ARABSAT BSS 6E	34.5
105554007	ARS	ARB	ARABSAT BSS 6F	44.5
105552007	ARS	ARB	ARABSAT BSS 6F	44.5
111552001	ARS	ARB	ARABSAT BSS-26E	26
111554001	ARS	ARB	ARABSAT BSS-26E	26
100551614	ARS	ARB	ARABSAT-BSS1	26
100551625	ARS	ARB	ARABSAT-BSS1	26
100551030	ARS	ARB	ARABSAT-BSS1	26
100551015	ARS	ARB	ARABSAT-BSS1	26
100552003	ARS	ARB	ARABSAT-BSS1A	26
100554003	ARS	ARB	ARABSAT-BSS1A	26
100552004	ARS	ARB	ARABSAT-BSS1B	26
100554004	ARS	ARB	ARABSAT-BSS1B	26
105552002	ARS	ARB	ARABSAT-VA30.5E	30.5
105554002	ARS	ARB	ARABSAT-VA30.5E	30.5
109552017	ARS	ARB	ARABSAT-VB17E	17
109554017	ARS	ARB	ARABSAT-VB17E	17
106554003	ARS	ARB	ARABSAT-VB26E	26
106552003	ARS	ARB	ARABSAT-VB26E	26
105552001	ARS	ARB	ARABSAT-VC20E	20
105554001	ARS	ARB	ARABSAT-VC20E	20
104554003	AUS		AUSSAT C 156E BSS	156
104552007	AUS		AUSSAT C 156E BSS	156
110554004	AUS		AUSSAT E 160E BSS	160
110552004	AUS		AUSSAT E 160E BSS	160
110555005	B		B-SAT-3A-1	-45.1
112555001	B		B-SAT-3A-2	-44.9
110555004	B		B-SAT-3C	-70
112555003	B		B-SAT-3Q	-61
111555008	BOL		BOLSAT BSS	-87.2
112552007	BUL		BULSAT-BSS-1.2W-W	1.9
110552025	BUL		BULSAT-BSS-1.2W-W	1.9
110554025	BUL		BULSAT-BSS-1.2W-W	1.9
96555002	CAN		CAN-BSS1	-82

ntc_id	adm	ntwk_org	sat_name	long_nom
106555001	CAN		CAN-BSS1X	-82
96555003	CAN		CAN-BSS2	-91.1
106555002	CAN		CAN-BSS2X	-91.1
96555010	CAN		CAN-BSS3	-72.7
96555007	CAN		CAN-BSS4	-129
109555001	CAN		CAN-BSS57 (138W)	-138
103555006	CAN		CAN-BSS6	-72.7
105555004	CAN		CAN-BSS7	-129
96552001	CHN		ASIASAT-ABS	122
109552019	CHN		ASIASAT-BSS-C1	105.5
98552002	CHN		ASIASAT-DTH-A	122
104552014	CHN		ASIASAT-DTH-A1	122.2
104554014	CHN		ASIASAT-DTH-A1	122.2
112552011	CHN		CHNBSAT-101.4E	101.4
112554011	CHN		CHNBSAT-101.4E	101.4
112552014	CHN		CHNBSAT-125.7E	125.7
112554014	CHN		CHNBSAT-125.7E	125.7
111552023	CHN		CHNBSAT-134E	134
111554023	CHN		CHNBSAT-134E	134
111552022	CHN		CHNBSAT-62E	62
111554022	CHN		CHNBSAT-62E	62
103552005	CHN		CHNBSAT-92.2E	92.2
103554005	CHN		CHNBSAT-92.2E	92.2
109552020	CYP		KYPROS-SAT-4	39
109554020	CYP		KYPROS-SAT-4	39
110552005	D		EUROPE*STAR-BSS-45E	45
112554012	D		EUROPESTAR-45E-BSSA	45
100551033	E		HISPASAT 2U3	-30
100551606	E		HISPASAT 2U3	-30
100551040	E		HISPASAT 2U3	-30
100551628	E		HISPASAT 2U3	-30
111552002	E		HISPASAT-6A	-26
111554002	E		HISPASAT-6A	-26
111552019	E		HISPASAT-7A	-36
111554019	E		HISPASAT-7A	-36
99554001	EGY		NILESAT-102	-7
99552001	EGY		NILESAT-102	-7
105554004	EGY		NILESAT-103	-7
105552004	EGY		NILESAT-103	-7
100551613	EGY		NILESAT-1S	-7
100551013	EGY		NILESAT-1S	-7
112555008	F		ASAT BSS W090	-90
109554031	F		F-SAT-E-BSS-12W	-12
109552031	F		F-SAT-E-BSS-12W	-12
111554010	F		F-SAT-E-BSS-13E	13

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111552010	F		F-SAT-E-BSS-13E	13
109554035	F		F-SAT-E-BSS-16E	16
109552035	F		F-SAT-E-BSS-16E	16
109552032	F		F-SAT-E-BSS-18W	-18
109554032	F		F-SAT-E-BSS-18W	-18
109554004	F		F-SAT-E-BSS-70.5E	70.5
109552004	F		F-SAT-E-BSS-70.5E	70.5
109554005	F		F-SAT-E-BSS-73.5E	73.5
109552005	F		F-SAT-E-BSS-73.5E	73.5
109552006	F		F-SAT-E-BSS-76E	76
109554006	F		F-SAT-E-BSS-76E	76
105552012	F		F-SAT-E-BSS-7W	-7
105554012	F		F-SAT-E-BSS-7W	-7
109554007	F		F-SAT-E-BSS-80.5E	80.5
109552007	F		F-SAT-E-BSS-80.5E	80.5
109554008	F		F-SAT-E-BSS-83.5E	83.5
109552008	F		F-SAT-E-BSS-83.5E	83.5
109552009	F		F-SAT-E-BSS-86E	86
109554009	F		F-SAT-E-BSS-86E	86
109554010	F		F-SAT-E-BSS-88.5E	88.5
109552010	F		F-SAT-E-BSS-88.5E	88.5
100551034	F		RADIOSAT-5-5A	-7
100551629	F		RADIOSAT-5-5A	-7
97552056	F		RADIOSAT-5C	-7
97554058	F		RADIOSAT-5C	-7
97552010	F	EUT	EUTELSAT B-10E	10
97554010	F	EUT	EUTELSAT B-10E	10
100551605	F	EUT	EUTELSAT B-13E	13
95554005	F	EUT	EUTELSAT B-13E	13
95552004	F	EUT	EUTELSAT B-13E	13
100551006	F	EUT	EUTELSAT B-13E	13
100552005	F	EUT	EUTELSAT B-36E	36
100554005	F	EUT	EUTELSAT B-36E	36
100551608	F	EUT	EUTELSAT B-36E	36
95552005	F	EUT	EUTELSAT B-36E	36
100552006	F	EUT	EUTELSAT B-48.2E	48.2
100554006	F	EUT	EUTELSAT B-48.2E	48.2
95552006	F	EUT	EUTELSAT B-48E	48
95554007	F	EUT	EUTELSAT B-48E	48
101552015	F	EUT	EUTELSAT B-9E	9
101554013	F	EUT	EUTELSAT B-9E	9
103554010	G		AM-SAT AF3 BSS	51
103552010	G		AM-SAT AF3 BSS	51
109554024	G		AM-SAT AF3 BSS MOD-A	51
109552024	G		AM-SAT AF3 BSS MOD-A	51

ntc_id	adm	ntwk_org	sat_name	long_nom
10555002	G		BERMUDASAT-1	-96.2
96552021	G		INTELSAT KUEXT 157E	157
96555016	G		INTELSAT KUEXT 304.5	-55.5
97555003	G		INTELSAT KUEXT 304.5	-55.5
98555008	G		INTELSAT KUEXT 304.5	-55.5
96552015	G		INTELSAT KUEXT 60E	60
96552018	G		INTELSAT KUEXT 66E	66
105552013	G		INTELSAT KUEXT 66E	66
111555002	G		IOMSAT-S21	-86.45
111555003	G		IOMSAT-S22	-76.9
112555009	G		UKBSS-50W	-50
107552002	G		UKDIGISAT-4A	-33.5
107554002	G		UKDIGISAT-4A	-33.5
110552007	G		UKDIGISAT-4B	-33.5
110554007	G		UKDIGISAT-4B	-33.5
112552004	G		UKPAC BSS-1	172
110552003	G		USAT-148E	148
110554003	G		USAT-148E	148
111555006	G		USAT-64W	-64
112555005	G		USAT-67W	-67
112555004	G		USAT-86.5W	-86.5
109555002	G		USAT-S1 MOD-B	-105.5
109555006	G		USAT-S2 MOD-B	-114.5
106555007	G		USAT-S3 MOD-C	-86.5
106555011	G		USAT-S3 MOD-D	-86.5
109555003	G		USAT-S4 MOD-A	-68.5
109555008	G		USAT-S4 MOD-B	-68.5
109555007	G		USAT-S5 MOD-A	-66.3
106555003	G		USAT-S8	-133.5
107554017	GRC		GRC15002	39
107552017	GRC		GRC15002	39
111555001	HOL		BSSNET3-95W	-95.15
110554014	HOL		NSS-BSS 100E	100
110552014	HOL		NSS-BSS 100E	100
111552004	HOL		NSS-BSS 104E	104
111554004	HOL		NSS-BSS 104E	104
108554010	HOL		NSS-BSS 108.2E	108.2
108552010	HOL		NSS-BSS 108.2E	108.2
108554013	HOL		NSS-BSS 113.5E	113.5
108552013	HOL		NSS-BSS 113.5E	113.5
111554018	HOL		NSS-BSS 113E	113
111552018	HOL		NSS-BSS 113E	113
109555005	HOL		NSS-BSS 125W	-125
110554002	HOL		NSS-BSS 130E	130
110552002	HOL		NSS-BSS 130E	130

ntc_id	adm	ntwk_org	sat_name	long_nom
110554010	HOL		NSS-BSS 134E	134
110552010	HOL		NSS-BSS 134E	134
110554008	HOL		NSS-BSS 142E	142
110552008	HOL		NSS-BSS 142E	142
107555002	HOL		NSS-BSS 143.5W	-143.5
112552016	HOL		NSS-BSS 40.5W	-40.5
112554016	HOL		NSS-BSS 40.5W	-40.5
112552015	HOL		NSS-BSS 47.5W	-47.5
112554015	HOL		NSS-BSS 47.5W	-47.5
109552013	HOL		NSS-BSS 50.75E	50.75
109554013	HOL		NSS-BSS 50.75E	50.75
110554013	HOL		NSS-BSS 57E	57
110552013	HOL		NSS-BSS 57E	57
110555002	HOL		NSS-BSS 58W	-58
106555005	HOL		NSS-BSS 59W	-59
106555004	HOL		NSS-BSS 78W	-78
109552012	HOL		NSS-BSS 95E	95
109554012	HOL		NSS-BSS 95E	95
111554034	HOL		NSS-BSS-G2 108.2E	108.2
111552034	HOL		NSS-BSS-G2 108.2E	108.2
110555003	HOL		NSS-BSS-G2 78W	-78
105555001	HOL		SF_BSS5	-114.5
109552033	I		INTERACT	9
109554033	I		INTERACT	9
109554002	IRN		IRANDBS2	34
109554001	IRN		IRANDBS2	34
109552003	IRN		IRANDBS2	34
109552002	IRN		IRANDBS2	34
109552001	IRN		IRANDBS2	34
109554003	IRN		IRANDBS2	34
112552002	IRN		IRANDBS3	12.5
112554002	IRN		IRANDBS3	12.5
96554047	IRN		IRNDBS-2	26
96552042	IRN		IRNDBS-2	26
111552003	ISR		AMS-BSS-17E	17
111554003	ISR		AMS-BSS-17E	17
111554012	ISR		AMS-BSS-23E	23
111552012	ISR		AMS-BSS-23E	23
111552021	ISR		AMS-BSS-26W	-26
111554021	ISR		AMS-BSS-26W	-26
111554031	ISR		AMS-BSS-33W	-33
111552031	ISR		AMS-BSS-33W	-33
111554030	ISR		AMS-BSS-43E	43
111552030	ISR		AMS-BSS-43E	43
108552008	ISR		AMS-BSS-4W	-4

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108554008	ISR		AMS-BSS-4W	-4
108552009	ISR		AMS-BSS-65E	65
108554009	ISR		AMS-BSS-65E	65
111552024	ISR		AMS-BSS-B1-4W	-4
111554024	ISR		AMS-BSS-B1-4W	-4
112552013	ISR		AMS-BSS-C1-65E	65
112554013	ISR		AMS-BSS-C1-65E	65
102552002	J		NB-SAT-109.85AA	109.85
102552005	J		NB-SAT-109.85AA	109.85
102552006	J		NB-SAT-110AA	110
102552003	J		NB-SAT-110AA	110
111554006	J		NB-SAT-128E	128
111552006	J		NB-SAT-128E	128
100554048	J		TAIKI-109.65-34.5	109.65
100552056	J		TAIKI-109.65-34.5	109.65
111552013	KOR		KOREASAT-116E BSS	116
111554013	KOR		KOREASAT-116E BSS	116
100551401	KOR		KOREASAT-2	113
100551014	KOR		KOREASAT-2	113
96554029	KOR		KOREASAT-3	116
96552029	KOR		KOREASAT-3	116
100551623	LAO		LSTAR4B	126
100551029	LAO		LSTAR4B	126
100551004	LUX		DBL	19.2
100551609	LUX		DBL	19.2
93552003	LUX		DBL	19.2
94552006	LUX		DBL-24.2E	23.5
94554006	LUX		DBL-24.2E	23.5
95552016	LUX		DBL-24.2E	23.5
100551610	LUX		DBL-28.2E	28.2
100551007	LUX		DBL-28.2E	28.2
94552009	LUX		DBL-31.5E	31.5
94554009	LUX		DBL-31.5E	31.5
104554004	LUX		DBL-G3-19.2E	19.2
104552003	LUX		DBL-G3-19.2E	19.2
106552001	LUX		DBL-G3-21.5E	21.5
106554001	LUX		DBL-G3-21.5E	21.5
104552004	LUX		DBL-G3-23.5E	23.5
104554005	LUX		DBL-G3-23.5E	23.5
104552005	LUX		DBL-G3-28.2E	28.2
104554006	LUX		DBL-G3-28.2E	28.2
104552006	LUX		DBL-G3-31.5E	31.5
104554007	LUX		DBL-G3-31.5E	31.5
105554003	LUX		DBL-G3-7W	-7
105552003	LUX		DBL-G3-7W	-7

ntc_id	adm	ntwk_org	sat_name	long_nom
109554016	LUX		DBL-G4-16E	16
109552016	LUX		DBL-G4-16E	16
107552010	LUX		DBL-G4-19.2E	19.2
109554026	LUX		DBL-G4-20W	-20
109552026	LUX		DBL-G4-20W	-20
107552011	LUX		DBL-G4-21.5E	21.5
107552012	LUX		DBL-G4-23.5E	23.5
107554009	LUX		DBL-G4-24W	-24
107552009	LUX		DBL-G4-24W	-24
107552013	LUX		DBL-G4-28.2E	28.2
107554014	LUX		DBL-G4-31.5E	31.5
107552014	LUX		DBL-G4-31.5E	31.5
108554014	LUX		DBL-G4-31E	31
108552014	LUX		DBL-G4-31E	31
107554008	LUX		DBL-G4-37.2W	-37.2
107552008	LUX		DBL-G4-37.2W	-37.2
109552027	LUX		DBL-G4-42E	42
109554027	LUX		DBL-G4-42E	42
109554028	LUX		DBL-G4-47E	47
109552028	LUX		DBL-G4-47E	47
111552027	LUX		DBL-G5-21.5E	21.5
110554030	LUX		DBL-G5-28.5E	28.5
110552030	LUX		DBL-G5-28.5E	28.5
111552008	LUX		DBL-G5-2E	2
111554008	LUX		DBL-G5-2E	2
111554016	LUX		DBL-G5-52.2E	52.2
111552016	LUX		DBL-G5-52.2E	52.2
111552007	LUX		DBL-G5-83E	83
111554007	LUX		DBL-G5-83E	83
111552020	LUX		DBL-G6-83E	83
111552032	MCO		MCO-BSS-2E	2
111554032	MCO		MCO-BSS-2E	2
105554010	MCO		MCO-BSS-40.5W	-40.5
105552010	MCO		MCO-BSS-40.5W	-40.5
105554009	MCO		MCO-BSS-52E	52
105552009	MCO		MCO-BSS-52E	52
109554034	MCO		MCO-BSS-52EA	52
109552034	MCO		MCO-BSS-52EA	52
111552011	MCO		MCO-BSS-52EAP	52
111554011	MCO		MCO-BSS-52EAP	52
96555004	MEX		MEX-TDH1	-77
106555010	MEX		QUETZSAT-77	-77
111554009	MLA		MEASAT-91.5E-BSS	91.5
111552009	MLA		MEASAT-91.5E-BSS	91.5
108554002	MNE		MNESAT	-24

ntc_id	adm	ntwk_org	sat_name	long_nom
108552002	MNE		MNESAT	-24
110554001	NOR		BIFROST-0.8W-BSS	-0.8
105552015	NOR		BIFROST-4W-BSS	-4
105554015	NOR		BIFROST-4W-BSS	-4
100551037	NOR		BIFROST-BSS-0.8W-EUR	-0.8
100551632	NOR		BIFROST-BSS-0.8W-EUR	-0.8
100551038	NOR		BIFROST-BSS-0.8W-GLO	-0.8
100551633	NOR		BIFROST-BSS-0.8W-GLO	-0.8
100551035	NOR		BIFROST-BSS-0.8W-NOR	-0.8
100551631	NOR		BIFROST-BSS-0.8W-NOR	-0.8
100551630	NOR		BIFROST-BSS-0.8W-NOR	-0.8
100551036	NOR		BIFROST-BSS-0.8W-NOR	-0.8
107552007	NOR		EOE-BSS-2007	-0.8
107552004	PAK		PAK12712	38
107554004	PAK		PAK12712	38
106552002	PAK		PAKSAT 1R-BSS-38E	38
107554006	PAK		PAKSAT-1R-BSS-38.2EA	38.2
107552006	PAK		PAKSAT-1R-BSS-38.2EA	38.2
107554005	PAK		PAKSAT-1R-BSS-38EA	38
107552005	PAK		PAKSAT-1R-BSS-38EA	38
112554003	PNG		AFRISAT BSS-3W	-3
112552003	PNG		AFRISAT BSS-3W	-3
112552010	PNG		NEW DAWN BSS-2	60
111554015	PNG		PACIFISAT BSS-146.1E	146.1
111552015	PNG		PACIFISAT BSS-146.1E	146.1
111552014	PNG		PACIFISAT BSS-148.1E	148.1
111554014	PNG		PACIFISAT BSS-148.1E	148.1
110552011	PNG		PACIFISAT BSS-156E	156
110554011	PNG		PACIFISAT BSS-156E	156
110552012	PNG		PACIFISAT BSS-159E	159
110554012	PNG		PACIFISAT BSS-159E	159
111554005	PNG		PACIFISAT BSS-59E	59
111552005	PNG		PACIFISAT BSS-59E	59
110554023	PNG		PACIFISAT BSS-61E	61
110552023	PNG		PACIFISAT BSS-61E	61
110552019	PNG		PACIFISAT BSS-63E	63
110554019	PNG		PACIFISAT BSS-63E	63
110552020	PNG		PACIFISAT BSS-65E	65
110554020	PNG		PACIFISAT BSS-65E	65
110554021	PNG		PACIFISAT BSS-67E	67
110552021	PNG		PACIFISAT BSS-67E	67
110552022	PNG		PACIFISAT BSS-70E	70
110554022	PNG		PACIFISAT BSS-70E	70
112552005	PNG		PACIFISAT BSSA-59E	59
112552006	PNG		PACIFISAT BSSA-61E	61



ntc_id	adm	ntwk_org	sat_name	long_nom
109554011	PNG		PACIFSAT-B-1	75
109552011	PNG		PACIFSAT-B-1	75
111552028	QAT		QATARSAT1-BSS-7W	-7
111554028	QAT		QATARSAT1-BSS-7W	-7
111552033	QAT		QATARSAT3-BSS-20E	20
111554033	QAT		QATARSAT3-BSS-20E	20
110552029	RUS		AMG-23E-BSS	23
100551016	RUS		RST-1	36
100551615	RUS		RST-1	36
108552011	RUS		RST-1A	36
108554011	RUS		RST-1A	36
100551017	RUS		RST-2	56
100551616	RUS		RST-2	56
108552012	RUS		RST-2A	56
108554012	RUS		RST-2A	56
94552001	RUS		RST-4	110
94554001	RUS		RST-4	110
110552018	RUS	IK	INTERSPUTNIK-119E-B	119.1
110554018	RUS	IK	INTERSPUTNIK-119E-B	119.1
109554021	RUS	IK	INTERSPUTNIK-16W-B	-16
109552021	RUS	IK	INTERSPUTNIK-16W-B	-16
108554003	RUS	IK	INTERSPUTNIK-17E-B	17
108552003	RUS	IK	INTERSPUTNIK-17E-B	17
110554017	RUS	IK	INTERSPUTNIK-26W-B	-26
110552017	RUS	IK	INTERSPUTNIK-26W-B	-26
108554006	RUS	IK	INTERSPUTNIK-47.5W-B	-47.5
108555002	RUS	IK	INTERSPUTNIK-47.5W-B	-47.5
108552006	RUS	IK	INTERSPUTNIK-47.5W-B	-47.5
108554007	RUS	IK	INTERSPUTNIK-50.5E-B	50.5
108552007	RUS	IK	INTERSPUTNIK-50.5E-B	50.5
107552020	RUS	IK	INTERSPUTNIK-74.9E-B	74.9
107554020	RUS	IK	INTERSPUTNIK-74.9E-B	74.9
112554008	RUS	IK	INTERSPUTNIK-74.9EB2	74.9
112552008	RUS	IK	INTERSPUTNIK-74.9EB2	74.9
109552023	RUS	IK	INTERSPUTNIK-78E-B	78
109554023	RUS	IK	INTERSPUTNIK-78E-B	78
109552022	RUS	IK	INTERSPUTNIK-9.5W-B	-9.5
109554022	RUS	IK	INTERSPUTNIK-9.5W-B	-9.5
111555007	RUS	IK	INTERSPUTNIK-97.8W-B	-97.8
109552029	RUS	IK	INTERSPUTNIK-98.5E-B	98.5
109554029	RUS	IK	INTERSPUTNIK-98.5E-B	98.5
95554011	S		SIRIUS-13W	-13
95552009	S		SIRIUS-13W	-13
95554057	S		SIRIUS-13W	-13
107554001	S		SIRIUS-13W-BSS	-13

ntc_id	adm	ntwk_org	sat_name	long_nom
107552001	S		SIRIUS-13W-BSS	-13
100551626	S		SIRIUS-2-BSS	5
100551031	S		SIRIUS-2-BSS	5
100551627	S		SIRIUS-3-BSS	5.2
100551032	S		SIRIUS-3-BSS	5.2
105552016	S		SIRIUS-4.8E-BSS-2	4.8
100551039	S		SIRIUS-4-BSS	5
104554001	S		SIRIUS-5-BSS	4.8
104552001	S		SIRIUS-5-BSS	4.8
107554018	S		SIRIUS-5E-BSS	5
111552017	S		SIRIUS-7-BSS	4.8
111554017	S		SIRIUS-7-BSS	4.8
100551008	S		SIRIUS-W	-13
100551607	S		SIRIUS-W	-13
100551619	TUR		TURKSAT-BSS	42
100551024	TUR		TURKSAT-BSS	42
111552026	TUR		TURKSAT-BSS-50E	50
106554004	UAE		EMARSAT-1	52.5
106552004	UAE		EMARSAT-1	52.5
109552036	UAE		YAHSAT-BSS-110.8E	110.8
109554036	UAE		YAHSAT-BSS-110.8E	110.8
109554018	UAE		YAHSAT-BSS-20W	-20
109552018	UAE		YAHSAT-BSS-20W	-20
111554029	UAE		YAHSAT-BSS2-46E	46
111552029	UAE		YAHSAT-BSS2-46E	46
110552028	UAE		YAHSAT-BSS2-60E	60
110554028	UAE		YAHSAT-BSS2-60E	60
110552024	UAE		YAHSAT-BSS-33W	-33
107554015	UAE		YAHSAT-BSS-46E	46
107552015	UAE		YAHSAT-BSS-46E	46
109552030	UAE		YAHSAT-BSS-52.5E	52.5
109554030	UAE		YAHSAT-BSS-52.5E	52.5
107554019	UAE		YAHSAT-BSS-57E	57
107552019	UAE		YAHSAT-BSS-57E	57
107552016	UAE		YAHSAT-BSS-60E	60
107554016	UAE		YAHSAT-BSS-60E	60
108552004	UAE		YAHSAT-BSS-63E	63
108554004	UAE		YAHSAT-BSS-63E	63
108552001	UAE		YAHSAT-BSS-67.5E	67.5
108554001	UAE		YAHSAT-BSS-67.5E	67.5
108552015	UKR		UKRSAT-BSS-38.2E-G-1	38.2
108554015	UKR		UKRSAT-BSS-38.2E-G-1	38.2
110552015	UKR		UKRSAT-BSS-38.2E-G-2	38.2
110554015	UKR		UKRSAT-BSS-38.2E-G-2	38.2
95555003	USA		USABSS-1	-101.2

ntc_id	adm	ntwk_org	sat_name	long_nom
98555003	USA		USABSS-10	-119
101555003	USA		USABSS-13	-101.2
102555001	USA		USABSS-14	-119
102555004	USA		USABSS-15	-110
104555005	USA		USABSS-16	-110
102555002	USA		USABSS-17	-61.5
103555002	USA		USABSS-18	-119
104555007	USA		USABSS-19	-100.85
99555002	USA		USABSS-1M	-110
99555001	USA		USABSS-1R	-101.2
95555004	USA		USABSS-2	-100.8
105555003	USA		USABSS-21	-101
105555005	USA		USABSS-24	-100.8
106555009	USA		USABSS-26	-110
112555002	USA		USABSS-26	-110
107555001	USA		USABSS-27	-86.5
107552003	USA		USABSS-29	85.15
95555005	USA		USABSS-2A	-100.85
98555006	USA		USABSS-3	-119.2
96555006	USA		USABSS-3	-119.2
108555003	USA		USABSS-30	-110
109555004	USA		USABSS-31	-119
109552015	USA		USABSS-32	50.75
110555001	USA		USABSS-33	-61.5
110552006	USA		USABSS-34	-31.5
110552009	USA		USABSS-35	-29.5
111555004	USA		USABSS-36	-110.1
112555006	USA		USABSS-37	-61.5
96555013	USA		USABSS-4	-118.8
98555004	USA		USABSS-4	-118.8
98555007	USA		USABSS-4	-118.8
97555001	USA		USABSS-5	-109.8
97555002	USA		USABSS-6	-110.2
101555001	USA		USABSS-7A	-119
98555001	USA		USABSS-8	-61.5
98555002	USA		USABSS-9	-148

### 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	ntwk_org	sat_name	long_nom
99558001	ARM		ARM00000	71.4
110559019	ARS	ARB	ARABSAT-AXB14W	-14
109559012	ARS	ARB	ARABSAT-AXB17E	17
107559003	ARS	ARB	ARABSAT-AXB20E	20
112559017	ARS	ARB	ARABSAT-AXB26E	26
107559004	ARS	ARB	ARABSAT-AXB26E	26
112559019	ARS	ARB	ARABSAT-AXB30.5E	30.5
108559001	ARS	ARB	ARABSAT-AXB30E	30.9
105559001	ARS	ARB	ARABSAT-AXB30E	30.9
111559008	ARS	ARB	ARABSAT-AXB34.25E	34.25
110559038	ARS	ARB	ARABSAT-AXB34.5E	34.5
107559005	ARS	ARB	ARABSAT-AXB44.5E	44.5
105558001	AZE		AZE00000	95.9
111559046	BGD		BANGSAT-30B-69E	69
106558001	BLR		BLR00000	64.4
110559032	BLR		BLR-FSS-51.5E	51.5
111559043	BLR		BLR-SAT-FSS-64.4E	64.4
110559004	BLR		BTS-1-30B	64.4
105559017	BUL		BULSAT-30B	56.02
107559002	CAN		CANSAT-23-30B	-107.3
105559066	CAN		CANSAT-24-30B	-111.1
107559007	CAN		CANSAT-24X-30B	-111.1
94559014	CAN		MSAT	-106.5
92559006	CAN		MSAT	-106.5
112559001	CHN		ASIASAT-30B-120	120
112559002	CHN		ASIASAT-30B-122	122
105559060	CHN		ASIASAT-30B-A	122.2
105559061	CHN		ASIASAT-30B-A1	122.2
105559062	CHN		ASIASAT-30B-C	105.5
105559063	CHN		ASIASAT-30B-C1	105.5
105559064	CHN		ASIASAT-30B-E	100.5
105559065	CHN		ASIASAT-30B-E1	100.5
112559004	CHN		CHINASAT-30B-110.5E	110.5
112559005	CHN		CHINASAT-30B-115.5E	115.5
112559006	CHN		CHINASAT-30B-125E	125
112559003	CHN		CHINASAT-30B-87.5E	87.5

ntc_id	adm	ntwk_org	sat_name	long_nom
105559019	CHN		CHINASAT-FSS1	92.2
105559020	CHN		CHINASAT-FSS2	115.5
105559021	CHN		CHINASAT-FSS3	125
105559022	CHN		CHINASAT-FSS4	125.7
105559023	CHN		CHINASAT-FSS5	126
111559005	CHN		CHINASAT-FSS-51.5E	51.5
105559041	CHN		CHINASAT-FSS7	134
105559040	CHN		CHNAP30B-130E	130
105559042	CHN		CHNAP30B-85E	85
105559043	CHN		CHNAP30B-97.5E	97.5
105559044	CHN		CHNFSS-110.5E	110.5
112559012	CHN		ITS-30B-13.5	13.5
103559025	CTI	RAS	RASCOM-1F	2.9
102559002	CTI	RAS	RASCOM-2F	2.9
109559005	CYP		CYP-30B-59.7E	59.7
110559005	CYP		CYP-30B-59.7E-2	59.7
110559018	CYP		KYPROS-SAT-3	39
108558002	CZE		CZE00000	-31.9
99559004	E		HISPASAT-1C	-30
107559010	E		HISPASAT-1E	-30
111559044	E		HISPASAT-1E-M	-30
111559034	E		HISPASAT-5A	-47.5
111559031	E		HISPASAT-6A	-26
111559024	E		HISPASAT-7A	-36
111559032	E		HISPASAT-8A	-97.5
111559036	E		HISPASAT-9A	-74
111559018	F		ASAT FSS W092	-92
111559019	F		ASAT FSS W094	-94
110559007	F		DUNIA-2-FSS-PLAN	8
103559014	F		F-SAT-30B	9
106559003	F		F-SAT-E-30B-110E	110
106559005	F		F-SAT-E-30B-120W	-120
111559011	F		F-SAT-E-30B-13E	13
105559027	F		F-SAT-E-30B-21.5E	21.5
111559001	F		F-SAT-E-30B-33E	33
111559015	F		F-SAT-E-30B-48.2E	48.2
110559033	F		F-SAT-E-30B-53E	53
111559030	F		F-SAT-E-30B-61W	-61
106559009	F		F-SAT-E-30B-61W	-61
110559013	F		F-SAT-E-30B-70.5E	70.5
110559012	F		F-SAT-E-30B-73.5E	73.5
105559006	F		F-SAT-E-30B-7W	-7
110559011	F		F-SAT-E-30B-80.5E	80.5
110559010	F		F-SAT-E-30B-83.5E	83.5
110559009	F		F-SAT-E-30B-86E	86

ntc_id	adm	ntwk_org	sat_name	long_nom
110559008	F		F-SAT-E-30B-88.5E	88.5
101559043	F		GEOSAT-30B	-7
111559013	F		MM FSS 10.25W	-10.25
111559014	F		MM FSS 55.2W	-55.2
99559005	F		TELECOM-30B	-8
101559020	F	EUT	EUTELSAT EXB-10E	10
105559002	F	EUT	EUTELSAT EXB-12.5W	-12.5
106559002	F	EUT	EUTELSAT EXB-13E	13
97559001	F	EUT	EUTELSAT EXB-13E	13
101559001	F	EUT	EUTELSAT EXB-16E	16
101559002	F	EUT	EUTELSAT EXB-28.5E	28.5
101559014	F	EUT	EUTELSAT EXB-33E	33
105559003	F	EUT	EUTELSAT EXB-36E	36
100559005	F	EUT	EUTELSAT EXB-36E	36
101559008	F	EUT	EUTELSAT EXB-37.2W	13
101559016	F	EUT	EUTELSAT EXB-48E	48
107559020	F	EUT	EUTELSAT EXB-64W	-61
101559010	F	EUT	EUTELSAT EXB-64W	-61
101559009	F	EUT	EUTELSAT EXB-64W_C	-61
106559004	F	EUT	EUTELSAT EXB-70.5E	70.5
101559022	F	EUT	EUTELSAT EXB-70.5E	70.5
100559012	F	EUT	EUTELSAT EXB-70.5E	70.5
106559007	F	EUT	EUTELSAT EXB-7E	7
101559042	F	EUT	EUTELSAT EXB-7E	7
100559003	F	EUT	EUTELSAT EXB-7E	7
111559040	G		IOMSAT-45W	-45
109559003	G		MSV-42A-30B-DN	42
109559023	G		MSV-42A-30B-UP	42
109559004	G		MSV-42B-30B-DN	42
109559024	G		MSV-42B-30B-UP	42
107559008	G		MSV-46A-30B	46
109559011	G		MSV-46B-30B	46
112559018	G		UKMMSAT-A4	-33.5
108559011	GRC		HELLAS-SAT-3G	39
106559008	HNG		CERES-1	-4
97559002	HNG		CERES-1	-4
90558100	HNG		HNG00000	-7.5
108559004	HOL		NSS-FSS 108.2E	108.2
111559002	HOL		NSS-FSS 130E	130
111559003	HOL		NSS-FSS 142E	142
107559031	HOL		NSS-FSS 22W	-22
108559003	HOL		NSS-FSS 40.5W	-40.5
107559030	HOL		NSS-FSS 57E	57
107559029	HOL		NSS-FSS 95E	95
111559037	HOL		NSS-FSS-G2 40.5W	-40.5

ntc_id	adm	ntwk_org	sat_name	long_nom
111559033	HOL		NSS-FSS-G2 95E	95
108559009	IND		ESSELSAT-2	98.5
107559011	IND		IND00000	74
89559001	IND		INSAT-2A	83
89559002	IND		INSAT-2B	93.5
89559003	IND		INSAT-2C	74
107559016	IND		INSAT-EXC-114E	114
107559012	IND		INSAT-EXC40.5E	40.5
107559013	IND		INSAT-EXC-49E	49
107559014	IND		INSAT-EXC-59.1E	59.1
107559015	IND		INSAT-EXC-67E	67
109559006	IND		INSAT-EXK82.5E	82.5
95559001	ISR		AMOS-II 4W	-4
110559017	ISR		AMS-30B-17E	17
111559009	ISR		AMS-30B-23E	23
111559022	ISR		AMS-30B-26W	-26
111559038	ISR		AMS-30B-33W	-33
111559039	ISR		AMS-30B-43E	43
110559024	ISR		AMS-30B-4W	-4
109559008	ISR		AMS-30B-65E	65
111559045	ISR		AMS-30B-82.5E	82.5
110559021	ISR		AMS-30B-C-65E	65
104558002	KAZ		KAZ00000	58.5
110559035	KAZ		KAZSAT-30B-58.5E	58.5
97558001	KGZ		KGZ00000	64.6
105559007	KOR		KORSAT-103.2	103.2
105559008	KOR		KORSAT-112.95	112.95
105559009	KOR		KORSAT-116.05	116.05
105559010	KOR		KORSAT-116.2	116.2
105559011	KOR		KORSAT-126.2	126.2
105559012	KOR		KORSAT-128.2	128.2
105559013	KOR		KORSAT-140.2	140.2
105559014	KOR		KORSAT-144	144
105559015	KOR		KORSAT-148.2	148.2
105559016	KOR		KORSAT-151	151
111558001	LBY		LBY00000	28.9
107558001	LTU		LTU00000	-9.3
95559003	LUX		GDL-6	19.2
93559001	LUX		GDL-6	19.2
92559003	LUX		GDL-6	19.2
91559001	LUX		GDL-6	19.2
90559004	LUX		GDL-6	19.2
90558513	LUX		GDL-6	19.2
104559011	LUX		LUX-30B-10	24.2
104559012	LUX		LUX-30B-11	28.2

ntc_id	adm	ntwk_org	sat_name	long_nom
104559013	LUX		LUX-30B-12	31.5
103559010	LUX		LUX-30B-5	19.2
103559011	LUX		LUX-30B-6	23.5
103559012	LUX		LUX-30B-7	28.2
104559010	LUX		LUX-30B-9	19.2
105559035	LUX		LUX-30B-G3-13E	13
105559036	LUX		LUX-30B-G3-16E	16
105559028	LUX		LUX-30B-G3-19.2E	19.2
105559029	LUX		LUX-30B-G3-21.5E	21.5
105559030	LUX		LUX-30B-G3-23.5E	23.5
105559031	LUX		LUX-30B-G3-25.5E	25.5
105559032	LUX		LUX-30B-G3-28.2E	28.2
105559033	LUX		LUX-30B-G3-31E	31
105559037	LUX		LUX-30B-G3-33E	33
105559038	LUX		LUX-30B-G3-45E	45
105559039	LUX		LUX-30B-G3-63E	63
105559034	LUX		LUX-30B-G3-7W	-7
105559045	LUX		LUX-30B-G3-9E	9
107559022	LUX		LUX-30B-G4-19.2E	19.2
109559015	LUX		LUX-30B-G4-20W	-20
107559023	LUX		LUX-30B-G4-21.5E	21.5
107559024	LUX		LUX-30B-G4-23.5E	23.5
107559025	LUX		LUX-30B-G4-28.2E	28.2
109559009	LUX		LUX-30B-G4-2E	2
109559010	LUX		LUX-30B-G4-31.5E	31.5
107559026	LUX		LUX-30B-G4-31E	31
109559016	LUX		LUX-30B-G4-42E	42
109559017	LUX		LUX-30B-G4-47E	47
112559011	LUX		LUX-30B-G5-52.2E	52.2
112559010	LUX		LUX-30B-G5-67W	-67
110559030	LUX		LUX-30B-G5-7W	-7
105559005	MCO		MCO-FSS-40.5W	-40.5
105559004	MCO		MCO-FSS-52E	52
110559034	MCO		MCO-FSS-52EA	52
112559015	MEX		MEXSAT 109.2 AP30B	-109.2
111559041	MEX		MEXSAT 113 AP30B	-113
112559016	MEX		MEXSAT 116.8 AP30B	-116.8
111559010	MLA		MEASAT-91.5E-30B	91.5
107559028	MLA		MLA-GOV	78.5
96559009	NOR		BIFROST 2 FSS	-0.8
105559052	NOR		BIFROST-2C-FSS	-0.8
102559001	NOR		BIFROST-3-FSS	-0.8
107559006	NOR		BIFROST-4-FSS	-0.8
90558162	PHL		PHL00000	161
110559022	PNG		AFRISAT 3W-PC	-3



ntc_id	adm	ntwk_org	sat_name	long_nom
110559023	PNG		AFRISAT 3W-PKU	-3
112559014	PNG		NEW DAWN FSS-1	-50
112559020	PNG		NEW DAWN FSS-2	60
109559007	PNG		PACIFISAT1-PC	75
111559017	PNG		PACIFISAT-1-PKU	75
111559042	QAT		QATARSAT-30B-0.9E	0.9
94559002	RUS		CSDRN	95
105559068	RUS		CSDRN-M	95
94559011	RUS		CSSRD-2	77
94559001	RUS		ESDRN	-160
109559001	RUS		EXPRESS-10P	140
111559026	RUS		EXPRESS-4P	40
109559002	RUS		EXPRESS-5P	53
111559025	RUS		EXPRESS-P 146.5	146.5
112559013	RUS		EXPRESS-P_KU 146.5	146.5
92559001	RUS		FOTON-1	-13.5
105559049	RUS		FOTON-1D	-13.5
92559005	RUS		FOTON-2	80
105559050	RUS		FOTON-2D	80
92559002	RUS		FOTON-3	-168
105559051	RUS		FOTON-3D	-168
96559007	RUS		RUSLAN-2	88.1
101559037	RUS		STATSIONAR-D3	35
101559038	RUS		STATSIONAR-D4	45
101559039	RUS		STATSIONAR-D5	85.4
101559040	RUS		STATSIONAR-D6	128
94559012	RUS		VSSRD-2	167
105559069	RUS		VSSRD-2M	167
94559003	RUS		WSDRN	-16
105559067	RUS		WSDRN-M	-16
111559020	RUS		YAMAL-FSS-55E	55
111559021	RUS		YAMAL-FSS-90E	90
108559005	RUS		YAMAL-PK1	49
108559006	RUS		YAMAL-PK2	55
108559007	RUS		YAMAL-PK3	81.75
108559008	RUS		YAMAL-PK4	90
105559054	RUS		ZERKALO	88.1
89559004	RUS		ZSSRD-2	-16
111559029	RUS	IK	INTERSPUTNIK-113W-F	-113
110559025	RUS	IK	INTERSPUTNIK-119E-F	119.1
111559006	RUS	IK	INTERSPUTNIK-156E-F	156
111559007	RUS	IK	INTERSPUTNIK-164E-F	164
110559015	RUS	IK	INTERSPUTNIK-16W-F	-16
110559028	RUS	IK	INTERSPUTNIK-26W-F	-26
110559014	RUS	IK	INTERSPUTNIK-47.5W-F	-47.5

ntc_id	adm	ntwk_org	sat_name	long_nom
111559023	RUS	IK	INTERSPUTNIK-52.5W-F	-52.5
110559029	RUS	IK	INTERSPUTNIK-62.5E-F	62.5
110559026	RUS	IK	INTERSPUTNIK-67.3E-F	67.3
110559027	RUS	IK	INTERSPUTNIK-67.8E-F	67.8
110559016	RUS	IK	INTERSPUTNIK-78E-F	78
111559027	RUS	IK	INTERSPUTNIK-87W-F	-87
111559028	RUS	IK	INTERSPUTNIK-97.8W-F	-97.8
112559009	S		OHO-30B-177E	177
112559008	S		OHO-30B-67.1W	-67.1
96559010	S		SIRIUS-30B	5
109559018	S		SIRIUS-30B-13W	-13
105559047	S		SIRIUS-30B-3E	3
108559002	S		SIRIUS-30B-3E-2	3
105559048	S		SIRIUS-30B-4E	4
103559009	S		SIRIUS-30B-5E	5
105559046	S		SIRIUS-30B-5E-3	5
107559027	S		SIRIUS-30B-5E-4	5
112559007	S		SIRIUS-30B-5E-5	5
111559012	SDN		SUDANSATFSS-1	23.55
90558197	SVK		SVK00000	-19.82
109559019	TUR		TURKSAT-31E-FSS	31
108559010	TUR		TURKSAT-42E-FSS	42
109559020	TUR		TURKSAT-50E-FSS	50
110559037	UAE		YAHSAT-FSS-28W	-28
110559036	UAE		YAHSAT-FSS-45W	-45
110559006	UAE		YAHSAT-FSS-52.5E	52.5
111559004	UAE		YAHSAT-FSS-55W	-55
110559031	UAE		YAHSAT-FSS-60E	60
101558001	UKR		UKR00000	50.5
107559032	UKR		UKR00001	38.2
107559001	USA		MSV-1-30B	-101
109559013	USA		MSV-1-30B-A	-101.3
90558212	USA		USA00000	-101
96559003	USA		USASAT 13I	-45
96559005	USA		USASAT 26G	-58
104559005	USA		USASAT-55E	-43
104558001	UZB		UZB00000	110.5
107559019	VEN		VENESAT-30B	-78
104559003	VTN		VINASAT-FSS-131E-III	131.8
110559002	VTN		VINASAT-FSS-131E-IV	131.8
108558003	VTN		VTN00000	107

## 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
<b>2012</b>	<b>GSO</b>	<b>3993</b>	1688	1264	<b>1041</b>
	<b>non-GSO</b>	<b>545</b>	155	37	<b>353</b>
	<b>TOTAL</b>	<b>4538</b>	1843	1301	<b>1394</b>
<b>2011</b>	<b>GSO</b>	<b>3371</b>	1162	1188	<b>1021</b>
	<b>non-GSO</b>	<b>509</b>	132	37	<b>340</b>
	<b>TOTAL</b>	<b>3880</b>	1294	1225	<b>1361</b>
<b>2010</b>	<b>GSO</b>	<b>3133</b>	966	1115	<b>1052</b>
	<b>non-GSO</b>	<b>495</b>	139	36	<b>320</b>
	<b>TOTAL</b>	<b>3628</b>	1105	1151	<b>1372</b>
<b>2009</b>	<b>GSO</b>	<b>3166</b>	1043	1109	<b>1014</b>
	<b>non-GSO</b>	<b>520</b>	186	36	<b>298</b>
	<b>TOTAL</b>	<b>3686</b>	1229	1145	<b>1312</b>
<b>2008</b>	<b>GSO</b>	<b>3126</b>	1017	1249	<b>860</b>
	<b>non-GSO</b>	<b>438</b>	115	35	<b>288</b>
	<b>TOTAL</b>	<b>3564</b>	1132	1284	<b>1148</b>

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

Total count – 70 administrations

<b>ADM</b>	<b>A</b>	<b>C</b>	<b>N</b>	<b>TOTAL</b>
AFS			1	1
ALG			1	1
ARG	5	1	5	11
ARS	13	13	15	41
ARM	1			1
AUS	8	25	34	67
AUT	1			1
AZE	17	7		24
B	3	20	20	43
BEL	2		3	5
BGD		1		1
BLR	1		1	2
BOL	9	1		10
BUL	1	1		2
CAN	60	46	30	136
CHL			1	1
CHN	219	63	103	385
CLM	2	4	1	7
CTI	19	7	1	27
CYP	16	26	2	44
CZE	8	2		10
D	8	14	18	40
E	7	16	14	37
EGY	37	13	1	51
EST	1			1
F	344	154	127	625
G	97	123	51	271
GRC	1	1	1	3
HNG			1	1
HOL	65	40	32	137
I	7	10	7	24
IND	22	65	46	133
INS	6	15	19	40
IRN	3	16	4	23
IRQ	2			2
ISR	95	22	4	121
J	80	58	104	242
KAZ	2	11	5	18
KOR	11	14	16	41
LAO		1		1
LTU	2			2

<b>ADM</b>	<b>A</b>	<b>C</b>	<b>N</b>	<b>TOTAL</b>
LUX	73	102	9	184
MAU	3	2		5
MCO	3			3
MEX	16	7	8	31
MLA	6	19	12	37
NIG	2	3		5
NOR	21	25		46
NRU	1	3		4
NZL	5	1		6
OMA	5			5
PAK	3	1	4	8
PNG	23	57	1	81
POL	2			2
QAT	77	7		84
ROU	1			1
RUS	42	60	188	290
S	1	4	8	13
SEY	4			4
SNG	8	2	2	12
SUI			2	2
THA	12	3	13	28
TON			7	7
TUR	20	17	10	47
UAE	245	56	8	309
UKR	2	4	2	8
URG		1	1	2
USA	50	133	448	631
VEN	1			1
VTN	41	4	4	49
<b>TOTAL</b>	<b>1842</b>	<b>1301</b>	<b>1395</b>	<b>4538</b>

**ANNEX 5**

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

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

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

<b>Item</b>	<b>Description</b>	<b>Description</b>	<b>Descripción</b>
ntc_id	Numéro d'identification du réseau à satellite	Identification number of the network	BR Número de identificación de la red
adm	Administration notificatrice (voir le Tableau 1 de la Préface à l'adresse : <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a> )	Notifying administration (Refer to Table 1 of the Preface at: <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a> )	Administración notificante (véase el cuadro 1 del Prefacio en: <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a> )
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	A = 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），见： <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a>	Заявляющая администрация (см. таблицу 1 Предисловия по адресу: <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a> )	الإدارة المبلغة (انظر الجدول 1 في المقدمة) في العنوان التالي: <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a>
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