



ITU Radiocommunication Bureau (BR) 2015 Annual Space Report to the STS-16 on the use of the geostationary-satellite orbit (GSO) and other orbits

In the **report of the 45th session of the Scientific and Technical Subcommittee (STS) of COPUOS, § 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 31.12.2015** 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 31.12.2015** 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-16 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 31.12.2015 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
115540752	AFS		NALEDI-10W	-10	A	API/A	10635	2801
115540748	AFS		NALEDI-14E	14	A	API/A	10631	2801
115540753	AFS		NALEDI-16W	-16	A	API/A	10636	2801
115540747	AFS		NALEDI-20E	20	A	API/A	10630	2801
115540746	AFS		NALEDI-26E	26	A	API/A	10629	2801
115540750	AFS		NALEDI-2E	2	A	API/A	10633	2801
115540745	AFS		NALEDI-32E	32	A	API/A	10628	2801
115540744	AFS		NALEDI-38E	38	A	API/A	10627	2801
115540743	AFS		NALEDI-44E	44	A	API/A	10626	2801
115540751	AFS		NALEDI-4W	-4	A	API/A	10634	2801
115540742	AFS		NALEDI-50E	50	A	API/A	10625	2801
115540749	AFS		NALEDI-8E	8	A	API/A	10632	2801
1155401018	ALG		ALGSAT-15W	-15	A	API/A	10946	2810
1155401019	ALG		ALGSAT-24.8W	-24.8	A	API/A	10947	2810
1155401086	ALG		ALGSAT-25	-25	A	API/A	11017	2811
1155401020	ALG		ALGSAT-27.6W	-27.6	A	API/A	10948	2810
1155401085	ALG		ALGSAT-27W	-27	A	API/A	11016	2811
1155401087	ALG		ALGSAT-33	-33	A	API/A	11018	2811
1155401021	ALG		ALGSAT-33.5W	-33.5	A	API/A	10949	2810
113520121	ALG		ALCOMSAT-24.8W	-24.8	C	CR/C	3389	2766
114520218	ALG		ALCOMSAT-27.6W	-27.6	C	CR/C	3672	2804
110520406	ARG		ARSAT-C	-81	C	CR/C	2762	2740
113520066	ARG		ARSAT-D	-81	C	CR/C	3365	2762
112541058	ARG		ARSAT-E	-81	A	API/A	8012	2734
115520101	ARG		ARSAT-F	-91.5	C	CR/C	3809	2804
115520102	ARG		ARSAT-G	-72	C	CR/C	3810	2804
115520103	ARG		ARSAT-H	-38.5	C	CR/C	3811	2804
96500487	ARG		NAHUEL-C	-72	N	PART	2	2586
105500330	ARG		P-P-SAT-1	-81	N	PART	2	2653
113520013	ARM		ARMSAT1	71.4	C	CR/C	3370	2762
90500092	ARS	ARB	ARABSAT 1-B	26	N	PART	2	2760
97500434	ARS	ARB	ARABSAT 2-A	30.5	N	PART	2	2735
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	1	2731
111500061	ARS	ARB	ARABSAT 5B-26E	26	N	PART	1	2731

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
111500210	ARS	ARB	ARABSAT 5C-20E	20	N	PART	2	2744
109520057	ARS	ARB	ARABSAT 5D-17E	17	C	CR/C	2388	2786
111500139	ARS	ARB	ARABSAT 6E-34.5E	34.5	N	PART	1	2731
109520112	ARS	ARB	ARABSAT 7A-30.5E	30.5	C	CR/C	2406	2669
109520112	ARS	ARB	ARABSAT 7A-30.5E	30.5	C	CR/E	441	2669
109520113	ARS	ARB	ARABSAT 7B-26E	26	C	CR/C	2407	2652
109520113	ARS	ARB	ARABSAT 7B-26E	26	C	CR/E	442	2652
109520114	ARS	ARB	ARABSAT 7C-20E	20	C	CR/C	2408	2652
109520114	ARS	ARB	ARABSAT 7C-20E	20	C	CR/E	443	2652
109520115	ARS	ARB	ARABSAT 7D-7.5E	7.5	C	CR/C	2409	2652
109520115	ARS	ARB	ARABSAT 7D-7.5E	7.5	C	CR/E	444	2652
109520116	ARS	ARB	ARABSAT 7E-34.5E	34.5	C	CR/C	2410	2652
109520116	ARS	ARB	ARABSAT 7E-34.5E	34.5	C	CR/E	445	2652
113500044	ARS	ARB	ARABSAT 7F-44.5E	44.5	N	PART	1	2805
109520118	ARS	ARB	ARABSAT 7G-11E	11	C	CR/C	2412	2652
109520118	ARS	ARB	ARABSAT 7G-11E	11	C	CR/E	446	2652
113520014	ARS	ARB	ARABSAT 8A-30.5E	30.5	C	CR/C	3331	2759
113523006	ARS	ARB	ARABSAT 8A-30.5E_1	30.5	C	CR/F	30	2746
113520015	ARS	ARB	ARABSAT 8B-26E	26	C	CR/C	3332	2759
113523007	ARS	ARB	ARABSAT 8B-26E_1	26	C	CR/F	31	2746
113520016	ARS	ARB	ARABSAT 8C-20E	20	C	CR/C	3333	2759
113523008	ARS	ARB	ARABSAT 8C-20E_1	20	C	CR/F	32	2746
113520017	ARS	ARB	ARABSAT 8D-7.5E	7.5	C	CR/C	3334	2759
113523009	ARS	ARB	ARABSAT 8D-7.5E_1	7.5	C	CR/F	33	2746
113520018	ARS	ARB	ARABSAT 8E-34.5E	34.5	C	CR/C	3335	2759
113523010	ARS	ARB	ARABSAT 8E-34.5E_1	34.5	C	CR/F	34	2746
113520019	ARS	ARB	ARABSAT 8F-44.5E	44.5	C	CR/C	3336	2759
113523011	ARS	ARB	ARABSAT 8F-44.5E_1	44.5	C	CR/F	35	2746
113520020	ARS	ARB	ARABSAT 8G-11E	11	C	CR/C	3337	2759
113523012	ARS	ARB	ARABSAT 8G-11E_1	11	C	CR/F	36	2746
113520021	ARS	ARB	ARABSAT 8H-17E	17	C	CR/C	3338	2759
113523013	ARS	ARB	ARABSAT 8H-17E_1	17	C	CR/F	37	2746
112541380	ARS	ARB	ARABSAT 8I-34E	34	A	API/A	8248	2741
113520193	ARS	ARB	ARABSAT 8J-39E	39	C	CR/C	3435	2774
113523039	ARS	ARB	ARABSAT 8J-39E_1	39	C	CR/F	69	2760
113540793	ARS	ARB	ARABSAT 8K-67.1E	67.1	A	API/A	8892	2763
115540097	ARS	ARB	ARABSAT AS-78E	78	A	API/A	9941	2792
115540098	ARS	ARB	ARABSAT AS-81.5E	81.5	A	API/A	9942	2792
115540873	ARS	ARB	ARABSAT-8A-30.5ER	30.5	A	API/A	10758	2810
115540874	ARS	ARB	ARABSAT-8B-26ER	26	A	API/A	10759	2810
115540875	ARS	ARB	ARABSAT-8C-20ER	20	A	API/A	10760	2810
115540878	ARS	ARB	ARABSAT-8D-7.5ER	7.5	A	API/A	10763	2810
115540871	ARS	ARB	ARABSAT-8E-34.5ER	34.5	A	API/A	10756	2810
115540869	ARS	ARB	ARABSAT-8F-44.5ER	44.5	A	API/A	10754	2810
115540877	ARS	ARB	ARABSAT-8G-11ER	11	A	API/A	10762	2810

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
115540876	ARS	ARB	ARABSAT-8H-17ER	17	A	API/A	10761	2810
115540872	ARS	ARB	ARABSAT-8I-34ER	34	A	API/A	10757	2810
115540870	ARS	ARB	ARABSAT-8J-39ER	39	A	API/A	10755	2810
115540868	ARS	ARB	ARABSAT-8K-67.1ER	67.1	A	API/A	10753	2810
115540666	ARS	ARB	ARABSAT-AS-75E	75	A	API/A	10544	2800
115540867	ARS	ARB	ARABSAT-AS-75ER	75	A	API/A	10752	2810
115540866	ARS	ARB	ARABSAT-AS-78ER	78	A	API/A	10751	2810
115540865	ARS	ARB	ARABSAT-AS-81.5ER	81.5	A	API/A	10750	2810
115540665	ARS	ARB	ARABSAT-AS-84.5E	84.5	A	API/A	10543	2800
115540863	ARS	ARB	ARABSAT-AS-84.5ER	84.5	A	API/A	10748	2810
110500087	ARS	ARB	ARABSAT-EXT-C2	26	N	PART	2	2735
108501204	ARS	ARB	ARABSAT-KA-26E	26	N	PART	2	2735
109500199	ARS	ARB	ARABSAT-KA-30.5E	30.5	N	PART	2	2735
107500526	ARS	ARB	ARABSAT-KU-26E	26	N	PART	2	2735
109520338	ARS		SAUDI-FMSS-7-R1	29	C	CR/C	2548	2688
109520339	ARS		STRATSAT-5-R1	41	C	CR/C	2547	2688
115540738	AUS		AUSSAT-G-156E	156	A	API/A	10623	2801
115540737	AUS		AUSSAT-G-160E	160	A	API/A	10624	2801
108520304	AUS		ADF 152E GOVR	152	C	CR/C	2346	2658
110500203	AUS		ADF 156E GOV	156	N	PART	2	2713
108520305	AUS		ADF 160E GOVR	160	C	CR/C	2347	2658
108520306	AUS		ADF 164E GOVR	164	C	CR/C	2348	2658
112500258	AUS		ADF UHF-2	72.1	N	PART	2	2784
112500276	AUS		ADF WEST-2	88	N	PART	2	2744
112500052	AUS		ADF WEST-5	104	N	PART	2	2729
99500259	AUS		ASIABSS	105	N	PART	2	2521
111520161	AUS		AUS-NBN-2	135	C	CR/C	2924	2720
111520162	AUS		AUS-NBN-3	140	C	CR/C	2925	2720
111520163	AUS		AUS-NBN-4	145	C	CR/C	2926	2720
111520164	AUS		AUS-NBN-5	150	C	CR/C	2939	2726
108500604	AUS		AUSSAT B 152E	152	N	PART	1	2747
102500305	AUS		AUSSAT B 152E MOB	152	N	PART	2	2546
102500306	AUS		AUSSAT B 152E MXL	152	N	PART	2	2546
102500358	AUS		AUSSAT B 156E MXL	156	N	PART	2	2533
92500028	AUS		AUSSAT B 156E S	156	N	PART	1	2790
92500021	AUS		AUSSAT B 160E	160	N	PART	2	2744
102500359	AUS		AUSSAT B 160E MXL	160	N	PART	2	2533
92500023	AUS		AUSSAT B 160E NZ	160	N	PART	2	2744
92500024	AUS		AUSSAT B 160E S	160	N	PART	2	2613
100500300	AUS		AUSSAT B 164E	164	N	PART	2	2789
103500076	AUS		AUSSAT B 164E MOB	164	N	PART	2	2746
99500096	AUS		AUSSAT B 164E MXL	164	N	PART	2	2577
104500284	AUS		AUSSAT C 156E FSS	156	N	PART	2	2744
104500282	AUS		AUSSAT C 156E GOV	156	N	PART	2	2689
112500246	AUS		AUSSAT C 156E GOVR	156	N	PART	2	2765

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108501261	AUS		AUSSAT D 156E FSS	156	N	PART	2	2691
111500304	AUS		AUSSAT D 160E FSS	160	N	PART	2	2799
113540606	AUS		AUSSAT F 152E	152	A	API/A	8714	2759
113540607	AUS		AUSSAT F 156E	156	A	API/A	8715	2759
113540608	AUS		AUSSAT F 160E	160	A	API/A	8716	2759
115520120	AUS		AUSSAT F 164E	164	C	CR/C	3822	2805
111520200	AUS		DDSP-1	86	C	CR/C	2935	2726
112500096	AUS		DDSP-104E	104	N	PART	2	2745
108520295	AUS		DDSP-108.5E	108.5	C	CR/C	2344	2658
113500110	AUS		DDSP-2	88	N	PART	2	2756
111520202	AUS		DDSP-4	95	C	CR/C	2937	2726
104500279	AUS		DEF-R-SAT-1A	82	N	PART	2	2795
104500280	AUS		DEF-R-SAT-2A	72	N	PART	2	2795
104500281	AUS		DEF-R-SAT-3A	93	N	PART	2	2795
104500293	AUS		DEF-R-SAT-4B 121.0E	121	N	PART	2	2795
115520145	AUS		DEF-R-SAT-5B	68	C	CR/C	3838	2807
115520146	AUS		DEF-R-SAT-6B	95.6	C	CR/C	3839	2807
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
114540306	AZE		AZERSAT 102E	102	A	API/A	9238	2776
114540307	AZE		AZERSAT 108E	108	A	API/A	9218	2776
114540291	AZE		AZERSAT 10W	-10	A	API/A	9224	2776
114540308	AZE		AZERSAT 114E	114	A	API/A	9239	2776
114540309	AZE		AZERSAT 120E	120	A	API/A	9240	2776
114540310	AZE		AZERSAT 126E	126	A	API/A	9241	2776
114540311	AZE		AZERSAT 132E	132	A	API/A	9242	2776
114540312	AZE		AZERSAT 138E	138	A	API/A	9243	2776
114540313	AZE		AZERSAT 144E	144	A	API/A	9244	2776
114540314	AZE		AZERSAT 154E	154	A	API/A	9245	2776
114540315	AZE		AZERSAT 160E	160	A	API/A	9246	2776
114540316	AZE		AZERSAT 166E	166	A	API/A	9247	2776
114540290	AZE		AZERSAT 16W	-16	A	API/A	9223	2776
114540317	AZE		AZERSAT 172E	172	A	API/A	9248	2776
114540318	AZE		AZERSAT 178E	178	A	API/A	9249	2776
114540292	AZE		AZERSAT 1W	-1	A	API/A	9225	2776
114540289	AZE		AZERSAT 22W	-22	A	API/A	9222	2776
114540288	AZE		AZERSAT 28W	-28	A	API/A	9221	2776
114540287	AZE		AZERSAT 34W	-34	A	API/A	9220	2776
114540293	AZE		AZERSAT 38E	38	A	API/A	9226	2776

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
114540286	AZE		AZERSAT 40W	-40	A	API/A	9219	2776
114520269	AZE		AZERSAT 45E	45	C	CR/C	3720	2810
114523090	AZE		AZERSAT 45E_1	45	C	CR/F	201	2795
114540295	AZE		AZERSAT 47E	47	A	API/A	9217	2776
114540296	AZE		AZERSAT 50.5E	50.5	A	API/A	9228	2776
114540297	AZE		AZERSAT 55E	55	A	API/A	9229	2776
114540298	AZE		AZERSAT 60.5E	60.5	A	API/A	9230	2776
114540299	AZE		AZERSAT 65E	65	A	API/A	9231	2776
114540300	AZE		AZERSAT 70E	70	A	API/A	9232	2776
114540301	AZE		AZERSAT 74.5E	74.5	A	API/A	9233	2776
114540302	AZE		AZERSAT 80.5E	80.5	A	API/A	9234	2776
114540303	AZE		AZERSAT 85E	85	A	API/A	9235	2776
114540304	AZE		AZERSAT 90E	90	A	API/A	9236	2776
110520152	AZE		AZERSAT 95.9	95.9	C	CR/C	2665	2700
114540305	AZE		AZERSAT 96E	96	A	API/A	9237	2776
110520123	AZE		AZERSAT A1	43.2	C	CR/C	2638	2695
110520124	AZE		AZERSAT B1	58.5	C	CR/C	2639	2695
111520481	AZE		AZERSAT C	62	C	CR/C	3105	2741
111520481	AZE		AZERSAT C	62	C	CR/E	290	2741
112520446	AZE		AZERSAT D	44	C	CR/C	3284	2755
112520447	AZE		AZERSAT E	38	C	CR/C	3290	2755
115540754	B		B-SAT-1Z	-20	A	API/A	10637	2801
115540703	B		B-SAT-2N-1	-84	A	API/A	10586	2800
102500255	B		B-SAT E	-63	N	PART	2	2764
107500035	B		B-SAT I	-63	N	PART	2	2686
104500559	B		B-SAT P	-84	N	PART	2	2744
112520279	B		B-SAT-1A-1	-45	C	CR/C	3219	2746
110500015	B		B-SAT-1C	-70	N	PART	2	2705
112520146	B		B-SAT-1C-1	-70	C	CR/C	3176	2744
113520150	B		B-SAT-1F-1	-92	C	CR/C	3395	2768
113540856	B		B-SAT-1F-2	-92	A	API/A	9199	2773
114520002	B		B-SAT-1I	-63	C	CR/C	3557	2791
112520281	B		B-SAT-1I-1	-63	C	CR/C	3230	2750
110500094	B		B-SAT-1J	-68	N	PART	2	2762
109520007	B		B-SAT-1L	-37	C	CR/C	2432	2671
112520147	B		B-SAT-1N-1	-84	C	CR/C	3177	2744
114540374	B		B-SAT-1O-1	-10	A	API/A	9313	2777
113500076	B		B-SAT-1Q	-61	N	PART	2	2774
111500083	B		B-SAT-1R	-65	N	PART	2	2762
112520473	B		B-SAT-1R-1	-65	C	CR/C	3300	2756
114500066	B		B-SAT-1S	-75	N	PART	2	2795
112520282	B		B-SAT-1S-1	-75	C	CR/C	3178	2744
113500050	B		B-SAT-1W	-48	N	PART	2	2797
112520148	B		B-SAT-1W-1	-48	C	CR/C	3179	2744
114520219	B		B-SAT-1W-2	-47.5	C	CR/C	3732	2798

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	2744
101500553	B		SBTS B2	-65	N	PART	2	2744
101500554	B		SBTS B3	-61	N	PART	2	2712
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	2744
111520017	B		SISCOMIS-2A	-65	C	CR/C	2930	2720
98500055	B		SISCOMIS-3	-70	N	PART	2	2744
111520018	B		SISCOMIS-3A	-70	C	CR/C	2931	2720
108500588	B		SISCOMIS-4	-75	N	PART	2	2658
111520019	B		SISCOMIS-4A	-75	C	CR/C	2932	2720
110520161	B		SISCOMIS-8	-48	C	CR/C	2672	2700
108501099	BEL		SATCOM-4/10E	10	N	PART	2	2659
106500280	BEL		SATCOM-4/20.2W	-20.2	N	PART	2	2670
110520463	BGD		BDSAT	102	C	CR/C	2785	2745
	BLR		BTS-10-NP	-18	A			
	BLR		BTS-11-NP	-16	A			
	BLR		BTS-12-NP	-5	A			
	BLR		BTS-13-NP	5	A			
	BLR		BTS-14-NP	7	A			
	BLR		BTS-15-NP	9	A			
	BLR		BTS-16-NP	31.5	A			
	BLR		BTS-17-NP	36	A			
	BLR		BTS-18-NP	45	A			
	BLR		BTS-19-NP	47.5	A			
	BLR		BTS-20-NP	52	A			
	BLR		BTS-21-NP	56	A			
	BLR		BTS-22-NP	57	A			
	BLR		BTS-23-NP	60	A			
	BLR		BTS-24-NP	62	A			
	BLR		BTS-25-NP	70	A			
	BLR		BTS-26-NP	75	A			
115540626	BLR		BTS-3-NP	51.5	A	API/A	10499	2800
	BLR		BTS-4-NP	51.5	A			
	BLR		BTS-5-NP	37.8	A			
	BLR		BTS-6-NP	64.4	A			

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	BLR		BTS-7-NP	19	A			
	BLR		BTS-8-NP	-22	A			
	BLR		BTS-9-NP	-20	A			
112520475	BLR		BTS-2-NP	64.4	C	CR/C	3303	2758
110520208	BOL		TUPAK KATARI-1	-87.2	C	CR/C	2678	2700
	BUL		BUL-KUX-1.9E	1.9	A			
112520195	BUL		BULSAT-1.9E	1.9	C	CR/C	3187	2745
112523006	BUL		BULSAT-1.9E_1	1.9	C	CR/F	9	2736
112523011	BUL		BULSAT-22GHZ	45	C	CR/F	8	2736
115540842	CAN		CAN-BSS-107.3W	-107.3	A	API/A	10725	2808
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	2750
111520060	CAN		ANIK-F2R	-111.1	C	CR/C	2835	2733
111520021	CAN		ANIK-F3R	-118.7	C	CR/C	2796	2716
111520021	CAN		ANIK-F3R	-118.7	C	CR/E	370	2716
105500424	CAN		CAN-BSS1 TTAC	-82	N	PART	2	2650
112500165	CAN		CAN-BSS19	-103	N	PART	2	2799
105500425	CAN		CAN-BSS2 TTAC	-91.1	N	PART	2	2650
108520021	CAN		CAN-BSS31	-91	C	CR/C	2176	2641
114540591	CAN		CAN-BSS31-A	-91	A	API/A	9518	2780
108520022	CAN		CAN-BSS36	-107.3	C	CR/C	2177	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
113540082	CAN		CAN-BSS60	-95	A	API/A	8297	2745
113500089	CAN		CAN-BSS7 TTC	-129	N	PART	2	2759
112500103	CAN		CAN-BSS9	-86.5	N	PART	2	2735
110520024	CAN		CANSAT (109.2W)-CKU	-109.2	C	CR/C	2567	2690
112520434	CAN		CANSAT (91W)-KAV2	-91	C	CR/C	3280	2752
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
110520190	CAN		CANSAT(103W)-XKA	-103	C	CR/C	2691	2701
112520025	CAN		CANSAT(107.3W)-CKUKA	-107.3	C	CR/C	3220	2750
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
110520191	CAN		CANSAT(113W)-XKA	-113	C	CR/C	2692	2701
109520254	CAN		CANSAT(118.7W)-EXTKU	-118.7	C	CR/C	2488	2664

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110520192	CAN		CANSAT(118.7W)-XKA	-118.7	C	CR/C	2673	2700
112520070	CAN		CANSAT(82W)-KA	-82	C	CR/C	3143	2741
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
112500169	CAN		CANSAT-24	-111.1	N	PART	2	2739
113500114	CAN		CANSAT-30	-91	N	PART	2	2766
113500049	CAN		CANSAT-31	-82	N	PART	2	2764
113500078	CAN		CANSAT-34	-107.3	N	PART	1	2797
108520030	CAN		CANSAT-49	-109.2	C	CR/C	2232	2806
108520031	CAN		CANSAT-50	-107.3	C	CR/C	2233	2645
112520440	CAN		CANSAT-61	-15	C	CR/C	3287	2782
112540923	CAN		CANSAT-62	-109.2	A	API/A	7926	2732
112540937	CAN		CANSAT-63	-95.5	A	API/A	7961	2732
115520004	CAN		CANSAT-64	-109.2	C	CR/C	3744	2800
114540709	CAN		CANSAT-65	-111.1	A	API/A	9624	2787
114540710	CAN		CANSAT-66	-82	A	API/A	9625	2787
115520063	CAN		CANSAT-67	-107.3	C	CR/C	3780	2801
115520133	CAN		CANSAT-67TTC	-107.5	C	CR/C	3850	2810
101500597	CAN		MSAT	-106.5	N	PART	2	2559
113540566	CHL		CHILSAT-1	-102	A	API/A	8694	2757
115540658	CHN		ASIASAT-105.5R	105.5	A	API/A	10534	2800
115540735	CHN		ASIASAT-60R	60	A	API/A	10622	2801
1155401070	CHN		CHINASAT-E1	1	A	API/A	11001	2811
1155401079	CHN		CHINASAT-E10	46.5	A	API/A	11010	2811
1155401080	CHN		CHINASAT-E11	51.5	A	API/A	11011	2811
1155401081	CHN		CHINASAT-E12	55.7	A	API/A	11012	2811
1155401082	CHN		CHINASAT-E13	57.5	A	API/A	11013	2811
1155401083	CHN		CHINASAT-E14	63	A	API/A	11014	2811
1155401084	CHN		CHINASAT-E15	69.5	A	API/A	11015	2811
1155401069	CHN		CHINASAT-E16	74.5	A	API/A	11000	2811
1155401068	CHN		CHINASAT-E17	81.5	A	API/A	10999	2811
1155401067	CHN		CHINASAT-E18	85	A	API/A	10998	2811
1155401066	CHN		CHINASAT-E19	87.5	A	API/A	10997	2811
1155401071	CHN		CHINASAT-E2	7.5	A	API/A	11002	2811
1155401065	CHN		CHINASAT-E20	90.5	A	API/A	10996	2811
1155401035	CHN		CHINASAT-E21	92.2	A	API/A	10966	2811
1155401064	CHN		CHINASAT-E22	94	A	API/A	10995	2811
1155401063	CHN		CHINASAT-E23	97.5	A	API/A	10994	2811
1155401062	CHN		CHINASAT-E24	98	A	API/A	10993	2811
1155401061	CHN		CHINASAT-E25	100	A	API/A	10992	2811
1155401060	CHN		CHINASAT-E26	103	A	API/A	10991	2811
1155401059	CHN		CHINASAT-E27	108.5	A	API/A	10990	2811

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1155401058	CHN		CHINASAT-E28	110.5	A	API/A	10989	2811
1155401057	CHN		CHINASAT-E29	113.5	A	API/A	10988	2811
1155401072	CHN		CHINASAT-E3	9.5	A	API/A	11003	2811
1155401056	CHN		CHINASAT-E30	115.5	A	API/A	10987	2811
1155401055	CHN		CHINASAT-E31	118	A	API/A	10986	2811
1155401054	CHN		CHINASAT-E32	120	A	API/A	10985	2811
1155401053	CHN		CHINASAT-E33	123	A	API/A	10984	2811
1155401052	CHN		CHINASAT-E34	125	A	API/A	10983	2811
1155401051	CHN		CHINASAT-E35	126	A	API/A	10982	2811
1155401050	CHN		CHINASAT-E36	130	A	API/A	10981	2811
1155401049	CHN		CHINASAT-E37	134	A	API/A	10980	2811
1155401048	CHN		CHINASAT-E38	136	A	API/A	10979	2811
1155401047	CHN		CHINASAT-E39	138	A	API/A	10978	2811
1155401073	CHN		CHINASAT-E4	13.5	A	API/A	11004	2811
1155401046	CHN		CHINASAT-E40	140	A	API/A	10977	2811
1155401045	CHN		CHINASAT-E41	142	A	API/A	10976	2811
1155401044	CHN		CHINASAT-E42	143	A	API/A	10975	2811
1155401043	CHN		CHINASAT-E43	145	A	API/A	10974	2811
1155401042	CHN		CHINASAT-E44	149	A	API/A	10973	2811
1155401041	CHN		CHINASAT-E45	151	A	API/A	10972	2811
1155401040	CHN		CHINASAT-E46	155	A	API/A	10971	2811
1155401039	CHN		CHINASAT-E47	157	A	API/A	10970	2811
1155401038	CHN		CHINASAT-E48	159	A	API/A	10969	2811
1155401037	CHN		CHINASAT-E49	163	A	API/A	10968	2811
1155401074	CHN		CHINASAT-E5	17	A	API/A	11005	2811
1155401036	CHN		CHINASAT-E50	167	A	API/A	10967	2811
1155401034	CHN		CHINASAT-E51	173	A	API/A	10965	2811
1155401033	CHN		CHINASAT-E52	179	A	API/A	10964	2811
1155401032	CHN		CHINASAT-E53	-3	A	API/A	10963	2811
1155401031	CHN		CHINASAT-E54	-10.5	A	API/A	10962	2811
1155401030	CHN		CHINASAT-E55	-15	A	API/A	10961	2811
1155401029	CHN		CHINASAT-E56	-25	A	API/A	10960	2811
1155401028	CHN		CHINASAT-E57	-27	A	API/A	10959	2811
1155401027	CHN		CHINASAT-E58	-39	A	API/A	10958	2811
1155401026	CHN		CHINASAT-E59	-51	A	API/A	10957	2811
1155401075	CHN		CHINASAT-E6	27	A	API/A	11006	2811
1155401025	CHN		CHINASAT-E60	-67	A	API/A	10956	2811
1155401024	CHN		CHINASAT-E61	-79	A	API/A	10955	2811
1155401088	CHN		CHINASAT-E62	-86.3	A	API/A	11019	2811
1155401089	CHN		CHINASAT-E63	-97	A	API/A	11020	2811
1155401090	CHN		CHINASAT-E64	-101	A	API/A	11021	2811
1155401091	CHN		CHINASAT-E65	-103	A	API/A	11022	2811
1155401092	CHN		CHINASAT-E66	-109	A	API/A	11023	2811
1155401093	CHN		CHINASAT-E67	-115	A	API/A	11024	2811
1155401094	CHN		CHINASAT-E68	-121	A	API/A	11025	2811

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1155401095	CHN		CHINASAT-E69	-127	A	API/A	11026	2811
1155401076	CHN		CHINASAT-E7	33	A	API/A	11007	2811
1155401096	CHN		CHINASAT-E70	-133	A	API/A	11027	2811
1155401097	CHN		CHINASAT-E71	-139	A	API/A	11028	2811
1155401098	CHN		CHINASAT-E72	-145	A	API/A	11029	2811
1155401099	CHN		CHINASAT-E73	-151	A	API/A	11030	2811
1155401100	CHN		CHINASAT-E74	-157	A	API/A	11031	2811
1155401101	CHN		CHINASAT-E75	-163	A	API/A	11032	2811
1155401102	CHN		CHINASAT-E76	-169	A	API/A	11033	2811
1155401103	CHN		CHINASAT-E77	-175	A	API/A	11034	2811
1155401077	CHN		CHINASAT-E8	37	A	API/A	11008	2811
1155401078	CHN		CHINASAT-E9	43.5	A	API/A	11009	2811
115540236	CHN		ITS-13.5E-N	13.5	A	API/A	10105	2798
115540244	CHN		ITS-19.5E-N	19.5	A	API/A	10113	2798
115540243	CHN		ITS-25.5E-N	25.5	A	API/A	10112	2798
115540242	CHN		ITS-31.5E-N	31.5	A	API/A	10111	2798
115540241	CHN		ITS-37.5E-N	37.5	A	API/A	10110	2798
115540240	CHN		ITS-43.5E-N	43.5	A	API/A	10109	2798
115540239	CHN		ITS-49.5E-N	49.5	A	API/A	10108	2798
115540238	CHN		ITS-55.5E-N	55.5	A	API/A	10107	2798
115540237	CHN		ITS-61.5E-N	61.5	A	API/A	10106	2798
115540245	CHN		ITS-7.5E-N	7.5	A	API/A	10114	2798
115540847	CHN		ITS-AR-133.5E	133.5	A	API/A	10731	2809
115540845	CHN		ITS-AR-63.2W	-63.2	A	API/A	10729	2809
115540848	CHN		ITS-AR-64.5E	64.5	A	API/A	10732	2809
115540846	CHN		ITS-AR-77.2W	-77.2	A	API/A	10730	2809
115540849	CHN		ITS-AR-83.5E	83.5	A	API/A	10733	2809
114520191	CHN		APMATSAT1-39.5E	39.5	C	CR/C	3658	2802
114523045	CHN		APMATSAT1-39.5E_1	39.5	C	CR/F	164	2787
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	2714
112540933	CHN		ASIASAT-100.3T	100.3	A	API/A	7931	2732
112520492	CHN		ASIASAT-100.3U	100.3	C	CR/C	3314	2758
114520068	CHN		ASIASAT-100.5T	100.5	C	CR/C	3581	2792
114523019	CHN		ASIASAT-100.5T_1	100.5	C	CR/F	131	2778
112520493	CHN		ASIASAT-100.7U	100.7	C	CR/C	3315	2758
113520010	CHN		ASIASAT-105.3T	105.3	C	CR/C	3360	2761

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114520067	CHN		ASIASAT-105.5T	105.5	C	CR/C	3582	2792
114523018	CHN		ASIASAT-105.5T_1	105.5	C	CR/F	132	2778
115520141	CHN		ASIASAT-118R	118	C	CR/C	3837	2807
115523044	CHN		ASIASAT-118R_1	118	C	CR/F	247	2807
113540563	CHN		ASIASAT-119.1W	-119.1	A	API/A	8691	2756
115540093	CHN		ASIASAT-120R	120	A	API/A	9937	2791
110520266	CHN		ASIASAT-120V	120	C	CR/C	2720	2703
115520030	CHN		ASIASAT-122T	122	C	CR/C	3778	2801
115523021	CHN		ASIASAT-122T_1	122	C	CR/F	215	2801
115540089	CHN		ASIASAT-46R	46	A	API/A	9933	2791
115540090	CHN		ASIASAT-58R	58	A	API/A	9934	2791
113520280	CHN		ASIASAT-60T	60	C	CR/C	3473	2780
113523084	CHN		ASIASAT-60T_1	60	C	CR/F	82	2764
115540091	CHN		ASIASAT-70R	70	A	API/A	9935	2791
115520140	CHN		ASIASAT-71R	71	C	CR/C	3836	2807
115523043	CHN		ASIASAT-71R_1	71	C	CR/F	246	2807
113520189	CHN		ASIASAT-71U	71	C	CR/C	3432	2772
113523038	CHN		ASIASAT-71U_1	71	C	CR/F	63	2759
113540561	CHN		ASIASAT-84.2W	-84.2	A	API/A	8689	2756
115540092	CHN		ASIASAT-90R	90	A	API/A	9936	2791
113540562	CHN		ASIASAT-96.3W	-96.3	A	API/A	8690	2756
98500161	CHN		ASIASAT-A	122	N	PART	2	2714
111520126	CHN		ASIASAT-AAA	122	C	CR/C	2898	2722
112520399	CHN		ASIASAT-AAB	118	C	CR/C	3240	2751
112523019	CHN		ASIASAT-AAB_1	118	C	CR/F	20	2740
99500194	CHN		ASIASAT-AK	122	N	PART	2	2714
104500082	CHN		ASIASAT-AK1	122	N	PART	2	2714
107500475	CHN		ASIASAT-AKS	122	N	PART	2	2714
109520276	CHN		ASIASAT-AKW	122.2	C	CR/C	2503	2684
108500585	CHN		ASIASAT-AKX	122	N	PART	2	2714
112500144	CHN		ASIASAT-AKZ	122.2	N	PART	2	2738
99500281	CHN		ASIASAT-CK	105.5	N	PART	2	2714
100500227	CHN		ASIASAT-CK1	105.5	N	PART	2	2714
107500476	CHN		ASIASAT-CKS	105.5	N	PART	2	2714
109520277	CHN		ASIASAT-CKW	105.5	C	CR/C	2504	2684
108500589	CHN		ASIASAT-CKX	105.5	N	PART	2	2714
112500145	CHN		ASIASAT-CKZ	105.5	N	PART	1	2803
100500365	CHN		ASIASAT-E	100.5	N	PART	2	2714
100500387	CHN		ASIASAT-EK1	100.5	N	PART	2	2714
107500477	CHN		ASIASAT-EKS	100.5	N	PART	2	2714
109520278	CHN		ASIASAT-EKW	100.5	C	CR/C	2505	2684
104500426	CHN		ASIASAT-EKX	100.5	N	PART	2	2714
111500241	CHN		ASIASAT-EKZ	100.5	N	PART	2	2738
110520447	CHN		CGSAT-98W	-94.5	C	CR/C	2779	2716
110520447	CHN		CGSAT-98W	-94.5	C	CR/E	137	2716

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114540407	CHN		CGSAT-A03	-37	A	API/A	9333	2778
114540408	CHN		CGSAT-A04	-23	A	API/A	9334	2778
114540409	CHN		CGSAT-A05	-16	A	API/A	9335	2778
114540410	CHN		CGSAT-A06	-2	A	API/A	9336	2778
114540411	CHN		CGSAT-A07	1	A	API/A	9337	2778
114540412	CHN		CGSAT-A08	13.5	A	API/A	9338	2778
114540413	CHN		CGSAT-A09	35	A	API/A	9339	2778
114540414	CHN		CGSAT-A10	75	A	API/A	9340	2778
114540415	CHN		CGSAT-A11	82.5	A	API/A	9341	2778
114540416	CHN		CGSAT-A12	131	A	API/A	9342	2778
114540417	CHN		CGSAT-A13	142	A	API/A	9343	2778
114540418	CHN		CGSAT-A14	158	A	API/A	9344	2778
107500033	CHN		CHINASAT-1	87.5	N	PART	2	2639
108501257	CHN		CHINASAT-115.5E	115.5	N	PART	1	2791
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	1	2770
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	2777
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	1	2794
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
105500478	CHN		CHINASAT-92.2E	92.2	N	PART	1	2681
109520150	CHN		CHINASAT-A1	9.7	C	CR/C	2442	2673
109520260	CHN		CHINASAT-A5	87.5	C	CR/C	2487	2681
110520008	CHN		CHINASAT-AL1	-8.5	C	CR/C	2553	2689
110520121	CHN		CHINASAT-AL4	-40	C	CR/C	2637	2695
110520009	CHN		CHINASAT-AL9	-86.3	C	CR/C	2554	2689
112540575	CHN		CHINASAT-C1	-86.3	A	API/A	7706	2724
112540584	CHN		CHINASAT-C10	58.5	A	API/A	7715	2724

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112540585	CHN		CHINASAT-C11	71.7	A	API/A	7716	2724
112540586	CHN		CHINASAT-C12	85	A	API/A	7717	2724
112540587	CHN		CHINASAT-C13	87.5	A	API/A	7718	2724
112540588	CHN		CHINASAT-C14	92.2	A	API/A	7719	2724
112540589	CHN		CHINASAT-C15	97.5	A	API/A	7720	2724
112540590	CHN		CHINASAT-C16	105	A	API/A	7721	2724
112540591	CHN		CHINASAT-C17	110.5	A	API/A	7722	2724
112540592	CHN		CHINASAT-C18	115.5	A	API/A	7723	2724
112540593	CHN		CHINASAT-C19	125	A	API/A	7724	2724
112540576	CHN		CHINASAT-C2	-69	A	API/A	7707	2724
112520471	CHN		CHINASAT-C20	126	C	CR/C	3295	2755
112520472	CHN		CHINASAT-C21	136	C	CR/C	3296	2756
112540596	CHN		CHINASAT-C22	142	A	API/A	7727	2724
112540597	CHN		CHINASAT-C23	163	A	API/A	7728	2724
112540598	CHN		CHINASAT-C24	170	A	API/A	7729	2724
112540577	CHN		CHINASAT-C3	-51.5	A	API/A	7708	2724
112540578	CHN		CHINASAT-C4	-40	A	API/A	7709	2724
112540579	CHN		CHINASAT-C5	-17	A	API/A	7710	2724
112540580	CHN		CHINASAT-C6	-8.5	A	API/A	7711	2724
112540581	CHN		CHINASAT-C7	9.7	A	API/A	7712	2724
112540582	CHN		CHINASAT-C8	46.5	A	API/A	7713	2724
112540583	CHN		CHINASAT-C9	51.5	A	API/A	7714	2724
111520040	CHN		CHINASAT-CL11	163	C	CR/C	2816	2706
111520040	CHN		CHINASAT-CL11	163	C	CR/E	162	2706
111520039	CHN		CHINASAT-CL2	51.5	C	CR/C	2815	2706
111520039	CHN		CHINASAT-CL2	51.5	C	CR/E	161	2706
114540104	CHN		CHINASAT-D1	-86.3	A	API/A	9048	2768
114540113	CHN		CHINASAT-D10	58.5	A	API/A	9057	2768
114540114	CHN		CHINASAT-D11	71.7	A	API/A	9058	2768
114520157	CHN		CHINASAT-D-110.5E	110.5	C	CR/C	3644	2799
114523031	CHN		CHINASAT-D-110.5E_1	110.5	C	CR/F	157	2785
115520091	CHN		CHINASAT-D-115.5E	115.5	C	CR/C	3803	2804
115523028	CHN		CHINASAT-D-115.5E_1	115.5	C	CR/F	233	2804
114540115	CHN		CHINASAT-D12	85	A	API/A	9059	2768
114520158	CHN		CHINASAT-D-125E	125	C	CR/C	3645	2799
114523032	CHN		CHINASAT-D-125E_1	125	C	CR/F	158	2785
114540117	CHN		CHINASAT-D14	92.2	A	API/A	9061	2768
114540118	CHN		CHINASAT-D15	97.5	A	API/A	9062	2768
114540119	CHN		CHINASAT-D16	105	A	API/A	9063	2768
114520159	CHN		CHINASAT-D-163E	163	C	CR/C	3646	2799
114523033	CHN		CHINASAT-D-163E_1	163	C	CR/F	159	2785
114540105	CHN		CHINASAT-D2	-69	A	API/A	9049	2768
114540123	CHN		CHINASAT-D20	126	A	API/A	9067	2768
114540124	CHN		CHINASAT-D21	134	A	API/A	9068	2768
114540125	CHN		CHINASAT-D22	142	A	API/A	9069	2768

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114540106	CHN		CHINASAT-D3	-51.5	A	API/A	9050	2768
114540107	CHN		CHINASAT-D4	-40	A	API/A	9051	2768
114540108	CHN		CHINASAT-D5	-17	A	API/A	9052	2768
114540109	CHN		CHINASAT-D6	-8.5	A	API/A	9053	2768
114540110	CHN		CHINASAT-D7	9.7	A	API/A	9054	2768
114540111	CHN		CHINASAT-D8	46.5	A	API/A	9055	2768
114520156	CHN		CHINASAT-D-87.5E	87.5	C	CR/C	3643	2799
114523030	CHN		CHINASAT-D-87.5E_1	87.5	C	CR/F	156	2785
114540112	CHN		CHINASAT-D9	51.5	A	API/A	9056	2768
111520197	CHN		CHINASAT-DL4	110.5	C	CR/C	2927	2720
111520198	CHN		CHINASAT-DL5	115.5	C	CR/C	2928	2720
111520199	CHN		CHINASAT-DL6	125	C	CR/C	2929	2720
108501216	CHN		CHINASAT-MSB4	115.5	N	PART	1	2710
108501132	CHN		CHINASAT-MSB5	125	N	PART	1	2692
114500054	CHN		CHINASAT-ROUTE1	51.5	N	PART	1	2796
114500043	CHN		CHINASAT-ROUTE15	163	N	PART	2	2782
107520168	CHN		CHINASAT-ROUTE7	115.5	C	CR/C	2065	2786
114500042	CHN		CHINASAT-ROUTE8	125	N	PART	2	2782
106500383	CHN		CHNBSAT-92.2E	92.2	N	PART	2	2743
112540762	CHN		CHNBSAT-G4-1	62	A	API/A	7828	2729
112540771	CHN		CHNBSAT-G4-10	115.5	A	API/A	7837	2729
112540772	CHN		CHNBSAT-G4-11	119	A	API/A	7838	2729
112540773	CHN		CHNBSAT-G4-12	125	A	API/A	7839	2729
112540774	CHN		CHNBSAT-G4-13	129	A	API/A	7840	2729
112540775	CHN		CHNBSAT-G4-14	134	A	API/A	7841	2729
112540776	CHN		CHNBSAT-G4-15	139	A	API/A	7842	2729
112540763	CHN		CHNBSAT-G4-2	71	A	API/A	7829	2729
112540764	CHN		CHNBSAT-G4-3	80	A	API/A	7830	2729
112540765	CHN		CHNBSAT-G4-4	86	A	API/A	7831	2729
112540766	CHN		CHNBSAT-G4-5	92.2	A	API/A	7832	2729
112540767	CHN		CHNBSAT-G4-6	98	A	API/A	7833	2729
112540769	CHN		CHNBSAT-G4-8	108.5	A	API/A	7835	2729
112540770	CHN		CHNBSAT-G4-9	113.2	A	API/A	7836	2729
114520115	CHN		CHNBSAT-K-101.4E	101.4	C	CR/C	3613	2794
114523025	CHN		CHNBSAT-K-101.4E_1	101.4	C	CR/F	143	2780
114520180	CHN		CHNBSAT-K-125.7E	125.7	C	CR/C	3655	2802
114523043	CHN		CHNBSAT-K-125.7E_1	125.7	C	CR/F	163	2787
114520179	CHN		CHNBSAT-K-92.2E	92.2	C	CR/C	3654	2802
114523042	CHN		CHNBSAT-K-92.2E_1	92.2	C	CR/F	162	2787
111520323	CHN		CHNSAT-103E	103	C	CR/C	2990	2725
111500204	CHN		CHNSAT-130E	130	N	PART	2	2719
112500129	CHN		CHNSAT-2-130E	130	N	PART	2	2731
111520322	CHN		CHNSAT-81.5E	81.5	C	CR/C	2989	2725
113500141	CHN		CHNSAT-98E	98.2	N	PART	2	2762

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113540653	CHN		CHNSAT-A-103E	103	A	API/A	8760	2761
113540654	CHN		CHNSAT-A-130E	130	A	API/A	8761	2761
113540655	CHN		CHNSAT-A-167.5E	167.5	A	API/A	8762	2761
113540656	CHN		CHNSAT-A-179.5E	179.5	A	API/A	8763	2761
113540651	CHN		CHNSAT-A-2W	-2	A	API/A	8758	2761
113540652	CHN		CHNSAT-A-81.5E	81.5	A	API/A	8759	2761
110520219	CHN		CHNSAT-M-101.4E	101.4	C	CR/C	2698	2702
103500418	CHN		COMPASS-110.5E	110.5	N	PART	2	2681
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
114520052	CHN		COMPASS-80.3E	80.3	C	CR/C	3567	2791
103500417	CHN		COMPASS-80E	80	N	PART	2	2689
114540131	CHN		COMPASS-A-110.5E	110.5	A	API/A	9075	2779
114540132	CHN		COMPASS-A-140E	140	A	API/A	9076	2779
114540133	CHN		COMPASS-A-144.5E	144.5	A	API/A	9077	2779
114540134	CHN		COMPASS-A-160E	160	A	API/A	9078	2779
114540128	CHN		COMPASS-A-58.75E	58.75	A	API/A	9072	2779
114540129	CHN		COMPASS-A-80E	80	A	API/A	9073	2779
114540130	CHN		COMPASS-A-84E	84	A	API/A	9074	2779
111520204	CHN		COMPASS-B-144.5E	144.5	C	CR/C	2934	2741
111520203	CHN		COMPASS-B-84E	84	C	CR/C	2933	2741
108501265	CHN		CTDRS-1-77E	77	N	PART	2	2784
108501266	CHN		CTDRS-1-80E	80	N	PART	2	2784
110520238	CHN		CTDRS-2-10.6E	10.6	C	CR/C	2711	2766
112500234	CHN		CTDRS-2-16.8E	16.8	N	PART	2	2765
113500144	CHN		CTDRS-2-167E	167	N	PART	2	2808
113500171	CHN		CTDRS-2-171E	171	N	PART	2	2780
111500116	CHN		CTDRS-2-176.8E	176.8	N	PART	2	2793
110520240	CHN		CTDRS-2-20.4E	20.4	C	CR/C	2713	2702
113520252	CHN		CTDRS-2-77E	77	C	CR/C	3466	2780
113520253	CHN		CTDRS-2-80E	80	C	CR/C	3467	2780
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	2722
101500500	CHN		DFH-3-OC	87.5	N	PART	2	2778
109500843	CHN		DFH-3-OC M	87.5	N	PART	1	2767
109500013	CHN		DFH-3-OD	115.5	N	PART	2	2770
95500597	CHN		DFH-3-OE	121	N	PART	2	2352
105500161	CHN		DFH-4-OA	125	N	PART	2	2662
111520334	CHN		DFH-4-OAF	155	C	CR/C	2997	2727
108500967	CHN		DFH-4-OB	103	N	PART	2	2649
108501060	CHN		DFH-4-OD	115.5	N	PART	2	2652

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112520199	CHN		DFH-5-01A	94.2	C	CR/C	3188	2745
112520200	CHN		DFH-5-01B	107.5	C	CR/C	3189	2745
114520124	CHN		DFH-5-02A	59	C	CR/C	3622	2795
114520125	CHN		DFH-5-02B	173	C	CR/C	3623	2795
108501095	CHN		DFH-5-0D	115.5	N	PART	1	2686
114540155	CHN		DFH-6-01	-162	A	API/A	9106	2771
114540156	CHN		DFH-6-02	-150	A	API/A	9107	2771
114540157	CHN		DFH-6-03	-138	A	API/A	9108	2771
114540158	CHN		DFH-6-04	-126	A	API/A	9109	2771
114540159	CHN		DFH-6-05	-114	A	API/A	9110	2771
114540160	CHN		DFH-6-06	-102	A	API/A	9111	2771
114540161	CHN		DFH-G1-05	54	A	API/A	9112	2771
114540162	CHN		DFH-G1-06	66	A	API/A	9113	2771
114540163	CHN		DFH-G1-07	138	A	API/A	9114	2771
114540164	CHN		DFH-G1-08	150	A	API/A	9115	2771
114540165	CHN		DFH-G1-09	162	A	API/A	9116	2771
114540166	CHN		DFH-G1-10	174	A	API/A	9117	2771
114540167	CHN		DFH-G1-11	-174	A	API/A	9118	2771
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
111520016	CHN		FYGEOSAT-133E	133	C	CR/C	2805	2703
111520016	CHN		FYGEOSAT-133E	133	C	CR/E	48	2703
111520010	CHN		FYGEOSAT-79E	79	C	CR/C	2799	2697
111520011	CHN		FYGEOSAT-86.5E	86.5	C	CR/C	2800	2697
111520012	CHN		FYGEOSAT-99.5E	99.5	C	CR/C	2801	2697
111520127	CHN		G4SAT-1	82	C	CR/C	2938	2726
114520021	CHN		G4SAT-134E	134	C	CR/C	3545	2790
114523005	CHN		G4SAT-134E_1	134	C	CR/F	127	2776
114520022	CHN		G4SAT-138E	138	C	CR/C	3546	2790
114523006	CHN		G4SAT-138E_1	138	C	CR/F	128	2776
114520073	CHN		GC-4-105.6E	105.6	C	CR/C	3586	2792
112541107	CHN		GC-4-109E	109	A	API/A	8025	2734
112540449	CHN		ITS-105E	105	A	API/A	7574	2742
112540435	CHN		ITS-105W	-105	A	API/A	7560	2742
112540441	CHN		ITS-10W	-10	A	API/A	7566	2742
112540450	CHN		ITS-114.5E	114.5	A	API/A	7575	2742
112540451	CHN		ITS-120.5E	120.5	A	API/A	7576	2742
112540443	CHN		ITS-13.5E	13.5	A	API/A	7568	2742

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112540444	CHN		ITS-23.5E	23.5	A	API/A	7569	2742
112540445	CHN		ITS-36E	36	A	API/A	7570	2742
112540439	CHN		ITS-48.5W	-48.5	A	API/A	7564	2742
112540442	CHN		ITS-6E	6	A	API/A	7567	2742
112540446	CHN		ITS-70.5E	70.5	A	API/A	7571	2742
112540447	CHN		ITS-78.5E	78.5	A	API/A	7572	2742
112540438	CHN		ITS-85.5W	-85.5	A	API/A	7563	2742
112540448	CHN		ITS-90.5E	90.5	A	API/A	7573	2742
112540437	CHN		ITS-93W	-93	A	API/A	7562	2742
112540436	CHN		ITS-97W	-97	A	API/A	7561	2742
112520134	CHN		ITS-KA-A	83.5	C	CR/C	3162	2750
112520135	CHN		ITS-KA-B	64.5	C	CR/C	3163	2750
112520136	CHN		ITS-KA-D	133.5	C	CR/C	3164	2750
112520137	CHN		ITS-SA-A	-77.2	C	CR/C	3165	2750
112520138	CHN		ITS-SA-B	-63.2	C	CR/C	3166	2750
114540419	CHN		NGSAT-144E	144	A	API/A	9345	2778
108501255	CHN		SINOSAT-3C	130	N	PART	2	2707
113500118	CHN		SINOSAT-5	110.5	N	PART	2	2761
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	1	2804
109500101	CLM	ASA	SIMON BOLIVAR 2	-67	N	PART	2	2676
114540437	CLM		COLSAT-1A-70.9W	-70.9	A	API/A	9362	2779
109520244	CLM		SATCOL 1B	-70.9	C	CR/C	2472	2678
110520469	CLM		SATCOL 1P	-38	C	CR/C	2789	2703
110520469	CLM		SATCOL 1P	-38	C	CR/E	41	2703
111520041	CLM		SATCOL 1Q	-131	C	CR/C	2814	2710
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
110520081	CTI	RAS	RASCOM-3G-J	31	C	CR/C	2591	2691
110520082	CTI	RAS	RASCOM-3G-K	38	C	CR/C	2592	2691
112540683	CTI	RAS	RASCOM-5G-A	-21.1	A	API/A	7758	2727
112540684	CTI	RAS	RASCOM-5G-B	-15.1	A	API/A	7759	2727
112540685	CTI	RAS	RASCOM-5G-C	-9.1	A	API/A	7760	2727
112540686	CTI	RAS	RASCOM-5G-D	-3.1	A	API/A	7761	2727
112540687	CTI	RAS	RASCOM-5G-E	2.9	A	API/A	7762	2727
112540688	CTI	RAS	RASCOM-5G-F	9	A	API/A	7763	2727
112540689	CTI	RAS	RASCOM-5G-G	14	A	API/A	7764	2727
112540690	CTI	RAS	RASCOM-5G-H	20	A	API/A	7765	2727
112540691	CTI	RAS	RASCOM-5G-I	26	A	API/A	7766	2727
112540692	CTI	RAS	RASCOM-5G-J	32	A	API/A	7767	2727

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112540693	CTI	RAS	RASCOM-5G-K	38	A	API/A	7768	2727
112540694	CTI	RAS	RASCOM-5G-L	44	A	API/A	7769	2727
112540695	CTI	RAS	RASCOM-5G-M	50	A	API/A	7770	2727
113540627	CTI	RAS	RASCOM-6G-A	-21.1	A	API/A	8734	2760
113540628	CTI	RAS	RASCOM-6G-B	-15.1	A	API/A	8735	2760
113540629	CTI	RAS	RASCOM-6G-C	-9.1	A	API/A	8736	2760
113540630	CTI	RAS	RASCOM-6G-D	-3.1	A	API/A	8737	2760
113540631	CTI	RAS	RASCOM-6G-E	3	A	API/A	8738	2760
113540632	CTI	RAS	RASCOM-6G-F	9	A	API/A	8739	2760
113540633	CTI	RAS	RASCOM-6G-G	14	A	API/A	8740	2760
113540634	CTI	RAS	RASCOM-6G-H	20	A	API/A	8741	2760
113540635	CTI	RAS	RASCOM-6G-I	26	A	API/A	8742	2760
113540636	CTI	RAS	RASCOM-6G-J	32	A	API/A	8743	2760
113540637	CTI	RAS	RASCOM-6G-K	38	A	API/A	8744	2760
113540638	CTI	RAS	RASCOM-6G-L	44	A	API/A	8745	2760
113540639	CTI	RAS	RASCOM-6G-M	50	A	API/A	8746	2760
115540879	CTI	RAS	RASCOM-7G-A	2.9	A	API/A	10764	2810
115540880	CTI	RAS	RASCOM-7G-B	9	A	API/A	10765	2810
115540881	CTI	RAS	RASCOM-7G-C	14	A	API/A	10766	2810
115540882	CTI	RAS	RASCOM-7G-D	20	A	API/A	10767	2810
109500221	CTI	RAS	RASCOM-C	5.5	N	PART	2	2667
115540376	CYP		CYMZSAT-1	-61	A	API/A	10249	2799
115540367	CYP		CYMZSAT-10	165	A	API/A	10240	2799
115540375	CYP		CYMZSAT-2	-41	A	API/A	10248	2799
115540374	CYP		CYMZSAT-3	-33.5	A	API/A	10247	2799
115540373	CYP		CYMZSAT-4	21.5	A	API/A	10246	2799
115540372	CYP		CYMZSAT-5	31	A	API/A	10245	2799
115540371	CYP		CYMZSAT-6	39	A	API/A	10244	2799
115540370	CYP		CYMZSAT-7	55	A	API/A	10243	2799
115540369	CYP		CYMZSAT-8	61.5	A	API/A	10242	2799
115540368	CYP		CYMZSAT-9	159	A	API/A	10241	2799
1155401022	CYP		KYPROS-SAT-7	39	A	API/A	10950	2810
113540046	CYP		JUPITER-1A	28	A	API/A	8260	2744
113540047	CYP		JUPITER-1B	40	A	API/A	8261	2744
113520196	CYP		JUPITER-1C	55.5	C	CR/C	3437	2774
113523041	CYP		JUPITER-1C_1	55.5	C	CR/F	68	2760
113540049	CYP		JUPITER-2A	-68	A	API/A	8263	2744
113540050	CYP		JUPITER-2B	-80	A	API/A	8264	2744
113540051	CYP		JUPITER-2C	-92	A	API/A	8265	2744
113540052	CYP		JUPITER-3A	148	A	API/A	8266	2744
113540053	CYP		JUPITER-3B	160	A	API/A	8267	2744
113540054	CYP		JUPITER-3C	172	A	API/A	8268	2744
113540787	CYP		KYPROS-101E	101	A	API/A	8887	2763
113540770	CYP		KYPROS-102W	-102	A	API/A	8870	2763
113540788	CYP		KYPROS-107E	107	A	API/A	8888	2763

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113540769	CYP		KYPROS-108W	-108	A	API/A	8869	2763
113540789	CYP		KYPROS-113E	113	A	API/A	8889	2763
113540768	CYP		KYPROS-114W	-114	A	API/A	8868	2763
113540790	CYP		KYPROS-119E	119	A	API/A	8890	2763
113540784	CYP		KYPROS-11W	-11	A	API/A	8884	2763
113540767	CYP		KYPROS-120W	-120	A	API/A	8867	2763
114540741	CYP		KYPROS-125E	125	A	API/A	9648	2787
113540766	CYP		KYPROS-126W	-126	A	API/A	8866	2763
114540742	CYP		KYPROS-131E	131	A	API/A	9649	2787
113540765	CYP		KYPROS-132W	-132	A	API/A	8865	2763
114540743	CYP		KYPROS-137E	137	A	API/A	9650	2787
113540764	CYP		KYPROS-138W	-138	A	API/A	8864	2763
114540729	CYP		KYPROS-13E	13	A	API/A	9636	2787
114540744	CYP		KYPROS-143E	143	A	API/A	9651	2787
113540763	CYP		KYPROS-144W	-144	A	API/A	8863	2763
114540745	CYP		KYPROS-149E	149	A	API/A	9652	2787
113540762	CYP		KYPROS-150W	-150	A	API/A	8862	2763
114540746	CYP		KYPROS-155E	155	A	API/A	9653	2787
113540761	CYP		KYPROS-156W	-156	A	API/A	8861	2763
114540747	CYP		KYPROS-161E	161	A	API/A	9654	2787
114540748	CYP		KYPROS-167E	167	A	API/A	9655	2787
114540726	CYP		KYPROS-167W	-167	A	API/A	9633	2787
114540725	CYP		KYPROS-172.5W	-172.5	A	API/A	9632	2787
114540749	CYP		KYPROS-173E	173	A	API/A	9656	2787
113540783	CYP		KYPROS-17W	-17	A	API/A	8883	2763
114540758	CYP		KYPROS-19E	19	A	API/A	9637	2787
114540727	CYP		KYPROS-1E	1	A	API/A	9634	2787
113540782	CYP		KYPROS-23W	-23	A	API/A	8882	2763
114540759	CYP		KYPROS-25E	25	A	API/A	9638	2787
113540781	CYP		KYPROS-29W	-29	A	API/A	8881	2763
114540732	CYP		KYPROS-31E	31	A	API/A	9639	2787
113540780	CYP		KYPROS-35W	-35	A	API/A	8880	2763
113540779	CYP		KYPROS-41W	-41	A	API/A	8879	2763
113540778	CYP		KYPROS-47W	-47	A	API/A	8878	2763
114540733	CYP		KYPROS-48E	48	A	API/A	9640	2787
114540734	CYP		KYPROS-54E	54	A	API/A	9641	2787
113540785	CYP		KYPROS-5W	-5	A	API/A	8885	2763
114540735	CYP		KYPROS-60E	60	A	API/A	9642	2787
113540777	CYP		KYPROS-60W	-60	A	API/A	8877	2763
114540736	CYP		KYPROS-66E	66	A	API/A	9643	2787
113540776	CYP		KYPROS-66W	-66	A	API/A	8876	2763
114540737	CYP		KYPROS-72E	72	A	API/A	9644	2787
113540775	CYP		KYPROS-72W	-72	A	API/A	8875	2763
114540738	CYP		KYPROS-78E	78	A	API/A	9645	2787
113540774	CYP		KYPROS-78W	-78	A	API/A	8874	2763

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114540728	CYP		KYPROS-7E	7	A	API/A	9635	2787
114540739	CYP		KYPROS-84E	84	A	API/A	9646	2787
113540773	CYP		KYPROS-84W	-84	A	API/A	8873	2763
114540740	CYP		KYPROS-90E	90	A	API/A	9647	2787
113540772	CYP		KYPROS-90W	-90	A	API/A	8872	2763
113540786	CYP		KYPROS-95E	95	A	API/A	8886	2763
113540771	CYP		KYPROS-96W	-96	A	API/A	8871	2763
111520240	CYP		KYPROS-ACHILLEAS	174	C	CR/C	2970	2724
113540749	CYP		KYPROS-ACHILLEAS-2	174	A	API/A	8860	2763
111520244	CYP		KYPROS-AETHER	-2	C	CR/C	2976	2725
113540750	CYP		KYPROS-AETHER-2	-2	A	API/A	8854	2763
108540039	CYP		KYPROS-APHRODITE	90	A	API/A	5022	2715
111520150	CYP		KYPROS-APHRODITE-2	90	C	CR/C	2901	2719
110520263	CYP		KYPROS-APOLLO	-56	C	CR/C	2719	2703
113540751	CYP		KYPROS-APOLLO-2	-56	A	API/A	8853	2763
109520238	CYP		KYPROS-ARES	89.5	C	CR/C	2473	2716
109520238	CYP		KYPROS-ARES	89.5	C	CR/E	72	2716
108540181	CYP		KYPROS-ARTEMIS	-174.5	A	API/A	5106	2715
111520151	CYP		KYPROS-ARTEMIS-2	-174.5	C	CR/C	2902	2718
111520245	CYP		KYPROS-ASTERIA	61	C	CR/C	2972	2725
113540752	CYP		KYPROS-ASTERIA-2	61	A	API/A	8857	2763
108540040	CYP		KYPROS-ATHENA	22.5	A	API/A	5023	2715
111520193	CYP		KYPROS-ATHENA-2	22.5	C	CR/C	2903	2719
113540758	CYP		KYPROS-ATHENA-3	22.5	A	API/A	8850	2763
111520246	CYP		KYPROS-ATLAS	123	C	CR/C	2975	2724
113540753	CYP		KYPROS-ATLAS-2	123	A	API/A	8858	2763
111520247	CYP		KYPROS-EUROPA	16.5	C	CR/C	2977	2725
113540754	CYP		KYPROS-EUROPA-2	16.5	A	API/A	8855	2763
110520264	CYP		KYPROS-HERA	107.5	C	CR/C	2718	2703
111520194	CYP		KYPROS-HERMES-2	57	C	CR/C	2904	2719
113540759	CYP		KYPROS-HERMES-3	57	A	API/A	8851	2763
111520241	CYP		KYPROS-OKEANOS	-161	C	CR/C	2971	2724
113540755	CYP		KYPROS-OKEANOS-2	-161	A	API/A	8852	2763
113520031	CYP		KYPROS-ORION	89.5	C	CR/C	3340	2760
111520242	CYP		KYPROS-PERSEUS	-50.5	C	CR/C	2969	2725
108540036	CYP		KYPROS-POSEIDON	-52.5	A	API/A	5019	2715
111520195	CYP		KYPROS-POSEIDON-2	-52.5	C	CR/C	2905	2719
113540760	CYP		KYPROS-POSEIDON-3	-52.5	A	API/A	8849	2763
111520248	CYP		KYPROS-PROMETHEUS	134	C	CR/C	2974	2724
113540756	CYP		KYPROS-PROMETHEUS-2	134	A	API/A	8859	2763
111520128	CYP		KYPROS-SAT-5	39	C	CR/C	2899	2763
108501035	CYP		KYPROS-SAT-C	39	N	PART	2	2652
108501096	CYP		KYPROS-SAT-L4	39	N	PART	2	2652
111520249	CYP		KYPROS-THALASSA	47	C	CR/C	2973	2725
113540757	CYP		KYPROS-THALASSA-2	47	A	API/A	8856	2763

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113520032	CYP		KYPROS-THEMIS	54.5	C	CR/C	3339	2760
111520243	CYP		KYPROS-URANUS	-172.5	C	CR/C	2968	2724
108540037	CYP		KYPROS-ZEUS	54	A	API/A	5020	2715
111520196	CYP		KYPROS-ZEUS-2	54	C	CR/C	2906	2719
113540222	CYP		OLYMPUS-1A	33.5	A	API/A	8423	2753
113540223	CYP		OLYMPUS-1B	36	A	API/A	8424	2753
113540224	CYP		OLYMPUS-1C	41	A	API/A	8425	2753
113540225	CYP		OLYMPUS-1D	42.5	A	API/A	8426	2753
113540226	CYP		OLYMPUS-1E	43.5	A	API/A	8427	2753
113540227	CYP		OLYMPUS-1F	45.5	A	API/A	8428	2753
113540228	CYP		OLYMPUS-1G	46.5	A	API/A	8429	2753
113540230	CZE		PEKASAT-1	-2	A	API/A	8432	2753
113520303	CZE		PEKASAT-10	34.5	C	CR/C	3516	2782
113540240	CZE		PEKASAT-11	37.5	A	API/A	8442	2753
113540241	CZE		PEKASAT-12	43.5	A	API/A	8443	2753
113540231	CZE		PEKASAT-2	1	A	API/A	8433	2753
115520105	CZE		PEKASAT-3	8.3	C	CR/C	3807	2804
113540233	CZE		PEKASAT-4	11.5	A	API/A	8435	2753
113540234	CZE		PEKASAT-5	14.5	A	API/A	8436	2753
113540235	CZE		PEKASAT-6	18	A	API/A	8437	2753
113540236	CZE		PEKASAT-7	22.5	A	API/A	8438	2753
114520087	CZE		PEKASAT-8	26.8	C	CR/C	3600	2794
113540238	CZE		PEKASAT-9	29.5	A	API/A	8440	2753
115540356	D		GENESIS-16	40.5	A	API/A	10229	2799
111500206	D	EUM	METEOSAT IODC_57.5E	57.5	N	PART	2	2730
112520034	D	EUM	MSG-3.5E	3.5	C	CR/C	3116	2723
115540005	D	EUM	MSG-41.5E	41.5	A	API/A	9846	2790
115540006	D	EUM	MSG-53.5E	53.5	A	API/A	9847	2790
115520027	D	EUM	MTG_0E	0	C	CR/C	3756	2800
115520029	D	EUM	MTG_3.4W	-3.4	C	CR/C	3755	2800
115520028	D	EUM	MTG_9.5E	9.5	C	CR/C	3757	2800
110520422	D	EUM	MTG-D1_0E	0	C	CR/C	2776	2708
114500155	D	EUM	MTG-D1_3.4W	-3.4	N	PART	2	2799
114500156	D	EUM	MTG-D1_9.5E	9.5	N	PART	2	2802
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	1	2678
92500177	D		DFS-2	28.5	N	PART	1	2678
104500143	D		EUROPE*STAR-1	45	N	PART	2	2606
104500144	D		EUROPE*STAR-3	47.5	N	PART	2	2602
113500130	D		EUROPESTAR-45E	45	N	PART	2	2761
115520083	D		EUROPESTAR-45E-A	45	C	CR/C	3799	2803
115523026	D		EUROPESTAR-45E-A_1	45	C	CR/F	228	2803
111520232	D		EUROPESTAR-45E-KA	45	C	CR/C	2957	2722
113500129	D		EUROPESTAR-47.5E	47.5	N	PART	2	2782

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111520233	D		EUROPESTAR-47.5E-KA	47.5	C	CR/C	2958	2722
111500246	D		GENESIS-11	13	N	PART	2	2720
113520298	D		GENESIS-13	-37	C	CR/C	3505	2782
113520299	D		GENESIS-14	13	C	CR/C	3506	2782
113520300	D		GENESIS-15	63	C	CR/C	3507	2782
109500171	D		GENESIS-8	13	N	PART	2	2735
109500420	D		GENESIS-9	63	N	PART	2	2712
113540147	D		GESACOM-1	-19	A	API/A	8357	2750
113540148	D		GESACOM-2	40	A	API/A	8358	2750
113540149	D		GESACOM-3	43.5	A	API/A	8359	2750
113540150	D		GESACOM-4	79	A	API/A	8360	2750
113520182	D		H2SAT-0.5E	0.5	C	CR/C	3428	2772
112520485	D		H2SAT-11.5E	11.5	C	CR/C	3309	2758
112520486	D		H2SAT-17.6E	17.6	C	CR/C	3310	2758
112520487	D		H2SAT-43.5E	43.5	C	CR/C	3311	2758
115520092	D		ODYSSEY POR	178	C	CR/C	3804	2804
115523030	D		ODYSSEY POR_1	178	C	CR/F	232	2804
115520082	D		ODYSSEY-127W	-127	C	CR/C	3798	2803
115523031	D		ODYSSEY-127W_1	-127	C	CR/F	229	2803
114540574	D		ODYSSEY-166E	166	A	API/A	9501	2779
115520081	D		ODYSSEY-27.5W	-27.5	C	CR/C	3800	2803
115523029	D		ODYSSEY-27.5W_1	-27.5	C	CR/F	230	2803
115520065	D		ODYSSEY-359E	-1	C	CR/C	3784	2802
115523018	D		ODYSSEY-359E_1	-1	C	CR/F	219	2802
115540733	E		HISPASAT-41A	-79	A	API/A	10617	2801
115540732	E		HISPASAT-42A	-30	A	API/A	10616	2801
	E		HISPASAT-43A	-30	A			
	E		HISPASAT-44A	-36	A			
115540820	E		SECOMSAT-2-78E	78	A	API/A	10702	2805
115540818	E		SECOMSAT-4-30W	-30	A	API/A	10700	2805
115540731	E		SECOMSAT-4-41E	41	A	API/A	10615	2801
115540819	E		SECOMSAT-4-47W	-47	A	API/A	10701	2805
114500097	E		HISPASAT 2A 36W	-36	N	PART	2	2807
92500108	E		HISPASAT-1	-30	N	PART	2	2645
113520004	E		HISPASAT-10A	-30	C	CR/C	3324	2759
113523003	E		HISPASAT-10A_1	-30	C	CR/F	29	2745
113520090	E		HISPASAT-11A	45	C	CR/C	3380	2766
113523029	E		HISPASAT-11A_1	45	C	CR/F	53	2751
113520171	E		HISPASAT-12A	-52.5	C	CR/C	3421	2771
113523035	E		HISPASAT-12A_1	-52.5	C	CR/F	60	2758
113520172	E		HISPASAT-13A	-26	C	CR/C	3422	2771
113523036	E		HISPASAT-13A_1	-26	C	CR/F	61	2758
113520204	E		HISPASAT-14A	-74	C	CR/C	3444	2774
113523044	E		HISPASAT-14A_1	-74	C	CR/F	64	2760
113520205	E		HISPASAT-15A	-58.5	C	CR/C	3445	2779

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113523045	E		HISPASAT-15A_1	-58.5	C	CR/F	65	2760
113520210	E		HISPASAT-16A	-36	C	CR/C	3450	2775
113523046	E		HISPASAT-16A_1	-36	C	CR/F	71	2761
114520008	E		HISPASAT-17A	-67.5	C	CR/C	3535	2787
114523008	E		HISPASAT-17A_1	-67.5	C	CR/F	121	2773
113540595	E		HISPASAT-18A	-47.5	A	API/A	8705	2759
114520173	E		HISPASAT-19A	-79	C	CR/C	3648	2801
114523040	E		HISPASAT-19A_1	-79	C	CR/F	160	2786
106500012	E		HISPASAT-1D KU	-30	N	PART	2	2636
114520174	E		HISPASAT-20A	-30	C	CR/C	3649	2801
114523041	E		HISPASAT-20A_1	-30	C	CR/F	161	2786
114520054	E		HISPASAT-22A	-55.5	C	CR/C	3650	2801
114520214	E		HISPASAT-25A	45	C	CR/C	3673	2804
114523044	E		HISPASAT-25A_1	45	C	CR/F	166	2790
115520013	E		HISPASAT-26A	-26	C	CR/C	3736	2798
115523003	E		HISPASAT-26A_1	-26	C	CR/F	204	2798
115520014	E		HISPASAT-27A	-52.5	C	CR/C	3737	2798
115523004	E		HISPASAT-27A_1	-52.5	C	CR/F	205	2798
115520016	E		HISPASAT-28A	11	C	CR/C	3742	2799
115523005	E		HISPASAT-28A_1	11	C	CR/F	207	2799
115520017	E		HISPASAT-29A	-10.25	C	CR/C	3743	2799
115523008	E		HISPASAT-29A_1	-10.25	C	CR/F	208	2799
102500409	E		HISPASAT-2A KU	-30	N	PART	2	2548
105500025	E		HISPASAT-2A X	-30	N	PART	2	2784
105500092	E		HISPASAT-2AKA	-30	N	PART	2	2745
105500093	E		HISPASAT-2B 30KA	-30	N	PART	2	2632
100500226	E		HISPASAT-2B KU	-30	N	PART	2	2745
100500225	E		HISPASAT-2C3 KU	-30	N	PART	2	2745
104500108	E		HISPASAT-2D KU	-30	N	PART	2	2589
115520060	E		HISPASAT-31A	-74	C	CR/C	3789	2803
115523015	E		HISPASAT-31A_1	-74	C	CR/F	221	2803
115520061	E		HISPASAT-32A	-58.5	C	CR/C	3790	2803
115523016	E		HISPASAT-32A_1	-58.5	C	CR/F	222	2803
115520062	E		HISPASAT-33A	-77	C	CR/C	3793	2803
115523017	E		HISPASAT-33A_1	-77	C	CR/F	224	2803
115520084	E		HISPASAT-36A	-36	C	CR/C	3801	2803
115523025	E		HISPASAT-36A_1	-36	C	CR/F	231	2803
115520130	E		HISPASAT-38A	57	C	CR/C	3823	2805
115523038	E		HISPASAT-38A_1	57	C	CR/F	241	2805
115540004	E		HISPASAT-39A	-67.5	A	API/A	9845	2790
110520014	E		HISPASAT-3A	-30	C	CR/C	2564	2689
112520215	E		HISPASAT-4A	-65	C	CR/C	3217	2746
111520124	E		HISPASAT-5A	-47.5	C	CR/C	2900	2722
111520213	E		HISPASAT-6A	-26	C	CR/C	2956	2722
112520072	E		HISPASAT-7A	-36	C	CR/C	3173	2744

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112523004	E		HISPASAT-7A_1	-36	C	CR/F	6	2736
113520011	E		HISPASAT-9A	-79	C	CR/C	3323	2759
113523002	E		HISPASAT-9A_1	-79	C	CR/F	28	2745
108520126	E		SECOMSAT B1_47W	-47	C	CR/C	2215	2780
105500624	E		SECOMSAT B29E	29	N	PART	2	2784
113540736	E		SECOMSAT-22E	22	A	API/A	8841	2761
112520422	E		SECOMSAT-29E	29	C	CR/C	3271	2752
115520015	E		SECOMSAT-3-22E	22	C	CR/C	3734	2798
113540737	E		SECOMSAT-36E	36	A	API/A	8842	2761
115520110	E		SECOMSAT-4-29E	29	C	CR/C	3827	2805
113520124	E		SECOMSAT-50E	50	C	CR/C	3391	2754
113520124	E		SECOMSAT-50E	50	C	CR/E	578	2754
114520195	E		SECOMSAT-59W	-59	C	CR/C	3663	2803
113520123	E		SECOMSAT-78E	78	C	CR/C	3392	2754
113520123	E		SECOMSAT-78E	78	C	CR/E	579	2754
111520030	E		SECOMSAT-B1_22E	22	C	CR/C	2834	2731
108520282	E		SECOMSAT-B1_29E	29	C	CR/C	2321	2638
110520031	E		SECOMSAT-B1-36E	36	C	CR/C	2572	2713
110520032	E		SECOMSAT-B1-50E	50	C	CR/C	2573	2713
112520035	E		SECOMSAT-B1-R_41E	41	C	CR/C	3117	2741
113520052	E		SECOMSAT-B1-R_47W	-47	C	CR/C	3363	2761
115540234	EGY		EGYCOMM10A	45	A	API/A	10103	2797
115540233	EGY		EGYCOMM11A	50	A	API/A	10102	2797
115540232	EGY		EGYCOMM12A	55	A	API/A	10101	2797
115540231	EGY		EGYCOMM13A	60	A	API/A	10100	2797
115540230	EGY		EGYCOMM14A	65	A	API/A	10099	2797
115540229	EGY		EGYCOMM15A	70	A	API/A	10098	2797
115540228	EGY		EGYCOMM16A	-5	A	API/A	10097	2797
115540227	EGY		EGYCOMM17A	-10	A	API/A	10096	2797
115540226	EGY		EGYCOMM18A	-15	A	API/A	10095	2797
115540225	EGY		EGYCOMM19A	-20	A	API/A	10094	2797
115540224	EGY		EGYCOMM1A	0	A	API/A	10093	2797
115540223	EGY		EGYCOMM20A	-25	A	API/A	10092	2797
115540222	EGY		EGYCOMM21A	-30	A	API/A	10091	2797
115540221	EGY		EGYCOMM22A	-35	A	API/A	10090	2797
115540220	EGY		EGYCOMM23A	-40	A	API/A	10089	2797
115540219	EGY		EGYCOMM24A	-45	A	API/A	10088	2797
115540218	EGY		EGYCOMM25A	-50	A	API/A	10087	2797
115540217	EGY		EGYCOMM26A	-55	A	API/A	10086	2797
115540216	EGY		EGYCOMM27A	-60	A	API/A	10085	2797
115540215	EGY		EGYCOMM28A	-65	A	API/A	10084	2797
115540214	EGY		EGYCOMM29A	-70	A	API/A	10083	2797
115540213	EGY		EGYCOMM2A	5	A	API/A	10082	2797
115540212	EGY		EGYCOMM3A	10	A	API/A	10081	2797
115540211	EGY		EGYCOMM4A	15	A	API/A	10080	2797

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115540209	EGY		EGYCOMM6A	25	A	API/A	10078	2797
115540208	EGY		EGYCOMM7A	30	A	API/A	10077	2797
115540207	EGY		EGYCOMM8A	35	A	API/A	10076	2797
115540206	EGY		EGYCOMM9A	40	A	API/A	10075	2797
112540949	EGY		EGJAN10A	35	A	API/A	7944	2754
112540961	EGY		EGJAN10B	40	A	API/A	7956	2732
112540950	EGY		EGJAN11A	40	A	API/A	7945	2754
112540962	EGY		EGJAN11B	46	A	API/A	7957	2732
112540951	EGY		EGJAN12A	45	A	API/A	7946	2754
112540963	EGY		EGJAN12B	52	A	API/A	7958	2732
112540964	EGY		EGJAN13B	58	A	API/A	7959	2732
112540965	EGY		EGJAN14B	64	A	API/A	7960	2732
114520032	EGY		EGJAN1A	-7	C	CR/C	3558	2791
114523001	EGY		EGJAN1A_1	-7	C	CR/F	129	2777
112540952	EGY		EGJAN1B	-14	A	API/A	7947	2732
114520079	EGY		EGJAN2A	-6	C	CR/C	3590	2794
114523011	EGY		EGJAN2A_1	-6	C	CR/F	135	2779
112540953	EGY		EGJAN2B	-8	A	API/A	7948	2732
114520080	EGY		EGJAN3A	-2	C	CR/C	3591	2794
114523012	EGY		EGJAN3A_1	-2	C	CR/F	136	2779
112540954	EGY		EGJAN3B	-2	A	API/A	7949	2732
114520081	EGY		EGJAN4A	11	C	CR/C	3592	2794
114523013	EGY		EGJAN4A_1	11	C	CR/F	137	2779
112540955	EGY		EGJAN4B	4	A	API/A	7950	2732
114520082	EGY		EGJAN5A	15	C	CR/C	3593	2794
114523014	EGY		EGJAN5A_1	15	C	CR/F	138	2779
112540956	EGY		EGJAN5B	10	A	API/A	7951	2732
114520083	EGY		EGJAN6A	18	C	CR/C	3594	2794
114523015	EGY		EGJAN6A_1	18	C	CR/F	139	2779
112540957	EGY		EGJAN6B	16	A	API/A	7952	2732
114520084	EGY		EGJAN7A	21	C	CR/C	3595	2794
114523016	EGY		EGJAN7A_1	21	C	CR/F	140	2779
112540958	EGY		EGJAN7B	22	A	API/A	7953	2732
114520085	EGY		EGJAN8A	23	C	CR/C	3596	2794
114523017	EGY		EGJAN8A_1	23	C	CR/F	141	2779
112540959	EGY		EGJAN8B	28	A	API/A	7954	2732
112540948	EGY		EGJAN9A	30	A	API/A	7943	2754
112540960	EGY		EGJAN9B	34	A	API/A	7955	2732
114540263	EGY		EGYNILE1	-19	A	API/A	9204	2774
114540272	EGY		EGYNILE10	21	A	API/A	9213	2774
114540273	EGY		EGYNILE11	26	A	API/A	9214	2774
114540274	EGY		EGYNILE12	31	A	API/A	9215	2774
114540264	EGY		EGYNILE2	-14	A	API/A	9205	2774
114540265	EGY		EGYNILE3	-9	A	API/A	9206	2774

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114540266	EGY		EGYNILE4	-7	A	API/A	9207	2774
114540267	EGY		EGYNILE5	-4	A	API/A	9208	2774
114540268	EGY		EGYNILE6	1	A	API/A	9209	2774
114540269	EGY		EGYNILE7	6	A	API/A	9210	2774
114540270	EGY		EGYNILE8	11	A	API/A	9211	2774
114540271	EGY		EGYNILE9	16	A	API/A	9212	2774
109520317	EGY		NAVISAT-11A	28.25	C	CR/C	2533	2686
109520318	EGY		NAVISAT-12A	35.5	C	CR/C	2534	2686
109520319	EGY		NAVISAT-14A	44	C	CR/C	2535	2686
109520315	EGY		NAVISAT-2A	21	C	CR/C	2531	2686
110520449	EGY		NAVISAT-7A	1	C	CR/C	2780	2716
110520449	EGY		NAVISAT-7A	1	C	CR/E	34	2716
109520316	EGY		NAVISAT-9A	14	C	CR/C	2532	2686
113500037	EGY		NILESAT-103	-7	N	PART	2	2777
113500137	EGY		NILESAT-301-7W	-7	N	PART	2	2762
113540720	ETH		AFBS-1	-20	A	API/A	8825	2761
113540721	ETH		AFBS-2	-8	A	API/A	8826	2761
113540722	ETH		AFBS-3	4	A	API/A	8827	2761
113540723	ETH		AFBS-4	16	A	API/A	8828	2761
113540724	ETH		AFBS-5	28	A	API/A	8829	2761
113540725	ETH		AFBS-6	36	A	API/A	8830	2761
115540739	F		EDRS-19W	-19	A	API/A	10621	2801
115540741	F		EDRS-38W	-38	A	API/A	10619	2801
115540740	F		EDRS-43E	43	A	API/A	10620	2801
115540468	F		F-MILSATCOM3-25E	25	A	API/A	10341	2800
115540469	F		F-MILSATCOM3-3E	3	A	API/A	10342	2800
115540467	F		F-MILSATCOM3-45E	45	A	API/A	10340	2800
115540466	F		F-MILSATCOM3-47E	47	A	API/A	10339	2800
115540470	F		F-MILSATCOM3-5W	-5	A	API/A	10343	2800
115540471	F		F-MILSATCOM3-8W	-8	A	API/A	10344	2800
115540843	F		F-MILSATCOM4-33E	33	A	API/A	10727	2809
115540296	F		F-SAT-N5-1.6E	1.6	A	API/A	10169	2799
115540482	F		F-SAT-N5-100W	-100	A	API/A	10355	2800
115540255	F		F-SAT-N5-108.5E	108.5	A	API/A	10128	2799
115540291	F		F-SAT-N5-10E	10	A	API/A	10164	2799
115540290	F		F-SAT-N5-11.5E	11.5	A	API/A	10163	2799
115540256	F		F-SAT-N5-111.5E	111.5	A	API/A	10129	2799
115540481	F		F-SAT-N5-111W	-111	A	API/A	10354	2800
115540480	F		F-SAT-N5-113W	-113	A	API/A	10353	2800
115540257	F		F-SAT-N5-117.4E	117.4	A	API/A	10130	2799
115540479	F		F-SAT-N5-117W	-117	A	API/A	10352	2800
115540603	F		F-SAT-N5-11W	-11	A	API/A	10476	2800
115540604	F		F-SAT-N5-12.5W	-12.5	A	API/A	10477	2800
115540662	F		F-SAT-N5-120W	-120	A	API/A	10538	2800
115540261	F		F-SAT-N5-123.5E	123.5	A	API/A	10134	2799

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115540321	F		F-SAT-N5-133.5E	133.5	A	API/A	10194	2799
115540478	F		F-SAT-N5-133W	-133	A	API/A	10351	2800
115540263	F		F-SAT-N5-136E	136	A	API/A	10136	2799
115540264	F		F-SAT-N5-137E	137	A	API/A	10137	2799
115540477	F		F-SAT-N5-139W	-139	A	API/A	10350	2800
115540287	F		F-SAT-N5-13E	13	A	API/A	10160	2799
115540286	F		F-SAT-N5-14.5E	14.5	A	API/A	10159	2799
115540265	F		F-SAT-N5-140E	140	A	API/A	10138	2799
115540476	F		F-SAT-N5-146W	-146	A	API/A	10349	2800
115540266	F		F-SAT-N5-152E	152	A	API/A	10139	2799
115540475	F		F-SAT-N5-152W	-152	A	API/A	10348	2800
115540267	F		F-SAT-N5-155.9E	155.9	A	API/A	10140	2799
115540474	F		F-SAT-N5-156W	-156	A	API/A	10347	2800
115540268	F		F-SAT-N5-163.5E	163.5	A	API/A	10141	2799
115540269	F		F-SAT-N5-164.1E	164.1	A	API/A	10142	2799
115540273	F		F-SAT-N5-169E	169	A	API/A	10146	2799
115540285	F		F-SAT-N5-16E	16	A	API/A	10158	2799
115540284	F		F-SAT-N5-17.5E	17.5	A	API/A	10157	2799
115540277	F		F-SAT-N5-170.5E	170.5	A	API/A	10150	2799
115540278	F		F-SAT-N5-172E	172	A	API/A	10151	2799
115540288	F		F-SAT-N5-174E	174	A	API/A	10161	2799
115540289	F		F-SAT-N5-178E	178	A	API/A	10162	2799
115540279	F		F-SAT-N5-21.5E	21.5	A	API/A	10152	2799
115540605	F		F-SAT-N5-21W	-21	A	API/A	10478	2800
115540606	F		F-SAT-N5-24W	-24	A	API/A	10479	2800
115540283	F		F-SAT-N5-25.5E	25.5	A	API/A	10156	2799
115540282	F		F-SAT-N5-28.5E	28.5	A	API/A	10155	2799
115540607	F		F-SAT-N5-28W	-28	A	API/A	10480	2800
115540473	F		F-SAT-N5-32W	-32	A	API/A	10346	2800
115540281	F		F-SAT-N5-33E	33	A	API/A	10154	2799
115540280	F		F-SAT-N5-34.5E	34.5	A	API/A	10153	2799
115540608	F		F-SAT-N5-34W	-34	A	API/A	10481	2800
115540252	F		F-SAT-N5-36E	36	A	API/A	10125	2799
115540609	F		F-SAT-N5-36W	-36	A	API/A	10482	2800
115540258	F		F-SAT-N5-37.5E	37.5	A	API/A	10131	2799
115540598	F		F-SAT-N5-39W	-39	A	API/A	10471	2800
115540295	F		F-SAT-N5-3E	3	A	API/A	10168	2799
115540260	F		F-SAT-N5-48E	48	A	API/A	10133	2799
115540597	F		F-SAT-N5-51.5W	-51.5	A	API/A	10470	2800
115540596	F		F-SAT-N5-54W	-54	A	API/A	10469	2800
115540595	F		F-SAT-N5-55.2W	-55.2	A	API/A	10468	2800
115540594	F		F-SAT-N5-56.5W	-56.5	A	API/A	10467	2800
115540593	F		F-SAT-N5-57W	-57	A	API/A	10466	2800
115540259	F		F-SAT-N5-58.45E	58.45	A	API/A	10132	2799

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115540599	F		F-SAT-N5-5W	-5	A	API/A	10472	2800
115540492	F		F-SAT-N5-63.2W	-63.2	A	API/A	10365	2800
115540491	F		F-SAT-N5-66.5W	-66.5	A	API/A	10364	2800
115540270	F		F-SAT-N5-70.5E	70.5	A	API/A	10143	2799
115540490	F		F-SAT-N5-72W	-72	A	API/A	10363	2800
115540271	F		F-SAT-N5-73.5E	73.5	A	API/A	10144	2799
115540489	F		F-SAT-N5-74.75W	-74.75	A	API/A	10362	2800
115540488	F		F-SAT-N5-77W	-77	A	API/A	10361	2800
115540294	F		F-SAT-N5-7E	7	A	API/A	10167	2799
115540600	F		F-SAT-N5-7W	-7	A	API/A	10473	2800
115540293	F		F-SAT-N5-8.5E	8.5	A	API/A	10166	2799
115540274	F		F-SAT-N5-80.5E	80.5	A	API/A	10147	2799
115540487	F		F-SAT-N5-80W	-80	A	API/A	10360	2800
115540465	F		F-SAT-N5-81W	-81	A	API/A	10338	2800
115540275	F		F-SAT-N5-83.5E	83.5	A	API/A	10148	2799
115540486	F		F-SAT-N5-86W	-86	A	API/A	10359	2800
115540276	F		F-SAT-N5-87E	87	A	API/A	10149	2799
115540253	F		F-SAT-N5-88.5E	88.5	A	API/A	10126	2799
115540601	F		F-SAT-N5-8W	-8	A	API/A	10474	2800
115540602	F		F-SAT-N5-9.5W	-9.5	A	API/A	10475	2800
115540485	F		F-SAT-N5-90W	-90	A	API/A	10358	2800
115540483	F		F-SAT-N5-94W	-94	A	API/A	10356	2800
115540254	F		F-SAT-N5-96E	96	A	API/A	10127	2799
115540484	F		F-SAT-N5-96W	-96	A	API/A	10357	2800
115540292	F		F-SAT-N5-9E	9	A	API/A	10165	2799
115540272	F		MCSAT3-174W	-174	A	API/A	10145	2799
115540297	F		MCSAT-3E000	0	A	API/A	10170	2799
115540333	F		MCSAT-3E006	6	A	API/A	10206	2799
115540334	F		MCSAT-3E012	12	A	API/A	10207	2799
115540335	F		MCSAT-3E018	18	A	API/A	10208	2799
115540336	F		MCSAT-3E024	24	A	API/A	10209	2799
115540338	F		MCSAT-3E030	30	A	API/A	10211	2799
115540298	F		MCSAT-3E036	36	A	API/A	10171	2799
115540337	F		MCSAT-3E042	42	A	API/A	10210	2799
115540339	F		MCSAT-3E048	48	A	API/A	10212	2799
115540340	F		MCSAT-3E054	54	A	API/A	10213	2799
115540341	F		MCSAT-3E060	60	A	API/A	10214	2799
115540342	F		MCSAT-3E066	66	A	API/A	10215	2799
115540344	F		MCSAT-3E072	72	A	API/A	10217	2799
115540346	F		MCSAT-3E078	78	A	API/A	10219	2799
115540347	F		MCSAT-3E084	84	A	API/A	10220	2799
115540348	F		MCSAT-3E090	90	A	API/A	10221	2799
115540355	F		MCSAT-3E096	96	A	API/A	10228	2799
115540349	F		MCSAT-3E102	102	A	API/A	10222	2799

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115540351	F		MCSAT-3E114	114	A	API/A	10224	2799
115540354	F		MCSAT-3E120	120	A	API/A	10227	2799
115540353	F		MCSAT-3E126	126	A	API/A	10226	2799
115540352	F		MCSAT-3E132	132	A	API/A	10225	2799
115540303	F		MCSAT-3E138	138	A	API/A	10176	2799
115540343	F		MCSAT-3E144	144	A	API/A	10216	2799
115540345	F		MCSAT-3E150	150	A	API/A	10218	2799
115540324	F		MCSAT-3E156	156	A	API/A	10197	2799
115540325	F		MCSAT-3E162	162	A	API/A	10198	2799
115540327	F		MCSAT-3E168	168	A	API/A	10200	2799
115540329	F		MCSAT-3E174	174	A	API/A	10202	2799
115540332	F		MCSAT-3E180	180	A	API/A	10205	2799
115540330	F		MCSAT-3W006	-6	A	API/A	10203	2799
115540331	F		MCSAT-3W012	-12	A	API/A	10204	2799
115540328	F		MCSAT-3W018	-18	A	API/A	10201	2799
115540326	F		MCSAT-3W024	-24	A	API/A	10199	2799
115540323	F		MCSAT-3W030	-30	A	API/A	10196	2799
115540322	F		MCSAT-3W036	-36	A	API/A	10195	2799
115540310	F		MCSAT-3W042	-42	A	API/A	10183	2799
115540299	F		MCSAT-3W048	-48	A	API/A	10172	2799
115540300	F		MCSAT-3W054	-54	A	API/A	10173	2799
115540301	F		MCSAT-3W060	-60	A	API/A	10174	2799
115540306	F		MCSAT-3W066	-66	A	API/A	10179	2799
115540308	F		MCSAT-3W072	-72	A	API/A	10181	2799
115540663	F		MCSAT3W078	-78	A	API/A	10539	2800
115540311	F		MCSAT-3W084	-84	A	API/A	10184	2799
115540312	F		MCSAT-3W090	-90	A	API/A	10185	2799
115540313	F		MCSAT-3W096	-96	A	API/A	10186	2799
115540315	F		MCSAT-3W102	-102	A	API/A	10188	2799
115540316	F		MCSAT-3W108	-108	A	API/A	10189	2799
115540317	F		MCSAT-3W114	-114	A	API/A	10190	2799
115540318	F		MCSAT-3W120	-120	A	API/A	10191	2799
115540319	F		MCSAT-3W126	-126	A	API/A	10192	2799
115540320	F		MCSAT-3W132	-132	A	API/A	10193	2799
115540314	F		MCSAT-3W138	-138	A	API/A	10187	2799
115540309	F		MCSAT-3W144	-144	A	API/A	10182	2799
115540307	F		MCSAT-3W150	-150	A	API/A	10180	2799
115540305	F		MCSAT-3W156	-156	A	API/A	10178	2799
115540304	F		MCSAT-3W162	-162	A	API/A	10177	2799
115540302	F		MCSAT-3W168	-168	A	API/A	10175	2799
101500511	F	ESA	MSG	0	N	PART	2	2548
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	1	2702

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101500027	F	EUT	EUTELSAT 1-8	25.5	N	PART	2	2561
92500315	F	EUT	EUTELSAT 2-10E	10	N	PART	2	2553
92500313	F	EUT	EUTELSAT 2-13E	13	N	PART	2	2552
92500314	F	EUT	EUTELSAT 2-16E	16	N	PART	2	2468
95500111	F	EUT	EUTELSAT 2-21.5E	21.5	N	PART	2	2561
95500112	F	EUT	EUTELSAT 2-33E	33	N	PART	1	2608
92500316	F	EUT	EUTELSAT 2-36E	36	N	PART	2	2552
101500079	F	EUT	EUTELSAT 2-4E	4	N	PART	1	2780
92500312	F	EUT	EUTELSAT 2-7E	7	N	PART	2	2553
103500286	F	EUT	EUTELSAT 3-10E	10	N	PART	2	2616
99500228	F	EUT	EUTELSAT 3-12.5W	-12.5	N	PART	2	2617
103500287	F	EUT	EUTELSAT 3-13E	13	N	PART	2	2617
103500288	F	EUT	EUTELSAT 3-16E	16	N	PART	2	2617
103500312	F	EUT	EUTELSAT 3-21.5E	21.5	N	PART	2	2627
108500798	F	EUT	EUTELSAT 3-25.5E	25.5	N	PART	2	2692
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	1	2780
103500277	F	EUT	EUTELSAT 3-70.5E	70.5	N	PART	2	2682
103500280	F	EUT	EUTELSAT 3-7E	7	N	PART	2	2606
107500525	F	EUT	EUTELSAT-B1-13E	13	N	PART	2	2633
107500234	F	EUT	EUTELSAT-B1-16E	16	N	PART	2	2711
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	2761
105500068	F	EUT	EUTELSAT-KA-16E	16	N	PART	2	2711
108500581	F	EUT	EUTELSAT-KA-33E	33	N	PART	2	2707
108500578	F	EUT	EUTELSAT-KA-36E	36	N	PART	2	2708
105500071	F	EUT	EUTELSAT-KA-7E	7	N	PART	2	2634
110500239	F		3GSAT-G17R	10	N	PART	2	2697
111520125	F		ASAT W026	-26	C	CR/C	2895	2700
111520227	F		ASAT-P1B	-2.8	C	CR/C	2953	2722
111520228	F		ASAT-P2B	25	C	CR/C	2954	2722
111520229	F		ASAT-P3B	31.2	C	CR/C	2955	2722
111520306	F		AST-102W	-102	C	CR/C	2986	2741
111520153	F		AST-17.5W	-17.5	C	CR/C	2916	2718
112541074	F		AST-3-0E	0	A	API/A	7994	2734
112541083	F		AST-3-108E	108	A	API/A	8003	2734
112541065	F		AST-3-108W	-108	A	API/A	7985	2734
112541084	F		AST-3-120E	120	A	API/A	8004	2734
112541064	F		AST-3-120W	-120	A	API/A	7984	2734
112541075	F		AST-3-12E	12	A	API/A	7995	2734
112541073	F		AST-3-12W	-12	A	API/A	7993	2734
112541085	F		AST-3-132E	132	A	API/A	8005	2734

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112541086	F		AST-3-144E	144	A	API/A	8006	2734
112541062	F		AST-3-144W	-144	A	API/A	7982	2734
112541087	F		AST-3-156E	156	A	API/A	8007	2734
112541061	F		AST-3-156W	-156	A	API/A	7981	2734
112541088	F		AST-3-168E	168	A	API/A	8008	2734
112541060	F		AST-3-168W	-168	A	API/A	7980	2734
112541089	F		AST-3-180E	180	A	API/A	8009	2734
112541076	F		AST-3-24E	24	A	API/A	7996	2734
112541072	F		AST-3-24W	-24	A	API/A	7992	2734
112541077	F		AST-3-36E	36	A	API/A	7997	2734
112541071	F		AST-3-36W	-36	A	API/A	7991	2734
112541078	F		AST-3-48E	48	A	API/A	7998	2734
112541070	F		AST-3-48W	-48	A	API/A	7990	2734
112541079	F		AST-3-60E	60	A	API/A	7999	2734
112541069	F		AST-3-60W	-60	A	API/A	7989	2734
112541080	F		AST-3-72E	72	A	API/A	8000	2734
112541068	F		AST-3-72W	-72	A	API/A	7988	2734
112541081	F		AST-3-84E	84	A	API/A	8001	2734
112541067	F		AST-3-84W	-84	A	API/A	7987	2734
112541082	F		AST-3-96E	96	A	API/A	8002	2734
112541066	F		AST-3-96W	-96	A	API/A	7986	2734
113540690	F		AST-4-0E	0	A	API/A	8795	2761
113540673	F		AST-4-102E	102	A	API/A	8778	2761
113540707	F		AST-4-102W	-102	A	API/A	8812	2761
113540672	F		AST-4-108E	108	A	API/A	8777	2761
113540708	F		AST-4-108W	-108	A	API/A	8813	2761
113540671	F		AST-4-114E	114	A	API/A	8776	2761
113540709	F		AST-4-114W	-114	A	API/A	8814	2761
113540670	F		AST-4-120E	120	A	API/A	8775	2761
113540710	F		AST-4-120W	-120	A	API/A	8815	2761
113540669	F		AST-4-126E	126	A	API/A	8774	2761
113540711	F		AST-4-126W	-126	A	API/A	8816	2761
113540688	F		AST-4-12E	12	A	API/A	8793	2761
113540692	F		AST-4-12W	-12	A	API/A	8797	2761
113540668	F		AST-4-132E	132	A	API/A	8773	2761
113540712	F		AST-4-132W	-132	A	API/A	8817	2761
113540667	F		AST-4-138E	138	A	API/A	8772	2761
113540713	F		AST-4-138W	-138	A	API/A	8818	2761
113540666	F		AST-4-144E	144	A	API/A	8771	2761
113540714	F		AST-4-144W	-144	A	API/A	8819	2761
113540665	F		AST-4-150E	150	A	API/A	8770	2761
113540715	F		AST-4-150W	-150	A	API/A	8820	2761
113540664	F		AST-4-156E	156	A	API/A	8769	2761
113540716	F		AST-4-156W	-156	A	API/A	8821	2761

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113540662	F		AST-4-168E	168	A	API/A	8767	2761
113540718	F		AST-4-168W	-168	A	API/A	8823	2761
113540661	F		AST-4-174E	174	A	API/A	8766	2761
113540719	F		AST-4-174W	-174	A	API/A	8824	2761
113540660	F		AST-4-180E	180	A	API/A	8765	2761
113540687	F		AST-4-18E	18	A	API/A	8792	2761
113540693	F		AST-4-18W	-18	A	API/A	8798	2761
113540686	F		AST-4-24E	24	A	API/A	8791	2761
113540694	F		AST-4-24W	-24	A	API/A	8799	2761
113540685	F		AST-4-30E	30	A	API/A	8790	2761
113540695	F		AST-4-30W	-30	A	API/A	8800	2761
113540684	F		AST-4-36E	36	A	API/A	8789	2761
113540696	F		AST-4-36W	-36	A	API/A	8801	2761
113540683	F		AST-4-42E	42	A	API/A	8788	2761
113540697	F		AST-4-42W	-42	A	API/A	8802	2761
113540682	F		AST-4-48E	48	A	API/A	8787	2761
113540698	F		AST-4-48W	-48	A	API/A	8803	2761
113540681	F		AST-4-54E	54	A	API/A	8786	2761
113540699	F		AST-4-54W	-54	A	API/A	8804	2761
113540680	F		AST-4-60E	60	A	API/A	8785	2761
113540700	F		AST-4-60W	-60	A	API/A	8805	2761
113540679	F		AST-4-66E	66	A	API/A	8784	2761
113540701	F		AST-4-66W	-66	A	API/A	8806	2761
113540689	F		AST-4-6E	6	A	API/A	8794	2761
113540691	F		AST-4-6W	-6	A	API/A	8796	2761
113540678	F		AST-4-72E	72	A	API/A	8783	2761
113540702	F		AST-4-72W	-72	A	API/A	8807	2761
113540677	F		AST-4-78E	78	A	API/A	8782	2761
113540703	F		AST-4-78W	-78	A	API/A	8808	2761
113540676	F		AST-4-84E	84	A	API/A	8781	2761
113540704	F		AST-4-84W	-84	A	API/A	8809	2761
113540675	F		AST-4-90E	90	A	API/A	8780	2761
113540705	F		AST-4-90W	-90	A	API/A	8810	2761
113540674	F		AST-4-96E	96	A	API/A	8779	2761
113540706	F		AST-4-96W	-96	A	API/A	8811	2761
114540793	F		AST-5-0E	0	A	API/A	9699	2789
114540810	F		AST-5-102E	102	A	API/A	9716	2789
114540776	F		AST-5-102W	-102	A	API/A	9682	2789
114540811	F		AST-5-108E	108	A	API/A	9717	2789
114540775	F		AST-5-108W	-108	A	API/A	9681	2789
114540812	F		AST-5-114E	114	A	API/A	9718	2789
114540774	F		AST-5-114W	-114	A	API/A	9680	2789
114540813	F		AST-5-120E	120	A	API/A	9719	2789

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114540814	F		AST-5-126E	126	A	API/A	9720	2789
114540772	F		AST-5-126W	-126	A	API/A	9678	2789
114540795	F		AST-5-12E	12	A	API/A	9701	2789
114540791	F		AST-5-12W	-12	A	API/A	9697	2789
114540815	F		AST-5-132E	132	A	API/A	9721	2789
114540771	F		AST-5-132W	-132	A	API/A	9677	2789
114540816	F		AST-5-138E	138	A	API/A	9722	2789
114540770	F		AST-5-138W	-138	A	API/A	9676	2789
114540817	F		AST-5-144E	144	A	API/A	9723	2789
114540769	F		AST-5-144W	-144	A	API/A	9675	2789
114540818	F		AST-5-150E	150	A	API/A	9724	2789
114540768	F		AST-5-150W	-150	A	API/A	9674	2789
114540819	F		AST-5-156E	156	A	API/A	9725	2789
114540767	F		AST-5-156W	-156	A	API/A	9673	2789
114540820	F		AST-5-162E	162	A	API/A	9726	2789
114540766	F		AST-5-162W	-162	A	API/A	9672	2789
114540821	F		AST-5-168E	168	A	API/A	9727	2789
114540765	F		AST-5-168W	-168	A	API/A	9671	2789
114540822	F		AST-5-174E	174	A	API/A	9728	2789
114540764	F		AST-5-174W	-174	A	API/A	9670	2789
114540823	F		AST-5-180E	180	A	API/A	9729	2789
114540796	F		AST-5-18E	18	A	API/A	9702	2789
114540790	F		AST-5-18W	-18	A	API/A	9696	2789
114540797	F		AST-5-24E	24	A	API/A	9703	2789
114540789	F		AST-5-24W	-24	A	API/A	9695	2789
114540798	F		AST-5-30E	30	A	API/A	9704	2789
114540788	F		AST-5-30W	-30	A	API/A	9694	2789
114540799	F		AST-5-36E	36	A	API/A	9705	2789
114540787	F		AST-5-36W	-36	A	API/A	9693	2789
114540800	F		AST-5-42E	42	A	API/A	9706	2789
114540786	F		AST-5-42W	-42	A	API/A	9692	2789
114540801	F		AST-5-48E	48	A	API/A	9707	2789
114540785	F		AST-5-48W	-48	A	API/A	9691	2789
114540802	F		AST-5-54E	54	A	API/A	9708	2789
114540784	F		AST-5-54W	-54	A	API/A	9690	2789
114540803	F		AST-5-60E	60	A	API/A	9709	2789
114540783	F		AST-5-60W	-60	A	API/A	9689	2789
114540804	F		AST-5-66E	66	A	API/A	9710	2789
114540782	F		AST-5-66W	-66	A	API/A	9688	2789
114540794	F		AST-5-6E	6	A	API/A	9700	2789
114540792	F		AST-5-6W	-6	A	API/A	9698	2789
114540805	F		AST-5-72E	72	A	API/A	9711	2789
114540781	F		AST-5-72W	-72	A	API/A	9687	2789
114540806	F		AST-5-78E	78	A	API/A	9712	2789

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114540807	F		AST-5-84E	84	A	API/A	9713	2789
114540779	F		AST-5-84W	-84	A	API/A	9685	2789
114540808	F		AST-5-90E	90	A	API/A	9714	2789
114540778	F		AST-5-90W	-90	A	API/A	9684	2789
114540809	F		AST-5-96E	96	A	API/A	9715	2789
114540777	F		AST-5-96W	-96	A	API/A	9683	2789
113540548	F		AST-W2-115W	-115	A	API/A	8674	2756
113540547	F		AST-W2-121W	-121	A	API/A	8673	2756
113540546	F		AST-W2-127W	-127	A	API/A	8672	2756
113540545	F		AST-W2-132W	-132	A	API/A	8671	2756
113540544	F		AST-W2-135W	-135	A	API/A	8670	2756
108540164	F		ATHENA-FIDUS-23.7E	23.7	A	API/A	5093	2645
108540165	F		ATHENA-FIDUS-25E	25	A	API/A	5094	2639
108540166	F		ATHENA-FIDUS-31E	31	A	API/A	5095	2645
112540556	F		ATHENA-FIDUS-36.5E	36.5	A	API/A	7693	2723
115500038	F		ATHENA-FIDUS-38E	38	N	PART	2	2808
108540168	F		ATHENA-FIDUS-49E	49	A	API/A	5097	2645
111540725	F		BASAT E180	180	A	API/A	7157	2735
111540690	F		BASAT W030	-30	A	API/A	7122	2735
111540674	F		BASAT W126	-126	A	API/A	7106	2735
111540666	F		BASAT W174	-174	A	API/A	7098	2735
115520018	F		BT-SAT 21.5E	21.5	C	CR/C	3745	2800
115523009	F		BT-SAT 21.5E_1	21.5	C	CR/F	210	2800
114520139	F		BT-SAT 44.2E	44.2	C	CR/C	3628	2796
114523027	F		BT-SAT 44.2E_1	44.2	C	CR/F	148	2783
114520033	F		CD-SAT 105.2E	105.2	C	CR/C	3559	2791
114523002	F		CD-SAT 105.2E_1	105.2	C	CR/F	130	2777
113520185	F		CD-SAT 123.1W	-123.1	C	CR/C	3429	2772
113520201	F		CD-SAT 148E	148	C	CR/C	3438	2774
113523042	F		CD-SAT 148E_1	148	C	CR/F	66	2760
113520202	F		CD-SAT 152E	152	C	CR/C	3439	2774
113523043	F		CD-SAT 152E_1	152	C	CR/F	67	2760
108540068	F		CP 125.2E	125.2	A	API/A	4996	2647
112520145	F		CP 60.75E G2	60.75	C	CR/C	3175	2744
112523003	F		CP 60.75E G2_1	60.75	C	CR/F	7	2731
108540076	F		DRN-P1B	-48	A	API/A	5004	2632
108520189	F		DRN-P2B	21.5	C	CR/C	2274	2646
108540060	F		DRN-P3B	31	A	API/A	4988	2632
108540061	F		DRN-P4B	36.5	A	API/A	4989	2632
109520269	F		DUNIA-2	8	C	CR/C	2497	2684
114520120	F		DUNIA-3	8	C	CR/C	3619	2796
114523029	F		DUNIA-3_1	8	C	CR/F	144	2781
113500064	F		EDRS-1	9	N	PART	2	2762
112520438	F		EDRS-31E	31	C	CR/C	3285	2753

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112540866	F		ESP-19.2E	19.2	A	API/A	7909	2729
112540867	F		ESP-23.5E	23.5	A	API/A	7910	2729
112540868	F		ESP-28.2E	28.2	A	API/A	7911	2729
114520028	F		F-MILSATCOM2-25E	25	C	CR/C	3552	2791
114520027	F		F-MILSATCOM2-3E	3	C	CR/C	3551	2791
114520029	F		F-MILSATCOM2-45E	45	C	CR/C	3553	2791
114520030	F		F-MILSATCOM2-47E	47	C	CR/C	3554	2791
112520056	F		F-MILSATCOM-25E	25	C	CR/C	3132	2741
114520025	F		F-MILSATCOM2-8W	-8	C	CR/C	3556	2791
112520055	F		F-MILSATCOM-3E	3	C	CR/C	3131	2741
112520057	F		F-MILSATCOM-45E	45	C	CR/C	3133	2741
112520058	F		F-MILSATCOM-47E	47	C	CR/C	3134	2741
112520054	F		F-MILSATCOM-5W	-5	C	CR/C	3135	2741
112520053	F		F-MILSATCOM-8W	-8	C	CR/C	3136	2741
109520017	F		F-SAT-B1-E-3E	3	C	CR/C	2370	2643
110500280	F		F-SAT-C-E-10E	10	N	PART	2	2697
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
110500034	F		F-SAT-KA-E-13E	13	N	PART	2	2761
109520212	F		F-SAT-KA-E-3E	3	C	CR/C	2454	2677
108540183	F		F-SAT-KA-E-76E	76	A	API/A	5107	2618
111500056	F		F-SAT-KA-E-7E	7	N	PART	2	2704
112500078	F		F-SAT-KA-E-9E	9	N	PART	2	2751
109520211	F		F-SAT-KB1-E-7W	-7	C	CR/C	2453	2751
112523013	F		F-SAT-KB1-E-7W_1	-7	C	CR/F	23	2743
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
110520468	F		F-SAT-KM-33E	33	C	CR/E	44	2703
110520467	F		F-SAT-KM-9E	9	C	CR/C	2791	2703
110520467	F		F-SAT-KM-9E	9	C	CR/E	43	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

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111500027	F		F-SAT-KU2-E-4E	4	N	PART	2	2773
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	2735
111500033	F		F-SAT-KU3-E-70.5E	70.5	N	PART	2	2702
106500340	F		F-SAT-KU-E-5W	-5	N	PART	2	2668
113500187	F		F-SAT-KU-E-7W	-7	N	PART	2	2799
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	2716
111520077	F		F-SAT-N-11.5E	11.5	C	CR/E	78	2716
111520086	F		F-SAT-N1-1.6E	1.6	C	CR/C	2858	2719
111520091	F		F-SAT-N1-10E	10	C	CR/C	2863	2698
111520091	F		F-SAT-N1-10E	10	C	CR/E	335	2698
111520105	F		F-SAT-N1-11W	-11	C	CR/C	2877	2720
111520100	F		F-SAT-N1-12.5W	-12.5	C	CR/C	2872	2698
111520100	F		F-SAT-N1-12.5W	-12.5	C	CR/E	341	2698
111520118	F		F-SAT-N1-133.5E	133.5	C	CR/C	2891	2720
111520134	F		F-SAT-N1-137E	137	C	CR/C	2908	2718
111520092	F		F-SAT-N1-13E	13	C	CR/C	2864	2710
111520092	F		F-SAT-N1-13E	13	C	CR/E	336	2710
111520133	F		F-SAT-N1-14.8W	-14.8	C	CR/C	2907	2719
111520135	F		F-SAT-N1-155.9E	155.9	C	CR/C	2909	2718
111520136	F		F-SAT-N1-163.5E	163.5	C	CR/C	2910	2718
111520137	F		F-SAT-N1-164.1E	164.1	C	CR/C	2911	2718
111520138	F		F-SAT-N1-169E	169	C	CR/C	2912	2718
111520093	F		F-SAT-N1-16E	16	C	CR/C	2865	2698
111520093	F		F-SAT-N1-16E	16	C	CR/E	337	2698
111520139	F		F-SAT-N1-170.5E	170.5	C	CR/C	2913	2718
111520094	F		F-SAT-N1-21.5E	21.5	C	CR/C	2866	2728
111520095	F		F-SAT-N1-25.5E	25.5	C	CR/C	2867	2728
111520104	F		F-SAT-N1-28.5E	28.5	C	CR/C	2878	2728
111520106	F		F-SAT-N1-33E	33	C	CR/C	2879	2728
111520107	F		F-SAT-N1-36E	36	C	CR/C	2880	2728
111520087	F		F-SAT-N1-3E	3	C	CR/C	2859	2719
111520087	F		F-SAT-N1-3E	3	C	CR/E	332	2719
111520096	F		F-SAT-N1-3W	-3	C	CR/C	2868	2719
111520078	F		F-SAT-N-14.5E	14.5	C	CR/C	2844	2716
111520078	F		F-SAT-N-14.5E	14.5	C	CR/E	79	2716
111520108	F		F-SAT-N1-40E	40	C	CR/C	2881	2720
111520109	F		F-SAT-N1-48E	48	C	CR/C	2882	2728
111520088	F		F-SAT-N1-4E	4	C	CR/C	2860	2719
111520110	F		F-SAT-N1-58.45E	58.45	C	CR/C	2883	2720
111520097	F		F-SAT-N1-5W	-5	C	CR/C	2869	2710

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111520079	F		F-SAT-N-17.5E	17.5	C	CR/C	2852	2719
111520111	F		F-SAT-N1-70.5E	70.5	C	CR/C	2884	2728
113520060	F		F-SAT-N-172E	172	C	CR/C	3368	2760
113520060	F		F-SAT-N-172E	172	C	CR/E	583	2760
113523026	F		F-SAT-N-172E_1	172	C	CR/F	49	2750
111520112	F		F-SAT-N1-73.5E	73.5	C	CR/C	2885	2720
111520113	F		F-SAT-N1-76E	76	C	CR/C	2886	2728
111520089	F		F-SAT-N1-7E	7	C	CR/C	2861	2698
111520089	F		F-SAT-N1-7E	7	C	CR/E	333	2698
111520098	F		F-SAT-N1-7W	-7	C	CR/C	2870	2710
111520098	F		F-SAT-N1-7W	-7	C	CR/E	339	2710
111520114	F		F-SAT-N1-80.5E	80.5	C	CR/C	2887	2720
111520115	F		F-SAT-N1-83.5E	83.5	C	CR/C	2888	2699
111520115	F		F-SAT-N1-83.5E	83.5	C	CR/E	342	2699
111520116	F		F-SAT-N1-88.5E	88.5	C	CR/C	2889	2720
111520099	F		F-SAT-N1-8W	-8	C	CR/C	2871	2710
111520099	F		F-SAT-N1-8W	-8	C	CR/E	340	2710
111520117	F		F-SAT-N1-96E	96	C	CR/C	2890	2711
111520117	F		F-SAT-N1-96E	96	C	CR/E	343	2711
111520090	F		F-SAT-N1-9E	9	C	CR/C	2862	2716
111520090	F		F-SAT-N1-9E	9	C	CR/E	334	2716
111520074	F		F-SAT-N-1E	1	C	CR/C	2845	2716
111520074	F		F-SAT-N-1E	1	C	CR/E	80	2716
112540710	F		F-SAT-N2-100W	-100	A	API/A	7785	2727
112520396	F		F-SAT-N2-140E	140	C	CR/C	3239	2751
112523018	F		F-SAT-N2-140E_1	140	C	CR/F	18	2740
112540565	F		F-SAT-N2-142W	-142	A	API/A	7702	2723
112540564	F		F-SAT-N2-144W	-144	A	API/A	7701	2723
112540563	F		F-SAT-N2-146W	-146	A	API/A	7700	2723
112540562	F		F-SAT-N2-148W	-148	A	API/A	7699	2723
112540561	F		F-SAT-N2-150W	-150	A	API/A	7698	2723
112540560	F		F-SAT-N2-152W	-152	A	API/A	7697	2723
112540559	F		F-SAT-N2-154W	-154	A	API/A	7696	2723
112540558	F		F-SAT-N2-156W	-156	A	API/A	7695	2723
112540557	F		F-SAT-N2-158W	-158	A	API/A	7694	2723
112520395	F		F-SAT-N2-39E	39	C	CR/C	3238	2751
112523017	F		F-SAT-N2-39E_1	39	C	CR/F	19	2740
112540697	F		F-SAT-N2-59.5W	-59.5	A	API/A	7772	2727
112540698	F		F-SAT-N2-63.2W	-63.2	A	API/A	7773	2727
112540699	F		F-SAT-N2-66.5W	-66.5	A	API/A	7774	2727
112540700	F		F-SAT-N2-72W	-72	A	API/A	7775	2727
112540701	F		F-SAT-N2-74.75W	-74.75	A	API/A	7776	2727
112540702	F		F-SAT-N2-77W	-77	A	API/A	7777	2727
111520080	F		F-SAT-N-27E	27	C	CR/C	2846	2716

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112540703	F		F-SAT-N2-80W	-80	A	API/A	7778	2727
112540704	F		F-SAT-N2-81W	-81	A	API/A	7779	2727
112540705	F		F-SAT-N2-86W	-86	A	API/A	7780	2727
112540706	F		F-SAT-N2-90W	-90	A	API/A	7781	2727
112540707	F		F-SAT-N2-94W	-94	A	API/A	7782	2727
112540708	F		F-SAT-N2-96W	-96	A	API/A	7783	2727
112540709	F		F-SAT-N2-97W	-97	A	API/A	7784	2727
113520236	F		F-SAT-N3-1.6E	1.6	C	CR/C	3475	2782
113523053	F		F-SAT-N3-1.6E_1	1.6	C	CR/F	83	2765
113520285	F		F-SAT-N3-100W	-100	C	CR/C	3529	2785
113520240	F		F-SAT-N3-10E	10	C	CR/C	3480	2782
113523057	F		F-SAT-N3-10E_1	10	C	CR/F	88	2766
113520255	F		F-SAT-N3-11.5E	11.5	C	CR/C	3481	2782
113523069	F		F-SAT-N3-11.5E_1	11.5	C	CR/F	89	2766
113520232	F		F-SAT-N3-12.5W	-12.5	C	CR/C	3499	2782
113523049	F		F-SAT-N3-12.5W_1	-12.5	C	CR/F	107	2766
113520291	F		F-SAT-N3-133.5E	133.5	C	CR/C	3524	2785
113523090	F		F-SAT-N3-133.5E_1	133.5	C	CR/F	113	2769
113520292	F		F-SAT-N3-136E	136	C	CR/C	3520	2785
113523091	F		F-SAT-N3-136E_1	136	C	CR/F	114	2769
113520241	F		F-SAT-N3-13E	13	C	CR/C	3482	2782
113523058	F		F-SAT-N3-13E_1	13	C	CR/F	90	2766
113520256	F		F-SAT-N3-14.5E	14.5	C	CR/C	3483	2782
113523070	F		F-SAT-N3-14.5E_1	14.5	C	CR/F	91	2766
113520231	F		F-SAT-N3-14.8W	-14.8	C	CR/C	3500	2782
113523048	F		F-SAT-N3-14.8W_1	-14.8	C	CR/F	108	2766
113520293	F		F-SAT-N3-155.9E	155.9	C	CR/C	3522	2785
113523092	F		F-SAT-N3-155.9E_1	155.9	C	CR/F	115	2769
113520294	F		F-SAT-N3-169E	169	C	CR/C	3523	2785
113523093	F		F-SAT-N3-169E_1	169	C	CR/F	116	2769
113520242	F		F-SAT-N3-16E	16	C	CR/C	3484	2782
113523059	F		F-SAT-N3-16E_1	16	C	CR/F	92	2766
113520243	F		F-SAT-N3-21.5E	21.5	C	CR/C	3485	2782
113523060	F		F-SAT-N3-21.5E_1	21.5	C	CR/F	93	2766
113520244	F		F-SAT-N3-25.5E	25.5	C	CR/C	3486	2782
113523061	F		F-SAT-N3-25.5E_1	25.5	C	CR/F	94	2766
113520245	F		F-SAT-N3-28.5E	28.5	C	CR/C	3487	2782
113523062	F		F-SAT-N3-28.5E_1	28.5	C	CR/F	95	2766
113520257	F		F-SAT-N3-33E	33	C	CR/C	3488	2782
113523071	F		F-SAT-N3-33E_1	33	C	CR/F	96	2766
113520258	F		F-SAT-N3-34.5E	34.5	C	CR/C	3489	2782
113523072	F		F-SAT-N3-34.5E_1	34.5	C	CR/F	97	2766
113520246	F		F-SAT-N3-36E	36	C	CR/C	3490	2782
113523063	F		F-SAT-N3-36E_1	36	C	CR/F	98	2766

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113523089	F		F-SAT-N3-36W_1	-36	C	CR/F	117	2769
113520259	F		F-SAT-N3-37.5E	37.5	C	CR/C	3491	2782
113523073	F		F-SAT-N3-37.5E_1	37.5	C	CR/F	99	2766
113520289	F		F-SAT-N3-39W	-39	C	CR/C	3525	2785
113523088	F		F-SAT-N3-39W_1	-39	C	CR/F	118	2769
113520237	F		F-SAT-N3-3E	3	C	CR/C	3476	2782
113523054	F		F-SAT-N3-3E_1	3	C	CR/F	84	2765
111520081	F		F-SAT-N-34.5E	34.5	C	CR/C	2847	2716
111520081	F		F-SAT-N-34.5E	34.5	C	CR/E	331	2716
113520247	F		F-SAT-N3-48E	48	C	CR/C	3492	2782
113523064	F		F-SAT-N3-48E_1	48	C	CR/F	100	2766
113520238	F		F-SAT-N3-4E	4	C	CR/C	3477	2782
113523055	F		F-SAT-N3-4E_1	4	C	CR/F	85	2765
113520288	F		F-SAT-N3-51.5W	-51.5	C	CR/C	3526	2785
113523087	F		F-SAT-N3-51.5W_1	-51.5	C	CR/F	119	2769
113520227	F		F-SAT-N3-55.2W	-55.2	C	CR/C	3515	2782
113523086	F		F-SAT-N3-55.2W_1	-55.2	C	CR/F	110	2768
113520248	F		F-SAT-N3-58.45E	58.45	C	CR/C	3493	2782
113523065	F		F-SAT-N3-58.45E_1	58.45	C	CR/F	101	2766
113520235	F		F-SAT-N3-5W	-5	C	CR/C	3496	2782
113523052	F		F-SAT-N3-5W_1	-5	C	CR/F	104	2766
111520082	F		F-SAT-N-37.5E	37.5	C	CR/C	2853	2719
113520249	F		F-SAT-N3-70.5E	70.5	C	CR/C	3494	2782
113523066	F		F-SAT-N3-70.5E_1	70.5	C	CR/F	102	2766
113520250	F		F-SAT-N3-73.5E	73.5	C	CR/C	3495	2782
113523067	F		F-SAT-N3-73.5E_1	73.5	C	CR/F	103	2766
113520239	F		F-SAT-N3-7E	7	C	CR/C	3478	2782
113523056	F		F-SAT-N3-7E_1	7	C	CR/F	86	2766
113520234	F		F-SAT-N3-7W	-7	C	CR/C	3497	2782
113523051	F		F-SAT-N3-7W_1	-7	C	CR/F	105	2766
113520287	F		F-SAT-N3-86W	-86	C	CR/C	3527	2785
113520233	F		F-SAT-N3-8W	-8	C	CR/C	3498	2782
113523050	F		F-SAT-N3-8W_1	-8	C	CR/F	106	2766
113520286	F		F-SAT-N3-90W	-90	C	CR/C	3528	2785
113520254	F		F-SAT-N3-9E	9	C	CR/C	3479	2782
113523068	F		F-SAT-N3-9E_1	9	C	CR/F	87	2766
114520251	F		F-SAT-N4-108.5E	108.5	C	CR/C	3676	2805
114523068	F		F-SAT-N4-108.5E_1	108.5	C	CR/F	172	2790
114520252	F		F-SAT-N4-111.5E	111.5	C	CR/C	3677	2805
114523069	F		F-SAT-N4-111.5E_1	111.5	C	CR/F	173	2790
114540840	F		F-SAT-N4-111W	-111	A	API/A	9751	2787
115520058	F		F-SAT-N4-113W	-113	C	CR/C	3781	2805
115523014	F		F-SAT-N4-113W_1	-113	C	CR/F	217	2801
115520127	F		F-SAT-N4-116.9W	-116.9	C	CR/C	3821	2805

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114520253	F		F-SAT-N4-117.4E	117.4	C	CR/C	3702	2808
114523070	F		F-SAT-N4-117.4E_1	117.4	C	CR/F	174	2790
114520244	F		F-SAT-N4-11W	-11	C	CR/C	3716	2808
114523061	F		F-SAT-N4-11W_1	-11	C	CR/F	186	2790
114520254	F		F-SAT-N4-123.5E	123.5	C	CR/C	3703	2808
114523071	F		F-SAT-N4-123.5E_1	123.5	C	CR/F	175	2790
114520255	F		F-SAT-N4-127E	127	C	CR/C	3685	2805
114523072	F		F-SAT-N4-127E_1	127	C	CR/F	176	2790
115520008	F		F-SAT-N4-133W	-133	C	CR/C	3735	2798
115523001	F		F-SAT-N4-133W_1	-133	C	CR/F	206	2798
114520256	F		F-SAT-N4-137E	137	C	CR/C	3683	2805
114523073	F		F-SAT-N4-137E_1	137	C	CR/F	177	2790
114520225	F		F-SAT-N4-139W	-139	C	CR/C	3707	2808
114523052	F		F-SAT-N4-139W_1	-139	C	CR/F	195	2790
114520257	F		F-SAT-N4-140E	140	C	CR/C	3686	2805
114523074	F		F-SAT-N4-140E_1	140	C	CR/F	178	2790
114540215	F		F-SAT-N4-144W	-144	A	API/A	9155	2774
114520224	F		F-SAT-N4-146W	-146	C	CR/C	3708	2808
114523051	F		F-SAT-N4-146W_1	-146	C	CR/F	196	2790
114540213	F		F-SAT-N4-148W	-148	A	API/A	9153	2774
114540212	F		F-SAT-N4-150W	-150	A	API/A	9152	2774
114520258	F		F-SAT-N4-152E	152	C	CR/C	3682	2805
114523075	F		F-SAT-N4-152E_1	152	C	CR/F	179	2790
114520223	F		F-SAT-N4-152W	-152	C	CR/C	3709	2808
114523050	F		F-SAT-N4-152W_1	-152	C	CR/F	197	2790
114540210	F		F-SAT-N4-154W	-154	A	API/A	9150	2774
114520222	F		F-SAT-N4-156W	-156	C	CR/C	3710	2808
114523049	F		F-SAT-N4-156W_1	-156	C	CR/F	198	2790
114540208	F		F-SAT-N4-158W	-158	A	API/A	9148	2774
114520259	F		F-SAT-N4-163.5E	163.5	C	CR/C	3684	2805
114523076	F		F-SAT-N4-163.5E_1	163.5	C	CR/F	180	2790
114520260	F		F-SAT-N4-164.1E	164.1	C	CR/C	3681	2805
114523077	F		F-SAT-N4-164.1E_1	164.1	C	CR/F	181	2790
114520261	F		F-SAT-N4-170.5E	170.5	C	CR/C	3680	2805
114523078	F		F-SAT-N4-170.5E_1	170.5	C	CR/F	182	2790
114520262	F		F-SAT-N4-174E	174	C	CR/C	3678	2805
114523079	F		F-SAT-N4-174E_1	174	C	CR/F	183	2790
114520263	F		F-SAT-N4-178E	178	C	CR/C	3679	2805
114523080	F		F-SAT-N4-178E_1	178	C	CR/F	184	2790
114540238	F		F-SAT-N4-1E	1	A	API/A	9178	2774
114520243	F		F-SAT-N4-21W	-21	C	CR/C	3704	2808
114523060	F		F-SAT-N4-21W_1	-21	C	CR/F	187	2790
114520242	F		F-SAT-N4-24W	-24	C	CR/C	3705	2808
114523059	F		F-SAT-N4-24W_1	-24	C	CR/F	188	2790

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114523058	F		F-SAT-N4-28W_1	-28	C	CR/F	189	2790
114520240	F		F-SAT-N4-32W	-32	C	CR/C	3688	2808
114523057	F		F-SAT-N4-32W_1	-32	C	CR/F	190	2791
114520239	F		F-SAT-N4-34W	-34	C	CR/C	3689	2808
114523056	F		F-SAT-N4-34W_1	-34	C	CR/F	191	2790
114540237	F		F-SAT-N4-3W	-3	A	API/A	9177	2774
114520238	F		F-SAT-N4-54W	-54	C	CR/C	3690	2808
114523055	F		F-SAT-N4-54W_1	-54	C	CR/F	192	2790
114520237	F		F-SAT-N4-56.5W	-56.5	C	CR/C	3691	2808
114523054	F		F-SAT-N4-56.5W_1	-56.5	C	CR/F	193	2790
114520236	F		F-SAT-N4-57W	-57	C	CR/C	3706	2808
114523053	F		F-SAT-N4-57W_1	-57	C	CR/F	194	2790
114520235	F		F-SAT-N4-59.5W	-59.5	C	CR/C	3692	2808
114520234	F		F-SAT-N4-63.2W	-63.2	C	CR/C	3693	2808
114520233	F		F-SAT-N4-66.5W	-66.5	C	CR/C	3694	2808
114520232	F		F-SAT-N4-72W	-72	C	CR/C	3695	2808
114520231	F		F-SAT-N4-74.75W	-74.75	C	CR/C	3696	2808
114520230	F		F-SAT-N4-77W	-77	C	CR/C	3700	2808
114520246	F		F-SAT-N4-80.5E	80.5	C	CR/C	3711	2808
114523063	F		F-SAT-N4-80.5E_1	80.5	C	CR/F	167	2790
114520229	F		F-SAT-N4-80W	-80	C	CR/C	3697	2808
114520228	F		F-SAT-N4-81W	-81	C	CR/C	3698	2808
114520247	F		F-SAT-N4-83.5E	83.5	C	CR/C	3712	2808
114523064	F		F-SAT-N4-83.5E_1	83.5	C	CR/F	168	2790
114520248	F		F-SAT-N4-87E	87	C	CR/C	3713	2808
114523065	F		F-SAT-N4-87E_1	87	C	CR/F	169	2790
114520249	F		F-SAT-N4-88.5E	88.5	C	CR/C	3714	2808
114523066	F		F-SAT-N4-88.5E_1	88.5	C	CR/F	170	2790
114520245	F		F-SAT-N4-9.5W	-9.5	C	CR/C	3717	2808
114523062	F		F-SAT-N4-9.5W_1	-9.5	C	CR/F	185	2790
114520227	F		F-SAT-N4-94W	-94	C	CR/C	3699	2808
114540244	F		F-SAT-N4-96.5E	96.5	A	API/A	9184	2774
114520250	F		F-SAT-N4-96E	96	C	CR/C	3715	2808
114523067	F		F-SAT-N4-96E_1	96	C	CR/F	171	2790
114520226	F		F-SAT-N4-96W	-96	C	CR/C	3701	2808
111520075	F		F-SAT-N-5.5E	5.5	C	CR/C	2850	2719
111520072	F		F-SAT-N-6W	-6	C	CR/C	2848	2719
112520491	F		F-SAT-N-7W	-7	C	CR/C	3316	2758
112523026	F		F-SAT-N-7W_1	-7	C	CR/F	24	2745
111520076	F		F-SAT-N-8.5E	8.5	C	CR/C	2851	2719
111520073	F		F-SAT-N-9.5W	-9.5	C	CR/C	2849	2719
112520413	F		F-SAT-N-A-13E	13	C	CR/C	3244	2737
112520414	F		F-SAT-N-A-16E	16	C	CR/C	3245	2737
112520415	F		F-SAT-N-A-25.5E	25.5	C	CR/C	3246	2737

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112520417	F		F-SAT-N-A-36E	36	C	CR/C	3248	2737
112520418	F		F-SAT-N-A-48E	48	C	CR/C	3249	2737
112520410	F		F-SAT-N-A-5W	-5	C	CR/C	3250	2749
112520410	F		F-SAT-N-A-5W	-5	C	CR/E	438	2749
112520411	F		F-SAT-N-A-7E	7	C	CR/C	3242	2749
112520411	F		F-SAT-N-A-7E	7	C	CR/E	436	2749
112520409	F		F-SAT-N-A-7W	-7	C	CR/C	3251	2737
112520408	F		F-SAT-N-A-8W	-8	C	CR/C	3252	2737
112520412	F		F-SAT-N-A-9E	9	C	CR/C	3243	2749
112520412	F		F-SAT-N-A-9E	9	C	CR/E	437	2749
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
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
114500146	F		F-SAT-N-E-8W	-8	N	PART	2	2807
112500206	F		F-SAT-S-E-10E	10	N	PART	2	2742
113540094	F		GEONAVSAT-A	-8	A	API/A	8310	2746
113540095	F		GEONAVSAT-B	4	A	API/A	8311	2746
113540096	F		GEONAVSAT-C	16	A	API/A	8312	2746
110500276	F		GEOSAT-3E	3	N	PART	2	2697
113540596	F		HORIZONSAT-1	-1	A	API/A	8706	2759
113540597	F		HORIZONSAT-2	48	A	API/A	8707	2759

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113540598	F		HORIZONSAT-3	14	A	API/A	8708	2759
113540599	F		HORIZONSAT-4	36	A	API/A	8709	2759
114540149	F		HORIZONSAT-5	69	A	API/A	9096	2771
114540150	F		HORIZONSAT-6	86	A	API/A	9097	2771
114540151	F		HORIZONSAT-7	133	A	API/A	9098	2771
114520140	F		LH-SAT 151.5E	151.5	C	CR/C	3627	2796
114523028	F		LH-SAT 151.5E_1	151.5	C	CR/F	147	2783
112541318	F		MCSAT E000	0	A	API/A	8184	2741
112541319	F		MCSAT E006	6	A	API/A	8185	2741
112541320	F		MCSAT E012	12	A	API/A	8186	2741
112541321	F		MCSAT E018	18	A	API/A	8187	2741
112541322	F		MCSAT E024	24	A	API/A	8188	2741
112541323	F		MCSAT E030	30	A	API/A	8189	2741
112541324	F		MCSAT E036	36	A	API/A	8190	2741
112541325	F		MCSAT E042	42	A	API/A	8191	2741
112541326	F		MCSAT E048	48	A	API/A	8192	2741
112541327	F		MCSAT E054	54	A	API/A	8193	2741
112541328	F		MCSAT E060	60	A	API/A	8194	2741
112541329	F		MCSAT E066	66	A	API/A	8195	2741
112541330	F		MCSAT E072	72	A	API/A	8196	2741
112541331	F		MCSAT E078	78	A	API/A	8197	2741
112541332	F		MCSAT E084	84	A	API/A	8198	2741
112541333	F		MCSAT E090	90	A	API/A	8199	2741
112541334	F		MCSAT E096	96	A	API/A	8200	2741
112541335	F		MCSAT E102	102	A	API/A	8201	2741
112541337	F		MCSAT E114	114	A	API/A	8203	2741
112541338	F		MCSAT E120	120	A	API/A	8204	2741
112541339	F		MCSAT E126	126	A	API/A	8205	2741
112541340	F		MCSAT E132	132	A	API/A	8206	2741
112541341	F		MCSAT E138	138	A	API/A	8207	2741
112541344	F		MCSAT E156	156	A	API/A	8210	2741
112541345	F		MCSAT E162	162	A	API/A	8211	2741
112541346	F		MCSAT E168	168	A	API/A	8212	2741
112541347	F		MCSAT E174	174	A	API/A	8213	2741
112541348	F		MCSAT E180	180	A	API/A	8214	2741
112541349	F		MCSAT W006	-6	A	API/A	8215	2741
112541350	F		MCSAT W012	-12	A	API/A	8216	2741
112541351	F		MCSAT W018	-18	A	API/A	8217	2741
112541352	F		MCSAT W024	-24	A	API/A	8218	2741
112541353	F		MCSAT W030	-30	A	API/A	8219	2741
112541354	F		MCSAT W036	-36	A	API/A	8220	2741
112541355	F		MCSAT W042	-42	A	API/A	8221	2741
112541356	F		MCSAT W048	-48	A	API/A	8222	2741
112541357	F		MCSAT W054	-54	A	API/A	8223	2741
112541358	F		MCSAT W060	-60	A	API/A	8224	2741

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112541359	F		MCSAT W066	-66	A	API/A	8225	2741
112541360	F		MCSAT W072	-72	A	API/A	8226	2741
112541361	F		MCSAT W078	-78	A	API/A	8227	2741
112541362	F		MCSAT W084	-84	A	API/A	8228	2741
112541363	F		MCSAT W090	-90	A	API/A	8229	2741
112541364	F		MCSAT W096	-96	A	API/A	8230	2741
112541365	F		MCSAT W102	-102	A	API/A	8231	2741
112541366	F		MCSAT W108	-108	A	API/A	8232	2741
112541367	F		MCSAT W114	-114	A	API/A	8233	2741
112541368	F		MCSAT W120	-120	A	API/A	8234	2741
112541370	F		MCSAT W132	-132	A	API/A	8236	2741
112541371	F		MCSAT W138	-138	A	API/A	8237	2741
112541372	F		MCSAT W144	-144	A	API/A	8238	2741
112541373	F		MCSAT W150	-150	A	API/A	8239	2741
112541374	F		MCSAT W156	-156	A	API/A	8240	2741
112541375	F		MCSAT W162	-162	A	API/A	8241	2741
112541376	F		MCSAT W168	-168	A	API/A	8242	2741
112541378	F		MCSAT W174	-174	A	API/A	8243	2741
114540010	F		MCSAT-2 E000	0	A	API/A	8958	2766
114540011	F		MCSAT-2 E006	6	A	API/A	8959	2766
114540012	F		MCSAT-2 E012	12	A	API/A	8960	2766
114540013	F		MCSAT-2 E018	18	A	API/A	8961	2766
114540015	F		MCSAT-2 E030	30	A	API/A	8963	2766
114540016	F		MCSAT-2 E036	36	A	API/A	8964	2766
114540017	F		MCSAT-2 E042	42	A	API/A	8965	2766
114540019	F		MCSAT-2 E054	54	A	API/A	8967	2766
114540020	F		MCSAT-2 E060	60	A	API/A	8968	2766
114540021	F		MCSAT-2 E066	66	A	API/A	8969	2766
114540022	F		MCSAT-2 E072	72	A	API/A	8970	2766
114540023	F		MCSAT-2 E078	78	A	API/A	8971	2766
114540024	F		MCSAT-2 E084	84	A	API/A	8972	2766
114540025	F		MCSAT-2 E090	90	A	API/A	8973	2766
114540026	F		MCSAT-2 E096	96	A	API/A	8974	2766
114540027	F		MCSAT-2 E102	102	A	API/A	8975	2766
114540028	F		MCSAT-2 E108	108	A	API/A	8976	2766
114540029	F		MCSAT-2 E114	114	A	API/A	8977	2766
114540030	F		MCSAT-2 E120	120	A	API/A	8978	2766
114540031	F		MCSAT-2 E126	126	A	API/A	8979	2766
114540032	F		MCSAT-2 E132	132	A	API/A	8980	2766
114540033	F		MCSAT-2 E138	138	A	API/A	8981	2766
114540034	F		MCSAT-2 E144	144	A	API/A	8982	2766
114540035	F		MCSAT-2 E150	150	A	API/A	8983	2766
114540037	F		MCSAT-2 E162	162	A	API/A	8985	2766
114540038	F		MCSAT-2 E168	168	A	API/A	8986	2766
114540039	F		MCSAT-2 E174	174	A	API/A	8987	2766

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114540040	F		MCSAT-2 E180	180	A	API/A	8988	2766
114540069	F		MCSAT-2 W006	-6	A	API/A	9017	2766
114540068	F		MCSAT-2 W012	-12	A	API/A	9016	2766
114540067	F		MCSAT-2 W018	-18	A	API/A	9015	2766
114540066	F		MCSAT-2 W024	-24	A	API/A	9014	2766
114540065	F		MCSAT-2 W030	-30	A	API/A	9013	2766
114540064	F		MCSAT-2 W036	-36	A	API/A	9012	2766
114540063	F		MCSAT-2 W042	-42	A	API/A	9011	2766
114540062	F		MCSAT-2 W048	-48	A	API/A	9010	2766
114540061	F		MCSAT-2 W054	-54	A	API/A	9009	2766
114540060	F		MCSAT-2 W060	-60	A	API/A	9008	2766
114540059	F		MCSAT-2 W066	-66	A	API/A	9007	2766
114540058	F		MCSAT-2 W072	-72	A	API/A	9006	2766
114540057	F		MCSAT-2 W078	-78	A	API/A	9005	2766
114540056	F		MCSAT-2 W084	-84	A	API/A	9004	2766
114540055	F		MCSAT-2 W090	-90	A	API/A	9003	2766
114540054	F		MCSAT-2 W096	-96	A	API/A	9002	2766
114540053	F		MCSAT-2 W102	-102	A	API/A	9001	2766
114540052	F		MCSAT-2 W108	-108	A	API/A	9000	2766
114540051	F		MCSAT-2 W114	-114	A	API/A	8999	2766
114540050	F		MCSAT-2 W120	-120	A	API/A	8998	2766
114540049	F		MCSAT-2 W126	-126	A	API/A	8997	2766
114540048	F		MCSAT-2 W132	-132	A	API/A	8996	2766
114540047	F		MCSAT-2 W138	-138	A	API/A	8995	2766
114540046	F		MCSAT-2 W144	-144	A	API/A	8994	2766
114540045	F		MCSAT-2 W150	-150	A	API/A	8993	2766
114540044	F		MCSAT-2 W156	-156	A	API/A	8992	2766
114540043	F		MCSAT-2 W162	-162	A	API/A	8991	2766
114540042	F		MCSAT-2 W168	-168	A	API/A	8990	2766
114540041	F		MCSAT-2 W174	-174	A	API/A	8989	2766
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
115520132	F		MR-T-SAT-25E	25	C	CR/C	3828	2806
115523039	F		MR-T-SAT-25E_1	25	C	CR/F	242	2806
106500331	F		SYRACUSE-31C	-8	N	PART	2	2746
106500332	F		SYRACUSE-31E	-5	N	PART	2	2667
106500334	F		SYRACUSE-31H	47	N	PART	2	2668
103500371	F		SYRACUSE-3C	-8	N	PART	2	2746
103500372	F		SYRACUSE-3E	-5	N	PART	2	2616
103500370	F		SYRACUSE-3H	47	N	PART	2	2619
112500243	F		SYRACUSE-4E	-5	N	PART	2	2747
112500227	F		SYRACUSE-4H	47	N	PART	2	2744
92500046	F		TELECOM-2A	-8	N	PART	1	2796

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92500047	F		TELECOM-2B	-5	N	PART	1	2780
92500048	F		TELECOM-2C	3	N	PART	1	2780
106500317	F		TELECOM-3A	-8	N	PART	2	2796
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	1	2796
107500336	F		TELECOM-4B	-5	N	PART	2	2626
109500885	F		TELECOM-4C	3	N	PART	2	2682
101500513	F		VIDEOSAT-6	-8	N	PART	1	2780
107500524	F		VIDEOSAT-6-KA	-8	N	PART	2	2647
100500161	F		VIDEOSAT-7	-5	N	PART	1	2674
107500382	F		VIDEOSAT-7-KA	-5	N	PART	2	2622
107500417	F		VIDEOSAT-8-KU-C	3	N	PART	1	2648
115540797	G		GIBSAT-G15-2	-125	A	API/A	10678	2804
115540715	G		HMG-SAT-01A	95	A	API/A	10598	2801
115540713	G		HMG-SAT-03	117	A	API/A	10596	2801
115540714	G		HMG-SAT-04	119	A	API/A	10597	2801
	G		INMARSAT-6-104E	104	A			
	G		INMARSAT-6-143W	-143	A			
	G		INMARSAT-6-144E	144	A			
	G		INMARSAT-6-16W	-16	A			
	G		INMARSAT-6-179E	179	A			
	G		INMARSAT-6-24E	24	A			
	G		INMARSAT-6-55W	-55	A			
	G		INMARSAT-6-63E	63	A			
	G		INMARSAT-6-92E	92	A			
	G		INMARSAT-6-99W	-99	A			
115540383	G		IOMSAT-126E	126	A	API/A	10256	2799
115540380	G		IOMSAT-134E	134	A	API/A	10253	2799
115540379	G		IOMSAT-16E	16	A	API/A	10252	2799
115540382	G		IOMSAT-24E	24	A	API/A	10255	2799
115540381	G		IOMSAT-82W	-82	A	API/A	10254	2799
115540384	G		IOMSAT-86W	-86	A	API/A	10257	2799
	G		IOMSAT-G1-1	-30	A			
	G		IOMSAT-G1-2	73	A			
	G		IOMSAT-G1-3	91.7	A			
	G		IOMSAT-G1-4	134	A			
115540839	G		SKYNET-5H-KA	33	A	API/A	10721	2806
115540822	G		UK-KA-7R	-79	A	API/A	10704	2805
115540821	G		UK-KA-8R	-89	A	API/A	10703	2805
115540250	G		UKMMSAT-C0	31.1	A	API/A	10119	2798
	G		UKSAT-29	-12.7	A			
	G		UKSAT-30	-5.8	A			
111500188	G		AM-SAT 125W	-125	N	PART	2	2718
109500405	G		AM-SAT A4	108.2	N	PART	2	2658

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108520121	G		AM-SAT-108.2E-G	108.2	C	CR/C	2214	2763
102500435	G		ARTEMIS-21.5E-DR	21.5	N	PART	2	2740
106500361	G		ARTEMIS-21.5E-LM	21.5	N	PART	2	2740
108500574	G		ARTEMIS-21.5E-NAV	21.5	N	PART	2	2658
111520296	G		DFSAT120E	120	C	CR/C	2983	2724
113520079	G		DFSAT15.4W	-15.4	C	CR/C	3371	2764
111520025	G		DFSAT44W	-44	C	CR/C	2797	2716
111520025	G		DFSAT44W	-44	C	CR/E	138	2716
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
114540144	G		EHOSTAR-SM1	17.2	A	API/A	9090	2769
114540145	G		EHOSTAR-SM2	22	A	API/A	9091	2769
115520099	G		EHOSTAR-SM3	10.25	C	CR/C	3806	2804
113500106	G		ESAT 1	25	N	PART	2	2762
108540202	G		ESAT-3	9.5	A	API/A	5128	2633
108540203	G		ESAT-4	19	A	API/A	5127	2633
108520262	G		ESAT-5	33	C	CR/C	2307	2806
108540205	G		ESAT-6	38	A	API/A	5125	2619
110520353	G		ESAT-7	9	C	CR/C	2750	2687
112541116	G		GBSAT-KA01	33	A	API/A	8041	2736
113540091	G		GBSAT-KA-02	95	A	API/A	8307	2746
113540092	G		GBSAT-KA-03	107.5	A	API/A	8308	2746
113540093	G		GBSAT-KA-04	45	A	API/A	8309	2746
109500200	G		GIBSAT A1	-105	N	PART	2	2666
112520400	G		GIBSAT-108.2E	108.2	C	CR/C	3241	2751
112523020	G		GIBSAT-108.2E_1	108.2	C	CR/F	21	2740
115520005	G		GIBSAT-108.4E	108.4	C	CR/C	3741	2799
115523002	G		GIBSAT-108.4E_1	108.4	C	CR/F	209	2799
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
111520453	G		GIBSAT-129W-B	-129	C	CR/C	3067	2734
111520376	G		GIBSAT-137W	-137	C	CR/C	3019	2728
110520015	G		GIBSAT-139W	-139	C	CR/C	2563	2689
111520456	G		GIBSAT-47.5W	-47.5	C	CR/C	3070	2734
111520455	G		GIBSAT-68.5W	-68.5	C	CR/C	3073	2734
111520383	G		GIBSAT-72.5W	-72.5	C	CR/C	3024	2728
110520007	G		GIBSAT-77W	-77	C	CR/C	2552	2692
112500009	G		GIBSAT-8B	-47	N	PART	2	2784
112520442	G		GIBSAT-G12-1	-113	C	CR/C	3288	2755
112520443	G		GIBSAT-G12-2	-116.8	C	CR/C	3289	2780
114520193	G		GIBSAT-G14-1	-72	C	CR/C	3669	2803
114540825	G		GIBSAT-G14-2	-135	A	API/A	9736	2787

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114520046	G		HMG-SAT-01	97	C	CR/C	3561	2791
114520031	G		HMG-SAT-02	107.5	C	CR/C	3542	2790
114540284	G		HMG-SAT-KA-01	-1	A	API/A	9255	2775
111500151	G		ICO-G	-93	N	PART	2	2731
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	2790
97500292	G		INMARSAT-3 AOR EAST	-15.5	N	PART	2	2746
97500291	G		INMARSAT-3 AOR WEST2	-54	N	PART	2	2764
107500118	G		INMARSAT-3 AOR WEST3	-98	N	PART	2	2669
103500320	G		INMARSAT-3 IOR WEST	25	N	PART	1	2805
96500418	G		INMARSAT-3 IOR-1	64	N	PART	2	2736
106500290	G		INMARSAT-3 POR EAST	-142	N	PART	2	2790
103500319	G		INMARSAT-3 POR WEST	109	N	PART	2	2746
97500253	G		INMARSAT-3 POR-2	178	N	PART	2	2764
108501205	G		INMARSAT-3 POR-3	143.5	N	PART	1	2785
112500010	G		INMARSAT-4 143.5E	143.5	N	PART	2	2725
110500192	G		INMARSAT-4 25E	25	N	PART	2	2723
110500194	G		INMARSAT-4 98W	-98	N	PART	2	2710
107520300	G		INMARSAT-4A 143.5E	143.5	C	CR/C	2134	2786
115500018	G		INMARSAT-4A 25E	25	N	PART	2	2808
114500078	G		INMARSAT-4A 98W	-98	N	PART	2	2793
115520009	G		INMARSAT-4B 64E	64	C	CR/C	3773	2801
114540832	G		INMARSAT-6-142W	-142	A	API/A	9743	2793
114540838	G		INMARSAT-6-143.5E	143.5	A	API/A	9749	2793
114540835	G		INMARSAT-6-15.5W	-15.5	A	API/A	9746	2793
114540839	G		INMARSAT-6-178E	178	A	API/A	9750	2793
114540836	G		INMARSAT-6-25E	25	A	API/A	9747	2793
114540834	G		INMARSAT-6-54W	-54	A	API/A	9745	2793
114540837	G		INMARSAT-6-64E	64	A	API/A	9748	2793
114540833	G		INMARSAT-6-98W	-98	A	API/A	9744	2793
110520017	G		INMARSAT-KA 107W	-107	C	CR/C	2560	2689
110520021	G		INMARSAT-KA 148E	148	C	CR/C	2561	2689
111520048	G		INMARSAT-KA 151E	151	C	CR/C	2822	2710
111520049	G		INMARSAT-KA 171E	171	C	CR/C	2823	2710
111520384	G		INMARSAT-KA 174W	-174	C	CR/C	3026	2728
110520016	G		INMARSAT-KA 178W	-178	C	CR/C	2562	2689
111520050	G		INMARSAT-KA 180E	180	C	CR/C	2824	2710
110520018	G		INMARSAT-KA 23E	23	C	CR/C	2557	2689
111520042	G		INMARSAT-KA 35E	35	C	CR/C	2818	2710

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110520020	G		INMARSAT-KA 55W	-55	C	CR/C	2558	2689
110520020	G		INMARSAT-KA 55W	-55	C	CR/E	700	2689
111520043	G		INMARSAT-KA 56.5E	56.5	C	CR/C	2821	2710
111520044	G		INMARSAT-KA 56W	-56	C	CR/C	2825	2710
111520391	G		INMARSAT-KA 63E	63	C	CR/C	2998	2727
111520045	G		INMARSAT-KA 63W	-63	C	CR/C	2826	2710
110520019	G		INMARSAT-KA 64E	64	C	CR/C	2559	2689
111520392	G		INMARSAT-KA 67E	67	C	CR/C	2999	2727
111520046	G		INMARSAT-KA 68.5E	68.5	C	CR/C	2819	2710
111520047	G		INMARSAT-KA 72E	72	C	CR/C	2820	2710
111520385	G		INMARSAT-KA 76.5E	76.5	C	CR/C	3025	2728
111520393	G		INMARSAT-KA 83.5E	83.5	C	CR/C	3000	2727
111520214	G		INMARSAT-KA 87.5E	87.5	C	CR/C	2949	2720
111520386	G		INMARSAT-KA 93E	93	C	CR/C	3027	2728
110520354	G		INMARSAT-KA 97W	-97	C	CR/C	2751	2706
111520083	G		INMARSAT-S1-R	8.5	C	CR/C	2854	2719
111520084	G		INMARSAT-S2-R	31	C	CR/C	2855	2719
111520085	G		INMARSAT-S3-R	61.5	C	CR/C	2856	2719
114520160	G		INMARSAT-S4-R	39	C	CR/C	3651	2801
114500076	G		INMARSAT-XL1	25	N	PART	2	2802
112500148	G		INTELSAT N KA 11.5E	11.5	N	PART	2	2740
112520022	G		IOMESAT-1	-121	C	CR/C	3115	2737
115520023	G		IOMSAT_130E	130	C	CR/C	3750	2800
115520022	G		IOMSAT_20E	20	C	CR/C	3749	2800
115520021	G		IOMSAT_90W	-90	C	CR/C	3748	2800
112500005	G		IOMSAT-11A	-115	N	PART	2	2749
115520090	G		IOMSAT-128E	128	C	CR/C	3805	2804
113520206	G		IOMSAT-138E	138	C	CR/C	3451	2777
112520042	G		IOMSAT-2A2	-15	C	CR/C	3130	2739
113540062	G		IOMSAT-63W	-63	A	API/A	8283	2745
112520402	G		IOMSAT-B12R-2	-109.2	C	CR/C	3286	2755
114540687	G		IOMSAT-BD1	50	A	API/A	9601	2783
114540688	G		IOMSAT-BD2	62	A	API/A	9602	2783
114540689	G		IOMSAT-BD3	74	A	API/A	9603	2783
114540690	G		IOMSAT-BD4	86	A	API/A	9604	2783
114540691	G		IOMSAT-BD5	98	A	API/A	9605	2783
114540692	G		IOMSAT-BD6	110	A	API/A	9606	2783
112520427	G		IOMSAT-KA-138E	138	C	CR/C	3253	2751
112520206	G		IOMSAT-KA-1R	-72.5	C	CR/C	3229	2750
109520018	G		IOMSAT-KA-63W	-63	C	CR/C	2372	2707
113520001	G		IOMSAT-KA-63W-R	-63	C	CR/C	3359	2761
112520154	G		IOMSAT-R1	154	C	CR/C	3197	2746
111520255	G		IOMSAT-S23	-86.9	C	CR/C	2979	2724
111520256	G		IOMSAT-S24	-75	C	CR/C	2980	2724
111520257	G		IOMSAT-S25	-76.8	C	CR/C	2981	2724

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111520258	G		IOMSAT-S26	-65	C	CR/C	2982	2724
109540057	G		MSV-42B	42	A	API/A	5542	2650
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
113520027	G		SKYNET-5A-KA2	-34	C	CR/C	3344	2758
113520027	G		SKYNET-5A-KA2	-34	C	CR/E	525	2758
108501024	G		SKYNET-5B	-1	N	PART	2	2693
109520045	G		SKYNET-5B-KA	-1	C	CR/C	2379	2645
113520081	G		SKYNET-5B-KA2	-1	C	CR/C	3345	2758
113520081	G		SKYNET-5B-KA2	-1	C	CR/E	526	2758
108501025	G		SKYNET-5C	6	N	PART	2	2693
109520046	G		SKYNET-5C-KA	6	C	CR/C	2380	2645
113520080	G		SKYNET-5C-KA2	6	C	CR/C	3346	2758
113520080	G		SKYNET-5C-KA2	6	C	CR/E	527	2758
108501026	G		SKYNET-5D	53	N	PART	2	2695
109520047	G		SKYNET-5D-KA	53	C	CR/C	2381	2645
113520028	G		SKYNET-5D-KA2	53	C	CR/C	3347	2758
113520028	G		SKYNET-5D-KA2	53	C	CR/E	528	2758
111500099	G		SKYNET-5E	-17.8	N	PART	2	2733
113520029	G		SKYNET-5E-KA2	-17.8	C	CR/C	3348	2758
113520029	G		SKYNET-5E-KA2	-17.8	C	CR/E	529	2758
108540201	G		SKYNET-5F	35.5	A	API/A	5124	2619
110520421	G		SKYNET-5G	20.6	C	CR/C	2775	2708
111500087	G		UKDIGISAT-3	-33.5	N	PART	2	2722
112500065	G		UKDIGISAT-4A TT&C	-33.5	N	PART	2	2730
112520150	G		UKDRS-A1	22.5	C	CR/C	3182	2732
113520230	G		UKDRS-A10	-61	C	CR/C	3462	2763
112520151	G		UKDRS-A2	31	C	CR/C	3183	2732
112520152	G		UKDRS-A3	39	C	CR/C	3184	2732
112540968	G		UKDRS-A4	33	A	API/A	7966	2732
113520228	G		UKDRS-A5	55	C	CR/C	3460	2763
113520035	G		UKDRS-A6	61.5	C	CR/C	3350	2746
112540971	G		UKDRS-A7	78	A	API/A	7969	2732
113520036	G		UKDRS-A8	-33.5	C	CR/C	3351	2746
113520229	G		UKDRS-A9	-41	C	CR/C	3461	2763
115520031	G		UKDSAT-A	-41	C	CR/C	3758	2800
113520178	G		UKDSAT-A1	-61	C	CR/C	3425	2768

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113520178	G		UKDSAT-A1	-61	C	CR/E	618	2768
112520064	G		UKDSAT-A2	-33.5	C	CR/C	3137	2792
112520064	G		UKDSAT-A2	-33.5	C	CR/E	805	2792
115520032	G		UKDSAT-B	-33.5	C	CR/C	3759	2800
112520065	G		UKDSAT-B1	31	C	CR/C	3138	2792
112520065	G		UKDSAT-B1	31	C	CR/E	806	2792
112520066	G		UKDSAT-B2	39	C	CR/C	3139	2792
112520066	G		UKDSAT-B2	39	C	CR/E	807	2792
112540603	G		UKDSAT-B3	39	A	API/A	7734	2727
115520033	G		UKDSAT-C	31	C	CR/C	3760	2800
112520067	G		UKDSAT-C1	61.5	C	CR/C	3140	2792
112520067	G		UKDSAT-C1	61.5	C	CR/E	808	2792
112520068	G		UKDSAT-C2	55	C	CR/C	3141	2792
112520068	G		UKDSAT-C2	55	C	CR/E	809	2792
115520034	G		UKDSAT-D	39	C	CR/C	3761	2800
113520180	G		UKDSAT-D1	165	C	CR/C	3426	2768
113520180	G		UKDSAT-D1	165	C	CR/E	619	2768
113520181	G		UKDSAT-D2	159	C	CR/C	3427	2768
113520181	G		UKDSAT-D2	159	C	CR/E	620	2768
112540850	G		UKDSAT-D3	33	A	API/A	7900	2729
115520040	G		UKDSAT-D4	21.5	C	CR/C	3767	2800
115520035	G		UKDSAT-E	55	C	CR/C	3762	2800
115520036	G		UKDSAT-F	61.5	C	CR/C	3763	2800
115520037	G		UKDSAT-G	159	C	CR/C	3764	2800
115520038	G		UKDSAT-H	165	C	CR/C	3765	2800
115520039	G		UKDSAT-K	-61	C	CR/C	3766	2800
112500279	G		UKJKSAT-1	31	N	PART	1	2757
114520020	G		UKJKSAT-2	21.5	C	CR/C	3548	2790
114523007	G		UKJKSAT-2_1	21.5	C	CR/F	126	2776
111520140	G		UK-KA-1	-70	C	CR/C	2915	2775
112541124	G		UK-KA-10	-117	A	API/A	8036	2736
112541125	G		UK-KA-11	-123	A	API/A	8037	2736
113520155	G		UK-KA-12	-125	C	CR/C	3408	2768
113520156	G		UK-KA-13	-133	C	CR/C	3409	2768
112520436	G		UK-KA-2	-79.3	C	CR/C	3278	2752
112520437	G		UK-KA-3	-109.1	C	CR/C	3279	2752
113520152	G		UK-KA-4	-12	C	CR/C	3405	2768
113520153	G		UK-KA-5	-24	C	CR/C	3406	2768
112541120	G		UK-KA-6	-38	A	API/A	8032	2736
113520154	G		UK-KA-7	-79	C	CR/C	3407	2768
114520019	G		UK-KA-8	-89	C	CR/C	3547	2790
112541123	G		UK-KA-9	-113	A	API/A	8035	2736
115520041	G		UK-KUKA-1	-1	C	CR/C	3768	2800
115520042	G		UK-KUKA-2	19	C	CR/C	3769	2800
115520043	G		UK-KUKA-3	23.3	C	CR/C	3770	2800

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114520143	G		UKMMSAT-A	-41	C	CR/C	3630	2798
114523034	G		UKMMSAT-A_1	-41	C	CR/F	149	2784
111520234	G		UKMMSAT-A1	-41	C	CR/C	2961	2722
111520307	G		UKMMSAT-A1-TTC-C	-33.5	C	CR/C	3001	2722
111520307	G		UKMMSAT-A1-TTC-C	-33.5	C	CR/E	214	2722
111520235	G		UKMMSAT-A2	-33.5	C	CR/C	2962	2722
112520269	G		UKMMSAT-A2-TTC-C	-41	C	CR/C	3221	2747
112520269	G		UKMMSAT-A2-TTC-C	-41	C	CR/E	413	2747
112520178	G		UKMMSAT-A3	-33.5	C	CR/C	3186	2744
114520144	G		UKMMSAT-B	-33.5	C	CR/C	3631	2798
114523035	G		UKMMSAT-B_1	-33.5	C	CR/F	150	2784
111520236	G		UKMMSAT-B1	31	C	CR/C	2963	2722
113500085	G		UKMMSAT-B1-TTC-C	31	N	PART	2	2754
111520237	G		UKMMSAT-B2	39	C	CR/C	2964	2722
112520205	G		UKMMSAT-B2-TTC-C	33	C	CR/C	3198	2733
113520179	G		UKMMSAT-B3	31	C	CR/C	3424	2771
113523037	G		UKMMSAT-B3_1	31	C	CR/F	62	2758
114520145	G		UKMMSAT-C	31	C	CR/C	3632	2798
114523036	G		UKMMSAT-C_1	31	C	CR/F	151	2784
111520238	G		UKMMSAT-C1	55	C	CR/C	2965	2722
111520309	G		UKMMSAT-C1-TTC-C	61.5	C	CR/C	3031	2726
111520309	G		UKMMSAT-C1-TTC-C	61.5	C	CR/E	240	2726
111520239	G		UKMMSAT-C2	61.5	C	CR/C	2966	2722
112520270	G		UKMMSAT-C2-TTC-C	55	C	CR/C	3222	2747
112520270	G		UKMMSAT-C2-TTC-C	55	C	CR/E	414	2747
114520146	G		UKMMSAT-D	39	C	CR/C	3633	2798
114523037	G		UKMMSAT-D_1	39	C	CR/F	152	2784
114520147	G		UKMMSAT-E	55	C	CR/C	3634	2798
114523038	G		UKMMSAT-E_1	55	C	CR/F	153	2784
112540466	G		UKMMSAT-E1-TTC-C	30	A	API/A	7606	2722
112540467	G		UKMMSAT-E2-TTC-C	35	A	API/A	7607	2722
112540468	G		UKMMSAT-E3-TTC-C	45	A	API/A	7608	2722
112540469	G		UKMMSAT-E4-TTC-C	58	A	API/A	7609	2722
112540470	G		UKMMSAT-E5-TTC-C	70	A	API/A	7610	2722
114520148	G		UKMMSAT-F	61.5	C	CR/C	3635	2798
114523039	G		UKMMSAT-F_1	61.5	C	CR/F	154	2784
114520024	G		UKNETSAT-18W	-18	C	CR/C	3549	2800
115523011	G		UKNETSAT-18W_1	-18	C	CR/F	211	2800
114520023	G		UKNETSAT-34.5W	-34.5	C	CR/C	3550	2790
115540124	G		UKNETSAT-89W	-89	A	API/A	9952	2794
111520251	G		UKPAC-1	174	C	CR/C	2978	2724
112520484	G		UKPAC-2	172	C	CR/C	3307	2758
110500164	G		UKSAT-10	-95	N	PART	2	2696
107520280	G		UKSAT-14	-107	C	CR/C	2119	2785
111520035	G		UKSAT-18	-18	C	CR/C	2810	2710

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111520036	G		UKSAT-19	-6.8	C	CR/C	2811	2710
111520037	G		UKSAT-21	67	C	CR/C	2812	2710
111520038	G		UKSAT-24	104	C	CR/C	2813	2716
111520038	G		UKSAT-24	104	C	CR/E	53	2716
114540146	G		UKSAT-28	-97	A	API/A	9092	2770
108520063	G		UKSAT-KU-4	-76	C	CR/C	2165	2791
107540548	G		UKSAT-KU-5	-84	A	API/A	4729	2641
107540549	G		UKSAT-KU-6	-86	A	API/A	4730	2641
102500251	GRC		HELLAS-SAT	39	N	PART	2	2586
114500122	GRC		HELLAS-SAT-2G	39	N	PART	2	2797
1155401005	HOL		NSS-G6-1	-169.5	A	API/A	10933	2810
115540999	HOL		NSS-G6-10	-68.7	A	API/A	10884	2810
115540998	HOL		NSS-G6-11	-58	A	API/A	10883	2810
115540997	HOL		NSS-G6-12	-47.5	A	API/A	10882	2810
115540996	HOL		NSS-G6-13	-40.5	A	API/A	10881	2810
1155401009	HOL		NSS-G6-14	-22	A	API/A	10937	2810
1155401010	HOL		NSS-G6-15	-20	A	API/A	10938	2810
1155401011	HOL		NSS-G6-16	42.5	A	API/A	10939	2810
1155401012	HOL		NSS-G6-17	50.5	A	API/A	10940	2810
1155401013	HOL		NSS-G6-18	57	A	API/A	10941	2810
1155401014	HOL		NSS-G6-19	95	A	API/A	10942	2810
1155401006	HOL		NSS-G6-2	60	A	API/A	10934	2810
1155401015	HOL		NSS-G6-20	108.2	A	API/A	10943	2810
1155401016	HOL		NSS-G6-21	113	A	API/A	10944	2810
1155401017	HOL		NSS-G6-22	142	A	API/A	10945	2810
115540995	HOL		NSS-G6-23	175	A	API/A	10880	2810
1155401007	HOL		NSS-G6-3	-101	A	API/A	10935	2810
1155401004	HOL		NSS-G6-4	-103	A	API/A	10932	2810
1155401008	HOL		NSS-G6-5	-177	A	API/A	10936	2810
1155401003	HOL		NSS-G6-6	-157	A	API/A	10931	2810
1155401002	HOL		NSS-G6-7	-131	A	API/A	10930	2810
1155401001	HOL		NSS-G6-8	-86.5	A	API/A	10929	2810
1155401000	HOL		NSS-G6-9	-85	A	API/A	10928	2810
115520125	HOL		BSSNET2A-111W	-110.9	C	CR/C	3826	2805
115520124	HOL		BSSNET2A-115W	-115	C	CR/C	3825	2805
113520167	HOL		BSSNET2A-119W	-119.25	C	CR/C	3418	2770
113520168	HOL		BSSNET2A-95W	-95.15	C	CR/C	3417	2770
113520169	HOL		BSSNET4-95W	-95.15	C	CR/C	3419	2770
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	2770
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

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92500194	HOL		INTELSAT5A 319.5E	-40.5	N	PART	2	2366
93500467	HOL		INTELSAT5A 338.5E	-21.5	N	PART	2	2366
101500276	HOL		INTELSAT5A 95E	95	N	PART	1	2640
92500181	HOL		INTELSAT5A INDOC2	57	N	PART	2	2770
102500289	HOL		INTELSAT7 183E	-177	N	PART	2	2770
102500109	HOL		INTELSAT7 319.5E	-40.5	N	PART	2	2770
102500110	HOL		INTELSAT7 338.5E	-21.5	N	PART	2	2564
96500508	HOL		INTELSAT7 57E	57	N	PART	2	2770
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	2770
101500410	HOL		INTELSAT8 57E	57	N	PART	2	2770
102500434	HOL		INTELSAT8 95E	95	N	PART	2	2571
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	1	2796
107500153	HOL		NSS-31	-20	N	PART	2	2673
110500361	HOL		NSS-35	-40.5	N	PART	2	2712
109500334	HOL		NSS-36	57	N	PART	2	2699
113500115	HOL		NSS-57	-40.5	N	PART	2	2763
105500391	HOL		NSS-8	57	N	PART	2	2652
114500139	HOL		NSS-83A	-67.5	N	PART	2	2797
105500498	HOL		NSS-9	95	N	PART	2	2749
114500103	HOL		NSS-BSS 108.2E TTC	108.2	N	PART	2	2805
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	2772
110520075	HOL		NSS-G2-16	50.5	C	CR/C	2585	2691
109520128	HOL		NSS-G2-17	57	C	CR/C	2420	2772
115500044	HOL		NSS-G2-18	95	N	PART	2	2808
109520341	HOL		NSS-G2-19	107.7	C	CR/C	2545	2688
110520151	HOL		NSS-G2-20	142	C	CR/C	2661	2700
109520230	HOL		NSS-G2-7	-68.7	C	CR/C	2470	2678
109520231	HOL		NSS-G2-8	-58	C	CR/C	2471	2678
112520023	HOL		NSS-G3-12	-20	C	CR/C	3111	2737
112523001	HOL		NSS-G3-12_1	-20	C	CR/F	4	2730
111520427	HOL		NSS-G3-21	108.2	C	CR/C	3061	2730
111520427	HOL		NSS-G3-21	108.2	C	CR/E	272	2730
110520464	HOL		NSS-G3-8	-47.5	C	CR/C	2786	2716
110520464	HOL		NSS-G3-8	-47.5	C	CR/E	39	2716
110520465	HOL		NSS-G3-9	-40.5	C	CR/C	2787	2716

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110520465	HOL		NSS-G3-9	-40.5	C	CR/E	40	2716
113520072	HOL		NSS-G4-1	-177	C	CR/C	3369	2764
113520072	HOL		NSS-G4-1	-177	C	CR/E	549	2764
113523030	HOL		NSS-G4-1_1	-177	C	CR/F	50	2751
113520039	HOL		NSS-G4-10	-85	C	CR/C	3353	2761
113523016	HOL		NSS-G4-10_1	-85	C	CR/F	40	2747
112540787	HOL		NSS-G4-11	-72	A	API/A	7857	2729
112540788	HOL		NSS-G4-12	-68.7	A	API/A	7858	2729
113520040	HOL		NSS-G4-13	-58	C	CR/C	3354	2761
113523017	HOL		NSS-G4-13_1	-58	C	CR/F	41	2747
112540790	HOL		NSS-G4-14	-47.5	A	API/A	7860	2729
112540791	HOL		NSS-G4-15	-40.5	A	API/A	7861	2729
112540792	HOL		NSS-G4-16	-37.5	A	API/A	7862	2729
113520041	HOL		NSS-G4-17	-22	C	CR/C	3355	2761
113523018	HOL		NSS-G4-17_1	-22	C	CR/F	42	2747
114520012	HOL		NSS-G4-18	-20	C	CR/C	3538	2788
114523009	HOL		NSS-G4-18_1	-20	C	CR/F	122	2774
112540795	HOL		NSS-G4-19	1	A	API/A	7865	2729
113520095	HOL		NSS-G4-2	-157	C	CR/C	3378	2766
113523027	HOL		NSS-G4-2_1	-157	C	CR/F	51	2751
112540796	HOL		NSS-G4-20	35.5	A	API/A	7866	2729
112540797	HOL		NSS-G4-21	42.5	A	API/A	7867	2729
113520042	HOL		NSS-G4-22	50.5	C	CR/C	3356	2761
113523019	HOL		NSS-G4-22_1	50.5	C	CR/F	43	2747
113520043	HOL		NSS-G4-23	57	C	CR/C	3357	2761
113523020	HOL		NSS-G4-23_1	57	C	CR/F	44	2747
112540800	HOL		NSS-G4-24	65	A	API/A	7870	2729
113520215	HOL		NSS-G4-25	85.2	C	CR/C	3449	2775
113523047	HOL		NSS-G4-25_1	85.2	C	CR/F	70	2761
113520044	HOL		NSS-G4-26	95	C	CR/C	3358	2761
113523021	HOL		NSS-G4-26_1	95	C	CR/F	45	2747
113520002	HOL		NSS-G4-27	108.2	C	CR/C	3325	2759
113523001	HOL		NSS-G4-27_1	108.2	C	CR/F	46	2747
112540804	HOL		NSS-G4-28	113.5	A	API/A	7874	2729
112540805	HOL		NSS-G4-29	124	A	API/A	7875	2729
112540779	HOL		NSS-G4-3	-148	A	API/A	7849	2729
112540806	HOL		NSS-G4-30	130	A	API/A	7876	2729
112540807	HOL		NSS-G4-31	142	A	API/A	7877	2729
114520013	HOL		NSS-G4-32	148	C	CR/C	3539	2788
114523010	HOL		NSS-G4-32_1	148	C	CR/F	123	2774
112540809	HOL		NSS-G4-33	155	A	API/A	7879	2729
112540810	HOL		NSS-G4-34	175	A	API/A	7880	2729
112540780	HOL		NSS-G4-4	-143	A	API/A	7850	2729
112540781	HOL		NSS-G4-5	-137	A	API/A	7851	2729
113520038	HOL		NSS-G4-6	-131	C	CR/C	3352	2761

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113523015	HOL		NSS-G4-6_1	-131	C	CR/F	39	2747
112540783	HOL		NSS-G4-7	-105	A	API/A	7853	2729
112540784	HOL		NSS-G4-8	-101	A	API/A	7854	2729
113520096	HOL		NSS-G4-9	-86.5	C	CR/C	3379	2766
113523028	HOL		NSS-G4-9_1	-86.5	C	CR/F	52	2751
114520150	HOL		NSS-G5-1	-169.5	C	CR/C	3721	2810
114523046	HOL		NSS-G5-1_1	-169.5	C	CR/F	202	2795
114540670	HOL		NSS-G5-10	-68.7	A	API/A	9584	2782
114540671	HOL		NSS-G5-11	-58	A	API/A	9585	2782
114540672	HOL		NSS-G5-12	-47.5	A	API/A	9586	2782
114540673	HOL		NSS-G5-13	-40.5	A	API/A	9587	2782
114540674	HOL		NSS-G5-14	-22	A	API/A	9588	2782
114540675	HOL		NSS-G5-15	-20	A	API/A	9589	2782
114540676	HOL		NSS-G5-16	42.5	A	API/A	9590	2782
114540677	HOL		NSS-G5-17	50.5	A	API/A	9591	2782
114540678	HOL		NSS-G5-18	57	A	API/A	9592	2782
114540679	HOL		NSS-G5-19	95	A	API/A	9593	2782
114520121	HOL		NSS-G5-2	60	C	CR/C	3730	2798
114523081	HOL		NSS-G5-2_1	60	C	CR/F	203	2798
114540680	HOL		NSS-G5-20	108.2	A	API/A	9594	2782
114540681	HOL		NSS-G5-21	113	A	API/A	9595	2782
114540682	HOL		NSS-G5-22	142	A	API/A	9596	2782
114540683	HOL		NSS-G5-23	175	A	API/A	9597	2782
115520003	HOL		NSS-G5-3	-101	C	CR/C	3753	2800
115523006	HOL		NSS-G5-3_1	-101	C	CR/F	212	2800
115520006	HOL		NSS-G5-4	-103	C	CR/C	3754	2800
115523007	HOL		NSS-G5-4_1	-103	C	CR/F	213	2800
114540665	HOL		NSS-G5-5	-177	A	API/A	9579	2782
114540666	HOL		NSS-G5-6	-157	A	API/A	9580	2782
114540667	HOL		NSS-G5-7	-131	A	API/A	9581	2782
114540668	HOL		NSS-G5-8	-86.5	A	API/A	9582	2782
114540669	HOL		NSS-G5-9	-85	A	API/A	9583	2782
112500098	HOL		NSS-KA41	95	N	PART	2	2728
112520006	I		ALPHASAT TDP5	25	C	CR/C	3181	2743
112520006	I		ALPHASAT TDP5	25	C	CR/E	384	2743
112540939	I		IDF-UHF	-55.5	A	API/A	7963	2740
110520003	I		INTERACT-KA	9	C	CR/C	2550	2688
110520097	I		NEWSAT-1A	1	C	CR/C	2619	2692
111520206	I		NEWSAT-1C-27W	-27	C	CR/C	2940	2769
111520207	I		NEWSAT-1D-41E	41	C	CR/C	2941	2720
111520208	I		NEWSAT-1E-46E	46	C	CR/C	2942	2720
112520119	I		NEWSAT-1F-38W	-38	C	CR/C	3157	2769
112520120	I		NEWSAT-1G-48W	-48	C	CR/C	3158	2769
113520162	I		NEWSAT-1H-68W	-68	C	CR/C	3414	2770
113520163	I		NEWSAT-1I-77.5W	-77.5	C	CR/C	3412	2770

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113520164	I		NEWSAT-1L-87W	-87	C	CR/C	3411	2769
102500428	I		SICRAL-2A	16.2	N	PART	2	2754
109500089	I		SICRAL-3A	16.2	N	PART	2	2706
109500335	I		SICRAL-3H	11.8	N	PART	2	2760
108520057	I		SICRAL-4-21.8E	21.8	C	CR/C	2295	2652
112500189	I		SICRAL-4-37E	37	N	PART	2	2777
115540780	IND		GSAT-NS111.75E	111.75	A	API/A	10661	2803
115540777	IND		GSAT-NS113.5E	113.5	A	API/A	10658	2803
115540779	IND		GSAT-NS117.5E	117.5	A	API/A	10660	2803
115540778	IND		GSAT-NS123.5E	123.5	A	API/A	10659	2803
115540781	IND		GSAT-NS68E	68	A	API/A	10662	2803
115540786	IND		INSAT-KA(101E)	101	A	API/A	10667	2803
115540785	IND		INSAT-KA(104.5E)	104.5	A	API/A	10666	2803
115540784	IND		INSAT-KA(111.5E)	111.5	A	API/A	10665	2803
115540783	IND		INSAT-KA(114E)	114	A	API/A	10664	2803
115540782	IND		INSAT-KA(117.5E)	117.5	A	API/A	10663	2803
115540795	IND		INSAT-KA(41.8E)	41.8	A	API/A	10676	2803
115540794	IND		INSAT-KA(44.8E)	44.8	A	API/A	10675	2803
115540793	IND		INSAT-KA(51.2E)	51.2	A	API/A	10674	2803
115540792	IND		INSAT-KA(64.3E)	64.3	A	API/A	10673	2803
115540791	IND		INSAT-KA(77.1E)	77.1	A	API/A	10672	2803
115540776	IND		INSAT-KA(82.5E)	82.5	A	API/A	10657	2803
115540790	IND		INSAT-KA(85.5E)	85.5	A	API/A	10671	2803
115540789	IND		INSAT-KA(89E)	89	A	API/A	10670	2803
115540788	IND		INSAT-KA(93.5E)	93.5	A	API/A	10669	2803
115540787	IND		INSAT-KA(97.3E)	97.3	A	API/A	10668	2803
114540196	IND		GSAT-NS(111.5E)	111.5	A	API/A	9135	2773
114540197	IND		GSAT-NS(117.6E)	117.6	A	API/A	9136	2773
114540192	IND		GSAT-NS(50E)	50	A	API/A	9131	2773
114540193	IND		GSAT-NS(74E)	74	A	API/A	9132	2773
114540194	IND		GSAT-NS(83E)	83	A	API/A	9133	2773
114540195	IND		GSAT-NS(93.5E)	93.5	A	API/A	9134	2773
113540854	IND		IND-SATS-48E	48	A	API/A	9019	2765
115520109	IND		IND-SATS-93.5E	93.5	C	CR/C	3819	2805
90500588	IND		INSAT-1B	74	N	PART	2	
101500482	IND		INSAT-2(48)	48	N	PART	2	2620
102500027	IND		INSAT-2(55)	55	N	PART	1	2808
90504231	IND		INSAT-2(74)	74	N	PART	2	2749
90504228	IND		INSAT-2(83)	83	N	PART	1	2795
90504230	IND		INSAT-2(93.5)	93.5	N	PART	2	2777
104500369	IND		INSAT-2E74	74	N	PART	2	2653
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

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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	2782
105500707	IND		INSAT-2T (74)	74	N	PART	2	2583
105500709	IND		INSAT-2T (93.5)	93.5	N	PART	2	2583
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	2782
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
108540151	IND		INSAT-G5(55)	55	A	API/A	5081	2616
109520321	IND		INSAT-G5(74)	74	C	CR/C	2537	2667
108540153	IND		INSAT-G5(82)	82	A	API/A	5083	2616
108540155	IND		INSAT-G5(93.5)	93.5	A	API/A	5085	2616
114520192	IND		INSAT-KA(74)	74	C	CR/C	3659	2799
114520192	IND		INSAT-KA(74)	74	C	CR/E	865	2799
114520155	IND		INSAT-KA107.5E	107.5	C	CR/C	3642	2796
114520155	IND		INSAT-KA107.5E	107.5	C	CR/E	849	2796
114520151	IND		INSAT-KA48E	48	C	CR/C	3638	2796
114520151	IND		INSAT-KA48E	48	C	CR/E	845	2796
114520152	IND		INSAT-KA55E	55	C	CR/C	3639	2796
114520152	IND		INSAT-KA55E	55	C	CR/E	846	2796
114520153	IND		INSAT-KA61E	61	C	CR/C	3640	2796
114520153	IND		INSAT-KA61E	61	C	CR/E	847	2796
114520154	IND		INSAT-KA68E	68	C	CR/C	3641	2796
114520154	IND		INSAT-KA68E	68	C	CR/E	848	2796
108520317	IND		INSAT-KAUHF (74)	74	C	CR/C	2358	2659
110500114	IND		INSAT-KU10(111.5)E	111.5	N	PART	2	2716
111500153	IND		INSAT-KU10(55)E	55	N	PART	2	2717
111520059	IND		INSAT-KU11(111.5)E	111.5	C	CR/C	2833	2706
111520059	IND		INSAT-KU11(111.5)E	111.5	C	CR/E	70	2706
111520055	IND		INSAT-KU11(48)E	48	C	CR/C	2829	2706
111520055	IND		INSAT-KU11(48)E	48	C	CR/E	66	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
111520056	IND		INSAT-KU11(74)E	74	C	CR/E	67	2706

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111520057	IND		INSAT-KU11(83)E	83	C	CR/C	2831	2706
111520057	IND		INSAT-KU11(83)E	83	C	CR/E	551	2706
111520058	IND		INSAT-KU11(93.5)E	93.5	C	CR/C	2832	2706
111520058	IND		INSAT-KU11(93.5)E	93.5	C	CR/E	69	2706
108540189	IND		INSAT-KU113.5	113.5	A	API/A	5110	2619
108540190	IND		INSAT-KU117.5	117.5	A	API/A	5111	2619
114520070	IND		INSAT-KU12(63)E	63	C	CR/C	3583	2789
114520070	IND		INSAT-KU12(63)E	63	C	CR/E	782	2789
113540397	IND		INSAT-KU12(83)E	83	A	API/A	8500	2754
108540191	IND		INSAT-KU123.5	123.5	A	API/A	5112	2619
115520126	IND		INSAT-KU77.1E	77.1	C	CR/C	3824	2805
113540394	IND		INSAT-KU78	78	A	API/A	8501	2754
113540395	IND		INSAT-KU88	88	A	API/A	8502	2754
110520230	IND		INSAT-MET74E	74	C	CR/C	2706	2683
110520231	IND		INSAT-MET81.5E	81.5	C	CR/C	2707	2683
114500135	IND		INSAT-MET82E	82	N	PART	2	2797
110520233	IND		INSAT-MET83E	83	C	CR/C	2709	2683
110520234	IND		INSAT-MET93.5E	93.5	C	CR/C	2710	2683
107520285	IND		INSAT-NAV(55)	55	C	CR/C	2123	2635
114520069	IND		INSAT-NAV(93.5)	93.5	C	CR/C	3580	2792
112520046	IND		INSAT-NAVR(120.5)	120.5	C	CR/C	3124	2789
112520046	IND		INSAT-NAVR(120.5)	120.5	C	CR/E	745	2789
112520047	IND		INSAT-NAVR(121.5)	121.5	C	CR/C	3125	2789
112520047	IND		INSAT-NAVR(121.5)	121.5	C	CR/E	746	2789
112520048	IND		INSAT-NAVR(123.5)	123.5	C	CR/C	3126	2789
112520048	IND		INSAT-NAVR(123.5)	123.5	C	CR/E	747	2789
112520049	IND		INSAT-NAVR(126.5)	126.5	C	CR/C	3127	2789
112520049	IND		INSAT-NAVR(126.5)	126.5	C	CR/E	748	2789
112520050	IND		INSAT-NAVR(127.5)	127.5	C	CR/C	3128	2789
112520050	IND		INSAT-NAVR(127.5)	127.5	C	CR/E	749	2789
112520051	IND		INSAT-NAVR(129.5)	129.5	C	CR/C	3129	2789
112520051	IND		INSAT-NAVR(129.5)	129.5	C	CR/E	750	2789
112520044	IND		INSAT-NAVR(32.5)	32.5	C	CR/C	3122	2789
112520044	IND		INSAT-NAVR(32.5)	32.5	C	CR/E	743	2789
112520045	IND		INSAT-NAVR(83)	83	C	CR/C	3123	2789
112520045	IND		INSAT-NAVR(83)	83	C	CR/E	744	2789
114540596	IND		INSAT-NAVR-SO(129.5)	129.5	A	API/A	9524	2780
114540595	IND		INSAT-NAVR-SO(32.5E)	32.5	A	API/A	9523	2780
114500088	IND		INSAT-TTC(55)E	55	N	PART	2	2788
114500089	IND		INSAT-TTC(74)E	74	N	PART	2	2790
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
114500090	IND		INSAT-TTC(83)E	83	N	PART	2	2788
114500091	IND		INSAT-TTC(93.5)E	93.5	N	PART	2	2790
115540775	INS		PALAPA-815	116.1	A	API/A	10656	2803

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112520347	INS		CSM-106	106	C	CR/C	3234	2751
112520348	INS		CSM-111	111	C	CR/C	3235	2751
112520349	INS		CSM-120	120.5	C	CR/C	3236	2751
113540083	INS		CSM-137	137.9	A	API/A	8298	2745
105500155	INS		GARUDA-2	123	N	PART	2	2799
113520067	INS		INDOSTAR-107.7XS	107.7	C	CR/C	3446	2782
113520068	INS		INDOSTAR-108.2XS	108.2	C	CR/C	3447	2775
115500017	INS		INDOSTAR-110E	108.2	N	PART	2	2808
108520042	INS		INDOSTAR-110E-K	108.2	C	CR/C	2283	2700
108520042	INS		INDOSTAR-110E-K	108.2	C	CR/E	23	2700
113520069	INS		INDOSTAR-118XS	118	C	CR/C	3448	2782
109500739	INS		PALAPA PAC-C 146E	146	N	PART	2	2805
114520215	INS		PALAPA PACIFIC-144E	144	C	CR/C	3729	2798
108500599	INS		PALAPA PAC-KU 146E	146	N	PART	2	2805
90500037	INS		PALAPA-B1	108	N	PART	2	2784
107500144	INS		PALAPA-B1-EC	108	N	PART	2	2782
90500039	INS		PALAPA-B2	113	N	PART	2	2258
90500001	INS		PALAPA-B3	118	N	PART	2	2758
111500247	INS		PALAPA-B3 TT&C	118	N	PART	2	2720
110500157	INS		PALAPA-B3-EC	118	N	PART	2	2809
102500197	INS		PALAPA-C1	113	N	PART	1	2790
114520142	INS		PALAPA-C1-B	113	C	CR/C	3629	2798
109500631	INS		PALAPA-C1-K	113	N	PART	1	2787
103500163	INS		PALAPA-C2	108	N	PART	2	2782
107500427	INS		PALAPA-C3	118	N	PART	2	2782
109500491	INS		PALAPA-C3-K	118	N	PART	2	2757
106500566	INS		PALAPA-C4	150.5	N	PART	2	2794
109520091	INS		PALAPA-C4-A	150.5	C	CR/C	2403	2649
114520149	INS		PALAPA-C4-B	150.5	C	CR/C	3636	2799
109520283	INS		PALAPA-C4-K	150.5	C	CR/C	2529	2667
113520094	INS		PSN-146E	146	C	CR/C	3381	2766
111520005	INS		TELKOM-108E	108	C	CR/C	2839	2716
111520005	INS		TELKOM-108E	108	C	CR/E	76	2716
108540178	INS		TELKOM-3EK	118	A	API/A	5101	2617
	IRN		IRANSAT-24.19E	24.19	A			
	IRN		IRANSAT-70.5E	70.5	A			
115540736	IRN		IRANSAT-B-61.8E	61.8	A	API/A	10618	2801
112523005	IRN		IRANDBS4-KA	34	C	CR/F	1	2728
112520024	IRN		IRANSAT-12.5E	12.5	C	CR/C	3228	2750
112520001	IRN		IRANSAT-26.5E	26.5	C	CR/C	3154	2772
112520001	IRN		IRANSAT-26.5E	26.5	C	CR/E	347	2772
112520038	IRN		IRANSAT-27.2E	27.2	C	CR/C	3147	2741
112520037	IRN		IRANSAT-27E	27	C	CR/C	3146	2795
112520002	IRN		IRANSAT-34E	34	C	CR/C	3155	2739
112520002	IRN		IRANSAT-34E	34	C	CR/E	613	2739

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112520019	IRN		IRANSAT-41.5E	41.5	C	CR/C	3148	2741
112520039	IRN		IRANSAT-43.5E	43.5	C	CR/C	3149	2793
112520060	IRN		IRANSAT-53.5E	53.5	C	CR/C	3150	2741
112520040	IRN		IRANSAT-56E	56	C	CR/C	3145	2741
112520020	IRN		IRANSAT-58E	58	C	CR/C	3151	2793
112520021	IRN		IRANSAT-61.5E	61.5	C	CR/C	3152	2787
112520061	IRN		IRANSAT-61.8E	61.8	C	CR/C	3153	2728
112520061	IRN		IRANSAT-61.8E	61.8	C	CR/E	346	2728
112520036	IRN		IRANSAT-81E	81	C	CR/C	3156	2728
112520036	IRN		IRANSAT-81E	81	C	CR/E	349	2728
112520059	IRN		IRNDBS-KA	34	C	CR/C	3174	2744
93500332	IRN		ZOHREH-2	26	N	PART	2	2738
112520483	IRQ		SUMER-1	65.45	C	CR/C	3308	2777
112523029	IRQ		SUMER-1_1	65.45	C	CR/F	27	2745
113520304	IRQ		SUMER-2	50	C	CR/C	3508	2782
113523085	IRQ		SUMER-2_1	50	C	CR/F	109	2768
115540520	ISR		AMS-A8-18W	-18	A	API/A	10393	2800
115540545	ISR		AMS-A8-21W	-21	A	API/A	10418	2800
115540547	ISR		AMS-A8-24W	-24	A	API/A	10420	2800
115540544	ISR		AMS-A8-26W	-26	A	API/A	10417	2800
115540521	ISR		AMS-A8-30W	-30	A	API/A	10394	2800
115540543	ISR		AMS-A8-33W	-33	A	API/A	10416	2800
115540549	ISR		AMS-A8-36W	-36	A	API/A	10422	2800
115540550	ISR		AMS-A8-42W	-42	A	API/A	10423	2800
115540540	ISR		AMS-A8-48W	-48	A	API/A	10413	2800
115540553	ISR		AMS-A8-54W	-54	A	API/A	10426	2800
115540555	ISR		AMS-A8-60W	-60	A	API/A	10428	2800
115540928	ISR		AMS-A9-18W	-18	A	API/A	10813	2810
115540927	ISR		AMS-A9-21W	-21	A	API/A	10812	2810
115540926	ISR		AMS-A9-24W	-24	A	API/A	10811	2810
115540925	ISR		AMS-A9-26W	-26	A	API/A	10810	2810
115540924	ISR		AMS-A9-30W	-30	A	API/A	10809	2810
115540923	ISR		AMS-A9-33W	-33	A	API/A	10808	2810
115540922	ISR		AMS-A9-36W	-36	A	API/A	10807	2810
115540921	ISR		AMS-A9-42W	-42	A	API/A	10806	2810
115540920	ISR		AMS-A9-48W	-48	A	API/A	10805	2810
115540919	ISR		AMS-A9-54W	-54	A	API/A	10804	2810
115540917	ISR		AMS-A9-60W	-60	A	API/A	10802	2810
115540514	ISR		AMS-B8-0E	0	A	API/A	10387	2800
115540499	ISR		AMS-B8-126E	126	A	API/A	10372	2800
115540512	ISR		AMS-B8-12E	12	A	API/A	10385	2800
115540554	ISR		AMS-B8-12W	-12	A	API/A	10427	2800
115540498	ISR		AMS-B8-13.8E	13.8	A	API/A	10371	2800
115540500	ISR		AMS-B8-132E	132	A	API/A	10373	2800
115540501	ISR		AMS-B8-137E	137	A	API/A	10374	2800

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115540502	ISR		AMS-B8-138E	138	A	API/A	10375	2800
115540503	ISR		AMS-B8-140E	140	A	API/A	10376	2800
115540515	ISR		AMS-B8-4W	-4	A	API/A	10388	2800
115540513	ISR		AMS-B8-6E	6	A	API/A	10386	2800
115540519	ISR		AMS-B8-6W	-6	A	API/A	10392	2800
115540888	ISR		AMS-B9-0E	0	A	API/A	10773	2810
115540864	ISR		AMS-B9-126E	126	A	API/A	10749	2810
115540890	ISR		AMS-B9-12E	12	A	API/A	10775	2810
115540918	ISR		AMS-B9-12W	-12	A	API/A	10803	2810
115540891	ISR		AMS-B9-13.8E	13.8	A	API/A	10776	2810
115540893	ISR		AMS-B9-132E	132	A	API/A	10778	2810
115540894	ISR		AMS-B9-137E	137	A	API/A	10779	2810
115540895	ISR		AMS-B9-138E	138	A	API/A	10780	2810
115540896	ISR		AMS-B9-140E	140	A	API/A	10781	2810
115540930	ISR		AMS-B9-4W	-4	A	API/A	10815	2810
115540889	ISR		AMS-B9-6E	6	A	API/A	10774	2810
115540929	ISR		AMS-B9-6W	-6	A	API/A	10814	2810
115540542	ISR		AMS-C8-102E	102	A	API/A	10415	2800
115540559	ISR		AMS-C8-108E	108	A	API/A	10432	2800
115540558	ISR		AMS-C8-114E	114	A	API/A	10431	2800
115540557	ISR		AMS-C8-120E	120	A	API/A	10430	2800
115540556	ISR		AMS-C8-17E	17	A	API/A	10429	2800
115540504	ISR		AMS-C8-18E	18	A	API/A	10377	2800
115540505	ISR		AMS-C8-23E	23	A	API/A	10378	2800
115540506	ISR		AMS-C8-24E	24	A	API/A	10379	2800
115540508	ISR		AMS-C8-30E	30	A	API/A	10381	2800
115540509	ISR		AMS-C8-36E	36	A	API/A	10382	2800
115540511	ISR		AMS-C8-39.2E	39.2	A	API/A	10384	2800
115540625	ISR		AMS-C8-42E	42	A	API/A	10498	2800
115540624	ISR		AMS-C8-43E	43	A	API/A	10497	2800
115540623	ISR		AMS-C8-48E	48	A	API/A	10496	2800
115540622	ISR		AMS-C8-54E	54	A	API/A	10495	2800
115540621	ISR		AMS-C8-60E	60	A	API/A	10494	2800
115540620	ISR		AMS-C8-65E	65	A	API/A	10493	2800
115540619	ISR		AMS-C8-66E	66	A	API/A	10492	2800
115540618	ISR		AMS-C8-67.25E	67.25	A	API/A	10491	2800
115540617	ISR		AMS-C8-72E	72	A	API/A	10490	2800
115540616	ISR		AMS-C8-78E	78	A	API/A	10489	2800
115540615	ISR		AMS-C8-82.5E	82.5	A	API/A	10488	2800
115540611	ISR		AMS-C8-84E	84	A	API/A	10484	2800
115540610	ISR		AMS-C8-90E	90	A	API/A	10483	2800
115540541	ISR		AMS-C8-96E	96	A	API/A	10414	2800
115540884	ISR		AMS-C9-102E	102	A	API/A	10769	2810
115540885	ISR		AMS-C9-108E	108	A	API/A	10770	2810
115540886	ISR		AMS-C9-114E	114	A	API/A	10771	2810

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115540916	ISR		AMS-C9-17E	17	A	API/A	10801	2810
115540897	ISR		AMS-C9-18E	18	A	API/A	10782	2810
115540931	ISR		AMS-C9-23E	23	A	API/A	10816	2810
115540899	ISR		AMS-C9-24E	24	A	API/A	10784	2810
115540900	ISR		AMS-C9-30E	30	A	API/A	10785	2810
115540901	ISR		AMS-C9-36E	36	A	API/A	10786	2810
115540902	ISR		AMS-C9-39.2E	39.2	A	API/A	10787	2810
115540903	ISR		AMS-C9-42E	42	A	API/A	10788	2810
115540904	ISR		AMS-C9-43E	43	A	API/A	10789	2810
115540905	ISR		AMS-C9-48E	48	A	API/A	10790	2810
115540906	ISR		AMS-C9-54E	54	A	API/A	10791	2810
115540907	ISR		AMS-C9-60E	60	A	API/A	10792	2810
115540908	ISR		AMS-C9-65E	65	A	API/A	10793	2810
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115540910	ISR		AMS-C9-67.25E	67.25	A	API/A	10795	2810
115540911	ISR		AMS-C9-72E	72	A	API/A	10796	2810
115540912	ISR		AMS-C9-78E	78	A	API/A	10797	2810
115540913	ISR		AMS-C9-82.5E	82.5	A	API/A	10798	2810
115540914	ISR		AMS-C9-84E	84	A	API/A	10799	2810
115540915	ISR		AMS-C9-90E	90	A	API/A	10800	2810
115540883	ISR		AMS-C9-96E	96	A	API/A	10768	2810
115540892	ISR		AT-A1-57E	57	A	API/A	10777	2810
115540898	ISR		AT-A1-73.5E	73.5	A	API/A	10783	2810
99500251	ISR		AMOS 1-B	-4	N	PART	2	2742
110500004	ISR		AMOS 2-B	-4	N	PART	2	2734
112500100	ISR		AMOS 3-A	-4	N	PART	2	2730
114500037	ISR		AMS-4-65E	65	N	PART	2	2781
114500046	ISR		AMS-4-67.25E	67.25	N	PART	2	2790
112520208	ISR		AMS-A1-26W	-26	C	CR/C	3205	2744
112520208	ISR		AMS-A1-26W	-26	C	CR/E	397	2744
112520207	ISR		AMS-A1-33W	-33	C	CR/C	3206	2744
112520207	ISR		AMS-A1-33W	-33	C	CR/E	398	2744
112540720	ISR		AMS-A2-18W	-18	A	API/A	7795	2727
112520481	ISR		AMS-A2-21W	-21	C	CR/C	3306	2756
112523027	ISR		AMS-A2-21W_1	-21	C	CR/F	25	2745
112540718	ISR		AMS-A2-26W	-26	A	API/A	7793	2727
112540717	ISR		AMS-A2-30W	-30	A	API/A	7792	2727
112540716	ISR		AMS-A2-33W	-33	A	API/A	7791	2727
112540715	ISR		AMS-A2-36W	-36	A	API/A	7790	2727
112540714	ISR		AMS-A2-42W	-42	A	API/A	7789	2727
112540713	ISR		AMS-A2-48W	-48	A	API/A	7788	2727
112540712	ISR		AMS-A2-54W	-54	A	API/A	7787	2727
112540711	ISR		AMS-A2-60W	-60	A	API/A	7786	2727
112541278	ISR		AMS-A3-18W	-18	A	API/A	8144	2741

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112541277	ISR		AMS-A3-21W	-21	A	API/A	8143	2741
112541276	ISR		AMS-A3-24W	-24	A	API/A	8142	2741
113520145	ISR		AMS-A3-26W	-26	C	CR/C	3403	2768
112541274	ISR		AMS-A3-30W	-30	A	API/A	8140	2741
113520144	ISR		AMS-A3-33W	-33	C	CR/C	3404	2768
112541272	ISR		AMS-A3-36W	-36	A	API/A	8138	2741
112541271	ISR		AMS-A3-42W	-42	A	API/A	8137	2741
112541270	ISR		AMS-A3-48W	-48	A	API/A	8136	2741
112541269	ISR		AMS-A3-54W	-54	A	API/A	8135	2741
112541268	ISR		AMS-A3-60W	-60	A	API/A	8134	2741
113540253	ISR		AMS-A4-18W	-18	A	API/A	8386	2753
113540252	ISR		AMS-A4-21W	-21	A	API/A	8385	2753
113540251	ISR		AMS-A4-24W	-24	A	API/A	8384	2753
113540250	ISR		AMS-A4-26W	-26	A	API/A	8383	2753
113540249	ISR		AMS-A4-30W	-30	A	API/A	8382	2753
113540248	ISR		AMS-A4-33W	-33	A	API/A	8381	2753
113540247	ISR		AMS-A4-36W	-36	A	API/A	8380	2753
113540246	ISR		AMS-A4-42W	-42	A	API/A	8379	2753
113540245	ISR		AMS-A4-48W	-48	A	API/A	8378	2753
113540244	ISR		AMS-A4-54W	-54	A	API/A	8377	2753
113540243	ISR		AMS-A4-60W	-60	A	API/A	8376	2753
113540815	ISR		AMS-A5-18W	-18	A	API/A	8917	2764
113540814	ISR		AMS-A5-21W	-21	A	API/A	8916	2764
113540813	ISR		AMS-A5-24W	-24	A	API/A	8915	2764
113540812	ISR		AMS-A5-26W	-26	A	API/A	8914	2764
113540811	ISR		AMS-A5-30W	-30	A	API/A	8913	2764
113540810	ISR		AMS-A5-33W	-33	A	API/A	8912	2764
113540809	ISR		AMS-A5-36W	-36	A	API/A	8911	2764
113540808	ISR		AMS-A5-42W	-42	A	API/A	8910	2764
113540807	ISR		AMS-A5-48W	-48	A	API/A	8909	2764
113540806	ISR		AMS-A5-54W	-54	A	API/A	8908	2764
113540805	ISR		AMS-A5-60W	-60	A	API/A	8907	2764
114540334	ISR		AMS-A6-18W	-18	A	API/A	9271	2777
114540333	ISR		AMS-A6-21W	-21	A	API/A	9270	2777
114540332	ISR		AMS-A6-24W	-24	A	API/A	9269	2777
114540331	ISR		AMS-A6-26W	-26	A	API/A	9268	2777
114540330	ISR		AMS-A6-30W	-30	A	API/A	9267	2777
114540329	ISR		AMS-A6-33W	-33	A	API/A	9266	2777
114540328	ISR		AMS-A6-36W	-36	A	API/A	9265	2777
114540327	ISR		AMS-A6-42W	-42	A	API/A	9264	2777
114540326	ISR		AMS-A6-48W	-48	A	API/A	9263	2777
114540325	ISR		AMS-A6-54W	-54	A	API/A	9262	2777
114540324	ISR		AMS-A6-60W	-60	A	API/A	9261	2777
114540864	ISR		AMS-A7-18W	-18	A	API/A	9775	2788
114540863	ISR		AMS-A7-21W	-21	A	API/A	9774	2788

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114540861	ISR		AMS-A7-26W	-26	A	API/A	9772	2788
114540860	ISR		AMS-A7-30W	-30	A	API/A	9771	2788
114540859	ISR		AMS-A7-33W	-33	A	API/A	9770	2788
114540858	ISR		AMS-A7-36W	-36	A	API/A	9769	2788
114540857	ISR		AMS-A7-42W	-42	A	API/A	9768	2788
114540856	ISR		AMS-A7-48W	-48	A	API/A	9767	2788
114540855	ISR		AMS-A7-54W	-54	A	API/A	9766	2788
114540854	ISR		AMS-A7-60W	-60	A	API/A	9765	2788
112520209	ISR		AMS-B1-4W	-4	C	CR/C	3199	2744
112520209	ISR		AMS-B1-4W	-4	C	CR/E	396	2744
112540724	ISR		AMS-B2-0E	0	A	API/A	7799	2727
112540721	ISR		AMS-B2-12W	-12	A	API/A	7796	2727
113520047	ISR		AMS-B2-13.8E	13.8	C	CR/C	3349	2761
113523014	ISR		AMS-B2-13.8E_1	13.8	C	CR/F	38	2746
112540723	ISR		AMS-B2-4W	-4	A	API/A	7798	2727
112540725	ISR		AMS-B2-6E	6	A	API/A	7800	2727
112540722	ISR		AMS-B2-6W	-6	A	API/A	7797	2727
112541282	ISR		AMS-B3-0E	0	A	API/A	8148	2741
112541310	ISR		AMS-B3-126E	126	A	API/A	8176	2741
112541284	ISR		AMS-B3-12E	12	A	API/A	8150	2741
112541279	ISR		AMS-B3-12W	-12	A	API/A	8145	2741
112541311	ISR		AMS-B3-132E	132	A	API/A	8177	2741
112541312	ISR		AMS-B3-137E	137	A	API/A	8178	2741
112541313	ISR		AMS-B3-138E	138	A	API/A	8179	2741
112541314	ISR		AMS-B3-140E	140	A	API/A	8180	2741
112541281	ISR		AMS-B3-4W	-4	A	API/A	8147	2741
112541283	ISR		AMS-B3-6E	6	A	API/A	8149	2741
112541280	ISR		AMS-B3-6W	-6	A	API/A	8146	2741
113540256	ISR		AMS-B4-0E	0	A	API/A	8389	2753
113540260	ISR		AMS-B4-126E	126	A	API/A	8418	2753
113540258	ISR		AMS-B4-12E	12	A	API/A	8391	2753
113540254	ISR		AMS-B4-12W	-12	A	API/A	8387	2753
113540259	ISR		AMS-B4-13.8E	13.8	A	API/A	8392	2753
113540261	ISR		AMS-B4-132E	132	A	API/A	8419	2753
113540262	ISR		AMS-B4-137E	137	A	API/A	8420	2753
113540263	ISR		AMS-B4-138E	138	A	API/A	8421	2753
113540264	ISR		AMS-B4-140E	140	A	API/A	8422	2753
113520183	ISR		AMS-B4-4W	-4	C	CR/C	3430	2772
113540257	ISR		AMS-B4-6E	6	A	API/A	8390	2753
113540255	ISR		AMS-B4-6W	-6	A	API/A	8388	2753
113540819	ISR		AMS-B5-0E	0	A	API/A	8921	2764
113540823	ISR		AMS-B5-126E	126	A	API/A	8950	2764
113540821	ISR		AMS-B5-12E	12	A	API/A	8923	2764
113540816	ISR		AMS-B5-12W	-12	A	API/A	8918	2764

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113540822	ISR		AMS-B5-13.8E	13.8	A	API/A	8924	2764
113540824	ISR		AMS-B5-132E	132	A	API/A	8951	2764
113540825	ISR		AMS-B5-137E	137	A	API/A	8952	2764
113540826	ISR		AMS-B5-138E	138	A	API/A	8953	2764
113540827	ISR		AMS-B5-140E	140	A	API/A	8954	2764
113540818	ISR		AMS-B5-4W	-4	A	API/A	8920	2764
113540820	ISR		AMS-B5-6E	6	A	API/A	8922	2764
113540817	ISR		AMS-B5-6W	-6	A	API/A	8919	2764
114540338	ISR		AMS-B6-0E	0	A	API/A	9275	2777
114540342	ISR		AMS-B6-126E	126	A	API/A	9304	2777
114540340	ISR		AMS-B6-12E	12	A	API/A	9277	2777
114540335	ISR		AMS-B6-12W	-12	A	API/A	9272	2777
114540341	ISR		AMS-B6-13.8E	13.8	A	API/A	9278	2777
114540343	ISR		AMS-B6-132E	132	A	API/A	9305	2777
114540344	ISR		AMS-B6-137E	137	A	API/A	9306	2777
114540345	ISR		AMS-B6-138E	138	A	API/A	9307	2777
114540346	ISR		AMS-B6-140E	140	A	API/A	9308	2777
114540337	ISR		AMS-B6-4W	-4	A	API/A	9274	2777
114540339	ISR		AMS-B6-6E	6	A	API/A	9276	2777
114540336	ISR		AMS-B6-6W	-6	A	API/A	9273	2777
114540868	ISR		AMS-B7-0E	0	A	API/A	9779	2788
114540872	ISR		AMS-B7-126E	126	A	API/A	9783	2788
114540870	ISR		AMS-B7-12E	12	A	API/A	9781	2788
114540865	ISR		AMS-B7-12W	-12	A	API/A	9776	2788
115520155	ISR		AMS-B7-13.8E	13.8	C	CR/C	3851	2810
115523048	ISR		AMS-B7-13.8E_1	13.8	C	CR/F	251	2810
114540873	ISR		AMS-B7-132E	132	A	API/A	9784	2788
114540874	ISR		AMS-B7-137E	137	A	API/A	9785	2788
114540875	ISR		AMS-B7-138E	138	A	API/A	9786	2788
114540876	ISR		AMS-B7-140E	140	A	API/A	9787	2788
114540867	ISR		AMS-B7-4W	-4	A	API/A	9778	2788
114540869	ISR		AMS-B7-6E	6	A	API/A	9780	2788
114540866	ISR		AMS-B7-6W	-6	A	API/A	9777	2788
112520425	ISR		AMS-C1-137E	137	C	CR/C	3233	2755
112523012	ISR		AMS-C1-137E_1	137	C	CR/F	17	2739
112520210	ISR		AMS-C1-17E	17	C	CR/C	3200	2733
112520211	ISR		AMS-C1-23E	23	C	CR/C	3201	2733
112520212	ISR		AMS-C1-43E	43	C	CR/C	3202	2737
112520213	ISR		AMS-C1-65E	65	C	CR/C	3203	2737
112520435	ISR		AMS-C1-67.25E	67.25	C	CR/C	3281	2756
112523021	ISR		AMS-C1-67.25E_1	67.25	C	CR/F	22	2740
112520214	ISR		AMS-C1-82.5E	82.5	C	CR/C	3204	2737
112540746	ISR		AMS-C2-102E	102	A	API/A	7821	2727
112540747	ISR		AMS-C2-108E	108	A	API/A	7822	2727
112540748	ISR		AMS-C2-114E	114	A	API/A	7823	2727

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112540750	ISR		AMS-C2-126E	126	A	API/A	7825	2727
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112540752	ISR		AMS-C2-138E	138	A	API/A	7827	2727
112540727	ISR		AMS-C2-17E	17	A	API/A	7802	2727
112540728	ISR		AMS-C2-18E	18	A	API/A	7803	2727
112540729	ISR		AMS-C2-23E	23	A	API/A	7804	2727
112540730	ISR		AMS-C2-24E	24	A	API/A	7805	2727
112540731	ISR		AMS-C2-30E	30	A	API/A	7806	2727
112520482	ISR		AMS-C2-39.2E	39.2	C	CR/C	3305	2756
112523028	ISR		AMS-C2-39.2E_1	39.2	C	CR/F	26	2745
112540733	ISR		AMS-C2-42E	42	A	API/A	7808	2727
112540734	ISR		AMS-C2-43E	43	A	API/A	7809	2727
112540735	ISR		AMS-C2-48E	48	A	API/A	7810	2727
112540736	ISR		AMS-C2-54E	54	A	API/A	7811	2727
112540737	ISR		AMS-C2-60E	60	A	API/A	7812	2727
112540738	ISR		AMS-C2-65E	65	A	API/A	7813	2727
112540739	ISR		AMS-C2-66E	66	A	API/A	7814	2727
112540740	ISR		AMS-C2-72E	72	A	API/A	7815	2727
112540741	ISR		AMS-C2-78E	78	A	API/A	7816	2727
112540742	ISR		AMS-C2-82.5E	82.5	A	API/A	7817	2727
112540743	ISR		AMS-C2-84E	84	A	API/A	7818	2727
112540744	ISR		AMS-C2-90E	90	A	API/A	7819	2727
112540745	ISR		AMS-C2-96E	96	A	API/A	7820	2727
112541306	ISR		AMS-C3-102E	102	A	API/A	8172	2741
112541307	ISR		AMS-C3-108E	108	A	API/A	8173	2741
112541308	ISR		AMS-C3-114E	114	A	API/A	8174	2741
112541309	ISR		AMS-C3-120E	120	A	API/A	8175	2741
112541285	ISR		AMS-C3-17E	17	A	API/A	8151	2741
112541286	ISR		AMS-C3-18E	18	A	API/A	8152	2741
113520146	ISR		AMS-C3-23E	23	C	CR/C	3398	2768
113523031	ISR		AMS-C3-23E_1	23	C	CR/F	56	2755
112541288	ISR		AMS-C3-24E	24	A	API/A	8154	2741
112541289	ISR		AMS-C3-30E	30	A	API/A	8155	2741
112541290	ISR		AMS-C3-36E	36	A	API/A	8156	2741
112541291	ISR		AMS-C3-39.2E	39.2	A	API/A	8157	2741
112541292	ISR		AMS-C3-42E	42	A	API/A	8158	2741
113520147	ISR		AMS-C3-43E	43	C	CR/C	3399	2768
113523032	ISR		AMS-C3-43E_1	43	C	CR/F	57	2755
112541294	ISR		AMS-C3-48E	48	A	API/A	8160	2741
112541295	ISR		AMS-C3-54E	54	A	API/A	8161	2741
112541296	ISR		AMS-C3-60E	60	A	API/A	8162	2741
113520148	ISR		AMS-C3-65E	65	C	CR/C	3400	2768
113523033	ISR		AMS-C3-65E_1	65	C	CR/F	58	2755
112541298	ISR		AMS-C3-66E	66	A	API/A	8164	2741

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112541300	ISR		AMS-C3-72E	72	A	API/A	8166	2741
112541301	ISR		AMS-C3-78E	78	A	API/A	8167	2741
113520149	ISR		AMS-C3-82.5E	82.5	C	CR/C	3401	2768
113523034	ISR		AMS-C3-82.5E_1	82.5	C	CR/F	59	2755
112541303	ISR		AMS-C3-84E	84	A	API/A	8169	2741
112541304	ISR		AMS-C3-90E	90	A	API/A	8170	2741
112541305	ISR		AMS-C3-96E	96	A	API/A	8171	2741
113540286	ISR		AMS-C4-102E	102	A	API/A	8414	2753
113540287	ISR		AMS-C4-108E	108	A	API/A	8415	2753
113540288	ISR		AMS-C4-114E	114	A	API/A	8416	2753
113540289	ISR		AMS-C4-120E	120	A	API/A	8417	2753
113540265	ISR		AMS-C4-17E	17	A	API/A	8393	2753
113540266	ISR		AMS-C4-18E	18	A	API/A	8394	2753
113540267	ISR		AMS-C4-23E	23	A	API/A	8395	2753
113540268	ISR		AMS-C4-24E	24	A	API/A	8396	2753
113540269	ISR		AMS-C4-30E	30	A	API/A	8397	2753
113540270	ISR		AMS-C4-36E	36	A	API/A	8398	2753
113540271	ISR		AMS-C4-39.2E	39.2	A	API/A	8399	2753
113540272	ISR		AMS-C4-42E	42	A	API/A	8400	2753
113540273	ISR		AMS-C4-43E	43	A	API/A	8401	2753
113540274	ISR		AMS-C4-48E	48	A	API/A	8402	2753
113540275	ISR		AMS-C4-54E	54	A	API/A	8403	2753
113540276	ISR		AMS-C4-60E	60	A	API/A	8404	2753
113540277	ISR		AMS-C4-65E	65	A	API/A	8405	2753
113540278	ISR		AMS-C4-66E	66	A	API/A	8406	2753
113540279	ISR		AMS-C4-67.25E	67.25	A	API/A	8407	2753
113540280	ISR		AMS-C4-72E	72	A	API/A	8408	2753
113540281	ISR		AMS-C4-78E	78	A	API/A	8409	2753
113540282	ISR		AMS-C4-82.5E	82.5	A	API/A	8410	2753
113540283	ISR		AMS-C4-84E	84	A	API/A	8411	2753
113540284	ISR		AMS-C4-90E	90	A	API/A	8412	2753
113540285	ISR		AMS-C4-96E	96	A	API/A	8413	2753
113540849	ISR		AMS-C5-102E	102	A	API/A	8946	2764
113540850	ISR		AMS-C5-108E	108	A	API/A	8947	2764
113540851	ISR		AMS-C5-114E	114	A	API/A	8948	2764
113540852	ISR		AMS-C5-120E	120	A	API/A	8949	2764
113540828	ISR		AMS-C5-17E	17	A	API/A	8925	2764
113540829	ISR		AMS-C5-18E	18	A	API/A	8926	2764
113540830	ISR		AMS-C5-23E	23	A	API/A	8927	2764
113540831	ISR		AMS-C5-24E	24	A	API/A	8928	2764
113540832	ISR		AMS-C5-30E	30	A	API/A	8929	2764
113540833	ISR		AMS-C5-36E	36	A	API/A	8930	2764
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113540835	ISR		AMS-C5-42E	42	A	API/A	8932	2764

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113540837	ISR		AMS-C5-48E	48	A	API/A	8934	2764
113540838	ISR		AMS-C5-54E	54	A	API/A	8935	2764
113540839	ISR		AMS-C5-60E	60	A	API/A	8936	2764
113540840	ISR		AMS-C5-65E	65	A	API/A	8937	2764
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113540842	ISR		AMS-C5-67.25E	67.25	A	API/A	8939	2764
113540843	ISR		AMS-C5-72E	72	A	API/A	8940	2764
113540844	ISR		AMS-C5-78E	78	A	API/A	8941	2764
113540845	ISR		AMS-C5-82.5E	82.5	A	API/A	8942	2764
113540846	ISR		AMS-C5-84E	84	A	API/A	8943	2764
113540847	ISR		AMS-C5-90E	90	A	API/A	8944	2764
113540848	ISR		AMS-C5-96E	96	A	API/A	8945	2764
114540368	ISR		AMS-C6-102E	102	A	API/A	9300	2777
114540369	ISR		AMS-C6-108E	108	A	API/A	9301	2777
114540370	ISR		AMS-C6-114E	114	A	API/A	9302	2777
114540371	ISR		AMS-C6-120E	120	A	API/A	9303	2777
114540347	ISR		AMS-C6-17E	17	A	API/A	9279	2777
114540348	ISR		AMS-C6-18E	18	A	API/A	9280	2777
114540349	ISR		AMS-C6-23E	23	A	API/A	9281	2777
114540350	ISR		AMS-C6-24E	24	A	API/A	9282	2777
114540351	ISR		AMS-C6-30E	30	A	API/A	9283	2777
114540352	ISR		AMS-C6-36E	36	A	API/A	9284	2777
114540353	ISR		AMS-C6-39.2E	39.2	A	API/A	9285	2777
114540354	ISR		AMS-C6-42E	42	A	API/A	9286	2777
114540355	ISR		AMS-C6-43E	43	A	API/A	9287	2777
114540356	ISR		AMS-C6-48E	48	A	API/A	9288	2777
114540357	ISR		AMS-C6-54E	54	A	API/A	9289	2777
114540358	ISR		AMS-C6-60E	60	A	API/A	9290	2777
114540359	ISR		AMS-C6-65E	65	A	API/A	9291	2777
114540360	ISR		AMS-C6-66E	66	A	API/A	9292	2777
114540361	ISR		AMS-C6-67.25E	67.25	A	API/A	9293	2777
114540362	ISR		AMS-C6-72E	72	A	API/A	9294	2777
114540363	ISR		AMS-C6-78E	78	A	API/A	9295	2777
114540364	ISR		AMS-C6-82.5E	82.5	A	API/A	9296	2777
114540365	ISR		AMS-C6-84E	84	A	API/A	9297	2777
114540366	ISR		AMS-C6-90E	90	A	API/A	9298	2777
114540367	ISR		AMS-C6-96E	96	A	API/A	9299	2777
114540898	ISR		AMS-C7-102E	102	A	API/A	9809	2788
114540899	ISR		AMS-C7-108E	108	A	API/A	9810	2788
114540900	ISR		AMS-C7-114E	114	A	API/A	9811	2788
114540901	ISR		AMS-C7-120E	120	A	API/A	9812	2788
114540877	ISR		AMS-C7-17E	17	A	API/A	9788	2788
114540878	ISR		AMS-C7-18E	18	A	API/A	9789	2788
114540879	ISR		AMS-C7-23E	23	A	API/A	9790	2788

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114540881	ISR		AMS-C7-30E	30	A	API/A	9792	2788
114540882	ISR		AMS-C7-36E	36	A	API/A	9793	2788
114540883	ISR		AMS-C7-39.2E	39.2	A	API/A	9794	2788
114540884	ISR		AMS-C7-42E	42	A	API/A	9795	2788
114540885	ISR		AMS-C7-43E	43	A	API/A	9796	2788
114540886	ISR		AMS-C7-48E	48	A	API/A	9797	2788
114540887	ISR		AMS-C7-54E	54	A	API/A	9798	2788
114540888	ISR		AMS-C7-60E	60	A	API/A	9799	2788
114540889	ISR		AMS-C7-65E	65	A	API/A	9800	2788
114540890	ISR		AMS-C7-66E	66	A	API/A	9801	2788
114540891	ISR		AMS-C7-67.25E	67.25	A	API/A	9802	2788
114540892	ISR		AMS-C7-72E	72	A	API/A	9803	2788
114540893	ISR		AMS-C7-78E	78	A	API/A	9804	2788
114540894	ISR		AMS-C7-82.5E	82.5	A	API/A	9805	2788
114540895	ISR		AMS-C7-84E	84	A	API/A	9806	2788
114540896	ISR		AMS-C7-90E	90	A	API/A	9807	2788
114540897	ISR		AMS-C7-96E	96	A	API/A	9808	2788
110520450	ISR		AMS-CK-17E	17	C	CR/C	2782	2716
110520450	ISR		AMS-CK-17E	17	C	CR/E	425	2716
111520120	ISR		AMS-CK-23E	23	C	CR/C	2841	2716
111520120	ISR		AMS-CK-23E	23	C	CR/E	426	2716
111520119	ISR		AMS-CK-26W	-26	C	CR/C	2840	2716
111520119	ISR		AMS-CK-26W	-26	C	CR/E	77	2716
111520387	ISR		AMS-CK-33W	-33	C	CR/C	3028	2731
111520388	ISR		AMS-CK-43E	43	C	CR/C	3029	2731
110520366	ISR		AMS-CK-4W	-4	C	CR/C	2761	2700
110520366	ISR		AMS-CK-4W	-4	C	CR/E	424	2700
111520121	ISR		AMS-CK-65E	65	C	CR/C	2842	2716
111520121	ISR		AMS-CK-65E	65	C	CR/E	143	2716
111520468	ISR		AMS-CK-82.5E	82.5	C	CR/C	3074	2734
109520252	ISR		SPARTAN II	-123	C	CR/C	2486	2681
115540659	J		DRS-90.75E	90.75	A	API/A	10535	2800
115540661	J		DRS-92.5E	92.5	A	API/A	10537	2800
115540660	J		DRS-95.5E	95.5	A	API/A	10536	2800
115540581	J		JMCS-Y15-110E	110	A	API/A	10454	2800
115540580	J		JMCS-Y15-140E	140	A	API/A	10453	2800
115540579	J		JMCS-Y15-143E	143	A	API/A	10452	2800
115540578	J		JMCS-Y15-146E	146	A	API/A	10451	2800
115540577	J		JMCS-Y15-158E	158	A	API/A	10450	2800
115540576	J		JMCS-Y15-162E	162	A	API/A	10449	2800
115540583	J		JMCS-Y15-93E	93	A	API/A	10456	2800
115540552	J		N-SAT-Y15-0E	0	A	API/A	10425	2800
115540526	J		N-SAT-Y15-102E	102	A	API/A	10399	2800
115540582	J		N-SAT-Y15-102W	-102	A	API/A	10455	2800

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115540584	J		N-SAT-Y15-108W	-108	A	API/A	10457	2800
115540524	J		N-SAT-Y15-114E	114	A	API/A	10397	2800
115540585	J		N-SAT-Y15-114W	-114	A	API/A	10458	2800
115540523	J		N-SAT-Y15-120E	120	A	API/A	10396	2800
115540586	J		N-SAT-Y15-120W	-120	A	API/A	10459	2800
115540522	J		N-SAT-Y15-126E	126	A	API/A	10395	2800
115540587	J		N-SAT-Y15-126W	-126	A	API/A	10460	2800
115540548	J		N-SAT-Y15-12E	12	A	API/A	10421	2800
115540561	J		N-SAT-Y15-12W	-12	A	API/A	10434	2800
115540518	J		N-SAT-Y15-132E	132	A	API/A	10391	2800
115540588	J		N-SAT-Y15-132W	-132	A	API/A	10461	2800
115540517	J		N-SAT-Y15-138E	138	A	API/A	10390	2800
115540589	J		N-SAT-Y15-138W	-138	A	API/A	10462	2800
115540516	J		N-SAT-Y15-144E	144	A	API/A	10389	2800
115540590	J		N-SAT-Y15-144W	-144	A	API/A	10463	2800
115540510	J		N-SAT-Y15-150E	150	A	API/A	10383	2800
115540591	J		N-SAT-Y15-150W	-150	A	API/A	10464	2800
115540507	J		N-SAT-Y15-156E	156	A	API/A	10380	2800
115540592	J		N-SAT-Y15-156W	-156	A	API/A	10465	2800
115540497	J		N-SAT-Y15-162E	162	A	API/A	10370	2800
115540612	J		N-SAT-Y15-162W	-162	A	API/A	10485	2800
115540496	J		N-SAT-Y15-168E	168	A	API/A	10369	2800
115540613	J		N-SAT-Y15-168W	-168	A	API/A	10486	2800
115540495	J		N-SAT-Y15-174E	174	A	API/A	10368	2800
115540614	J		N-SAT-Y15-174W	-174	A	API/A	10487	2800
115540494	J		N-SAT-Y15-180E	180	A	API/A	10367	2800
115540546	J		N-SAT-Y15-18E	18	A	API/A	10419	2800
115540562	J		N-SAT-Y15-18W	-18	A	API/A	10435	2800
115540539	J		N-SAT-Y15-24E	24	A	API/A	10412	2800
115540563	J		N-SAT-Y15-24W	-24	A	API/A	10436	2800
115540538	J		N-SAT-Y15-30E	30	A	API/A	10411	2800
115540564	J		N-SAT-Y15-30W	-30	A	API/A	10437	2800
115540537	J		N-SAT-Y15-36E	36	A	API/A	10410	2800
115540565	J		N-SAT-Y15-36W	-36	A	API/A	10438	2800
115540536	J		N-SAT-Y15-42E	42	A	API/A	10409	2800
115540566	J		N-SAT-Y15-42W	-42	A	API/A	10439	2800
115540535	J		N-SAT-Y15-48E	48	A	API/A	10408	2800
115540567	J		N-SAT-Y15-48W	-48	A	API/A	10440	2800
115540534	J		N-SAT-Y15-54E	54	A	API/A	10407	2800
115540568	J		N-SAT-Y15-54W	-54	A	API/A	10441	2800
115540533	J		N-SAT-Y15-60E	60	A	API/A	10406	2800
115540569	J		N-SAT-Y15-60W	-60	A	API/A	10442	2800
115540532	J		N-SAT-Y15-66E	66	A	API/A	10405	2800
115540570	J		N-SAT-Y15-66W	-66	A	API/A	10443	2800

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115540560	J		N-SAT-Y15-6W	-6	A	API/A	10433	2800
115540531	J		N-SAT-Y15-72E	72	A	API/A	10404	2800
115540571	J		N-SAT-Y15-72W	-72	A	API/A	10444	2800
115540530	J		N-SAT-Y15-78E	78	A	API/A	10403	2800
115540572	J		N-SAT-Y15-78W	-78	A	API/A	10445	2800
115540529	J		N-SAT-Y15-84E	84	A	API/A	10402	2800
115540573	J		N-SAT-Y15-84W	-84	A	API/A	10446	2800
115540528	J		N-SAT-Y15-90E	90	A	API/A	10401	2800
115540574	J		N-SAT-Y15-90W	-90	A	API/A	10447	2800
115540527	J		N-SAT-Y15-96E	96	A	API/A	10400	2800
115540575	J		N-SAT-Y15-96W	-96	A	API/A	10448	2800
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	2724
110520056	J		BBISS-2E	87	C	CR/C	2696	2724
100500188	J		BSAT-109.85	109.85	N	PART	1	2747
100500189	J		BSAT-110	110	N	PART	2	2696
105500223	J		DRTS-90.75E	90.75	N	PART	2	2792
107500244	J		D-STAR-1	132	N	PART	2	2684
110500022	J		D-STAR-2	136	N	PART	2	2684
109500917	J		ETS-8	146	N	PART	2	2760
95500020	J		GMS-140E	140	N	PART	2	2715
112520004	J		HIMAWARI-140E	140.7	C	CR/C	3112	2734
112520004	J		HIMAWARI-140E	140.7	C	CR/E	297	2734
112520005	J		HIMAWARI-143E	143.3	C	CR/C	3113	2734
112520005	J		HIMAWARI-143E	143.3	C	CR/E	298	2734
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	1	2769
90500242	J		JCSAT-2	154	N	PART	2	2510
103500132	J		JCSAT-2R	154	N	PART	2	2721
103500134	J		JCSAT-3A	128	N	PART	2	2728
103500135	J		JCSAT-3B	124	N	PART	1	2807
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	1	2720
108501219	J		JCSAT-FO-136E	136	N	PART	1	2720
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	2790
113520005	J		JMCS-110E	110	C	CR/C	3327	2759
113520006	J		JMCS-144E	144	C	CR/C	3328	2759

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113520007	J		JMCS-158E	158	C	CR/C	3329	2759
113520008	J		JMCS-162E	162	C	CR/C	3330	2759
105500335	J		JMCS-1R	144	N	PART	2	2790
107500115	J		JMCS-2	110	N	PART	2	2743
105500336	J		JMCS-3A	158	N	PART	2	2809
105500227	J		JMCS-3B	162	N	PART	1	2782
111520297	J		JMCS-72E-R	72	C	CR/C	3004	2727
111520298	J		JMCS-82E-R	82	C	CR/C	3005	2727
113500084	J		JMCS-93E	93	N	PART	2	2797
111520299	J		JMCS-93E-R	93	C	CR/C	3006	2711
111520299	J		JMCS-93E-R	93	C	CR/E	576	2711
113540480	J		JMCS-93E-R2	93	A	API/A	8667	2755
113500140	J		JMCS-B4-X	162	N	PART	2	2766
108501224	J		JMCS-C2-X	144	N	PART	2	2693
113500139	J		JMCS-D2-X	110	N	PART	2	2766
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
110500016	J		MTSAT-C-140E	140	N	PART	2	2755
110500017	J		MTSAT-C-145E	145	N	PART	2	2755
110520048	J		NBSAT-21A	110	C	CR/C	2575	2690
115520051	J		NBSAT-21AX	110	C	CR/C	3833	2807
115523045	J		NBSAT-21AX_1	110	C	CR/F	248	2807
110520049	J		NBSAT-21B	109.85	C	CR/C	2576	2690
115520052	J		NBSAT-21BX	109.85	C	CR/C	3834	2807
115523046	J		NBSAT-21BX_1	109.85	C	CR/F	249	2807
110520050	J		NBSAT-21C	109.65	C	CR/C	2577	2690
115520053	J		NBSAT-21CX	109.65	C	CR/C	3835	2807
115523047	J		NBSAT-21CX_1	109.65	C	CR/F	250	2807
101500489	J		N-SAT-110	110	N	PART	2	2635
108501100	J		N-SAT-110E	110	N	PART	2	2652
112500026	J		N-SAT-124E	124	N	PART	1	2792
106500574	J		N-SAT-127W	-127	N	PART	2	2679
101500531	J		N-SAT-128	128	N	PART	2	2616
108500022	J		N-SAT-143.72E	143.72	N	PART	1	2765
97500365	J		N-SAT-146	144	N	PART	2	2777
109520032	J		N-SAT-150.5E	150.5	C	CR/C	2443	2674
109520033	J		N-SAT-154E	154	C	CR/C	2444	2674
108520175	J		N-SAT2-110E	110	C	CR/C	2361	2659
110520451	J		N-SAT2-120E	120	C	CR/C	2784	2716
110520451	J		N-SAT2-120E	120	C	CR/E	37	2716
112520159	J		N-SAT2-127W	-127	C	CR/C	3212	2746
109520034	J		N-SAT2-144E	144	C	CR/C	2445	2674
109520035	J		N-SAT2-158E	158	C	CR/C	2446	2674
114500016	J		N-SAT2-162E	162	N	PART	2	2808

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112520156	J		N-SAT2-88E	88	C	CR/C	3216	2746
112520157	J		N-SAT2-93E	93	C	CR/C	3213	2746
112520158	J		N-SAT2-98.5E	98.5	C	CR/C	3211	2746
112500006	J		N-SAT-82E	82	N	PART	1	2784
112500244	J		N-SAT-90.75E	90.75	N	PART	2	2761
113500113	J		N-SAT-93E	93	N	PART	2	2809
109520325	J		N-SAT-A-114.9W	-114.9	C	CR/C	2541	2686
109520267	J		N-SAT-A-1E	1	C	CR/C	2491	2684
109520265	J		N-SAT-A-28.5E	28.5	C	CR/C	2493	2684
109520264	J		N-SAT-A-47.5W	-47.5	C	CR/C	2494	2684
109520263	J		N-SAT-A-67.5W	-67.5	C	CR/C	2495	2684
109520262	J		N-SAT-A-81W	-81	C	CR/C	2496	2684
109520266	J		N-SAT-A-8W	-8	C	CR/C	2492	2684
112520397	J		N-SAT-Y12-110E	110	C	CR/C	3254	2752
112520160	J		N-SAT-Y12-124E	124	C	CR/C	3255	2752
112520161	J		N-SAT-Y12-128E	128	C	CR/C	3256	2752
112520162	J		N-SAT-Y12-132E	132	C	CR/C	3257	2752
112520398	J		N-SAT-Y12-136E	136	C	CR/C	3258	2752
112520163	J		N-SAT-Y12-144E	144	C	CR/C	3259	2752
112520164	J		N-SAT-Y12-150E	150	C	CR/C	3260	2752
112520165	J		N-SAT-Y12-154E	154	C	CR/C	3261	2752
112520166	J		N-SAT-Y12-158E	158	C	CR/C	3262	2752
112520167	J		N-SAT-Y12-162E	162	C	CR/C	3263	2752
113520025	J		N-SAT-Y12-173W	-173	C	CR/C	3376	2766
112540917	J		N-SAT-Y12-82.3E	82.3	A	API/A	7917	2729
112540918	J		N-SAT-Y12-82.5E	82.5	A	API/A	7918	2729
112540919	J		N-SAT-Y12-82.7E	82.7	A	API/A	7919	2729
113540510	J		N-SAT-Y13-0E	0	A	API/A	8634	2755
113540527	J		N-SAT-Y13-102E	102	A	API/A	8651	2755
113540493	J		N-SAT-Y13-102W	-102	A	API/A	8617	2755
113540528	J		N-SAT-Y13-108E	108	A	API/A	8652	2755
115520025	J		N-SAT-Y13-110W	-110	C	CR/C	3752	2800
113540529	J		N-SAT-Y13-114E	114	A	API/A	8653	2755
113540491	J		N-SAT-Y13-114W	-114	A	API/A	8615	2755
113540530	J		N-SAT-Y13-120E	120	A	API/A	8654	2755
113540490	J		N-SAT-Y13-120W	-120	A	API/A	8614	2755
113540531	J		N-SAT-Y13-126E	126	A	API/A	8655	2755
113540489	J		N-SAT-Y13-126W	-126	A	API/A	8613	2755
113540512	J		N-SAT-Y13-12E	12	A	API/A	8636	2755
113540508	J		N-SAT-Y13-12W	-12	A	API/A	8632	2755
113540532	J		N-SAT-Y13-132E	132	A	API/A	8656	2755
113540488	J		N-SAT-Y13-132W	-132	A	API/A	8612	2755
113540533	J		N-SAT-Y13-138E	138	A	API/A	8657	2755
113540487	J		N-SAT-Y13-138W	-138	A	API/A	8611	2755

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113540486	J		N-SAT-Y13-144W	-144	A	API/A	8610	2755
114520017	J		N-SAT-Y13-150.5E	150.5	C	CR/C	3543	2790
113540485	J		N-SAT-Y13-150W	-150	A	API/A	8609	2755
113540536	J		N-SAT-Y13-156E	156	A	API/A	8660	2755
113540484	J		N-SAT-Y13-156W	-156	A	API/A	8608	2755
113540537	J		N-SAT-Y13-162E	162	A	API/A	8661	2755
113540483	J		N-SAT-Y13-162W	-162	A	API/A	8607	2755
113540538	J		N-SAT-Y13-168E	168	A	API/A	8662	2755
113540482	J		N-SAT-Y13-168W	-168	A	API/A	8606	2755
113540539	J		N-SAT-Y13-174E	174	A	API/A	8663	2755
113540481	J		N-SAT-Y13-174W	-174	A	API/A	8605	2755
113540540	J		N-SAT-Y13-180E	180	A	API/A	8664	2755
113540513	J		N-SAT-Y13-18E	18	A	API/A	8637	2755
113540507	J		N-SAT-Y13-18W	-18	A	API/A	8631	2755
113540514	J		N-SAT-Y13-24E	24	A	API/A	8638	2755
115520026	J		N-SAT-Y13-26W	-26	C	CR/C	3751	2800
113540515	J		N-SAT-Y13-30E	30	A	API/A	8639	2755
113540505	J		N-SAT-Y13-30W	-30	A	API/A	8629	2755
113540516	J		N-SAT-Y13-36E	36	A	API/A	8640	2755
113540504	J		N-SAT-Y13-36W	-36	A	API/A	8628	2755
113540517	J		N-SAT-Y13-42E	42	A	API/A	8641	2755
113540503	J		N-SAT-Y13-42W	-42	A	API/A	8627	2755
113540518	J		N-SAT-Y13-48E	48	A	API/A	8642	2755
113540502	J		N-SAT-Y13-48W	-48	A	API/A	8626	2755
113540519	J		N-SAT-Y13-54E	54	A	API/A	8643	2755
113540501	J		N-SAT-Y13-54W	-54	A	API/A	8625	2755
113540520	J		N-SAT-Y13-60E	60	A	API/A	8644	2755
113540500	J		N-SAT-Y13-60W	-60	A	API/A	8624	2755
113540521	J		N-SAT-Y13-66E	66	A	API/A	8645	2755
113540499	J		N-SAT-Y13-66W	-66	A	API/A	8623	2755
113540511	J		N-SAT-Y13-6E	6	A	API/A	8635	2755
113540509	J		N-SAT-Y13-6W	-6	A	API/A	8633	2755
113540522	J		N-SAT-Y13-72E	72	A	API/A	8646	2755
113540498	J		N-SAT-Y13-72W	-72	A	API/A	8622	2755
113540497	J		N-SAT-Y13-78W	-78	A	API/A	8621	2755
114520182	J		N-SAT-Y13-82E	82	C	CR/C	3656	2802
113540524	J		N-SAT-Y13-84E	84	A	API/A	8648	2755
113540496	J		N-SAT-Y13-84W	-84	A	API/A	8620	2755
113540541	J		N-SAT-Y13-90.75E	90.75	A	API/A	8665	2755
113540525	J		N-SAT-Y13-90E	90	A	API/A	8649	2755
113540495	J		N-SAT-Y13-90W	-90	A	API/A	8619	2755
113540526	J		N-SAT-Y13-96E	96	A	API/A	8650	2755
113540494	J		N-SAT-Y13-96W	-96	A	API/A	8618	2755
95500133	J		N-STAR-A	132	N	PART	2	2690

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95500571	J		N-STAR-B	136	N	PART	2	2690
105500530	J		N-STAR-B2	136	N	PART	1	2691
110500062	J		N-STAR-E	136	N	PART	2	2692
110500063	J		N-STAR-F	132	N	PART	2	2692
112520495	J		QZSS-GS1	90.5	C	CR/C	3317	2770
112540401	J		QZSS-GS2	108	A	API/A	7596	2722
112520496	J		QZSS-GS3	123	C	CR/C	3318	2810
112520497	J		QZSS-GS4	127	C	CR/C	3319	2794
112520498	J		QZSS-GS5	137	C	CR/C	3320	2810
112540405	J		QZSS-GS6	146	A	API/A	7600	2722
112540406	J		QZSS-GS7	157	A	API/A	7601	2722
112520499	J		QZSS-GS8	168	C	CR/C	3321	2770
101500530	J		SJC-1	124	N	PART	1	2798
114540198	J		S-SAT-116E	116	A	API/A	9139	2773
114540199	J		S-SAT-121E	121	A	API/A	9140	2773
114540200	J		S-SAT-126E	126	A	API/A	9141	2773
114540201	J		S-SAT-131E	131	A	API/A	9142	2773
115520068	J		S-SAT-135E	135	C	CR/C	3785	2802
115520069	J		S-SAT-137E	137	C	CR/C	3786	2802
115520070	J		S-SAT-146.5E	146.5	C	CR/C	3787	2802
114540205	J		S-SAT-151E	151	A	API/A	9146	2773
90500373	J		SUPERBIRD-A	158	N	PART	1	2802
104500273	J		SUPERBIRD-A2	158	N	PART	2	2745
106500017	J		SUPERBIRD-A2-R	158	N	PART	1	2747
90500376	J		SUPERBIRD-B	162	N	PART	2	2761
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	2777
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
115540670	JOR		JORSAT-12E	12	A	API/A	10548	2800
115540708	JOR		JORSAT-12E-MOD	12	A	API/A	10591	2801
115540673	JOR		JORSAT-20E	20	A	API/A	10551	2800
115540712	JOR		JORSAT-20E-MOD	20	A	API/A	10595	2801
	JOR		JORSAT-22.5E	22.5	A			
115540668	JOR		JORSAT-22E	22	A	API/A	10546	2800
115540706	JOR		JORSAT-22E-MOD	22	A	API/A	10589	2801
115540674	JOR		JORSAT-32E	32	A	API/A	10552	2800
115540711	JOR		JORSAT-32E-MOD	32	A	API/A	10594	2801
115540667	JOR		JORSAT-34.5E	34.5	A	API/A	10545	2800
115540705	JOR		JORSAT-34.5E-MOD	34.5	A	API/A	10588	2801
115540675	JOR		JORSAT-44E	44	A	API/A	10553	2800

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115540710	JOR		JORSAT-44E-MOD	44	A	API/A	10593	2801
115540671	JOR		JORSAT-45E	45	A	API/A	10549	2800
115540707	JOR		JORSAT-45E-MOD	45	A	API/A	10590	2801
115540672	JOR		JORSAT-4W	-4	A	API/A	10550	2800
115540704	JOR		JORSAT-4W-MOD	-4	A	API/A	10587	2801
115540669	JOR		JORSAT-8E	8	A	API/A	10547	2800
115540709	JOR		JORSAT-8E-MOD	8	A	API/A	10592	2801
	KAZ		KAZSAT1-FSS	58.5	A			
	KAZ		KAZSAT2-FSS	86.5	A			
	KAZ		KAZSAT7-FSS	77.5	A			
110500356	KAZ		KAZSAT1	58.5	N	PART	1	2791
108540105	KAZ		KAZSAT10	44	A	API/A	5076	2639
113520125	KAZ		KAZSAT10R	44	C	CR/C	3393	2765
113520125	KAZ		KAZSAT10R	44	C	CR/E	580	2765
108540106	KAZ		KAZSAT11	98.5	A	API/A	5077	2639
112541259	KAZ		KAZSAT11R	98.5	A	API/A	8124	2740
114520128	KAZ		KAZSAT12	73	C	CR/C	3637	2799
114523026	KAZ		KAZSAT12_1	73	C	CR/F	155	2785
111500122	KAZ		KAZSAT1M	58.5	N	PART	1	2780
111520415	KAZ		KAZSAT1R	58.5	C	CR/C	3060	2731
114520071	KAZ		KAZSAT1S	58.5	C	CR/C	3587	2792
114523020	KAZ		KAZSAT1S_1	58.5	C	CR/F	133	2778
110500357	KAZ		KAZSAT2	86.5	N	PART	2	2768
111500125	KAZ		KAZSAT2M	86.5	N	PART	1	2763
112520009	KAZ		KAZSAT2R	86.5	C	CR/C	3193	2745
112523007	KAZ		KAZSAT2R_1	86.5	C	CR/F	10	2739
112520010	KAZ		KAZSAT3R	55	C	CR/C	3194	2745
112523008	KAZ		KAZSAT3R_1	55	C	CR/F	11	2739
106540777	KAZ		KAZSAT5	49.3	A	API/A	4453	2671
112520011	KAZ		KAZSAT5R	49.3	C	CR/C	3195	2745
112523009	KAZ		KAZSAT5R_1	49.3	C	CR/F	12	2739
112520012	KAZ		KAZSAT7R	77.5	C	CR/C	3196	2745
112523010	KAZ		KAZSAT7R_1	77.5	C	CR/F	13	2739
114520072	KAZ		KAZSAT7S	77.5	C	CR/C	3588	2792
114523021	KAZ		KAZSAT7S_1	77.5	C	CR/F	134	2778
108540104	KAZ		KAZSAT9	34.3	A	API/A	5075	2615
112541257	KAZ		KAZSAT9R	34.3	A	API/A	8122	2740
110500111	KOR		COMS-116.2E	116.2	N	PART	1	2711
110500112	KOR		COMS-128.2E	128.2	N	PART	2	2711
115520089	KOR		GEO-KOMPSAT-2-128.2E	128.2	C	CR/C	3802	2804
112520468	KOR		GK2-116.2E	116.2	C	CR/C	3293	2739
112520468	KOR		GK2-116.2E	116.2	C	CR/E	484	2739
112520469	KOR		GK2-128.2E	128.2	C	CR/C	3294	2739
112520469	KOR		GK2-128.2E	128.2	C	CR/E	485	2739
111520370	KOR		HANSAT-113E	113	C	CR/C	3007	2727

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111520370	KOR		HANSAT-113E	113	C	CR/E	654	2727
111520371	KOR		HANSAT-116E	116	C	CR/C	3008	2727
111520371	KOR		HANSAT-116E	116	C	CR/E	655	2727
111520372	KOR		HANSAT-128.2E	128.2	C	CR/C	3009	2727
111520372	KOR		HANSAT-128.2E	128.2	C	CR/E	656	2727
108500797	KOR		INFOSAT-B	113	N	PART	2	2689
99500246	KOR		INFOSAT-C	116	N	PART	2	2784
95500170	KOR		KOREASAT-1	116	N	PART	2	2795
113520194	KOR		KOREASAT-103.2E-MT2	103.2	C	CR/C	3436	2774
106500308	KOR		KOREASAT-113E	113	N	PART	2	2661
111520381	KOR		KOREASAT-113K	113	C	CR/C	3022	2789
111520381	KOR		KOREASAT-113K	113	C	CR/E	774	2789
109500906	KOR		KOREASAT-113X	113	N	PART	2	2735
113520051	KOR		KOREASAT-114.5K	114.5	C	CR/C	3361	2761
114520131	KOR		KOREASAT-116	116	C	CR/C	3624	2795
110520358	KOR		KOREASAT-116.0E	116	C	CR/C	2755	2706
111520382	KOR		KOREASAT-116K	116	C	CR/C	3023	2792
95500171	KOR		KOREASAT-2	113	N	PART	2	2803
111520379	KOR		KOREASAT-93E	93	C	CR/C	3066	2734
110520006	KOR		KOREASAT-97E	97	C	CR/C	2551	2688
115540122	KOR		KOREASAT-97E-MT2	97	A	API/A	9948	2794
111520380	KOR		KOREASAT-97K	97	C	CR/C	3021	2728
114520093	KOR		KTSAT-11E	11	C	CR/C	3603	2793
113540619	KOR		KTSAT-19W	-19	A	API/A	8726	2759
114520092	KOR		KTSAT-1E	1	C	CR/C	3602	2793
113540618	KOR		KTSAT-21W	-21	A	API/A	8725	2759
113540623	KOR		KTSAT-27E	27	A	API/A	8730	2759
113540617	KOR		KTSAT-28.5W	-28.5	A	API/A	8724	2759
113540620	KOR		KTSAT-2W	-2	A	API/A	8727	2759
113540624	KOR		KTSAT-36E	36	A	API/A	8731	2759
114520091	KOR		KTSAT-36W	-36	C	CR/C	3605	2793
114520094	KOR		KTSAT-41E	41	C	CR/C	3604	2793
113540615	KOR		KTSAT-42W	-42	A	API/A	8722	2759
113540614	KOR		KTSAT-44W	-44	A	API/A	8721	2759
113540613	KOR		KTSAT-48.5W	-48.5	A	API/A	8720	2759
113540626	KOR		KTSAT-81.5E	81.5	A	API/A	8733	2759
108520236	LAO		LAOSAT-128.5E	128.5	C	CR/C	2326	2638
113520092	LAO		LAOSAT-128.5E-A	128.5	C	CR/C	3377	2762
113520092	LAO		LAOSAT-128.5E-A	128.5	C	CR/E	558	2762
114520001	LAO		LSTAR-126E	126	C	CR/C	3532	2787
112540696	LTU		LIETUVA-9W	-9.3	A	API/A	7771	2727
	LUX		LUX-G10-37-A	-135	A			
115540935	LUX		LUX-G11-1	1	A	API/A	10820	2810
115540941	LUX		LUX-G11-10	35	A	API/A	10826	2810
115540948	LUX		LUX-G11-11	39	A	API/A	10833	2810

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115540958	LUX		LUX-G11-12	43.5	A	API/A	10843	2810
115540961	LUX		LUX-G11-13	48	A	API/A	10846	2810
115540964	LUX		LUX-G11-14	52	A	API/A	10849	2810
115540966	LUX		LUX-G11-15	55	A	API/A	10851	2810
115540968	LUX		LUX-G11-16	63	A	API/A	10853	2810
115540967	LUX		LUX-G11-17	69	A	API/A	10852	2810
115540971	LUX		LUX-G11-18	74	A	API/A	10856	2810
115540956	LUX		LUX-G11-19	83	A	API/A	10841	2810
115540936	LUX		LUX-G11-2	5	A	API/A	10821	2810
115540957	LUX		LUX-G11-20	93.5	A	API/A	10842	2810
115540974	LUX		LUX-G11-21	108.2	A	API/A	10859	2810
115540977	LUX		LUX-G11-22	114	A	API/A	10862	2810
115540978	LUX		LUX-G11-23	120	A	API/A	10863	2810
115540981	LUX		LUX-G11-24	126	A	API/A	10866	2810
115540983	LUX		LUX-G11-25	132	A	API/A	10868	2810
115540944	LUX		LUX-G11-26	150	A	API/A	10829	2810
115540934	LUX		LUX-G11-27	156	A	API/A	10819	2810
115540947	LUX		LUX-G11-28	162	A	API/A	10832	2810
115540951	LUX		LUX-G11-29	168	A	API/A	10836	2810
115540937	LUX		LUX-G11-3	9	A	API/A	10822	2810
115540984	LUX		LUX-G11-30	174	A	API/A	10869	2810
115540955	LUX		LUX-G11-31	-178	A	API/A	10840	2810
115540954	LUX		LUX-G11-32	-172	A	API/A	10839	2810
115540953	LUX		LUX-G11-33	-166	A	API/A	10838	2810
115540952	LUX		LUX-G11-34	-160	A	API/A	10837	2810
115540992	LUX		LUX-G11-35	-154	A	API/A	10877	2810
115540950	LUX		LUX-G11-36	-147.6	A	API/A	10835	2810
115540949	LUX		LUX-G11-37	-135	A	API/A	10834	2810
115540946	LUX		LUX-G11-38	-131	A	API/A	10831	2810
115540945	LUX		LUX-G11-39	-123	A	API/A	10830	2810
115540938	LUX		LUX-G11-4	13	A	API/A	10823	2810
115540943	LUX		LUX-G11-40	-117	A	API/A	10828	2810
115540990	LUX		LUX-G11-41	-109	A	API/A	10875	2810
115540982	LUX		LUX-G11-42	-105	A	API/A	10867	2810
115540980	LUX		LUX-G11-43	-103	A	API/A	10865	2810
115540979	LUX		LUX-G11-44	-95	A	API/A	10864	2810
115540976	LUX		LUX-G11-45	-87	A	API/A	10861	2810
115540975	LUX		LUX-G11-46	-83	A	API/A	10860	2810
115540973	LUX		LUX-G11-47	-79	A	API/A	10858	2810
115540970	LUX		LUX-G11-48	-72	A	API/A	10855	2810
115540969	LUX		LUX-G11-49	-67	A	API/A	10854	2810
115540939	LUX		LUX-G11-5	19.2	A	API/A	10824	2810
115540965	LUX		LUX-G11-50	-62	A	API/A	10850	2810
115540991	LUX		LUX-G11-51	-55	A	API/A	10876	2810
115540963	LUX		LUX-G11-52	-49	A	API/A	10848	2810

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115540962	LUX		LUX-G11-53	-37.5	A	API/A	10847	2810
115540960	LUX		LUX-G11-54	-30	A	API/A	10845	2810
115540959	LUX		LUX-G11-55	-25	A	API/A	10844	2810
115540972	LUX		LUX-G11-56	-19	A	API/A	10857	2810
115540986	LUX		LUX-G11-57	-13	A	API/A	10871	2810
115540987	LUX		LUX-G11-58	-7	A	API/A	10872	2810
115540985	LUX		LUX-G11-59	-3	A	API/A	10870	2810
115540940	LUX		LUX-G11-6	21.5	A	API/A	10825	2810
115540942	LUX		LUX-G11-7	23.5	A	API/A	10827	2810
115540988	LUX		LUX-G11-8	28.2	A	API/A	10873	2810
115540989	LUX		LUX-G11-9	31.5	A	API/A	10874	2810
90500682	LUX		GDL-6	19.2	N	PART	1	2763
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
114540511	LUX		LUX-G10-1	1	A	API/A	9438	2780
114540520	LUX		LUX-G10-10	35	A	API/A	9447	2780
114540521	LUX		LUX-G10-11	39	A	API/A	9448	2780
114540522	LUX		LUX-G10-12	43.5	A	API/A	9449	2780
114540523	LUX		LUX-G10-13	48	A	API/A	9450	2780
114540524	LUX		LUX-G10-14	52	A	API/A	9451	2780
114540525	LUX		LUX-G10-15	55	A	API/A	9452	2780
114540526	LUX		LUX-G10-16	63	A	API/A	9453	2780
114540527	LUX		LUX-G10-17	69	A	API/A	9454	2780
114540528	LUX		LUX-G10-18	74	A	API/A	9455	2780
114540529	LUX		LUX-G10-19	83	A	API/A	9456	2780
114540512	LUX		LUX-G10-2	5	A	API/A	9439	2780
114540530	LUX		LUX-G10-20	93.5	A	API/A	9457	2780
114540531	LUX		LUX-G10-21	108.2	A	API/A	9458	2780
114540532	LUX		LUX-G10-22	114	A	API/A	9459	2780
114540533	LUX		LUX-G10-23	120	A	API/A	9460	2780
114540534	LUX		LUX-G10-24	126	A	API/A	9461	2780
114540535	LUX		LUX-G10-25	132	A	API/A	9462	2780
114540536	LUX		LUX-G10-26	150	A	API/A	9463	2780
114540537	LUX		LUX-G10-27	156	A	API/A	9464	2780
114540538	LUX		LUX-G10-28	162	A	API/A	9465	2780
114540539	LUX		LUX-G10-29	168	A	API/A	9466	2780
114540513	LUX		LUX-G10-3	9	A	API/A	9440	2780
114540540	LUX		LUX-G10-30	174	A	API/A	9467	2780
114540541	LUX		LUX-G10-31	-178	A	API/A	9468	2780
114540542	LUX		LUX-G10-32	-172	A	API/A	9469	2780
114540543	LUX		LUX-G10-33	-166	A	API/A	9470	2780
114540544	LUX		LUX-G10-34	-160	A	API/A	9471	2780
114540545	LUX		LUX-G10-35	-154	A	API/A	9472	2780
114540546	LUX		LUX-G10-36	-147.6	A	API/A	9473	2780

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114540547	LUX		LUX-G10-37	-135	A	API/A	9474	2780
114540548	LUX		LUX-G10-38	-131	A	API/A	9475	2780
114540549	LUX		LUX-G10-39	-123	A	API/A	9476	2780
114540514	LUX		LUX-G10-4	13	A	API/A	9441	2780
114540550	LUX		LUX-G10-40	-117	A	API/A	9477	2780
114540551	LUX		LUX-G10-41	-109	A	API/A	9478	2780
114540552	LUX		LUX-G10-42	-105	A	API/A	9479	2780
114540553	LUX		LUX-G10-43	-103	A	API/A	9480	2780
114540554	LUX		LUX-G10-44	-95	A	API/A	9481	2780
114540555	LUX		LUX-G10-45	-87	A	API/A	9482	2780
114540556	LUX		LUX-G10-46	-83	A	API/A	9483	2780
114540557	LUX		LUX-G10-47	-79	A	API/A	9484	2780
114540558	LUX		LUX-G10-48	-72	A	API/A	9485	2780
114540559	LUX		LUX-G10-49	-67	A	API/A	9486	2780
114540515	LUX		LUX-G10-5	19.2	A	API/A	9442	2780
114540560	LUX		LUX-G10-50	-62	A	API/A	9487	2780
114540561	LUX		LUX-G10-51	-55	A	API/A	9488	2780
114540562	LUX		LUX-G10-52	-49	A	API/A	9489	2780
114540563	LUX		LUX-G10-53	-37.5	A	API/A	9490	2780
114540564	LUX		LUX-G10-54	-30	A	API/A	9491	2780
114540565	LUX		LUX-G10-55	-25	A	API/A	9492	2780
114540566	LUX		LUX-G10-56	-19	A	API/A	9493	2780
114540567	LUX		LUX-G10-57	-13	A	API/A	9494	2780
114540568	LUX		LUX-G10-58	-7	A	API/A	9495	2780
114540569	LUX		LUX-G10-59	-3	A	API/A	9496	2780
114540516	LUX		LUX-G10-6	21.5	A	API/A	9443	2780
114540517	LUX		LUX-G10-7	23.5	A	API/A	9444	2780
114540518	LUX		LUX-G10-8	28.2	A	API/A	9445	2780
114540519	LUX		LUX-G10-9	31.5	A	API/A	9446	2780
110500151	LUX		LUX-G3-19.2E	19.2	N	PART	2	2738
113500086	LUX		LUX-G3-2	5	N	PART	2	2758
110500152	LUX		LUX-G3-24.2E	23.5	N	PART	1	2809
111500238	LUX		LUX-G3-28.2E	28.2	N	PART	2	2733
111500235	LUX		LUX-G3-4	31	N	PART	2	2738
114500038	LUX		LUX-G5-25	108.2	N	PART	2	2780
108520161	LUX		LUX-G6-12	43.5	C	CR/C	2245	2806
109520247	LUX		LUX-G6-2-E	5	C	CR/C	2483	2683
114500150	LUX		LUX-G6-5	19.2	N	PART	2	2806
108520163	LUX		LUX-G6-51	-40.5	C	CR/C	2259	2806
108520156	LUX		LUX-G6-6	21.5	C	CR/C	2240	2806
108520157	LUX		LUX-G6-7	23.5	C	CR/C	2241	2806
108520158	LUX		LUX-G6-8	28.2	C	CR/C	2242	2806
114500153	LUX		LUX-G6-9	31.5	N	PART	2	2805
110520106	LUX		LUX-G7-1	2	C	CR/C	2627	2694
110520108	LUX		LUX-G7-10	31	C	CR/C	2722	2703

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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
111520122	LUX		LUX-G7-19	95	C	CR/C	2892	2722
110520094	LUX		LUX-G7-20	108.2	C	CR/C	2613	2692
110520095	LUX		LUX-G7-24	130	C	CR/C	2614	2692
110520096	LUX		LUX-G7-25	148	C	CR/C	2615	2692
110520107	LUX		LUX-G7-3	5	C	CR/C	2628	2694
111520123	LUX		LUX-G7-30	-177	C	CR/C	2893	2722
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
110520037	LUX		LUX-G7-40	-109.2	C	CR/C	2601	2694
110520038	LUX		LUX-G7-40B	-101	C	CR/C	2624	2694
110520039	LUX		LUX-G7-41	-99	C	CR/C	2602	2693
110520040	LUX		LUX-G7-42	-93	C	CR/C	2603	2693
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
110520085	LUX		LUX-G7-5	19.2	C	CR/C	2594	2693
110520258	LUX		LUX-G7-50	-47	C	CR/C	2717	2702
110520113	LUX		LUX-G7-53	-24	C	CR/C	2633	2694
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
111520428	LUX		LUX-G7-9-E2	31.5	C	CR/C	3062	2733
111520414	LUX		LUX-G8-14	52.2	C	CR/C	3041	2741
112520276	LUX		LUX-G8-17	74	C	CR/C	3225	2750
112523014	LUX		LUX-G8-17_1	74	C	CR/F	14	2739
112520277	LUX		LUX-G8-18	83	C	CR/C	3226	2750
112523015	LUX		LUX-G8-18_1	83	C	CR/F	15	2739
112520278	LUX		LUX-G8-19	93.5	C	CR/C	3227	2750
112523016	LUX		LUX-G8-19_1	93.5	C	CR/F	16	2739
111520421	LUX		LUX-G8-2	5	C	CR/C	3035	2741

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111520529	LUX		LUX-G8-36	-135	C	CR/C	3075	2740
111520378	LUX		LUX-G8-39	-116.8	C	CR/C	3020	2728
111520530	LUX		LUX-G8-41	-105	C	CR/C	3076	2740
112520424	LUX		LUX-G8-41A	-103	C	CR/C	3312	2758
111520531	LUX		LUX-G8-43	-87	C	CR/C	3077	2740
111520394	LUX		LUX-G8-44	-83	C	CR/C	3033	2741
111520532	LUX		LUX-G8-47	-67	C	CR/C	3078	2742
111520422	LUX		LUX-G8-5	19.2	C	CR/C	3036	2741
112520143	LUX		LUX-G8-51	-37.5	C	CR/C	3172	2744
111520423	LUX		LUX-G8-6	23.5	C	CR/C	3037	2741
111520424	LUX		LUX-G8-7	28.2	C	CR/C	3038	2741
111520425	LUX		LUX-G8-8	31	C	CR/C	3039	2741
111520426	LUX		LUX-G8-9	31.5	C	CR/C	3040	2741
112541180	LUX		LUX-G9-1	1	A	API/A	8052	2738
113520226	LUX		LUX-G9-10	31.5	C	CR/C	3459	2777
113523081	LUX		LUX-G9-10_1	31.5	C	CR/F	79	2763
112541190	LUX		LUX-G9-11	39	A	API/A	8062	2738
112541191	LUX		LUX-G9-12	43.5	A	API/A	8063	2738
112541192	LUX		LUX-G9-13	48	A	API/A	8064	2738
112541193	LUX		LUX-G9-14	52	A	API/A	8065	2738
112541194	LUX		LUX-G9-15	55	A	API/A	8066	2738
112541195	LUX		LUX-G9-16	63	A	API/A	8067	2738
112541196	LUX		LUX-G9-17	69	A	API/A	8068	2738
112541197	LUX		LUX-G9-18	74	A	API/A	8069	2738
112541198	LUX		LUX-G9-19	83	A	API/A	8070	2738
112541181	LUX		LUX-G9-2	5	A	API/A	8053	2738
112541199	LUX		LUX-G9-20	93.5	A	API/A	8071	2738
114520100	LUX		LUX-G9-21	108.4	C	CR/C	3612	2794
114523024	LUX		LUX-G9-21_1	108.4	C	CR/F	142	2780
113520260	LUX		LUX-G9-22	113.2	C	CR/C	3468	2780
113523082	LUX		LUX-G9-22_1	113.2	C	CR/F	80	2764
112541202	LUX		LUX-G9-23	120	A	API/A	8074	2738
113520307	LUX		LUX-G9-24	127.5	C	CR/C	3510	2782
113523095	LUX		LUX-G9-24_1	127.5	C	CR/F	111	2768
113520219	LUX		LUX-G9-25	133.5	C	CR/C	3452	2777
113523074	LUX		LUX-G9-25_1	133.5	C	CR/F	72	2762
113520261	LUX		LUX-G9-26	150.2	C	CR/C	3469	2780
113523083	LUX		LUX-G9-26_1	150.2	C	CR/F	81	2764
113520220	LUX		LUX-G9-27	153.5	C	CR/C	3453	2777
113523075	LUX		LUX-G9-27_1	153.5	C	CR/F	73	2762
112541207	LUX		LUX-G9-28	162	A	API/A	8079	2738
112541208	LUX		LUX-G9-29	168	A	API/A	8080	2738
112541182	LUX		LUX-G9-3	9	A	API/A	8054	2738
113520308	LUX		LUX-G9-30	176	C	CR/C	3511	2782
113523096	LUX		LUX-G9-30_1	176	C	CR/F	112	2768

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112541210	LUX		LUX-G9-31	-178	A	API/A	8082	2738
112541211	LUX		LUX-G9-32	-172	A	API/A	8083	2738
112541212	LUX		LUX-G9-33	-166	A	API/A	8084	2738
112541213	LUX		LUX-G9-34	-160	A	API/A	8085	2738
112541214	LUX		LUX-G9-35	-154	A	API/A	8086	2738
112541215	LUX		LUX-G9-36	-147.6	A	API/A	8087	2738
113520309	LUX		LUX-G9-37	-135	C	CR/C	3512	2782
114520217	LUX		LUX-G9-38	-129	C	CR/C	3671	2804
115520108	LUX		LUX-G9-38-A	-129	C	CR/C	3817	2804
112541218	LUX		LUX-G9-39	-123	A	API/A	8090	2738
112541183	LUX		LUX-G9-4	13	A	API/A	8055	2738
112541219	LUX		LUX-G9-40	-117	A	API/A	8091	2738
112541220	LUX		LUX-G9-41	-109	A	API/A	8092	2738
113520310	LUX		LUX-G9-42	-105	C	CR/C	3513	2782
112541222	LUX		LUX-G9-43	-103	A	API/A	8094	2738
112541223	LUX		LUX-G9-44	-95	A	API/A	8095	2738
112541224	LUX		LUX-G9-45	-87	A	API/A	8096	2738
112541225	LUX		LUX-G9-46	-83	A	API/A	8097	2738
112541226	LUX		LUX-G9-47	-79	A	API/A	8098	2738
112541227	LUX		LUX-G9-48	-72	A	API/A	8099	2738
113520311	LUX		LUX-G9-49	-67	C	CR/C	3514	2782
113520221	LUX		LUX-G9-5	19.2	C	CR/C	3454	2777
113523076	LUX		LUX-G9-5_1	19.2	C	CR/F	74	2763
112541229	LUX		LUX-G9-50	-62	A	API/A	8101	2738
112541230	LUX		LUX-G9-51	-55	A	API/A	8102	2738
112541231	LUX		LUX-G9-52	-49	A	API/A	8103	2738
112541232	LUX		LUX-G9-53	-37.5	A	API/A	8104	2738
112541233	LUX		LUX-G9-54	-30	A	API/A	8105	2738
112541234	LUX		LUX-G9-55	-25	A	API/A	8106	2738
112541235	LUX		LUX-G9-56	-19	A	API/A	8107	2738
112541236	LUX		LUX-G9-57	-13	A	API/A	8108	2738
112541237	LUX		LUX-G9-58	-7	A	API/A	8109	2738
112541238	LUX		LUX-G9-59	-3	A	API/A	8110	2738
113520222	LUX		LUX-G9-6	21.5	C	CR/C	3455	2777
113523077	LUX		LUX-G9-6_1	21.5	C	CR/F	75	2763
114520009	LUX		LUX-G9-60	137	C	CR/C	3618	2796
114523022	LUX		LUX-G9-60_1	137	C	CR/F	145	2781
113520223	LUX		LUX-G9-7	23.5	C	CR/C	3456	2777
113523078	LUX		LUX-G9-7_1	23.5	C	CR/F	76	2763
113520224	LUX		LUX-G9-8	28.2	C	CR/C	3457	2777
113523079	LUX		LUX-G9-8_1	28.2	C	CR/F	77	2763
113520225	LUX		LUX-G9-9	31	C	CR/C	3458	2777
113523080	LUX		LUX-G9-9_1	31	C	CR/F	78	2763
104500543	LUX		LUX-KA-19E	19	N	PART	1	2728
110520122	MAU		REDSAT-1A	24	C	CR/C	2645	2676

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111520062	MAU		REDSAT-3A	51.5	C	CR/C	2857	2717
112540566	MAU		REDSAT-4A	-31	A	API/A	7703	2723
114540597	MAU		REDSAT-4B	-31	A	API/A	9522	2780
	MCO		MONASAT-2EB	2	A			
1155401023	MCO		MONASAT-52EA	52	A	API/A	10951	2810
114540168	MCO		MONASAT-2E	2	A	API/A	9103	2770
114540169	MCO		MONASAT-52E	52	A	API/A	9104	2770
113520190	MEX		KA 113.0W MEX	-113	C	CR/C	3433	2772
114520055	MEX		MEXSAT 109.2 KA	-109.2	C	CR/C	3568	2791
114520056	MEX		MEXSAT 109.2 KA1	-109.2	C	CR/C	3570	2791
114520057	MEX		MEXSAT 109.2 KA2	-109.2	C	CR/C	3575	2789
114520057	MEX		MEXSAT 109.2 KA2	-109.2	C	CR/E	773	2789
112520405	MEX		MEXSAT 109.2 L	-109.2	C	CR/C	3232	2750
112541260	MEX		MEXSAT 109.2A CEXT	-109.2	A	API/A	8127	2743
112541263	MEX		MEXSAT 109.2A KUEXT	-109.2	A	API/A	8128	2743
114520058	MEX		MEXSAT 113 KA	-113	C	CR/C	3576	2792
114520059	MEX		MEXSAT 113 KA1	-113	C	CR/C	3577	2792
114520060	MEX		MEXSAT 113 KA2	-113	C	CR/C	3572	2789
114520060	MEX		MEXSAT 113 KA2	-113	C	CR/E	770	2789
113500072	MEX		MEXSAT 113 KU EXT	-113	N	PART	2	2764
114540507	MEX		MEXSAT 113 L	-113	A	API/A	9435	2779
112541261	MEX		MEXSAT 113A CEXT	-113	A	API/A	8129	2743
112541264	MEX		MEXSAT 113A KUEXT	-113	A	API/A	8130	2743
114520061	MEX		MEXSAT 114.9 KA	-114.9	C	CR/C	3579	2792
114520062	MEX		MEXSAT 114.9 KA1	-114.9	C	CR/C	3578	2792
114520063	MEX		MEXSAT 114.9 KA2	-114.9	C	CR/C	3574	2789
114520063	MEX		MEXSAT 114.9 KA2	-114.9	C	CR/E	772	2789
113500015	MEX		MEXSAT 114.9 KU EXT	-114.9	N	PART	2	2745
114520064	MEX		MEXSAT 116.8 KA	-116.8	C	CR/C	3569	2791
114520065	MEX		MEXSAT 116.8 KA1	-116.8	C	CR/C	3571	2791
114520066	MEX		MEXSAT 116.8 KA2	-116.8	C	CR/C	3573	2789
114520066	MEX		MEXSAT 116.8 KA2	-116.8	C	CR/E	771	2789
113500074	MEX		MEXSAT 116.8 KU EXT	-116.8	N	PART	2	2772
114540508	MEX		MEXSAT 116.8 L	-116.8	A	API/A	9436	2779
112541262	MEX		MEXSAT 116.8A CEXT	-116.8	A	API/A	8131	2743
112541265	MEX		MEXSAT 116.8A KUEXT	-116.8	A	API/A	8132	2743
114500093	MEX		MEXSAT113 L-CEXT-X	-113	N	PART	2	2788
110500271	MEX		MEXSAT-114.9 C-KU	-114.9	N	PART	2	2752
113500014	MEX		MEXSAT114.9 L-CEXT-X	-114.9	N	PART	2	2745
114500092	MEX		MEXSAT116.8 L-CEXT-X	-116.8	N	PART	2	2790
90501085	MEX		MORELOS 2	-116.8	N	PART	2	2576
109500836	MEX		SATMEX 7	-113	N	PART	2	2721
111500124	MEX		SATMEX 8	-116.8	N	PART	2	2717
101500478	MEX		SOLIDARIDAD 2M	-113	N	PART	2	2790
99500015	MEX		SOLIDARIDAD 2MA	-113	N	PART	2	2790

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97500441	MEX		SOLIDARIDAD-2	-113	N	PART	2	2782
95500480	MLA		MEASAT-1	91.5	N	PART	1	2803
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	2712
111500193	MLA		MEASAT-1R	91.5	N	PART	2	2713
95500106	MLA		MEASAT-2	148	N	PART	2	2735
109520245	MLA		MEASAT-2A	148	C	CR/C	2479	2680
114520015	MLA		MEASAT-2B	148	C	CR/C	3541	2790
114523003	MLA		MEASAT-2B_1	148	C	CR/F	124	2775
111500096	MLA		MEASAT-2R	148	N	PART	2	2731
110520335	MLA		MEASAT-3A	97	C	CR/C	2743	2698
110520335	MLA		MEASAT-3A	97	C	CR/E	139	2698
107500633	MLA		MEASAT-46E	46	N	PART	1	2770
114500082	MLA		MEASAT-46E-R	46	N	PART	2	2788
110520340	MLA		MEASAT-4B	79.5	C	CR/C	2747	2706
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	2720
110520337	MLA		MEASAT-87E-A	87	C	CR/C	2745	2705
107500241	MLA		MEASAT-91.5E	91.5	N	PART	2	2711
104500467	MLA		MEASAT-AK 91.5	91.5	N	PART	2	2693
105500148	MLA		MEASAT-IC 91.5	91.5	N	PART	2	2693
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
111520390	MLA		MEASAT-SA1A	5	C	CR/C	3032	2731
114520123	MLA		MEASAT-SA2A	13.4	C	CR/C	3621	2795
114523023	MLA		MEASAT-SA2A_1	13.4	C	CR/F	146	2782
110520342	MLA		MEASAT-SA3B	23	C	CR/C	2749	2706
110520334	MLA		MEASAT-SA4A	46	C	CR/C	2739	2705
115520071	MLA		MEASAT-SA4B	46	C	CR/C	3788	2803
115523022	MLA		MEASAT-SA4B_1	46	C	CR/F	220	2803
113520284	MNG		SANSAR-2	113.6	C	CR/C	3502	2782
113540640	MNG		SANSAR-3	113.6	A	API/A	8747	2763
113520268	NCG		NICASAT-1	-84.4	C	CR/C	3470	2780
114540143	NCG		NICASAT-1A	-84.4	A	API/A	9089	2769
109520005	NIG		NIGCOMSAT-1R	42.5	C	CR/C	2425	2688
114540912	NIG		NIGSAT-10E	10	A	API/A	9824	2789
114540907	NIG		NIGSAT-14W	-14	A	API/A	9819	2789
114540906	NIG		NIGSAT-15W	-15	A	API/A	9818	2789
114540913	NIG		NIGSAT-16E	16	A	API/A	9825	2789
114540905	NIG		NIGSAT-20W	-20	A	API/A	9817	2789

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114540914	NIG		NIGSAT-22E	22	A	API/A	9826	2789
114540904	NIG		NIGSAT-22W	-22	A	API/A	9816	2789
114540903	NIG		NIGSAT-26W	-26	A	API/A	9815	2789
114540915	NIG		NIGSAT-28E	28	A	API/A	9827	2789
114540910	NIG		NIGSAT-2W	-2	A	API/A	9822	2789
114540916	NIG		NIGSAT-34E	34	A	API/A	9828	2789
114540917	NIG		NIGSAT-41.8E	41.8	A	API/A	9829	2789
114540918	NIG		NIGSAT-42.5E	42.5	A	API/A	9830	2789
114540911	NIG		NIGSAT-4E	4	A	API/A	9823	2789
114540909	NIG		NIGSAT-8W	-8	A	API/A	9821	2789
114540908	NIG		NIGSAT-9W	-9	A	API/A	9820	2789
115540796	NOR		BIFROST-0.8W-2015	-0.8	A	API/A	10677	2804
115540932	NOR		BIFROST-0.8W-2016	-0.8	A	API/A	10817	2810
115540933	NOR		BIFROST-4W-2016	-4	A	API/A	10818	2810
115540831	NOR		SE-6-104E	104	A	API/A	10713	2806
115540830	NOR		SE-6-143W	-143	A	API/A	10712	2806
115540829	NOR		SE-6-144E	144	A	API/A	10711	2806
115540837	NOR		SE-6-16W	-16	A	API/A	10719	2806
115540828	NOR		SE-6-179E	179	A	API/A	10710	2806
115540836	NOR		SE-6-24E	24	A	API/A	10718	2806
115540835	NOR		SE-6-55W	-55	A	API/A	10717	2806
115540834	NOR		SE-6-63E	63	A	API/A	10716	2806
115540833	NOR		SE-6-92E	92	A	API/A	10715	2806
115540832	NOR		SE-6-99W	-99	A	API/A	10714	2806
115540655	NOR		SE-KA-117.5E	117.5	A	API/A	10531	2800
111520065	NOR		BIFROST-0.8W-2010	-0.8	C	CR/C	2838	2716
111520065	NOR		BIFROST-0.8W-2010	-0.8	C	CR/E	353	2716
110520155	NOR		BIFROST-0.8W-2010-KA	-0.8	C	CR/C	2662	2700
109520237	NOR		BIFROST-2E-FSS-2009	2	C	CR/C	2477	2701
109520236	NOR		BIFROST-4W-FSS-2009	-4	C	CR/C	2478	2701
110520241	NOR		DUB DUB 1	46	C	CR/C	2714	2702
110520242	NOR		DUB DUB 2	50.2	C	CR/C	2715	2702
111520305	NOR		DUB DUB-3-28.8W	-28.8	C	CR/C	3003	2727
112520401	NOR		DUB DUB-4-7.7W	-7.7	C	CR/C	3270	2752
113520022	NOR		DUB DUB-5-18W	-18	C	CR/C	3326	2759
113520023	NOR		DUB DUB-6-15.5W	-15.5	C	CR/C	3343	2760
113520283	NOR		NORBIRD-19.6E	19.6	C	CR/C	3501	2782
113540055	NOR		NORBIRD-1A	-2	A	API/A	8269	2745
113540056	NOR		NORBIRD-1B	10	A	API/A	8270	2745
113520174	NOR		NORBIRD-32.5E	32.5	C	CR/C	3440	2774
113520175	NOR		NORBIRD-38.5E	38.5	C	CR/C	3463	2777
113520176	NOR		NORBIRD-41E	41	C	CR/C	3441	2774
114540846	NOR		SE-6-142W	-142	A	API/A	9757	2792
114540852	NOR		SE-6-143.5E	143.5	A	API/A	9763	2792
115520160	NOR		SE-6-15.5W	-15.5	C	CR/C	3855	2810

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114540853	NOR		SE-6-178E	178	A	API/A	9764	2792
115520157	NOR		SE-6-25E	25	C	CR/C	3853	2810
115520158	NOR		SE-6-54W	-54	C	CR/C	3856	2810
115520159	NOR		SE-6-64E	64	C	CR/C	3854	2810
115520161	NOR		SE-6-98W	-98	C	CR/C	3857	2810
114520049	NOR		SE-KA-107E	107	C	CR/C	3564	2791
115520129	NOR		SE-KA-145W	-145	C	CR/C	3820	2805
114520050	NOR		SE-KA-148E	148	C	CR/C	3565	2791
114520047	NOR		SE-KA-148W	-148	C	CR/C	3566	2791
115520128	NOR		SE-KA-151E	151	C	CR/C	3818	2805
111520412	NOR		SE-KA-174W	-174	C	CR/C	3057	2772
111520413	NOR		SE-KA-178W	-178	C	CR/C	3058	2772
111520408	NOR		SE-KA-180E	180	C	CR/C	3053	2772
113520269	NOR		SE-KA-18W	-18	C	CR/C	3471	2780
113520024	NOR		SE-KA-28W	-28	C	CR/C	3342	2760
113540061	NOR		SE-KA-44W	-44	A	API/A	8274	2745
113520054	NOR		SE-KA-50W	-50	C	CR/C	3362	2761
111520409	NOR		SE-KA-55W	-55	C	CR/C	3054	2772
111520397	NOR		SE-KA-56.5E	56.5	C	CR/C	3042	2772
111520410	NOR		SE-KA-56W	-56	C	CR/C	3055	2772
111520398	NOR		SE-KA-61.5E	61.5	C	CR/C	3043	2772
111520399	NOR		SE-KA-63E	63	C	CR/C	3044	2772
111520411	NOR		SE-KA-63W	-63	C	CR/C	3056	2772
111520400	NOR		SE-KA-64E	64	C	CR/C	3045	2772
111520401	NOR		SE-KA-67E	67	C	CR/C	3046	2772
111520402	NOR		SE-KA-68.5E	68.5	C	CR/C	3047	2772
111520403	NOR		SE-KA-72E	72	C	CR/C	3048	2772
114520048	NOR		SE-KA-72W	-72	C	CR/C	3563	2791
111520404	NOR		SE-KA-76.5E	76.5	C	CR/C	3049	2772
111520405	NOR		SE-KA-83.5E	83.5	C	CR/C	3050	2772
111520406	NOR		SE-KA-87.5E	87.5	C	CR/C	3051	2772
111520407	NOR		SE-KA-93E	93	C	CR/C	3052	2772
110520357	NRU		SWANSAT-3A2	150	C	CR/C	2754	2706
106500372	PAK		PAKSAT-1	38	N	PART	2	2660
110500363	PAK		PAKSAT-1R	38	N	PART	2	2802
111500072	PAK		PAKSAT-1R1	38	N	PART	2	2742
109520274	PAK		PAKSAT-2R1	41	C	CR/C	2502	2684
113520316	PAK		PAKSAT-MM1-38.2E	38.2	C	CR/C	3530	2787
113523094	PAK		PAKSAT-MM1-38.2E_1	38.2	C	CR/F	120	2772
115540248	PNG		MENASAT-2G	12	A	API/A	10117	2798
115540249	PNG		MENASAT-3G	2.5	A	API/A	10118	2798
	PNG		NEWDAWN-50	-121	A			
	PNG		NEWDAWN-51	-99	A			
	PNG		NEWDAWN-52	-95	A			
	PNG		NEWDAWN-53	-58	A			

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	PNG		NEWDAWN-54	-55.5	A			
	PNG		NEWDAWN-55	-53	A			
	PNG		NEWDAWN-56	-50	A			
	PNG		NEWDAWN-57	-45	A			
	PNG		NEWDAWN-58	-43	A			
	PNG		NEWDAWN-59	33	A			
	PNG		NEWDAWN-60	60	A			
	PNG		NEWDAWN-61	62	A			
	PNG		NEWDAWN-62	64	A			
	PNG		NEWDAWN-63	66	A			
	PNG		NEWDAWN-64	68.5	A			
	PNG		NEWDAWN-65	72	A			
	PNG		NEWDAWN-66	85	A			
	PNG		NEWDAWN-67	157	A			
	PNG		NEWDAWN-68	166	A			
115540385	PNG		NYBSS	105	A	API/A	10258	2799
115540702	PNG		NYBSS-2	135	A	API/A	10585	2801
115540823	PNG		RAGGIANA-35	118	A	API/A	10705	2805
110520119	PNG		AFRISAT-3W	-3	C	CR/C	2679	2725
111520063	PNG		BLUE1	-95	C	CR/C	2945	2720
114540074	PNG		KUMUL-1	161	A	API/A	9023	2765
112520403	PNG		MENASAT	8	C	CR/C	3282	2753
112520403	PNG		MENASAT	8	C	CR/E	474	2753
109520052	PNG		NEW DAWN 20	50.75	C	CR/C	2384	2665
110520133	PNG		NEW DAWN 21	60	C	CR/C	2653	2788
110520133	PNG		NEW DAWN 21	60	C	CR/E	735	2788
110520125	PNG		NEW DAWN 22	62	C	CR/C	2641	2676
110520125	PNG		NEW DAWN 22	62	C	CR/E	183	2676
114500129	PNG		NEW DAWN 23	64	N	PART	2	2801
110520127	PNG		NEW DAWN 24	66	C	CR/C	2643	2676
110520127	PNG		NEW DAWN 24	66	C	CR/E	157	2676
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	2722
111520154	PNG		NEW DAWN 28	72	C	CR/C	2917	2718
111520155	PNG		NEW DAWN 29	-45	C	CR/C	2918	2719
111520156	PNG		NEW DAWN 30	-53	C	CR/C	2919	2719
111520157	PNG		NEW DAWN 31	-58	C	CR/C	2920	2719
111520158	PNG		NEW DAWN 32	-43	C	CR/C	2921	2719
111520159	PNG		NEW DAWN 33	33	C	CR/C	2922	2718
111520160	PNG		NEW DAWN 34	85	C	CR/C	2923	2718
111520215	PNG		NEW DAWN 35	-50	C	CR/C	2946	2721
111520216	PNG		NEW DAWN 36	-55.5	C	CR/C	2947	2721
111520295	PNG		NEW DAWN 37	-99	C	CR/C	2984	2718
111520295	PNG		NEW DAWN 37	-99	C	CR/E	356	2718

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113540802	PNG		NEW DAWN 39	166	A	API/A	8764	2764
114520018	PNG		NEW DAWN 40	157	C	CR/C	3544	2790
114523004	PNG		NEW DAWN 40_1	157	C	CR/F	125	2776
113540564	PNG		NEW DAWN 41	157	A	API/A	8692	2759
114540073	PNG		NEW DAWN 42	62	A	API/A	9022	2765
114520118	PNG		NEW DAWN 43	169	C	CR/C	3614	2794
115520077	PNG		NEW DAWN 44	60	C	CR/C	3794	2803
115523023	PNG		NEW DAWN 44_1	60	C	CR/F	225	2803
115520054	PNG		NEW DAWN 45	62	C	CR/C	3775	2801
115523012	PNG		NEW DAWN 45_1	62	C	CR/F	216	2801
115520055	PNG		NEW DAWN 46	64	C	CR/C	3776	2801
115523013	PNG		NEW DAWN 46_1	64	C	CR/F	214	2801
115520078	PNG		NEW DAWN 47	157	C	CR/C	3795	2803
115523024	PNG		NEW DAWN 47_1	157	C	CR/F	226	2803
115520079	PNG		NEW DAWN 48	169	C	CR/C	3796	2803
115523027	PNG		NEW DAWN 48_1	169	C	CR/F	227	2803
115520066	PNG		NEW DAWN 49	33	C	CR/C	3783	2802
115523019	PNG		NEW DAWN 49_1	33	C	CR/F	218	2802
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	2712
110520261	PNG		PACIFISAT C/KU-4	146.1	C	CR/C	2735	2712
110520262	PNG		PACIFISAT C/KU-5	148.1	C	CR/C	2736	2712
112520179	PNG		PACIFISAT KA-1 156E	156	C	CR/C	3191	2745
112520180	PNG		PACIFISAT KA-2 159E	159	C	CR/C	3192	2764
112520274	PNG		PACIFISAT KA-67E	67	C	CR/C	3223	2750
112520275	PNG		PACIFISAT KA-70E	70	C	CR/C	3224	2750
112520073	PNG		PACIFISAT KA-75E	75	C	CR/C	3144	2741
109520145	PNG		PACIFISAT-1	75	C	CR/C	2440	2678
115520019	PNG		PACIFISAT-116.1E	116.1	C	CR/C	3746	2800
113520306	PNG		PACIFISAT-16W	-16	C	CR/C	3509	2782
114520130	PNG		PACIFISAT-174.1E	174.1	C	CR/C	3625	2796
114540588	PNG		PACIFISAT-179.1E	179.1	A	API/A	9513	2780
109520239	PNG		PACIFISAT-2	70	C	CR/C	2475	2663
109520240	PNG		PACIFISAT-3	67	C	CR/C	2476	2807
115520072	PNG		PACIFISAT-39W	-39	C	CR/C	3791	2803
115523020	PNG		PACIFISAT-39W_1	-39	C	CR/F	223	2803
110520058	PNG		PACIFISAT-4	59	C	CR/C	2647	2727
110520059	PNG		PACIFISAT-5	61	C	CR/C	2648	2727
115520142	PNG		PACIFISAT-53W	-53	C	CR/C	3847	2810
110520060	PNG		PACIFISAT-6	63	C	CR/C	2649	2785
114540281	PNG		PACIFISAT-6W	-6	A	API/A	9252	2775
110520057	PNG		PACIFISAT-7	65	C	CR/C	2650	2745
111520061	PNG		PACIFISAT-8	85.3	C	CR/C	2837	2716
111520061	PNG		PACIFISAT-8	85.3	C	CR/E	74	2716

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114540282	PNG		PACIFISAT-82E	82	A	API/A	9253	2775
115520144	PNG		PACIFISAT-88W	-88	C	CR/C	3848	2810
115500012	PNG		PACIFISAT-9	116.1	N	PART	2	2807
115520143	PNG		PACIFISAT-92W	-92	C	CR/C	3849	2810
112540552	PNG		PACIFISAT-S-116.1E	116.1	A	API/A	7689	2723
112540553	PNG		PACIFISAT-S-146.1E	146.1	A	API/A	7690	2723
112540554	PNG		PACIFISAT-S-148.1E	148.1	A	API/A	7691	2723
112540555	PNG		PACIFISAT-S-150.5E	150.5	A	API/A	7692	2723
112540471	PNG		PACIFISAT-S-156E	156	A	API/A	7611	2722
112540472	PNG		PACIFISAT-S-159E	159	A	API/A	7612	2722
114520010	PNG		PACIFISAT-S-63E	63	C	CR/C	3533	2773
114520010	PNG		PACIFISAT-S-63E	63	C	CR/E	725	2773
112540549	PNG		PACIFISAT-S-70E	70	A	API/A	7686	2723
113520170	PNG		PACIFISAT-S-75E	75	C	CR/C	3420	2802
112540551	PNG		PACIFISAT-S-85.3E	85.3	A	API/A	7688	2723
107500102	PNG		PACSTAR-L4	-121	N	PART	2	2680
110520275	PNG		RAGGIANA-1	-59	C	CR/C	2723	2703
111520291	PNG		RAGGIANA-10	88	C	CR/C	3014	2728
111520292	PNG		RAGGIANA-11	134	C	CR/C	2992	2725
111520293	PNG		RAGGIANA-12	97.5	C	CR/C	2993	2725
111520294	PNG		RAGGIANA-13	108	C	CR/C	2994	2725
113520165	PNG		RAGGIANA-18	-117	C	CR/C	3415	2803
114540730	PNG		RAGGIANA-19	-113	A	API/A	9101	2771
110520276	PNG		RAGGIANA-2	-65	C	CR/C	2724	2703
114540731	PNG		RAGGIANA-20	-115	A	API/A	9102	2771
114540373	PNG		RAGGIANA-21	119.5	A	API/A	9312	2777
114540826	PNG		RAGGIANA-23	108	A	API/A	9737	2787
115520094	PNG		RAGGIANA-25	55	C	CR/C	3815	2804
115523032	PNG		RAGGIANA-25_1	55	C	CR/F	238	2804
114540828	PNG		RAGGIANA-26	46	A	API/A	9739	2787
115520095	PNG		RAGGIANA-28	11	C	CR/C	3816	2804
115523033	PNG		RAGGIANA-28_1	11	C	CR/F	239	2804
114540830	PNG		RAGGIANA-29	3	A	API/A	9741	2787
110520277	PNG		RAGGIANA-3	-75	C	CR/C	2725	2744
115520096	PNG		RAGGIANA-31	-59	C	CR/C	3812	2804
115523034	PNG		RAGGIANA-31_1	-59	C	CR/F	235	2804
114540720	PNG		RAGGIANA-32	-67.5	A	API/A	9664	2787
115520097	PNG		RAGGIANA-33	-80	C	CR/C	3813	2804
115523035	PNG		RAGGIANA-33_1	-80	C	CR/F	236	2804
115520098	PNG		RAGGIANA-34	-87	C	CR/C	3814	2804
115523036	PNG		RAGGIANA-34_1	-87	C	CR/F	237	2804
110520278	PNG		RAGGIANA-5	-97	C	CR/C	2726	2744
110520279	PNG		RAGGIANA-6	-113	C	CR/C	2727	2744
111520289	PNG		RAGGIANA-7	37	C	CR/C	2991	2725
111520290	PNG		RAGGIANA-8	55	C	CR/C	3013	2728

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115540851	QAT		QATARSAT-G4-0.9E	0.9	A	API/A	10735	2809
115540852	QAT		QATARSAT-G4-14.5E	14.5	A	API/A	10736	2809
115540853	QAT		QATARSAT-G4-17E	17	A	API/A	10737	2809
115540854	QAT		QATARSAT-G4-20E	20	A	API/A	10738	2809
115540855	QAT		QATARSAT-G4-21.5E	21.5	A	API/A	10739	2809
115540856	QAT		QATARSAT-G4-25.5E	25.5	A	API/A	10740	2809
115540857	QAT		QATARSAT-G4-26E	26	A	API/A	10741	2809
115540858	QAT		QATARSAT-G4-31E	31	A	API/A	10742	2809
115540859	QAT		QATARSAT-G4-73.5E	73.5	A	API/A	10743	2809
115540860	QAT		QATARSAT-G4-77.5E	77.5	A	API/A	10744	2809
115540861	QAT		QATARSAT-G4-87E	87	A	API/A	10745	2809
115540862	QAT		QATARSAT-G4-99E	99	A	API/A	10746	2809
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	2681
110520207	QAT		QATARSAT-6	25.5	C	CR/E	208	2681
111520333	QAT		QATARSAT-9	21.5	C	CR/C	3034	2753
114520112	QAT		QATARSAT-AMATEUR	26	C	CR/C	3620	2782
113520062	QAT		QATARSAT-G2-3	14.5	C	CR/C	3366	2773
113523022	QAT		QATARSAT-G2-3_1	14.5	C	CR/F	47	2750
113520065	QAT		QATARSAT-G2-30	135.5	C	CR/C	3367	2763
113523025	QAT		QATARSAT-G2-30_1	135.5	C	CR/F	48	2750
113520063	QAT		QATARSAT-G2-6	25.5	C	CR/C	3396	2765
113520063	QAT		QATARSAT-G2-6	25.5	C	CR/E	581	2765
113523023	QAT		QATARSAT-G2-6_1	25.5	C	CR/F	54	2754
113520064	QAT		QATARSAT-G2-7	26	C	CR/C	3397	2765
113520064	QAT		QATARSAT-G2-7	26	C	CR/E	582	2765
113523024	QAT		QATARSAT-G2-7_1	26	C	CR/F	55	2754
115540007	QAT		QATARSAT-G3-1	0	A	API/A	9851	2790
115540016	QAT		QATARSAT-G3-10	36	A	API/A	9860	2790
115540017	QAT		QATARSAT-G3-11	42	A	API/A	9861	2790
115540018	QAT		QATARSAT-G3-12	46	A	API/A	9862	2790
115540019	QAT		QATARSAT-G3-13	48	A	API/A	9863	2790
115540020	QAT		QATARSAT-G3-14	54	A	API/A	9864	2790
115540021	QAT		QATARSAT-G3-15	54.5	A	API/A	9865	2790
115540022	QAT		QATARSAT-G3-16	60	A	API/A	9866	2790
115540023	QAT		QATARSAT-G3-17	61	A	API/A	9867	2790
115540024	QAT		QATARSAT-G3-18	66	A	API/A	9868	2790
115520137	QAT		QATARSAT-G3-19	73.5	C	CR/C	3830	2807
115523040	QAT		QATARSAT-G3-19_1	73.5	C	CR/F	243	2807
115540008	QAT		QATARSAT-G3-2	6	A	API/A	9852	2790
115520138	QAT		QATARSAT-G3-20	77.5	C	CR/C	3831	2807
115523041	QAT		QATARSAT-G3-20_1	77.5	C	CR/F	244	2807

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115540027	QAT		QATARSAT-G3-21	84	A	API/A	9871	2790
115540028	QAT		QATARSAT-G3-22	90	A	API/A	9872	2790
115540029	QAT		QATARSAT-G3-23	91.5	A	API/A	9873	2790
115520139	QAT		QATARSAT-G3-24	99	C	CR/C	3832	2807
115523042	QAT		QATARSAT-G3-24_1	99	C	CR/F	245	2807
115540031	QAT		QATARSAT-G3-25	100.5	A	API/A	9875	2790
115540032	QAT		QATARSAT-G3-26	102	A	API/A	9876	2790
115540033	QAT		QATARSAT-G3-27	105.5	A	API/A	9877	2790
115540034	QAT		QATARSAT-G3-28	108	A	API/A	9878	2790
115540035	QAT		QATARSAT-G3-29	113	A	API/A	9879	2790
115540009	QAT		QATARSAT-G3-3	14.5	A	API/A	9853	2790
115540036	QAT		QATARSAT-G3-30	135.5	A	API/A	9880	2790
115540037	QAT		QATARSAT-G3-31	114	A	API/A	9881	2790
115540038	QAT		QATARSAT-G3-32	119.5	A	API/A	9882	2790
115540039	QAT		QATARSAT-G3-33	120	A	API/A	9883	2790
115540040	QAT		QATARSAT-G3-34	122	A	API/A	9884	2790
115540041	QAT		QATARSAT-G3-35	126	A	API/A	9885	2790
115540042	QAT		QATARSAT-G3-36	132	A	API/A	9886	2790
115540043	QAT		QATARSAT-G3-37	138	A	API/A	9887	2790
115540044	QAT		QATARSAT-G3-38	144	A	API/A	9888	2790
115540045	QAT		QATARSAT-G3-39	148	A	API/A	9889	2790
115540010	QAT		QATARSAT-G3-4	12	A	API/A	9854	2790
115540046	QAT		QATARSAT-G3-40	150	A	API/A	9890	2790
115540047	QAT		QATARSAT-G3-41	150.5	A	API/A	9891	2790
115540048	QAT		QATARSAT-G3-42	156	A	API/A	9892	2790
115540049	QAT		QATARSAT-G3-43	162	A	API/A	9893	2790
115540050	QAT		QATARSAT-G3-44	168	A	API/A	9894	2790
115540051	QAT		QATARSAT-G3-45	174	A	API/A	9895	2790
115540052	QAT		QATARSAT-G3-46	180	A	API/A	9896	2790
115540053	QAT		QATARSAT-G3-47	21.5	A	API/A	9897	2790
115540054	QAT		QATARSAT-G3-48	41	A	API/A	9898	2790
115540055	QAT		QATARSAT-G3-49	-3	A	API/A	9899	2790
115540011	QAT		QATARSAT-G3-5	18	A	API/A	9855	2790
115540056	QAT		QATARSAT-G3-50	-6	A	API/A	9900	2790
115540057	QAT		QATARSAT-G3-51	-9.5	A	API/A	9901	2790
115540058	QAT		QATARSAT-G3-52	-12	A	API/A	9902	2790
115540059	QAT		QATARSAT-G3-53	-18	A	API/A	9903	2790
115540060	QAT		QATARSAT-G3-54	-24	A	API/A	9904	2790
115540061	QAT		QATARSAT-G3-55	-30	A	API/A	9905	2790
115540062	QAT		QATARSAT-G3-56	-36	A	API/A	9906	2790
115540063	QAT		QATARSAT-G3-57	-42	A	API/A	9907	2790
115540064	QAT		QATARSAT-G3-58	-48	A	API/A	9908	2790
115540065	QAT		QATARSAT-G3-59	-54	A	API/A	9909	2790
115540012	QAT		QATARSAT-G3-6	25.5	A	API/A	9856	2790
115540066	QAT		QATARSAT-G3-60	-60	A	API/A	9910	2790

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115540067	QAT		QATARSAT-G3-61	-66	A	API/A	9911	2790
115540068	QAT		QATARSAT-G3-62	-72	A	API/A	9912	2790
115540069	QAT		QATARSAT-G3-63	-78	A	API/A	9913	2790
115540070	QAT		QATARSAT-G3-64	-84	A	API/A	9914	2790
115540071	QAT		QATARSAT-G3-65	-90	A	API/A	9915	2790
115540072	QAT		QATARSAT-G3-66	-96	A	API/A	9916	2790
115540073	QAT		QATARSAT-G3-67	-102	A	API/A	9917	2790
115540074	QAT		QATARSAT-G3-68	-108	A	API/A	9918	2790
115540075	QAT		QATARSAT-G3-69	-114	A	API/A	9919	2790
115540013	QAT		QATARSAT-G3-7	26	A	API/A	9857	2790
115540076	QAT		QATARSAT-G3-70	-120	A	API/A	9920	2790
115540077	QAT		QATARSAT-G3-71	-126	A	API/A	9921	2790
115540078	QAT		QATARSAT-G3-72	-132	A	API/A	9922	2790
115540079	QAT		QATARSAT-G3-73	-138	A	API/A	9923	2790
115540080	QAT		QATARSAT-G3-74	-144	A	API/A	9924	2790
115540081	QAT		QATARSAT-G3-75	-150	A	API/A	9925	2790
115540082	QAT		QATARSAT-G3-76	-156	A	API/A	9926	2790
115540083	QAT		QATARSAT-G3-77	-162	A	API/A	9927	2790
115540084	QAT		QATARSAT-G3-78	-168	A	API/A	9928	2790
115540085	QAT		QATARSAT-G3-79	-174	A	API/A	9929	2790
115540014	QAT		QATARSAT-G3-8	24	A	API/A	9858	2790
115540086	QAT		QATARSAT-G3-80	-179	A	API/A	9930	2790
115540015	QAT		QATARSAT-G3-9	30	A	API/A	9859	2790
115540141	RUS		ENSAT-12.8E	12.8	A	API/A	10010	2798
115540142	RUS		ENSAT-13.2E	13.2	A	API/A	10011	2798
115540134	RUS		ENSAT-KA-109E	109	A	API/A	10004	2796
115540136	RUS		ENSAT-KA-174W	-174	A	API/A	10006	2796
115540135	RUS		ENSAT-KA-176E	176	A	API/A	10005	2796
115540844	RUS		ESDRN-M	-160	A	API/A	10728	2809
	RUS		PRSS-103E	103	A			
	RUS		PRSS-11W	-11	A			
	RUS		PRSS-14.5E	14.5	A			
	RUS		PRSS-140E	140	A			
	RUS		PRSS-145E	145	A			
	RUS		PRSS-14W	-14	A			
	RUS		PRSS-163.5E	163.5	A			
	RUS		PRSS-177W	-177	A			
	RUS		PRSS-40E	40	A			
	RUS		PRSS-49E	49	A			
	RUS		PRSS-53E	53	A			
	RUS		PRSS-55E	55	A			
	RUS		PRSS-80E	80	A			
	RUS		PRSS-81.75E	81.75	A			
	RUS		PRSS-90E	90	A			
	RUS		PRSS-96.5E	96.5	A			

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115540760	RUS		T-SAT-159.5E	159.5	A	API/A	10643	2802
115540761	RUS		T-SAT-76.5E	76.5	A	API/A	10642	2802
115540246	RUS		YAMAL-E3M1	81.75	A	API/A	10115	2798
101500190	RUS	IK	INTERBELAR-2	75	N	PART	2	2731
113540367	RUS	IK	INTERSPUTNIK-102E	102	A	API/A	8510	2754
113540368	RUS	IK	INTERSPUTNIK-105E	105	A	API/A	8511	2754
113540369	RUS	IK	INTERSPUTNIK-108E	108	A	API/A	8512	2754
113540370	RUS	IK	INTERSPUTNIK-111E	111	A	API/A	8513	2754
112520125	RUS	IK	INTERSPUTNIK-113W	-113	C	CR/C	3161	2750
113540371	RUS	IK	INTERSPUTNIK-114E	114	A	API/A	8514	2754
113540372	RUS	IK	INTERSPUTNIK-117E	117	A	API/A	8515	2754
113540373	RUS	IK	INTERSPUTNIK-120E	120	A	API/A	8516	2754
113540374	RUS	IK	INTERSPUTNIK-123E	123	A	API/A	8517	2754
113540375	RUS	IK	INTERSPUTNIK-126E	126	A	API/A	8518	2754
113540376	RUS	IK	INTERSPUTNIK-129E	129	A	API/A	8519	2754
113540377	RUS	IK	INTERSPUTNIK-132E	132	A	API/A	8520	2754
113540378	RUS	IK	INTERSPUTNIK-135E	135	A	API/A	8521	2754
113540379	RUS	IK	INTERSPUTNIK-138E	138	A	API/A	8522	2754
113540380	RUS	IK	INTERSPUTNIK-141E	141	A	API/A	8523	2754
113540381	RUS	IK	INTERSPUTNIK-144E	144	A	API/A	8524	2754
113540382	RUS	IK	INTERSPUTNIK-147E	147	A	API/A	8525	2754
113540383	RUS	IK	INTERSPUTNIK-150E	150	A	API/A	8526	2754
113540384	RUS	IK	INTERSPUTNIK-153E	153	A	API/A	8527	2754
113540385	RUS	IK	INTERSPUTNIK-156E	156	A	API/A	8528	2754
113540386	RUS	IK	INTERSPUTNIK-159E	159	A	API/A	8529	2754
113540387	RUS	IK	INTERSPUTNIK-162E	162	A	API/A	8530	2754
114520074	RUS	IK	INTERSPUTNIK-164E	164	C	CR/C	3584	2792
113540389	RUS	IK	INTERSPUTNIK-168E	168	A	API/A	8532	2754
110520063	RUS	IK	INTERSPUTNIK-16W-2	-16	C	CR/C	2610	2693
112520069	RUS	IK	INTERSPUTNIK-16W-4	-16	C	CR/C	3142	2741
112523002	RUS	IK	INTERSPUTNIK-16W-4_1	-16	C	CR/F	5	2730
112540618	RUS	IK	INTERSPUTNIK-16W-5	-16	A	API/A	7749	2724
113540390	RUS	IK	INTERSPUTNIK-171E	171	A	API/A	8533	2754
113540391	RUS	IK	INTERSPUTNIK-174E	174	A	API/A	8534	2754
113540392	RUS	IK	INTERSPUTNIK-177E	177	A	API/A	8535	2754
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
112540621	RUS	IK	INTERSPUTNIK-18.5E-1	18.5	A	API/A	7752	2724
113540393	RUS	IK	INTERSPUTNIK-180E	180	A	API/A	8536	2754
111520101	RUS	IK	INTERSPUTNIK-26W	-26	C	CR/C	2874	2720
114520075	RUS	IK	INTERSPUTNIK-26W-1	-26	C	CR/C	3585	2792
112540622	RUS	IK	INTERSPUTNIK-29.5E-1	29.5	A	API/A	7753	2724
112540616	RUS	IK	INTERSPUTNIK-35W-1	-35	A	API/A	7747	2724
103500095	RUS	IK	INTERSPUTNIK-3W	-3	N	PART	2	2710

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112540619	RUS	IK	INTERSPUTNIK-3W-5	-3	A	API/A	7750	2724
112500275	RUS	IK	INTERSPUTNIK-3W-CK	-3	N	PART	2	2744
105500292	RUS	IK	INTERSPUTNIK-3W-Q	-3	N	PART	2	2710
112540623	RUS	IK	INTERSPUTNIK-41E-1	41	A	API/A	7754	2724
108540184	RUS	IK	INTERSPUTNIK-47.5W	-47.5	A	API/A	5108	2634
112540615	RUS	IK	INTERSPUTNIK-47W	-47	A	API/A	7746	2724
108540185	RUS	IK	INTERSPUTNIK-50.5E	50.5	A	API/A	5109	2619
112540624	RUS	IK	INTERSPUTNIK-51.5E-1	51.5	A	API/A	7755	2724
110520061	RUS	IK	INTERSPUTNIK-52.5W	-52.5	C	CR/C	2611	2693
112540614	RUS	IK	INTERSPUTNIK-59W	-59	A	API/A	7745	2724
111520102	RUS	IK	INTERSPUTNIK-62.5E	62.5	C	CR/C	2875	2720
111520103	RUS	IK	INTERSPUTNIK-67.4E	67.4	C	CR/C	2876	2720
112540625	RUS	IK	INTERSPUTNIK-68.5E	68.5	A	API/A	7756	2724
112540613	RUS	IK	INTERSPUTNIK-71W	-71	A	API/A	7744	2724
112540626	RUS	IK	INTERSPUTNIK-75E	75	A	API/A	7757	2724
112500149	RUS	IK	INTERSPUTNIK-75E-CK	75	N	PART	2	2732
105500291	RUS	IK	INTERSPUTNIK-75E-Q	75	N	PART	2	2675
110520064	RUS	IK	INTERSPUTNIK-78E	78	C	CR/C	2612	2693
113540361	RUS	IK	INTERSPUTNIK-84E	84	A	API/A	8504	2754
113540362	RUS	IK	INTERSPUTNIK-87E	87	A	API/A	8505	2754
112520127	RUS	IK	INTERSPUTNIK-87W	-87	C	CR/C	3159	2750
112540620	RUS	IK	INTERSPUTNIK-8E-1	8	A	API/A	7751	2724
110520062	RUS	IK	INTERSPUTNIK-9.5W	-9.5	C	CR/C	2609	2693
113540363	RUS	IK	INTERSPUTNIK-90E	90	A	API/A	8506	2754
113540364	RUS	IK	INTERSPUTNIK-93E	93	A	API/A	8507	2754
113540365	RUS	IK	INTERSPUTNIK-96E	96	A	API/A	8508	2754
112520126	RUS	IK	INTERSPUTNIK-97.8W	-97.8	C	CR/C	3160	2750
113540366	RUS	IK	INTERSPUTNIK-99E	99	A	API/A	8509	2754
110520362	RUS		AMG-106W	-106	C	CR/C	2760	2707
110520365	RUS		AMG-159.5E	159.5	C	CR/C	2759	2707
111520129	RUS		AMG-23E	23	C	CR/C	2896	2722
110520364	RUS		AMG-36W	-36	C	CR/C	2758	2707
111520223	RUS		AMG-3W	-3	C	CR/C	2952	2721
111520130	RUS		AMG-49E	49	C	CR/C	2897	2722
110520363	RUS		AMG-65.5W	-65.5	C	CR/C	2757	2707
111520325	RUS		AMG-76.5E	76.5	C	CR/C	2987	2725
114520004	RUS		BRASLET-125E	125	C	CR/C	3598	2794
114520005	RUS		BRASLET-149E	149	C	CR/C	3599	2794
114520003	RUS		BRASLET-59E	59	C	CR/C	3597	2794
90500132	RUS		CSDRN	95	N	PART	1	2686
111500243	RUS		CSDRN-M	95	N	PART	2	2807
90501087	RUS		CSSRD-2	77	N	PART	1	2778
115500040	RUS		ENSAT-13E	13	N	PART	2	2809
111520220	RUS		ENSAT-14.5E	14.5	C	CR/C	3016	2775
111520221	RUS		ENSAT-23E	23	C	CR/C	3017	2775

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113520297	RUS		ENSAT-KA-112E	112	C	CR/C	3504	2782
112520421	RUS		ENSAT-KA-136E	136	C	CR/C	3267	2752
113540034	RUS		ENSAT-KA1-56.5E	56.5	A	API/A	8257	2744
112520419	RUS		ENSAT-KA-42.5E	42.5	C	CR/C	3265	2752
111520222	RUS		ENSAT-KA-61E	61	C	CR/C	3018	2728
112520420	RUS		ENSAT-KA-67E	67	C	CR/C	3266	2752
113520296	RUS		ENSAT-KA-99E	99	C	CR/C	3503	2782
90500133	RUS		ESDRN	-160	N	PART	1	2686
100500089	RUS		EXPRESS-10	140	N	PART	2	2798
106500057	RUS		EXPRESS-10B	140	N	PART	2	2735
112500064	RUS		EXPRESS-10KA	140	N	PART	1	2806
100500090	RUS		EXPRESS-11	145	N	PART	2	2790
97500285	RUS		EXPRESS-2	-14	N	PART	2	2789
106500060	RUS		EXPRESS-2B	-14	N	PART	2	2735
97500286	RUS		EXPRESS-3	-11	N	PART	2	2691
98500178	RUS		EXPRESS-4	40	N	PART	2	2807
106500059	RUS		EXPRESS-4B	40	N	PART	2	2802
98500179	RUS		EXPRESS-5	53	N	PART	2	2735
106500050	RUS		EXPRESS-5B	53	N	PART	2	2735
112500235	RUS		EXPRESS-5KA	53	N	PART	2	2784
97500288	RUS		EXPRESS-6	80	N	PART	2	2790
106500056	RUS		EXPRESS-6B	80	N	PART	2	2718
112500236	RUS		EXPRESS-6KA	80	N	PART	1	2804
100500160	RUS		EXPRESS-7	90	N	PART	1	2805
106500099	RUS		EXPRESS-7B	90	N	PART	2	2711
112500045	RUS		EXPRESS-7C	90	N	PART	2	2746
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	2798
106500058	RUS		EXPRESS-9B	103	N	PART	2	2735
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	1	2714
92500170	RUS		FOTON-2	80	N	PART	1	2714
94500365	RUS		FOTON-3	-168	N	PART	1	2714
90500382	RUS		GALS-1	-26.5	N	PART	2	2654
90500385	RUS		GALS-10	128	N	PART	2	2740
101500486	RUS		GALS-11	-3	N	PART	2	2740
101500485	RUS		GALS-12	15	N	PART	2	2740
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	2740
98500185	RUS		GALS-16	70	N	PART	2	2760
98500186	RUS		GALS-17	12	N	PART	2	2640
90500393	RUS		GALS-2	45	N	PART	2	2654

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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	2740
101500487	RUS		GALS-8	23	N	PART	2	2740
90500404	RUS		GALS-9	-25	N	PART	2	2740
113500039	RUS		GOMS-14.5W	-14.5	N	PART	2	2809
112520153	RUS		GOMS-166E	165.8	C	CR/C	3190	2777
96500168	RUS		GOMS-1M	-14.5	N	PART	1	2808
95500278	RUS		GOMS-M	76	N	PART	2	2702
114520264	RUS		GT-SAT-76.5E	76.5	C	CR/C	3718	2808
114523047	RUS		GT-SAT-76.5E_1	76.5	C	CR/F	199	2794
114520265	RUS		GT-SAT-93E	93	C	CR/C	3719	2808
114523048	RUS		GT-SAT-93E_1	93	C	CR/F	200	2794
100500233	RUS		KUPON-1	55	N	PART	2	2795
110500081	RUS		KUPON-1M	55	N	PART	2	2735
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
111500211	RUS		KUPON-4M	86.5	N	PART	2	2717
101500488	RUS		LOUTCH-10	145	N	PART	2	2789
90500287	RUS		LOUTCH-3	90	N	PART	2	2795
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	2802
90500297	RUS		LOUTCH-9	96.5	N	PART	2	2554
108540237	RUS		MARAFON-M2	90.5	A	API/A	5131	2620
114540422	RUS		PEGAS-4	65	A	API/A	9348	2778
90500593	RUS		POTOK-1	-13.5	N	PART	2	2610
90500592	RUS		POTOK-2	80	N	PART	2	2583
90500594	RUS		POTOK-3	-168	N	PART	2	2610
90500531	RUS		PROGNOZ-1	-24	N	PART	2	
90500528	RUS		PROGNOZ-2	12	N	PART	2	
90500529	RUS		PROGNOZ-3	35	N	PART	2	
90500530	RUS		PROGNOZ-4	80	N	PART	2	2518
94500349	RUS		PROGNOZ-5	130	N	PART	2	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	2740
	RUS		PRSS-100E	100	A			
	RUS		PRSS-117.75E	117.75	A			
	RUS		PRSS-126E	126	A			
	RUS		PRSS-130E	130	A			
	RUS		PRSS-151E	151	A			

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	RUS		PRSS-23.7E	23.7	A			
	RUS		PRSS-56E	56	A			
	RUS		PRSS-78E	78	A			
	RUS		PRSS-83.75E	83.75	A			
102500047	RUS		ROSCOM-4	49	N	PART	1	2758
111520518	RUS		RSS-VSD-104E	104	C	CR/C	3109	2737
111520519	RUS		RSS-VSD-133E	133	C	CR/C	3110	2737
111520515	RUS		RSS-VSD-60E	60	C	CR/C	3106	2737
111520516	RUS		RSS-VSD-71E	71	C	CR/C	3107	2737
111520517	RUS		RSS-VSD-85E	85	C	CR/C	3108	2737
99500287	RUS		RST-1	36	N	PART	2	2522
99500288	RUS		RST-2	56	N	PART	2	2522
113520207	RUS		RUSATCOM-145E	145	C	CR/C	3465	2780
108501199	RUS		SADKO-1	85.4	N	PART	2	2710
90500475	RUS		STATSIONAR-1	80	N	PART	2	853/2704
90500477	RUS		STATSIONAR-10	-170	N	PART	2	2740
101500526	RUS		STATSIONAR-10A	-170	N	PART	2	2714
114540919	RUS		STATSIONAR-128E	128	A	API/A	9831	2789
90500193	RUS		STATSIONAR-14	96.5	N	PART	2	2554
90500216	RUS		STATSIONAR-15	128	N	PART	2	2740
90500185	RUS		STATSIONAR-16	145	N	PART	2	2789
101500181	RUS		STATSIONAR-17	-26.5	N	PART	2	2740
101500182	RUS		STATSIONAR-18	8	N	PART	2	2740
101500183	RUS		STATSIONAR-19	23	N	PART	2	2740
90500496	RUS		STATSIONAR-2	35	N	PART	2	2740
90500256	RUS		STATSIONAR-20	70	N	PART	2	2810
90500220	RUS		STATSIONAR-21	103	N	PART	2	2778
90500196	RUS		STATSIONAR-22	1	N	PART	2	2740
101500185	RUS		STATSIONAR-23	15	N	PART	2	2740
90500199	RUS		STATSIONAR-24	49	N	PART	2	2714
91910063	RUS		STATSIONAR-27	12	N	PART	2	2714
90500501	RUS		STATSIONAR-3	85	N	PART	2	2740
90500482	RUS		STATSIONAR-6	90	N	PART	2	2795
90500483	RUS		STATSIONAR-7	140	N	PART	2	2554
90500484	RUS		STATSIONAR-8	-25	N	PART	2	2740
90500507	RUS		STATSIONAR-9	45	N	PART	2	2778
101500527	RUS		STATSIONAR-9A	45	N	PART	2	2714
94500246	RUS		STATSIONAR-D3	35	N	PART	2	2732
94500247	RUS		STATSIONAR-D4	45	N	PART	2	2732
94500248	RUS		STATSIONAR-D5	85.4	N	PART	2	2732
94500249	RUS		STATSIONAR-D6	128	N	PART	2	2732
104500019	RUS		STATSIONAR-M2	-3	N	PART	2	2605
90500508	RUS		STATSIONAR-T	99	N	PART	2	2597
90500509	RUS		STATSIONAR-T2	99	N	PART	2	2597
105500356	RUS		TOR-10M	130	N	PART	2	2664

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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	2740
101500388	RUS		VOLNA-15	8	N	PART	2	2740
101500389	RUS		VOLNA-17	23	N	PART	2	2740
101500390	RUS		VOLNA-19	70	N	PART	2	2740
95500612	RUS		VOLNA-1A	-25	N	PART	2	2740
90500585	RUS		VOLNA-2	-14	N	PART	2	
101500391	RUS		VOLNA-21	1	N	PART	2	2740
101500392	RUS		VOLNA-23	15	N	PART	2	2740
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	2740
114500009	RUS		VOLNA-3R	-11	N	PART	2	2773
90500586	RUS		VOLNA-4	53	N	PART	2	
110500067	RUS		VOLNA-4R	40	N	PART	2	2802
90504200	RUS		VOLNA-5	85	N	PART	2	2740
114500008	RUS		VOLNA-5R	96.5	N	PART	2	2774
90500587	RUS		VOLNA-6	140	N	PART	2	
110500012	RUS		VOLNA-6R	145	N	PART	2	2789
90504201	RUS		VOLNA-7	-170	N	PART	2	2740
90504202	RUS		VOLNA-8	90	N	PART	2	2720
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	1	2778
112500228	RUS		VSSRD-2M	167	N	PART	2	2778

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90500134	RUS		WSDRN	-16	N	PART	1	2686
111500244	RUS		WSDRN-M	-16	N	PART	2	2778
115520050	RUS		YAMAL-183E	-177	C	CR/C	3777	2801
112500245	RUS		YAMAL-49E	49	N	PART	2	2759
111520152	RUS		YAMAL-55E	55	C	CR/C	2948	2716
111520152	RUS		YAMAL-55E	55	C	CR/E	149	2716
105500011	RUS		YAMAL-E3	81.75	N	PART	2	2630
112520216	RUS		YAMAL-E3M	81.75	C	CR/C	3214	2745
112520216	RUS		YAMAL-E3M	81.75	C	CR/E	406	2745
112520217	RUS		YAMAL-E5M	163.5	C	CR/C	3215	2745
112520217	RUS		YAMAL-E5M	163.5	C	CR/E	407	2745
111520131	RUS		YAMAL-KA1	49	C	CR/C	2943	2703
114520076	RUS		YAMAL-KA1M	49	C	CR/C	3601	2794
111520132	RUS		YAMAL-KA2	90	C	CR/C	2944	2716
111520132	RUS		YAMAL-KA2	90	C	CR/E	146	2716
90501090	RUS		ZSSRD-2	-16	N	PART	2	2778
115540994	S		SIRIUS-13W-8	-13	A	API/A	10879	2810
115540993	S		SIRIUS-5E-9	5	A	API/A	10878	2810
115540357	S		SMMSAT-10X	165	A	API/A	10230	2799
	S		SMMSAT-11	120	A			
115540366	S		SMMSAT-1X	-61	A	API/A	10239	2799
115540365	S		SMMSAT-2X	-41	A	API/A	10238	2799
115540364	S		SMMSAT-3X	-33.5	A	API/A	10237	2799
115540363	S		SMMSAT-4X	21.5	A	API/A	10236	2799
115540362	S		SMMSAT-5X	31	A	API/A	10235	2799
115540361	S		SMMSAT-6X	39	A	API/A	10234	2799
115540360	S		SMMSAT-7X	55	A	API/A	10233	2799
115540359	S		SMMSAT-8X	61.5	A	API/A	10232	2799
115540358	S		SMMSAT-9X	159	A	API/A	10231	2799
90500541	S	NOT	TELE-X	5	N	PART	2	2662
111520452	S		SIRIUS-13W-6	-13	C	CR/C	3064	2734
114540715	S		SIRIUS-13W-7	-13	A	API/A	9659	2787
104500472	S		SIRIUS-2	4.8	N	PART	2	2659
108501081	S		SIRIUS-3B	5	N	PART	2	2652
112500153	S		SIRIUS-5E	5	N	PART	2	2766
114500015	S		SIRIUS-5E-2	5	N	PART	2	2789
111520429	S		SIRIUS-5E-7	5	C	CR/C	3065	2734
115520010	S		SIRIUS-5E-8	5	C	CR/C	3808	2804
115523010	S		SIRIUS-5E-8_1	5	C	CR/F	234	2804
109500400	S		SIRIUS-P	5	N	PART	1	2760
113540726	S		SMMSAT-1	-61	A	API/A	8831	2761
113540735	S		SMMSAT-10	165	A	API/A	8840	2761
113540727	S		SMMSAT-2	-41	A	API/A	8832	2761
113540728	S		SMMSAT-3	-33.5	A	API/A	8833	2761
113540729	S		SMMSAT-4	21.5	A	API/A	8834	2761

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113540730	S		SMMSAT-5	31	A	API/A	8835	2761
113540731	S		SMMSAT-6	39	A	API/A	8836	2761
113540732	S		SMMSAT-7	55	A	API/A	8837	2761
113540733	S		SMMSAT-8	61.5	A	API/A	8838	2761
113540734	S		SMMSAT-9	159	A	API/A	8839	2761
99500056	SNG		ST-1A	88	N	PART	2	2713
110500077	SNG		ST-1A-CK	88	N	PART	2	2735
110520129	SNG		ST-2A-CK	88	C	CR/C	2646	2696
111520513	SNG		ST-2F-CK	41	C	CR/C	3071	2734
112520439	SNG		ST-2H-CK	-35.5	C	CR/C	3283	2772
112520439	SNG		ST-2H-CK	-35.5	C	CR/E	475	2772
112540753	THA		THAICOM-51E	51	A	API/A	7843	2727
114540186	THA		THAICOM-51ER	51	A	API/A	9128	2773
100500119	THA		THAICOM-A2	78.5	N	PART	2	2632
106500234	THA		THAICOM-A2B	78.5	N	PART	1	2798
101500557	THA		THAICOM-A3	120	N	PART	2	2632
106500350	THA		THAICOM-A3B	120	N	PART	2	2669
96500002	THA		THAICOM-AK2	78.5	N	PART	2	2351
106500348	THA		THAICOM-C1	50.5	N	PART	2	2798
109500875	THA		THAICOM-G1K	78.5	N	PART	1	2784
109500079	THA		THAICOM-G2K	120	N	PART	2	2698
110500358	THA		THAICOM-G3K	142	N	PART	2	2700
109500219	THA		THAICOM-IP1	119.5	N	PART	2	2693
112540915	THA		THAICOM-LSX2	78.5	A	API/A	7913	2729
114540187	THA		THAICOM-LSX2R	78.5	A	API/A	9129	2773
112540916	THA		THAICOM-LSX3	119.5	A	API/A	7914	2729
114540188	THA		THAICOM-LSX3R	119.5	A	API/A	9130	2773
112500242	THA		THAICOM-N1	50.5	N	PART	2	2792
112500215	THA		THAICOM-N2	78.5	N	PART	2	2783
112500127	THA		THAICOM-N3	120	N	PART	1	2804
115540088	THA		THAICOM-N5	142	A	API/A	9932	2792
113540031	THA		THAICOM-N5R	142	A	API/A	8254	2743
114520132	THA		THAICOM-P1R	50.5	C	CR/C	3626	2796
112520474	THA		THAICOM-P3	119.5	C	CR/C	3304	2756
113540155	THA		THAICOM-P4R	120	A	API/A	8365	2751
115520020	THA		THAICOM-P5	126	C	CR/C	3747	2800
114520086	THA		THAICOM-Q2	78.5	C	CR/C	3589	2792
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
111500195	TON		TONGASAT-2/134E	134	N	PART	2	2718
111500194	TON		TONGASAT-2/138E	138	N	PART	2	2718
105500703	TON		TONGASAT-H70	70	N	PART	2	2692
115540155	TUR		TURKSAT-100E-F	100	A	API/A	10024	2798

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115540179	TUR		TURKSAT-10E-F	10	A	API/A	10048	2798
115540151	TUR		TURKSAT-11W-F	-11	A	API/A	10020	2798
115540178	TUR		TURKSAT-13E-F	13	A	API/A	10047	2798
115540193	TUR		TURKSAT-14W-F	-14	A	API/A	10062	2798
115540177	TUR		TURKSAT-16E-F	16	A	API/A	10046	2798
115540150	TUR		TURKSAT-17W-F	-17	A	API/A	10019	2798
115540149	TUR		TURKSAT-19E-F	19	A	API/A	10018	2798
115540139	TUR		TURKSAT-1E-F	1	A	API/A	10009	2798
115540198	TUR		TURKSAT-20W-F	-20	A	API/A	10067	2798
115540176	TUR		TURKSAT-22E-F	22	A	API/A	10045	2798
115540144	TUR		TURKSAT-23W-F	-23	A	API/A	10013	2798
115540199	TUR		TURKSAT-25E-F	25	A	API/A	10068	2798
115540197	TUR		TURKSAT-26W-F	-26	A	API/A	10066	2798
115540148	TUR		TURKSAT-28E-F	28	A	API/A	10017	2798
115540196	TUR		TURKSAT-29W-F	-29	A	API/A	10065	2798
115540154	TUR		TURKSAT-2W-F	-2	A	API/A	10023	2798
115540133	TUR		TURKSAT-31E-F	31	A	API/A	10003	2796
115540195	TUR		TURKSAT-32W-F	-32	A	API/A	10064	2798
115540174	TUR		TURKSAT-34E-F	34	A	API/A	10043	2798
115540194	TUR		TURKSAT-35W-F	-35	A	API/A	10063	2798
115540173	TUR		TURKSAT-37E-F	37	A	API/A	10042	2798
115540181	TUR		TURKSAT-38W-F	-38	A	API/A	10050	2798
115540145	TUR		TURKSAT-41E-F	41	A	API/A	10014	2798
115540192	TUR		TURKSAT-41W-F	-41	A	API/A	10061	2798
115540132	TUR		TURKSAT-42E-F	42	A	API/A	10002	2796
115540146	TUR		TURKSAT-43E-F	43	A	API/A	10015	2798
115540191	TUR		TURKSAT-44W-F	-44	A	API/A	10060	2798
115540172	TUR		TURKSAT-46E-F	46	A	API/A	10041	2798
115540190	TUR		TURKSAT-47W-F	-47	A	API/A	10059	2798
115540171	TUR		TURKSAT-49E-F	49	A	API/A	10040	2798
115540138	TUR		TURKSAT-4E-F	4	A	API/A	10008	2798
115540131	TUR		TURKSAT-50E-F	50	A	API/A	10001	2796
115540189	TUR		TURKSAT-50W-F	-50	A	API/A	10058	2798
115540170	TUR		TURKSAT-52E-F	52	A	API/A	10039	2798
115540188	TUR		TURKSAT-53W-F	-53	A	API/A	10057	2798
115540169	TUR		TURKSAT-55E-F	55	A	API/A	10038	2798
115540187	TUR		TURKSAT-56W-F	-56	A	API/A	10056	2798
115540168	TUR		TURKSAT-58E-F	58	A	API/A	10037	2798
115540186	TUR		TURKSAT-59W-F	-59	A	API/A	10055	2798
115540153	TUR		TURKSAT-5W-F	-5	A	API/A	10022	2798
115540167	TUR		TURKSAT-61E-F	61	A	API/A	10036	2798
115540185	TUR		TURKSAT-62W-F	-62	A	API/A	10054	2798
115540166	TUR		TURKSAT-64E-F	64	A	API/A	10035	2798
115540184	TUR		TURKSAT-65W-F	-65	A	API/A	10053	2798
115540165	TUR		TURKSAT-67E-F	67	A	API/A	10034	2798

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115540183	TUR		TURKSAT-68W-F	-68	A	API/A	10052	2798
115540164	TUR		TURKSAT-70E-F	70	A	API/A	10033	2798
115540182	TUR		TURKSAT-71W-F	-71	A	API/A	10051	2798
115540163	TUR		TURKSAT-73E-F	73	A	API/A	10032	2798
115540180	TUR		TURKSAT-74W-F	-74	A	API/A	10049	2798
115540162	TUR		TURKSAT-76E-F	76	A	API/A	10031	2798
115540161	TUR		TURKSAT-79E-F	79	A	API/A	10030	2798
115540137	TUR		TURKSAT-7E-F	7	A	API/A	10007	2798
115540143	TUR		TURKSAT-8.5E-F	8.5	A	API/A	10012	2798
115540147	TUR		TURKSAT-81E-F	81	A	API/A	10016	2798
115540160	TUR		TURKSAT-85E-F	85	A	API/A	10029	2798
115540159	TUR		TURKSAT-88E-F	88	A	API/A	10028	2798
115540152	TUR		TURKSAT-8W-F	-8	A	API/A	10021	2798
115540158	TUR		TURKSAT-91E-F	91	A	API/A	10027	2798
115540157	TUR		TURKSAT-94E-F	94	A	API/A	10026	2798
115540156	TUR		TURKSAT-97E-F	97	A	API/A	10025	2798
112540828	TUR		TURKSAT-16.5W-A	-16.5	A	API/A	7897	2729
114540082	TUR		TURKSAT-19E-D	19	A	API/A	9030	2767
95500457	TUR		TURKSAT-1A	42	N	PART	2	2639
95500458	TUR		TURKSAT-1B	31	N	PART	2	2778
99500054	TUR		TURKSAT-1C	50	N	PART	2	2782
100500442	TUR		TURKSAT-1D	42	N	PART	2	2639
112540825	TUR		TURKSAT-2.5W-A	-2.5	A	API/A	7894	2729
113520315	TUR		TURKSAT-23W-A	-23	C	CR/C	3521	2785
114540083	TUR		TURKSAT-28.1E-D	28.1	A	API/A	9031	2767
111500058	TUR		TURKSAT-2B	31	N	PART	2	2778
112500280	TUR		TURKSAT-31E-A	31	N	PART	2	2744
115500093	TUR		TURKSAT-31E-B	31	N	PART	2	2808
112520271	TUR		TURKSAT-31E-C	31	C	CR/C	3207	2746
114520278	TUR		TURKSAT-31E-D	31	C	CR/C	3674	2804
114523089	TUR		TURKSAT-31E-D_1	31	C	CR/F	165	2790
110520004	TUR		TURKSAT-31E-N	31	C	CR/C	2666	2700
114540085	TUR		TURKSAT-32.5E-D	32.5	A	API/A	9033	2767
114540086	TUR		TURKSAT-41E-D	41	A	API/A	9034	2767
112500281	TUR		TURKSAT-42E-A	42	N	PART	2	2749
114500196	TUR		TURKSAT-42E-B	42	N	PART	2	2806
112520272	TUR		TURKSAT-42E-C	42	C	CR/C	3208	2746
114540087	TUR		TURKSAT-43.5E-D	43.5	A	API/A	9035	2767
114540088	TUR		TURKSAT-50.5E-D	50.5	A	API/A	9036	2767
112500282	TUR		TURKSAT-50E-A	50	N	PART	2	2782
115500041	TUR		TURKSAT-50E-B	50	N	PART	2	2808
112520273	TUR		TURKSAT-50E-C	50	C	CR/C	3209	2746
110520005	TUR		TURKSAT-50E-N	50	C	CR/C	2667	2700
114540081	TUR		TURKSAT-5E-D	5	A	API/A	9029	2767
114540089	TUR		TURKSAT-73E-D	73	A	API/A	9037	2767

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112540827	TUR		TURKSAT-9.5W-A	-9.5	A	API/A	7896	2729
109500555	TUR		TURKSAT-C50E	50	N	PART	2	2782
96500024	TUR		TURKSAT-K1	31	N	PART	2	2778
101500035	TUR		TURKSAT-K2	42	N	PART	2	2639
109500209	TUR		TURKSAT-K3	50	N	PART	2	2782
104500576	TUR		TURKSAT-KX	42	N	PART	2	2639
115540700	UAE		EMARSAT-12A	20	A	API/A	10583	2801
115540716	UAE		EMARSAT-12A-M	-102	A	API/A	10599	2801
115540718	UAE		EMARSAT-12B	158	A	API/A	10601	2801
115540717	UAE		EMARSAT-12B-M	-114	A	API/A	10600	2801
115540720	UAE		EMARSAT-12C	34	A	API/A	10603	2801
115540719	UAE		EMARSAT-12D	47	A	API/A	10602	2801
115540722	UAE		EMARSAT-12D-M	-126	A	API/A	10605	2801
115540721	UAE		EMARSAT-12E	60	A	API/A	10604	2801
115540723	UAE		EMARSAT-12E-M	-138	A	API/A	10606	2801
115540724	UAE		EMARSAT-12F	44	A	API/A	10607	2801
115540725	UAE		EMARSAT-12F-M	-150	A	API/A	10608	2801
115540726	UAE		EMARSAT-12G	52.5	A	API/A	10609	2801
115540727	UAE		EMARSAT-12G-M	127	A	API/A	10610	2801
115540728	UAE		EMARSAT-12H	67.5	A	API/A	10611	2801
115540699	UAE		EMARSAT-12H-M	134	A	API/A	10582	2801
115540676	UAE		EMARSAT-12I	79	A	API/A	10559	2801
115540730	UAE		EMARSAT-12I-M	74	A	API/A	10613	2801
115540729	UAE		EMARSAT-12J	83	A	API/A	10612	2801
115540677	UAE		EMARSAT-12K	92	A	API/A	10560	2801
115540679	UAE		EMARSAT-12L	28.75	A	API/A	10562	2801
115540678	UAE		EMARSAT-12M	40	A	API/A	10561	2801
115540698	UAE		EMARSAT-12N	101	A	API/A	10581	2801
115540697	UAE		EMARSAT-12O	112.5	A	API/A	10580	2801
115540696	UAE		EMARSAT-12P	119	A	API/A	10579	2801
115540694	UAE		EMARSAT-12Q	137.8	A	API/A	10577	2801
115540695	UAE		EMARSAT-12R	-30	A	API/A	10578	2801
115540691	UAE		EMARSAT-12S	98.5	A	API/A	10574	2801
115540692	UAE		EMARSAT-12T	146	A	API/A	10575	2801
115540689	UAE		EMARSAT-12U	-42	A	API/A	10572	2801
115540684	UAE		EMARSAT-12U-M	-80	A	API/A	10567	2801
115540690	UAE		EMARSAT-12V	-54	A	API/A	10573	2801
115540687	UAE		EMARSAT-12V-M	-6	A	API/A	10570	2801
115540683	UAE		EMARSAT-12W	-70.5	A	API/A	10566	2801
115540688	UAE		EMARSAT-12W-M	-60	A	API/A	10571	2801
115540686	UAE		EMARSAT-12X	-73	A	API/A	10569	2801
115540685	UAE		EMARSAT-12X-M	3	A	API/A	10568	2801
115540693	UAE		EMARSAT-12Y	14.6	A	API/A	10576	2801
115540682	UAE		EMARSAT-12Y-M	-9	A	API/A	10565	2801

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115540433	UAE		YAHSAT-G10-0E	0	A	API/A	10306	2798
115540436	UAE		YAHSAT-G10-100E	100	A	API/A	10309	2798
115540645	UAE		YAHSAT-G10-100W	-100	A	API/A	10518	2798
115540435	UAE		YAHSAT-G10-105E	105	A	API/A	10308	2798
115540644	UAE		YAHSAT-G10-105W	-105	A	API/A	10517	2798
115540629	UAE		YAHSAT-G10-10E	10	A	API/A	10502	2798
115540431	UAE		YAHSAT-G10-10W	-10	A	API/A	10304	2798
115540405	UAE		YAHSAT-G10-110E	110	A	API/A	10278	2798
115540643	UAE		YAHSAT-G10-110W	-110	A	API/A	10516	2798
115540406	UAE		YAHSAT-G10-115E	115	A	API/A	10279	2798
115540642	UAE		YAHSAT-G10-115W	-115	A	API/A	10515	2798
115540407	UAE		YAHSAT-G10-120E	120	A	API/A	10280	2798
115540641	UAE		YAHSAT-G10-120W	-120	A	API/A	10514	2798
115540408	UAE		YAHSAT-G10-125E	125	A	API/A	10281	2798
115540640	UAE		YAHSAT-G10-125W	-125	A	API/A	10513	2798
115540409	UAE		YAHSAT-G10-130E	130	A	API/A	10282	2798
115540639	UAE		YAHSAT-G10-130W	-130	A	API/A	10512	2798
115540410	UAE		YAHSAT-G10-135E	135	A	API/A	10283	2798
115540638	UAE		YAHSAT-G10-135W	-135	A	API/A	10511	2798
115540464	UAE		YAHSAT-G10-140E	140	A	API/A	10337	2798
115540637	UAE		YAHSAT-G10-140W	-140	A	API/A	10510	2798
115540463	UAE		YAHSAT-G10-145E	-145	A	API/A	10336	2798
115540636	UAE		YAHSAT-G10-145W	-145	A	API/A	10509	2798
115540462	UAE		YAHSAT-G10-150E	150	A	API/A	10335	2798
115540647	UAE		YAHSAT-G10-150W	-150	A	API/A	10520	2798
115540461	UAE		YAHSAT-G10-155E	-155	A	API/A	10334	2798
115540635	UAE		YAHSAT-G10-155W	-155	A	API/A	10508	2798
115540630	UAE		YAHSAT-G10-15E	15	A	API/A	10503	2798
115540430	UAE		YAHSAT-G10-15W	-15	A	API/A	10303	2798
115540460	UAE		YAHSAT-G10-160E	160	A	API/A	10333	2798
115540634	UAE		YAHSAT-G10-160W	-160	A	API/A	10507	2798
115540459	UAE		YAHSAT-G10-165E	-165	A	API/A	10332	2798
115540646	UAE		YAHSAT-G10-165W	-165	A	API/A	10519	2798
115540458	UAE		YAHSAT-G10-170E	170	A	API/A	10331	2798
115540633	UAE		YAHSAT-G10-170W	-170	A	API/A	10506	2798
115540457	UAE		YAHSAT-G10-175E	175	A	API/A	10330	2798
115540632	UAE		YAHSAT-G10-175W	-175	A	API/A	10505	2798
115540631	UAE		YAHSAT-G10-20E	20	A	API/A	10504	2798
115540429	UAE		YAHSAT-G10-20W	-20	A	API/A	10302	2798
115540456	UAE		YAHSAT-G10-25E	25	A	API/A	10329	2798
115540428	UAE		YAHSAT-G10-25W	-25	A	API/A	10301	2798
115540455	UAE		YAHSAT-G10-30E	30	A	API/A	10328	2798
115540427	UAE		YAHSAT-G10-30W	-30	A	API/A	10300	2798

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115540453	UAE		YAHSAT-G10-40E	40	A	API/A	10326	2798
115540424	UAE		YAHSAT-G10-40W	-40	A	API/A	10297	2798
115540425	UAE		YAHSAT-G10-43W	-43	A	API/A	10298	2798
115540452	UAE		YAHSAT-G10-45E	45	A	API/A	10325	2798
115540423	UAE		YAHSAT-G10-45W	-45	A	API/A	10296	2798
115540451	UAE		YAHSAT-G10-47E	47	A	API/A	10324	2798
115540450	UAE		YAHSAT-G10-50E	50	A	API/A	10323	2798
115540422	UAE		YAHSAT-G10-50W	-50	A	API/A	10295	2798
115540449	UAE		YAHSAT-G10-52.5E	52.5	A	API/A	10322	2798
115540448	UAE		YAHSAT-G10-55E	55	A	API/A	10321	2798
115540421	UAE		YAHSAT-G10-55W	-55	A	API/A	10294	2798
115540447	UAE		YAHSAT-G10-57E	57	A	API/A	10320	2798
115540434	UAE		YAHSAT-G10-5E	5	A	API/A	10307	2798
115540432	UAE		YAHSAT-G10-5W	-5	A	API/A	10305	2798
115540446	UAE		YAHSAT-G10-60E	60	A	API/A	10319	2798
115540420	UAE		YAHSAT-G10-60W	-60	A	API/A	10293	2798
115540445	UAE		YAHSAT-G10-63E	63	A	API/A	10318	2798
115540444	UAE		YAHSAT-G10-65E	65	A	API/A	10317	2798
115540419	UAE		YAHSAT-G10-65W	-65	A	API/A	10292	2798
115540443	UAE		YAHSAT-G10-67.5E	67.5	A	API/A	10316	2798
115540442	UAE		YAHSAT-G10-70E	70	A	API/A	10315	2798
115540418	UAE		YAHSAT-G10-70W	-70	A	API/A	10291	2798
115540417	UAE		YAHSAT-G10-73W	-73	A	API/A	10290	2798
115540441	UAE		YAHSAT-G10-75E	75	A	API/A	10314	2798
115540416	UAE		YAHSAT-G10-75W	-75	A	API/A	10289	2798
115540415	UAE		YAHSAT-G10-77W	-77	A	API/A	10288	2798
115540440	UAE		YAHSAT-G10-80E	80	A	API/A	10313	2798
115540414	UAE		YAHSAT-G10-80W	-80	A	API/A	10287	2798
115540439	UAE		YAHSAT-G10-85E	85	A	API/A	10312	2798
115540413	UAE		YAHSAT-G10-85W	-85	A	API/A	10286	2798
115540438	UAE		YAHSAT-G10-90E	90	A	API/A	10311	2798
115540412	UAE		YAHSAT-G10-90W	-90	A	API/A	10285	2798
115540437	UAE		YAHSAT-G10-95E	95	A	API/A	10310	2798
115540411	UAE		YAHSAT-G10-95W	-95	A	API/A	10284	2798
113540292	UAE		EMARSAT-10A	20	A	API/A	8445	2754
113540327	UAE		EMARSAT-10A/M	-102	A	API/A	8480	2754
113540294	UAE		EMARSAT-10B	158	A	API/A	8447	2754
113540328	UAE		EMARSAT-10B/M	-114	A	API/A	8481	2754
113540295	UAE		EMARSAT-10C	34	A	API/A	8448	2754
113540298	UAE		EMARSAT-10D	47	A	API/A	8451	2754
113540329	UAE		EMARSAT-10D/M	-126	A	API/A	8482	2754
113540300	UAE		EMARSAT-10E	60	A	API/A	8453	2754
113540330	UAE		EMARSAT-10E/M	-138	A	API/A	8483	2754

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113540331	UAE		EMARSAT-10F/M	-150	A	API/A	8484	2754
113540299	UAE		EMARSAT-10G	52.5	A	API/A	8452	2754
113540310	UAE		EMARSAT-10G/M	127	A	API/A	8463	2754
113540301	UAE		EMARSAT-10H	67.5	A	API/A	8454	2754
113540311	UAE		EMARSAT-10H/M	134	A	API/A	8464	2754
113540303	UAE		EMARSAT-10I	79	A	API/A	8456	2754
113540302	UAE		EMARSAT-10I/M	74	A	API/A	8455	2754
113540304	UAE		EMARSAT-10J	83	A	API/A	8457	2754
113540305	UAE		EMARSAT-10K	92	A	API/A	8458	2754
113540293	UAE		EMARSAT-10L	28.75	A	API/A	8446	2754
113540296	UAE		EMARSAT-10M	40	A	API/A	8449	2754
113540307	UAE		EMARSAT-10N	101	A	API/A	8460	2754
113540308	UAE		EMARSAT-10O	112.5	A	API/A	8461	2754
113540309	UAE		EMARSAT-10P	119	A	API/A	8462	2754
113540312	UAE		EMARSAT-10Q	137.8	A	API/A	8465	2754
113540319	UAE		EMARSAT-10R	-30	A	API/A	8472	2754
114520211	UAE		EMARSAT-10S	98.5	C	CR/C	3670	2803
113540313	UAE		EMARSAT-10T	146	A	API/A	8466	2754
113540320	UAE		EMARSAT-10U	-42	A	API/A	8473	2754
113540325	UAE		EMARSAT-10U/M	-80	A	API/A	8478	2754
113540321	UAE		EMARSAT-10V	-54	A	API/A	8474	2754
113540316	UAE		EMARSAT-10V/M	-6	A	API/A	8469	2754
113540323	UAE		EMARSAT-10W	-70.5	A	API/A	8476	2754
113540322	UAE		EMARSAT-10W/M	-60	A	API/A	8475	2754
113540324	UAE		EMARSAT-10X	-73	A	API/A	8477	2754
113540315	UAE		EMARSAT-10X/M	3	A	API/A	8468	2754
113540314	UAE		EMARSAT-10Y	14.6	A	API/A	8467	2754
113540317	UAE		EMARSAT-10Y/M	-9	A	API/A	8470	2754
113540326	UAE		EMARSAT-10Z	-90	A	API/A	8479	2754
113540318	UAE		EMARSAT-10Z/M	-18	A	API/A	8471	2754
114540604	UAE		EMARSAT-11A	20	A	API/A	9533	2781
114540605	UAE		EMARSAT-11A/M	-102	A	API/A	9534	2781
114540606	UAE		EMARSAT-11B	158	A	API/A	9535	2781
114540607	UAE		EMARSAT-11B/M	-114	A	API/A	9536	2781
114540608	UAE		EMARSAT-11C	34	A	API/A	9537	2781
114540609	UAE		EMARSAT-11D	47	A	API/A	9538	2781
114540610	UAE		EMARSAT-11D/M	-126	A	API/A	9539	2781
114540611	UAE		EMARSAT-11E	60	A	API/A	9540	2781
114540612	UAE		EMARSAT-11E/M	-138	A	API/A	9541	2781
114540613	UAE		EMARSAT-11F	44	A	API/A	9542	2781
114540614	UAE		EMARSAT-11F/M	-150	A	API/A	9543	2781
114540615	UAE		EMARSAT-11G	52.5	A	API/A	9544	2781
115520080	UAE		EMARSAT-11G/M	127	C	CR/C	3797	2803
114540617	UAE		EMARSAT-11H	67.5	A	API/A	9545	2781

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114540619	UAE		EMARSAT-11I	79	A	API/A	9547	2781
114540620	UAE		EMARSAT-11I/M	74	A	API/A	9548	2781
114540621	UAE		EMARSAT-11J	83	A	API/A	9549	2781
114540622	UAE		EMARSAT-11K	92	A	API/A	9571	2781
114540623	UAE		EMARSAT-11L	28.75	A	API/A	9550	2781
114540624	UAE		EMARSAT-11M	40	A	API/A	9572	2781
114540625	UAE		EMARSAT-11N	101	A	API/A	9551	2781
114540626	UAE		EMARSAT-11O	112.5	A	API/A	9552	2781
114540627	UAE		EMARSAT-11P	119	A	API/A	9553	2781
114540628	UAE		EMARSAT-11Q	137.8	A	API/A	9554	2781
114540629	UAE		EMARSAT-11R	-30	A	API/A	9555	2781
114540630	UAE		EMARSAT-11S	98.5	A	API/A	9556	2781
114540631	UAE		EMARSAT-11T	146	A	API/A	9557	2781
114540632	UAE		EMARSAT-11U	-42	A	API/A	9558	2781
114540633	UAE		EMARSAT-11U/M	-80	A	API/A	9559	2781
114540634	UAE		EMARSAT-11V	-54	A	API/A	9560	2781
114540635	UAE		EMARSAT-11V/M	-6	A	API/A	9561	2781
114540636	UAE		EMARSAT-11W	-70.5	A	API/A	9562	2781
114540637	UAE		EMARSAT-11W/M	-60	A	API/A	9563	2781
115520074	UAE		EMARSAT-11X	-73	C	CR/C	3792	2805
114540639	UAE		EMARSAT-11X/M	3	A	API/A	9565	2781
114540640	UAE		EMARSAT-11Y	14.6	A	API/A	9566	2781
114540641	UAE		EMARSAT-11Y/M	-9	A	API/A	9567	2781
114540642	UAE		EMARSAT-11Z	-90	A	API/A	9568	2781
114540643	UAE		EMARSAT-11Z/M	-18	A	API/A	9569	2781
106500419	UAE		EMARSAT-1F	44	N	PART	2	2766
110500260	UAE		EMARSAT-1F/M	44	N	PART	2	2766
108500025	UAE		EMARSAT-1G	52.5	N	PART	2	2748
111500142	UAE		EMARSAT-4F	44	N	PART	2	2721
108501071	UAE		EMARSAT-4S	98.5	N	PART	2	2766
113500210	UAE		EMARSAT-5G	52.5	N	PART	2	2780
108540117	UAE		EMARSAT-7F	44	A	API/A	5038	2616
108540120	UAE		EMARSAT-7G/M	127	A	API/A	5041	2655
108520228	UAE		EMARSAT-7S	98.5	C	CR/C	2294	2652
111540961	UAE		EMARSAT-9A	20	A	API/A	7243	2733
111540962	UAE		EMARSAT-9A/M	-102	A	API/A	7244	2733
111540963	UAE		EMARSAT-9B	29	A	API/A	7245	2733
111540964	UAE		EMARSAT-9B/M	-114	A	API/A	7246	2733
111540965	UAE		EMARSAT-9C	38	A	API/A	7247	2733
111540966	UAE		EMARSAT-9D	47	A	API/A	7248	2733
111540967	UAE		EMARSAT-9D/M	-126	A	API/A	7249	2733
111540968	UAE		EMARSAT-9E	60	A	API/A	7250	2733
111540969	UAE		EMARSAT-9E/M	-138	A	API/A	7251	2733
111540970	UAE		EMARSAT-9F	44	A	API/A	7252	2733

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111540971	UAE		EMARSAT-9F/M	-150	A	API/A	7253	2733
111540972	UAE		EMARSAT-9G	52.5	A	API/A	7254	2733
112520445	UAE		EMARSAT-9G/M	127	C	CR/C	3302	2756
111540974	UAE		EMARSAT-9H	67.5	A	API/A	7256	2733
113520106	UAE		EMARSAT-9I	79	C	CR/C	3382	2766
111540976	UAE		EMARSAT-9J	83	A	API/A	7258	2733
111540977	UAE		EMARSAT-9K	92	A	API/A	7259	2733
111540978	UAE		EMARSAT-9L	28.75	A	API/A	7260	2733
111540979	UAE		EMARSAT-9M	40	A	API/A	7261	2733
111540980	UAE		EMARSAT-9N	101	A	API/A	7262	2733
111540981	UAE		EMARSAT-9O	112.5	A	API/A	7263	2733
111540982	UAE		EMARSAT-9P	119	A	API/A	7264	2733
113520107	UAE		EMARSAT-9Q	137.8	C	CR/C	3383	2766
111540984	UAE		EMARSAT-9R	-30	A	API/A	7266	2733
111540985	UAE		EMARSAT-9S	98.5	A	API/A	7267	2733
111540986	UAE		EMARSAT-9T	146	A	API/A	7268	2733
111540987	UAE		EMARSAT-9U	-42	A	API/A	7269	2733
111540988	UAE		EMARSAT-9V	-54	A	API/A	7270	2733
113520108	UAE		EMARSAT-9W	-70.5	C	CR/C	3384	2766
113520109	UAE		EMARSAT-9X	-73	C	CR/C	3385	2766
111540991	UAE		EMARSAT-9X/M	3	A	API/A	7273	2733
113520110	UAE		EMARSAT-9Y	14.6	C	CR/C	3386	2766
113520111	UAE		EMARSAT-9Y/M	-9	C	CR/C	3387	2766
111540994	UAE		EMARSAT-9Z	-90	A	API/A	7276	2733
111540995	UAE		EMARSAT-9Z/M	-18	A	API/A	7277	2733
114520104	UAE		MADAR-124W	-124	C	CR/C	3611	2794
114520095	UAE		MADAR-142E	142	C	CR/C	3609	2794
114520177	UAE		MADAR-160E	160	C	CR/C	3652	2801
114520178	UAE		MADAR-166E	166	C	CR/C	3653	2801
112520429	UAE		MADAR-28W	-28	C	CR/C	3272	2752
114520183	UAE		MADAR-28W-2	-28	C	CR/C	3657	2802
112520428	UAE		MADAR-43W	-43	C	CR/C	3273	2752
115520047	UAE		MADAR-45W	-45	C	CR/C	3774	2801
112520430	UAE		MADAR-46E	46	C	CR/C	3274	2756
112520431	UAE		MADAR-47.5E	47.5	C	CR/C	3275	2756
112520432	UAE		MADAR-50.5E	50.5	C	CR/C	3276	2752
115520075	UAE		MADAR-50.5E-2	50.5	C	CR/C	3779	2801
114520096	UAE		MADAR-50W	-50	C	CR/C	3610	2794
114520006	UAE		MADAR-52.5E	52.5	C	CR/C	3536	2788
112520433	UAE		MADAR-57E	57	C	CR/C	3277	2755
115520044	UAE		MADAR-57W	-57	C	CR/C	3771	2801
114520007	UAE		MADAR-60E	60	C	CR/C	3537	2788
115520059	UAE		MADAR-70W	-70	C	CR/C	3782	2802
114520088	UAE		MADAR-72.5E	72.5	C	CR/C	3608	2794
115520045	UAE		MADAR-81W	-81	C	CR/C	3772	2801

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108520094	UAE		YAHSAT-63E	63	C	CR/C	2203	2806
108540043	UAE		YAHSAT-EHF-33E	33	A	API/A	4975	2631
108540047	UAE		YAHSAT-EHF-50.5E	50.5	A	API/A	4979	2631
108540048	UAE		YAHSAT-EHF-52.5E	52.5	A	API/A	4980	2614
108540049	UAE		YAHSAT-EHF-57E	57	A	API/A	4981	2614
108540050	UAE		YAHSAT-EHF-60E	60	A	API/A	4982	2614
108540052	UAE		YAHSAT-EHF-67.5E	67.5	A	API/A	4984	2614
111520023	UAE		YAHSAT-G5-28W	-28	C	CR/C	2793	2716
111520023	UAE		YAHSAT-G5-28W	-28	C	CR/E	45	2716
110520419	UAE		YAHSAT-G5-43W	-43	C	CR/C	2774	2716
110520419	UAE		YAHSAT-G5-43W	-43	C	CR/E	31	2716
111520024	UAE		YAHSAT-G5-55W	-55	C	CR/C	2794	2716
111520024	UAE		YAHSAT-G5-55W	-55	C	CR/E	46	2716
110520361	UAE		YAHSAT-G5-60E	60	C	CR/C	2756	2707
110520448	UAE		YAHSAT-G5-66E	66	C	CR/C	2778	2716
110520448	UAE		YAHSAT-G5-66E	66	C	CR/E	33	2716
111520373	UAE		YAHSAT-G6-17.5W	-17.5	C	CR/C	3010	2727
111520374	UAE		YAHSAT-G6-20W	-20	C	CR/C	3011	2727
111520375	UAE		YAHSAT-G6-45W	-45	C	CR/C	3012	2727
111520469	UAE		YAHSAT-G6-63E	63	C	CR/C	3103	2737
111523002	UAE		YAHSAT-G6-63E_1	63	C	CR/F	2	2730
111520377	UAE		YAHSAT-G6-67.5E	67.5	C	CR/C	3104	2737
111523001	UAE		YAHSAT-G6-67.5E_1	67.5	C	CR/F	3	2730
112540510	UAE		YAHSAT-G7-0E	0	A	API/A	7643	2723
112540535	UAE		YAHSAT-G7-100E	100	A	API/A	7668	2723
112540494	UAE		YAHSAT-G7-100W	-100	A	API/A	7627	2723
112540536	UAE		YAHSAT-G7-105E	105	A	API/A	7669	2723
112540512	UAE		YAHSAT-G7-10E	10	A	API/A	7645	2723
112540508	UAE		YAHSAT-G7-10W	-10	A	API/A	7641	2723
112540537	UAE		YAHSAT-G7-110E	110	A	API/A	7670	2723
112540493	UAE		YAHSAT-G7-110W	-110	A	API/A	7626	2723
112540538	UAE		YAHSAT-G7-115E	115	A	API/A	7671	2723
112540539	UAE		YAHSAT-G7-120E	120	A	API/A	7672	2723
112540492	UAE		YAHSAT-G7-120W	-120	A	API/A	7625	2723
112540540	UAE		YAHSAT-G7-125E	125	A	API/A	7673	2723
112540541	UAE		YAHSAT-G7-130E	130	A	API/A	7674	2723
112540491	UAE		YAHSAT-G7-130W	-130	A	API/A	7624	2723
112540542	UAE		YAHSAT-G7-135E	135	A	API/A	7675	2723
112540543	UAE		YAHSAT-G7-140E	140	A	API/A	7676	2723
112540490	UAE		YAHSAT-G7-140W	-140	A	API/A	7623	2723
112540544	UAE		YAHSAT-G7-150E	150	A	API/A	7677	2723
112540489	UAE		YAHSAT-G7-150W	-150	A	API/A	7622	2723
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112540545	UAE		YAHSAT-G7-160E	160	A	API/A	7678	2723
112540488	UAE		YAHSAT-G7-160W	-160	A	API/A	7621	2723
112540546	UAE		YAHSAT-G7-170E	170	A	API/A	7679	2723
112540487	UAE		YAHSAT-G7-170W	-170	A	API/A	7620	2723
112540547	UAE		YAHSAT-G7-175E	175	A	API/A	7680	2723
112540486	UAE		YAHSAT-G7-175W	-175	A	API/A	7619	2723
112540514	UAE		YAHSAT-G7-20E	20	A	API/A	7647	2723
112540506	UAE		YAHSAT-G7-20W	-20	A	API/A	7639	2723
112540515	UAE		YAHSAT-G7-25E	25	A	API/A	7648	2723
112540505	UAE		YAHSAT-G7-25W	-25	A	API/A	7638	2723
112540516	UAE		YAHSAT-G7-30E	30	A	API/A	7649	2723
112540517	UAE		YAHSAT-G7-35E	35	A	API/A	7650	2723
112540503	UAE		YAHSAT-G7-35W	-35	A	API/A	7636	2723
112540518	UAE		YAHSAT-G7-40E	40	A	API/A	7651	2723
112540501	UAE		YAHSAT-G7-45W	-45	A	API/A	7634	2723
112540500	UAE		YAHSAT-G7-50W	-50	A	API/A	7633	2723
112540522	UAE		YAHSAT-G7-52.5E	52.5	A	API/A	7655	2723
112540523	UAE		YAHSAT-G7-55E	55	A	API/A	7656	2723
112540499	UAE		YAHSAT-G7-55W	-55	A	API/A	7632	2723
112540511	UAE		YAHSAT-G7-5E	5	A	API/A	7644	2723
112540509	UAE		YAHSAT-G7-5W	-5	A	API/A	7642	2723
112540525	UAE		YAHSAT-G7-60E	60	A	API/A	7658	2723
112540498	UAE		YAHSAT-G7-60W	-60	A	API/A	7631	2723
112540526	UAE		YAHSAT-G7-63E	63	A	API/A	7659	2723
112540527	UAE		YAHSAT-G7-65E	65	A	API/A	7660	2723
112540528	UAE		YAHSAT-G7-67.5E	67.5	A	API/A	7661	2723
112540529	UAE		YAHSAT-G7-70E	70	A	API/A	7662	2723
112540497	UAE		YAHSAT-G7-70W	-70	A	API/A	7630	2723
112540530	UAE		YAHSAT-G7-75E	75	A	API/A	7663	2723
112540531	UAE		YAHSAT-G7-80E	80	A	API/A	7664	2723
112540496	UAE		YAHSAT-G7-80W	-80	A	API/A	7629	2723
112540532	UAE		YAHSAT-G7-85E	85	A	API/A	7665	2723
112540533	UAE		YAHSAT-G7-90E	90	A	API/A	7666	2723
112540495	UAE		YAHSAT-G7-90W	-90	A	API/A	7628	2723
112540534	UAE		YAHSAT-G7-95E	95	A	API/A	7667	2723
113540439	UAE		YAHSAT-G8-0E	0	A	API/A	8566	2755
113540464	UAE		YAHSAT-G8-100E	100	A	API/A	8591	2755
113540423	UAE		YAHSAT-G8-100W	-100	A	API/A	8550	2755
113540465	UAE		YAHSAT-G8-105E	105	A	API/A	8592	2755
113540441	UAE		YAHSAT-G8-10E	10	A	API/A	8568	2755
113540437	UAE		YAHSAT-G8-10W	-10	A	API/A	8564	2755
113540466	UAE		YAHSAT-G8-110E	110	A	API/A	8593	2755
113540422	UAE		YAHSAT-G8-110W	-110	A	API/A	8549	2755
113540467	UAE		YAHSAT-G8-115E	115	A	API/A	8594	2755

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113540469	UAE		YAHSAT-G8-125E	125	A	API/A	8596	2755
113540470	UAE		YAHSAT-G8-130E	130	A	API/A	8597	2755
113540420	UAE		YAHSAT-G8-130W	-130	A	API/A	8547	2755
113540471	UAE		YAHSAT-G8-135E	135	A	API/A	8598	2755
113540419	UAE		YAHSAT-G8-140W	-140	A	API/A	8546	2755
113540473	UAE		YAHSAT-G8-150E	150	A	API/A	8600	2755
113540418	UAE		YAHSAT-G8-150W	-150	A	API/A	8545	2755
113540442	UAE		YAHSAT-G8-15E	15	A	API/A	8569	2755
113540436	UAE		YAHSAT-G8-15W	-15	A	API/A	8563	2755
113540417	UAE		YAHSAT-G8-160W	-160	A	API/A	8544	2755
113540416	UAE		YAHSAT-G8-170W	-170	A	API/A	8543	2755
113540476	UAE		YAHSAT-G8-175E	175	A	API/A	8603	2755
113540415	UAE		YAHSAT-G8-175W	-175	A	API/A	8542	2755
113540443	UAE		YAHSAT-G8-20E	20	A	API/A	8570	2755
113540435	UAE		YAHSAT-G8-20W	-20	A	API/A	8562	2755
113540444	UAE		YAHSAT-G8-25E	25	A	API/A	8571	2755
113540434	UAE		YAHSAT-G8-25W	-25	A	API/A	8561	2755
113540445	UAE		YAHSAT-G8-30E	30	A	API/A	8572	2755
113540446	UAE		YAHSAT-G8-35E	35	A	API/A	8573	2755
113540432	UAE		YAHSAT-G8-35W	-35	A	API/A	8559	2755
113540447	UAE		YAHSAT-G8-40E	40	A	API/A	8574	2755
113540431	UAE		YAHSAT-G8-40W	-40	A	API/A	8558	2755
113540448	UAE		YAHSAT-G8-45E	45	A	API/A	8575	2755
113540430	UAE		YAHSAT-G8-45W	-45	A	API/A	8557	2755
113540449	UAE		YAHSAT-G8-47E	47	A	API/A	8576	2755
113540450	UAE		YAHSAT-G8-50E	50	A	API/A	8577	2755
113540452	UAE		YAHSAT-G8-55E	55	A	API/A	8579	2755
113540428	UAE		YAHSAT-G8-55W	-55	A	API/A	8555	2755
113540453	UAE		YAHSAT-G8-57E	57	A	API/A	8580	2755
113540440	UAE		YAHSAT-G8-5E	5	A	API/A	8567	2755
113540438	UAE		YAHSAT-G8-5W	-5	A	API/A	8565	2755
113540427	UAE		YAHSAT-G8-60W	-60	A	API/A	8554	2755
113540455	UAE		YAHSAT-G8-63E	63	A	API/A	8582	2755
113540456	UAE		YAHSAT-G8-65E	65	A	API/A	8583	2755
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113540426	UAE		YAHSAT-G8-70W	-70	A	API/A	8553	2755
113540459	UAE		YAHSAT-G8-75E	75	A	API/A	8586	2755
113540460	UAE		YAHSAT-G8-80E	80	A	API/A	8587	2755
113540425	UAE		YAHSAT-G8-80W	-80	A	API/A	8552	2755
113540461	UAE		YAHSAT-G8-85E	85	A	API/A	8588	2755
113540462	UAE		YAHSAT-G8-90E	90	A	API/A	8589	2755
113540424	UAE		YAHSAT-G8-90W	-90	A	API/A	8551	2755
113540463	UAE		YAHSAT-G8-95E	95	A	API/A	8590	2755
114540467	UAE		YAHSAT-G9-0E	0	A	API/A	9395	2779

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114540493	UAE		YAHSAT-G9-105E	105	A	API/A	9421	2779
114540469	UAE		YAHSAT-G9-10E	10	A	API/A	9397	2779
114540465	UAE		YAHSAT-G9-10W	-10	A	API/A	9393	2779
114540494	UAE		YAHSAT-G9-110E	110	A	API/A	9422	2779
114540450	UAE		YAHSAT-G9-110W	-110	A	API/A	9378	2779
114540495	UAE		YAHSAT-G9-115E	115	A	API/A	9423	2779
114540496	UAE		YAHSAT-G9-120E	120	A	API/A	9424	2779
114540449	UAE		YAHSAT-G9-120W	-120	A	API/A	9377	2779
114540497	UAE		YAHSAT-G9-125E	125	A	API/A	9425	2779
114540498	UAE		YAHSAT-G9-130E	130	A	API/A	9426	2779
114540448	UAE		YAHSAT-G9-130W	-130	A	API/A	9376	2779
114540499	UAE		YAHSAT-G9-135E	135	A	API/A	9427	2779
114540500	UAE		YAHSAT-G9-140E	140	A	API/A	9428	2779
114540447	UAE		YAHSAT-G9-140W	-140	A	API/A	9375	2779
114540501	UAE		YAHSAT-G9-150E	150	A	API/A	9429	2779
114540446	UAE		YAHSAT-G9-150W	-150	A	API/A	9374	2779
114540470	UAE		YAHSAT-G9-15E	15	A	API/A	9398	2779
114540464	UAE		YAHSAT-G9-15W	-15	A	API/A	9392	2779
114540502	UAE		YAHSAT-G9-160E	160	A	API/A	9430	2779
114540445	UAE		YAHSAT-G9-160W	-160	A	API/A	9373	2779
114540503	UAE		YAHSAT-G9-170E	170	A	API/A	9431	2779
114540444	UAE		YAHSAT-G9-170W	-170	A	API/A	9372	2779
114540504	UAE		YAHSAT-G9-175E	175	A	API/A	9432	2779
114540443	UAE		YAHSAT-G9-175W	-175	A	API/A	9371	2779
114540471	UAE		YAHSAT-G9-20E	20	A	API/A	9399	2779
114540463	UAE		YAHSAT-G9-20W	-20	A	API/A	9391	2779
114540472	UAE		YAHSAT-G9-25E	25	A	API/A	9400	2779
114540462	UAE		YAHSAT-G9-25W	-25	A	API/A	9390	2779
114540473	UAE		YAHSAT-G9-30E	30	A	API/A	9401	2779
114540461	UAE		YAHSAT-G9-30W	-30	A	API/A	9389	2779
114540474	UAE		YAHSAT-G9-35E	35	A	API/A	9402	2779
114540460	UAE		YAHSAT-G9-35W	-35	A	API/A	9388	2779
114540475	UAE		YAHSAT-G9-40E	40	A	API/A	9403	2779
114540459	UAE		YAHSAT-G9-40W	-40	A	API/A	9387	2779
114540476	UAE		YAHSAT-G9-45E	45	A	API/A	9404	2779
114540477	UAE		YAHSAT-G9-47E	47	A	API/A	9405	2779
114540457	UAE		YAHSAT-G9-50W	-50	A	API/A	9385	2779
114540479	UAE		YAHSAT-G9-52.5E	52.5	A	API/A	9407	2779
114540480	UAE		YAHSAT-G9-55E	55	A	API/A	9408	2779
114540481	UAE		YAHSAT-G9-57E	57	A	API/A	9409	2779
114540468	UAE		YAHSAT-G9-5E	5	A	API/A	9396	2779
114540466	UAE		YAHSAT-G9-5W	-5	A	API/A	9394	2779
114540482	UAE		YAHSAT-G9-60E	60	A	API/A	9410	2779

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114540483	UAE		YAHSAT-G9-63E	63	A	API/A	9411	2779
114540484	UAE		YAHSAT-G9-65E	65	A	API/A	9412	2779
114540485	UAE		YAHSAT-G9-67.5E	67.5	A	API/A	9413	2779
114540486	UAE		YAHSAT-G9-70E	70	A	API/A	9414	2779
114540487	UAE		YAHSAT-G9-75E	75	A	API/A	9415	2779
114540488	UAE		YAHSAT-G9-80E	80	A	API/A	9416	2779
114540489	UAE		YAHSAT-G9-85E	85	A	API/A	9417	2779
114540490	UAE		YAHSAT-G9-90E	90	A	API/A	9418	2779
114540452	UAE		YAHSAT-G9-90W	-90	A	API/A	9380	2779
114540491	UAE		YAHSAT-G9-95E	95	A	API/A	9419	2779
108520229	UAE		YAHSAT-KA-52.5E	52.5	C	CR/C	2293	2806
108520140	UAE		YAHSAT-KA-47.5E	47.5	C	CR/C	2235	2806
109520029	UAE		YAHSAT-N-20W	-20	C	CR/C	2375	2772
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
115540627	UKR		UKRSAT-KA-45.0E	45	A	API/A	10500	2800
109520255	UKR		UKRSAT-43E	43	C	CR/C	2498	2684
112541113	UKR		UKRSAT-53.0E	53	A	API/A	7846	2734
108520133	UKR		UKRSAT-KA-38.2E	38.2	C	CR/C	2322	2759
110520405	UKR		UKRSAT-KA-46.5E	46.5	C	CR/C	2781	2708
114540280	UKR		UKRSAT-KA-47.0E	47	A	API/A	9251	2775
113520003	UKR		UKRSAT-KA-53.2E	53.2	C	CR/C	3390	2765
113520003	UKR		UKRSAT-KA-53.2E	53.2	C	CR/E	577	2765
109500801	URG		VENESAT-1	-78	N	PART	2	2677
115540656	USA		GOES-4-105W	-105	A	API/A	10532	2800
115540657	USA		GOES-4-89.5W	-89.5	A	API/A	10533	2800
115540648	USA		P92-3A	-10	A	API/A	10524	2800
115540654	USA		P92-4A	-13	A	API/A	10530	2800
115540653	USA		P92-5A	-141	A	API/A	10529	2800
115540652	USA		P92-6A	-144	A	API/A	10528	2800
115540651	USA		P92-7A	-30.4	A	API/A	10527	2800
115540650	USA		P92-8A	92	A	API/A	10526	2800
115540649	USA		P92-9A	110	A	API/A	10525	2800
115540755	USA		USABSN-25	-75	A	API/A	10638	2801
115540840	USA		USASAT-50F	169	A	API/A	10723	2808
	USA		USASAT-60V	169	A			
115540816	USA		USASAT-80B	60	A	API/A	10698	2804
115540802	USA		USGAE-11A	93	A	API/A	10683	2804

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115540804	USA		USGAE-14A	-16.5	A	API/A	10685	2804
115540805	USA		USGAE-15A	-31.5	A	API/A	10686	2804
115540806	USA		USGAE-18A	-155	A	API/A	10687	2804
115540807	USA		USGAE-23A	19	A	API/A	10688	2804
115540824	USA		USGAE-25A	-128	A	API/A	10706	2805
115540825	USA		USGAE-26A	-97	A	API/A	10707	2805
115540826	USA		USGAE-27A	-109	A	API/A	10708	2805
115540798	USA		USGAE-3A	90	A	API/A	10679	2804
115540799	USA		USGAE-5A	55	A	API/A	10680	2804
115540800	USA		USGAE-6A	-120	A	API/A	10681	2804
115540801	USA		USGAE-8A	-9	A	API/A	10682	2804
102500532	USA		ACS-1	-101	N	PART	2	2636
103500278	USA		AFRIBSS	21	N	PART	2	2562
90500615	USA		ASC-1	-128	N	PART	1	2792
90500611	USA		ATS-5	-105	N	PART	2	
90500525	USA		COMSTAR D-2	-95	N	PART	2	
90500265	USA		FLTSATCOM ATL	-23	N	PART	2	
90500266	USA		FLTSATCOM E PAC	-100	N	PART	2	
90500264	USA		FLTSATCOM W PAC	172	N	PART	2	
110500043	USA		FLTSATCOM-A INDOC-4	100	N	PART	2	2706
93500633	USA		FLTSATCOM-C E ATL-1	-22.5	N	PART	2	2505
93500634	USA		FLTSATCOM-C E ATL-2	-15.5	N	PART	2	2497
93500149	USA		FLTSATCOM-C E PAC-1	-105	N	PART	2	2442
93500148	USA		FLTSATCOM-C E PAC-2	-100	N	PART	2	2481
93500635	USA		FLTSATCOM-C INDOC-1	29	N	PART	2	2497
93500636	USA		FLTSATCOM-C INDOC-2	72	N	PART	2	2498
93500637	USA		FLTSATCOM-C INDOC-3	75	N	PART	2	2500
93500640	USA		FLTSATCOM-C W PAC-1	172	N	PART	2	2504
93500641	USA		FLTSATCOM-C W PAC-2	-177	N	PART	2	2502
93500147	USA		FLTSATCOM-C W PAC-3	-145	N	PART	1	2621
112500200	USA		GOES 60W	-60	N	PART	2	2755
90500361	USA		GOES EAST	-75	N	PART	2	
90500362	USA		GOES WEST	-135	N	PART	2	
103500401	USA		GOES-EAST-1	-75	N	PART	2	2692
111500113	USA		GOES-EAST-2	-75	N	PART	2	2730
114520097	USA		GOES-EAST-4	-75	C	CR/C	3606	2805
103500402	USA		GOES-WEST-1	-135	N	PART	2	2718
111500112	USA		GOES-WEST-2	-135	N	PART	2	2732
114520098	USA		GOES-WEST-4	-137	C	CR/C	3607	2805
90501108	USA		INTELSAT IBS 307E	-53	N	PART	1	2764
106500581	USA		INTELSAT KFOS 85E	85	N	PART	2	2683
106500076	USA		INTELSAT10 310E	-50	N	PART	1	2808
107500486	USA		INTELSAT10 359E	-1	N	PART	2	2683
106500249	USA		INTELSAT5 33E	33	N	PART	2	2644

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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
107500324	USA		INTELSAT6 85E	85	N	PART	2	2681
102500192	USA		INTELSAT7 157E	157	N	PART	1	2810
96500027	USA		INTELSAT7 177E	177	N	PART	2	2690
98500067	USA		INTELSAT7 180E	180	N	PART	2	2764
102500193	USA		INTELSAT7 304.5E	-55.5	N	PART	2	2681
96500437	USA		INTELSAT7 307E	-53	N	PART	2	2585
110520259	USA		INTELSAT7 307E_1	-55.5	C	CR/C	2716	2702
95500117	USA		INTELSAT7 310E	-50	N	PART	1	2808
102500182	USA		INTELSAT7 325.5E	-34.5	N	PART	2	2713
102500183	USA		INTELSAT7 332.5E	-27.5	N	PART	2	2713
102500184	USA		INTELSAT7 335.5E	-24.5	N	PART	2	2713
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	2713
94500331	USA		INTELSAT7 359E	-1	N	PART	2	2690
103500005	USA		INTELSAT7 62E	62	N	PART	1	2728
103500006	USA		INTELSAT7 64E	64	N	PART	1	2728
95500027	USA		INTELSAT7 66E	66	N	PART	1	2803
102500011	USA		INTELSAT7 85E	85	N	PART	2	2690
101500003	USA		INTELSAT8 304.5E	-55.5	N	PART	2	2591
103500100	USA		INTELSAT8 307E	-53	N	PART	1	2762
101500422	USA		INTELSAT8 325.5E	-34.5	N	PART	2	2713
100500175	USA		INTELSAT8 328.5E	-31.5	N	PART	2	2531
102500442	USA		INTELSAT8 330.5E	-29.5	N	PART	1	2784
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	2713
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	1	2728
99500053	USA		INTELSAT8 64E	64	N	PART	1	2764
102500012	USA		INTELSAT8 85E	85	N	PART	2	2690
107500311	USA		INTELSAT9 304.5E	-55.5	N	PART	2	2679
107500312	USA		INTELSAT9 307E	-53	N	PART	1	2759
107500329	USA		INTELSAT9 310E	-50	N	PART	1	2808

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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
111520466	USA		IRIS-10A	29	C	CR/C	3088	2737
111520467	USA		IRIS-11A	125	C	CR/C	3089	2737
111520457	USA		IRIS-1A	-105	C	CR/C	3079	2737
114500079	USA		IRIS-2A	-100	N	PART	2	2810
111520459	USA		IRIS-3A	-22.5	C	CR/C	3081	2737
111520460	USA		IRIS-4A	-15.5	C	CR/C	3082	2737
111520461	USA		IRIS-5A	72	C	CR/C	3083	2737
111520462	USA		IRIS-6A	75	C	CR/C	3084	2737
111520463	USA		IRIS-7A	172	C	CR/C	3085	2737
112500263	USA		IRIS-8A	-177	N	PART	2	2760
111520465	USA		IRIS-9A	-145	C	CR/C	3087	2737
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
109500413	USA		LM-RPS-133W	-133	N	PART	2	2663
106500580	USA		MCS-1	-101	N	PART	2	2735
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
112500239	USA		MSV-1A	-101	N	PART	2	2745
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	2710
110520195	USA		P-197-8	110	C	CR/C	2676	2710

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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
110520130	USA		P92-7	-30.4	C	CR/C	2668	2700
114500126	USA		P92-8	92	N	PART	2	2793
110520132	USA		P92-9	110	C	CR/C	2670	2710
108501124	USA		TDRS 12W	-12	N	PART	2	2719
113500184	USA		TDRS 12W-R	-12	N	PART	2	2808
112500034	USA		TDRS 164.2W	-164.2	N	PART	2	2728
112500082	USA		TDRS 167.5W	-167.5	N	PART	2	2797
90500641	USA		TDRS 174W	-174	N	PART	2	2759
93500227	USA		TDRS 46W	-46	N	PART	2	2760
101500534	USA		TDRS 49W	-49	N	PART	2	2760
91910045	USA		TDRS 62W	-62	N	PART	2	2760
95500076	USA		TDRS 85E	85	N	PART	2	2760
108501062	USA		TDRS 89E	89	N	PART	2	2779
90500644	USA		TDRS CENTRAL	-79	N	PART	2	
90500646	USA		TDRS EAST	-41	N	PART	2	2759
90500647	USA		TDRS WEST	-171	N	PART	2	2760
91910108	USA		TDRS-C2	-79	N	PART	2	2760
108500041	USA		TDRS-EAST-ISS	-41	N	PART	2	2660
109520058	USA		USABSN-12A	-103	C	CR/C	2389	2648
113520158	USA		USABSN-12B	-102.8	C	CR/C	3410	2770
109520059	USA		USABSN-13A	-99	C	CR/C	2390	2648
108540238	USA		USABSN-21	-79	A	API/A	5132	2620
109520003	USA		USABSN-22	-70	C	CR/C	2401	2667
113520186	USA		USABSN-24	-95.15	C	CR/C	3431	2772
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	2767
99500089	USA		USABSS-2	-100.8	N	PART	2	2715
113500126	USA		USABSS-21	-101	N	PART	2	2765
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	1	2688
98500237	USA		USABSS-8	-61.5	N	PART	2	2453
96500511	USA		USASAT-13I	-45	N	PART	2	2574
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	1	2810
109500585	USA		USASAT-14I-3	68.5	N	PART	1	2809
101500405	USA		USASAT-14J	72	N	PART	2	2690
105500377	USA		USASAT-14J-2	72	N	PART	1	2810
103500458	USA		USASAT-14K	172	N	PART	2	2709

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99500140	USA		USASAT-21A	-135	N	PART	2	2770
104500020	USA		USASAT-22A	-133	N	PART	2	2553
101500395	USA		USASAT-22B	-125	N	PART	2	2549
99500142	USA		USASAT-22G	-137	N	PART	2	2770
99500141	USA		USASAT-22H	-131	N	PART	2	2770
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	2764
106500094	USA		USASAT-23G	-121	N	PART	2	2711
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	2770
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	2713
103500020	USA		USASAT-24P	-123	N	PART	2	2764
105500167	USA		USASAT-24Q	-77	N	PART	2	2713
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	2770
110500270	USA		USASAT-25A-1	-37.5	N	PART	2	2739
101500251	USA		USASAT-25C	-43	N	PART	2	2665
104500278	USA		USASAT-25D	-45	N	PART	1	2792
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
111500213	USA		USASAT-28K	-85.2	N	PART	2	2719
111500010	USA		USASAT-28L	-96	N	PART	2	2701
112500191	USA		USASAT-28N	-116.15	N	PART	2	2791
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

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105500086	USA		USASAT-31N	-99	N	PART	2	2651
105500164	USA		USASAT-31S	-89	N	PART	2	2651
105500183	USA		USASAT-31U	-85	N	PART	2	2652
108501176	USA		USASAT-35A	-131	N	PART	2	2657
108501064	USA		USASAT-35C	-127	N	PART	2	2653
107500538	USA		USASAT-35D	-125	N	PART	2	2631
108501117	USA		USASAT-35E	-123	N	PART	2	2655
105500476	USA		USASAT-35G	-105	N	PART	2	2652
105500502	USA		USASAT-35H	-103	N	PART	2	2655
105500501	USA		USASAT-35I	-101	N	PART	2	2656
108501094	USA		USASAT-35J	-99	N	PART	2	2652
105500494	USA		USASAT-35K	-97	N	PART	2	2652
105500381	USA		USASAT-35L	-95	N	PART	2	2652
105500493	USA		USASAT-35M	-93	N	PART	2	2652
105500380	USA		USASAT-35N	-91	N	PART	2	2653
105500477	USA		USASAT-35O	-89	N	PART	2	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
105500514	USA		USASAT-35W	-72	N	PART	2	2653
108501147	USA		USASAT-35Y	-133	N	PART	2	2653
112500057	USA		USASAT-50A	-127	N	PART	2	2730
111500117	USA		USASAT-50B	-133	N	PART	2	2714
111500130	USA		USASAT-50C	-125	N	PART	2	2730
111500203	USA		USASAT-50D	-43	N	PART	2	2719
110500255	USA		USASAT-55F	-43	N	PART	2	2697
111500075	USA		USASAT-55I	33	N	PART	2	2705
114500147	USA		USASAT-55J	-1	N	PART	2	2799
110520098	USA		USASAT-55K	-31.5	C	CR/C	2616	2692
111520001	USA		USASAT-55L	169	C	CR/C	2836	2716
111520001	USA		USASAT-55L	169	C	CR/E	141	2716
110520099	USA		USASAT-55M	-58	C	CR/C	2617	2673
110520100	USA		USASAT-55N	85	C	CR/C	2655	2677
113500138	USA		USASAT-55O	-50	N	PART	2	2763
111520051	USA		USASAT-55P	-29.5	C	CR/C	2827	2712
111520218	USA		USASAT-55Q	66	C	CR/C	2950	2703
111520454	USA		USASAT-55R	180	C	CR/C	3068	2720
112520406	USA		USASAT-55S	-58	C	CR/C	3237	2749
112520406	USA		USASAT-55S	-58	C	CR/E	431	2749
112520470	USA		USASAT-55T	-53	C	CR/C	3299	2756
113520208	USA		USASAT-55U	-55.5	C	CR/C	3443	2774
113520078	USA		USASAT-55V	169	C	CR/C	3372	2762
113520078	USA		USASAT-55V	169	C	CR/E	553	2762
113520177	USA		USASAT-55W	-79	C	CR/C	3423	2771

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113540126	USA		USASAT-55X	65.45	A	API/A	8320	2748
114520011	USA		USASAT-55Y	-76	C	CR/C	3534	2787
110500296	USA		USASAT-60A	172	N	PART	2	2721
111500015	USA		USASAT-60B	166	N	PART	2	2707
110500059	USA		USASAT-60C	68.5	N	PART	1	2810
111500131	USA		USASAT-60E	-91	N	PART	2	2730
111500132	USA		USASAT-60F	-95	N	PART	2	2739
111500155	USA		USASAT-60G	-99	N	PART	2	2730
112500081	USA		USASAT-60H	-123	N	PART	2	2731
109500408	USA		USASAT-60I	-45	N	PART	2	2698
110500254	USA		USASAT-60J	169	N	PART	2	2698
111500108	USA		USASAT-60N	33	N	PART	2	2710
110520101	USA		USASAT-60O	50.75	C	CR/C	2618	2673
111520022	USA		USASAT-60P	-31.5	C	CR/C	2795	2716
111520022	USA		USASAT-60P	-31.5	C	CR/E	47	2716
112520202	USA		USASAT-60Q	157	C	CR/C	3218	2746
112520423	USA		USASAT-60R	72	C	CR/C	3264	2750
112520423	USA		USASAT-60R	72	C	CR/E	457	2750
113520012	USA		USASAT-60S	-43	C	CR/C	3374	2764
113520082	USA		USASAT-60T	-45	C	CR/C	3375	2764
114520014	USA		USASAT-60U	-95	C	CR/C	3540	2788
115520001	USA		USASAT-66D	-15	C	CR/C	3733	2798
112500097	USA		USASAT-70O	-95	N	PART	2	2734
111500227	USA		USASAT-70V	-99.2	N	PART	2	2719
111500228	USA		USASAT-70W	-102.8	N	PART	2	2719
110520103	USA		USASAT-71J	-89	C	CR/C	2622	2722
113520053	USA		USASAT-71L	-107.1	C	CR/C	3442	2774
113520073	USA		USASAT-71M	-77.3	C	CR/C	3373	2764
113520093	USA		USASAT-71N	68.5	C	CR/C	3388	2764
113520093	USA		USASAT-71N	68.5	C	CR/E	574	2764
101500073	USA		USASAT-7D	-101	N	PART	2	2690
114520034	USA		USASAT-80A	-50	C	CR/C	3562	2805
101500396	USA		USASAT-9A	-91	N	PART	2	2690
101500077	USA		USASAT-9C	-85	N	PART	2	2720
104500352	USA		USCSID-A1	0	N	PART	1	2761
104500353	USA		USCSID-A2	44	N	PART	1	2761
104500354	USA		USCSID-A3	75	N	PART	1	2761
104500355	USA		USCSID-A4	82	N	PART	1	2761
104500356	USA		USCSID-A5	92	N	PART	1	2761
104500357	USA		USCSID-A6	110	N	PART	1	2761
104500358	USA		USCSID-E1	-10	N	PART	1	2761
104500359	USA		USCSID-E2	-13	N	PART	1	2761
104500360	USA		USCSID-E3	-24	N	PART	1	2761
104500361	USA		USCSID-E4	-30	N	PART	1	2761
104500362	USA		USCSID-W1	-141	N	PART	1	2761

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104500363	USA		USCSID-W2	-144	N	PART	1	2761
106500292	USA		USDKH2	-30.4	N	PART	2	2667
104500514	USA		USGAE-1	-90	N	PART	2	2633
109500620	USA		USGAE-10R	-150	N	PART	2	2680
109520218	USA		USGAE-11M	93	C	CR/C	2462	2678
109520219	USA		USGAE-12M	111	C	CR/C	2463	2678
109520220	USA		USGAE-13M	96	C	CR/C	2464	2678
109520221	USA		USGAE-14M	-16.5	C	CR/C	2465	2678
109520222	USA		USGAE-15M	-31.5	C	CR/C	2466	2678
109500625	USA		USGAE-16R	30	N	PART	2	2699
109500621	USA		USGAE-17R	-39	N	PART	2	2680
109520223	USA		USGAE-18M	-155	C	CR/C	2467	2678
104500515	USA		USGAE-2	4	N	PART	2	2634
109520224	USA		USGAE-23M	19	C	CR/C	2468	2678
109520213	USA		USGAE-3M	90	C	CR/C	2457	2678
104500516	USA		USGAE-4	177.5	N	PART	2	2634
109520214	USA		USGAE-5M	55	C	CR/C	2458	2678
109520215	USA		USGAE-6M	-120	C	CR/C	2459	2678
113500214	USA		USGAE-7M	-68	N	PART	2	2808
109520217	USA		USGAE-8M	-9	C	CR/C	2461	2678
109500486	USA		USGAE-9R	152	N	PART	2	2699
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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104500571	USA		USGON-5	-38	N	PART	2	2594
104500572	USA		USGON-6	145	N	PART	2	2594
104500573	USA		USGON-7	-145	N	PART	2	2593
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
111520031	USA		USGOVSAT-16R	24	C	CR/C	2806	2710
111520032	USA		USGOVSAT-18R	78.5	C	CR/C	2807	2710
111520033	USA		USGOVSAT-19R	86	C	CR/C	2808	2710
110520407	USA		USGOVSAT-1R	180	C	CR/C	2763	2707
111520034	USA		USGOVSAT-20R	134	C	CR/C	2809	2710
110520408	USA		USGOVSAT-2R	-151	C	CR/C	2764	2707
115500014	USA		USGOVSAT-3R	-135	N	PART	2	2808
110520410	USA		USGOVSAT-4R	-130	C	CR/C	2766	2707
110520411	USA		USGOVSAT-5R	-112	C	CR/C	2767	2707
114500163	USA		USGOVSAT-6R	-52.5	N	PART	2	2802
110520413	USA		USGOVSAT-7R	-42.5	C	CR/C	2769	2707
111500009	USA		USGOVSAT-8	-12	N	PART	2	2716
110520414	USA		USGOVSAT-9R	57	C	CR/C	2770	2707
95500286	USA		USLL-ATL	-10	N	PART	2	2240
104500333	USA		USLL-ATL2	-12.5	N	PART	2	2603
112520129	USA		USLL-ATL3	-30.4	C	CR/C	3167	2729
95500289	USA		USLL-PAC	-144	N	PART	2	2278
104500334	USA		USLL-PAC2	-141	N	PART	2	2602
112520130	USA		USLL-PAC3	92	C	CR/C	3168	2729
112520131	USA		USLL-PAC4	100	C	CR/C	3169	2729
112520132	USA		USLL-PAC5	110	C	CR/C	3170	2729
112520133	USA		USLL-PAC6	-127	C	CR/C	3171	2729
104500339	USA		USMB-1	-61	N	PART	1	2761
104500348	USA		USMB-10	75	N	PART	1	2761
114520136	USA		USMB-10A	75	C	CR/C	3666	2803
104500349	USA		USMB-11	82	N	PART	1	2761
114520137	USA		USMB-11A	82	C	CR/C	3667	2803
104500350	USA		USMB-12	92	N	PART	1	2761
114520138	USA		USMB-12A	92	C	CR/C	3668	2803
104500351	USA		USMB-13	106.5	N	PART	1	2761
104500340	USA		USMB-2	-30	N	PART	1	2761
104500341	USA		USMB-3	-19	N	PART	1	2761
104500342	USA		USMB-4	-10	N	PART	1	2761
114520134	USA		USMB-4A	-10	C	CR/C	3664	2803
104500343	USA		USMB-5	5	N	PART	1	2761
104500344	USA		USMB-6	7	N	PART	1	2761
104500345	USA		USMB-7	33	N	PART	1	2761

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104500346	USA		USMB-8	49	N	PART	1	2761
114520135	USA		USMB-8A	49	C	CR/C	3665	2803
104500347	USA		USMB-9	62	N	PART	1	2761
114540575	USA		USNN-1	-65	A	API/A	9507	2779
112500259	USA		USNN-3	-127	N	PART	2	2779
112500260	USA		USNN-4	100	N	PART	2	2792
111520231	USA		USNN-5	170	C	CR/C	2959	2722
111520479	USA		USOBO-10A	130.6	C	CR/C	3099	2737
111520480	USA		USOBO-11A	139	C	CR/C	3100	2737
113520166	USA		USOBO-12A	51.5	C	CR/C	3416	2770
114540844	USA		USOBO-17A	51.5	A	API/A	9756	2788
111520470	USA		USOBO-1A	-159.4	C	CR/C	3090	2737
106500112	USA		USOBO-2	-96.8	N	PART	2	2638
111520471	USA		USOBO-2A	-96.8	C	CR/C	3091	2737
106500113	USA		USOBO-3	-49.4	N	PART	2	2667
111520472	USA		USOBO-3A	-49.4	C	CR/C	3092	2744
111520473	USA		USOBO-4A	-21.2	C	CR/C	3093	2737
111520474	USA		USOBO-5A	20.6	C	CR/C	3094	2737
111520475	USA		USOBO-6A	66	C	CR/C	3095	2737
111520476	USA		USOBO-7A	73	C	CR/C	3096	2737
111520477	USA		USOBO-8A	87.5	C	CR/C	3097	2737
111520478	USA		USOBO-9A	94	C	CR/C	3098	2737
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
114540177	USA		USWASP-1	-74	A	API/A	9119	2772
114540178	USA		USWASP-2	68.9	A	API/A	9120	2772
114540179	USA		USWASP-3	114	A	API/A	9121	2772
115540774	VTN		VNSAT-4A1	90	A	API/A	10655	2803
115540765	VTN		VNSAT-4A10	135	A	API/A	10646	2803
115540764	VTN		VNSAT-4A11	140	A	API/A	10645	2803
115540810	VTN		VNSAT-4A12	102	A	API/A	10691	2804
115540811	VTN		VNSAT-4A13	107	A	API/A	10692	2804
115540812	VTN		VNSAT-4A14	112	A	API/A	10693	2804
115540813	VTN		VNSAT-4A15	127	A	API/A	10694	2804
115540814	VTN		VNSAT-4A16	132	A	API/A	10695	2804
115540815	VTN		VNSAT-4A17	137	A	API/A	10696	2804
115540773	VTN		VNSAT-4A2	95	A	API/A	10654	2803
115540772	VTN		VNSAT-4A3	100	A	API/A	10653	2803
115540771	VTN		VNSAT-4A4	105	A	API/A	10652	2803

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115540770	VTN		VNSAT-4A5	110	A	API/A	10651	2803
115540769	VTN		VNSAT-4A6	115	A	API/A	10650	2803
115540768	VTN		VNSAT-4A7	120	A	API/A	10649	2803
115540767	VTN		VNSAT-4A8	125	A	API/A	10648	2803
115540766	VTN		VNSAT-4A9	130	A	API/A	10647	2803
109520281	VTN		VIETSAT-132	131.9	C	CR/C	2527	2685
109520050	VTN		VINASAT-1C1	107	C	CR/C	2382	2663
109500237	VTN		VINASAT-4A2	132	N	PART	2	2691
110500104	VTN		VINASAT-4A3	132	N	PART	2	2711
111500107	VTN		VINASAT-TTC	132	N	PART	2	2709
112540605	VTN		VNSAT-100E	100	A	API/A	7736	2727
112540606	VTN		VNSAT-105E	105	A	API/A	7737	2727
112520441	VTN		VNSAT-112.5E	112.5	C	CR/C	3301	2756
112540608	VTN		VNSAT-115E	115	A	API/A	7739	2727
112540609	VTN		VNSAT-120E	120	A	API/A	7740	2727
112540610	VTN		VNSAT-125E	125	A	API/A	7741	2727
112540611	VTN		VNSAT-130E	130	A	API/A	7742	2727
112540612	VTN		VNSAT-140E	140	A	API/A	7743	2727
111520368	VTN		VNSAT-1A3	117.5	C	CR/C	3002	2727
113540073	VTN		VNSAT-2A1	90	A	API/A	8288	2745
114520279	VTN		VNSAT-2A2	97.5	C	CR/C	3731	2798
113540075	VTN		VNSAT-2A3	105	A	API/A	8290	2745
113540076	VTN		VNSAT-2A4	110	A	API/A	8291	2745
113540077	VTN		VNSAT-2A5	115	A	API/A	8292	2745
113540078	VTN		VNSAT-2A6	120	A	API/A	8293	2745
113540079	VTN		VNSAT-2A7	125	A	API/A	8294	2745
113540080	VTN		VNSAT-2A8	130	A	API/A	8295	2745
113540081	VTN		VNSAT-2A9	140	A	API/A	8296	2745
114540376	VTN		VNSAT-3A1	90	A	API/A	9315	2777
114540385	VTN		VNSAT-3A10	135	A	API/A	9324	2777
114540386	VTN		VNSAT-3A11	140	A	API/A	9325	2777
114540377	VTN		VNSAT-3A2	95	A	API/A	9316	2777
114540378	VTN		VNSAT-3A3	100	A	API/A	9317	2777
114540379	VTN		VNSAT-3A4	105	A	API/A	9318	2777
114540380	VTN		VNSAT-3A5	110	A	API/A	9319	2777
114540381	VTN		VNSAT-3A6	115	A	API/A	9320	2777
114540382	VTN		VNSAT-3A7	120	A	API/A	9321	2777
114540383	VTN		VNSAT-3A8	125	A	API/A	9322	2777
114540384	VTN		VNSAT-3A9	130	A	API/A	9323	2777
112540604	VTN		VNSAT-90E	90	A	API/A	7735	2727

ANNEX 1B

Table 1B.1: List of non-geostationary space networks for which information has been communicated to the Bureau up to 31.12.2015 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	ifc_no
114540103	AFS		DYNACUBE	N-GSO	A	API/A	9093	2780
112541105	AFS		ZACUBE-1	N-GSO	A	API/A	8029	2744
115545046	ALG		ALSAT-1B	N-GSO	A	API/A	10523	2801
108500677	ALG		ALSAT-2	N-GSO	N	PART	2	2682
114540175	ARG		BUGSAT-1	N-GSO	A	API/A	9126	2786
112540816	ARG		CUBEBUG-1	N-GSO	A	API/A	7924	2741
113540571	ARG		CUBEBUG-2	N-GSO	A	API/A	8699	2767
113540573	ARG		CUBEBUG-2-C	N-GSO	A	API/A	8700	2767
107500106	ARG		LATINSAT	N-GSO	N	PART	2	2742
111500129	ARG		SAC-D	N-GSO	N	PART	2	2732
109500037	ARS		SAUDISAT-1C	N-GSO	N	PART	2	2667
109500038	ARS		SAUDISAT-2	N-GSO	N	PART	2	2697
113540410	ARS		SAUDISAT-4	N-GSO	A	API/A	8755	2773
113540411	ARS		SAUDISAT-5	N-GSO	A	API/A	8756	2773
113540412	ARS		SAUDISAT-6	N-GSO	A	API/A	8757	2773
113520061	AUS		SIRION-1	N-GSO	C	CR/C	3364	2762
112500204	AUT		BRITE	N-GSO	N	PART	2	2745
114540761	AZE		AZERSKY	N-GSO	A	API/A	9733	2808
114540699	B		AESP-14	N-GSO	A	API/A	9615	2798
99500244	B		MECB/SCD-2	N-GSO	N	PART	2	2744
92500233	B		MECB-S1	N-GSO	N	PART	2	2744
114540094	B		NANOSATC-BR1	N-GSO	A	API/A	9086	2781
100500350	B		SACI-1	N-GSO	N	PART	2	2744
114540711	B		SERPENS	N-GSO	A	API/A	9626	2799
115545006	B		UBATUBASAT	N-GSO	A	API/A	9960	2805
112500002	BEL		OUFIT-1	N-GSO	N	PART	2	2764
114540261	BEL		PACE	N-GSO	A	API/A	9203	2786
114500074	BEL		QB50P	N-GSO	N	PART	2	2797
111500071	BLR		BKA	N-GSO	N	PART	2	2728
115540472	CAN		102	N-GSO	A	API/A	10345	2800
114500168	CAN		ADS	N-GSO	N	PART	2	2805
113540414	CAN		BRITE-CANADA	N-GSO	A	API/A	8704	2767
112520149	CAN		CANPOL	N-GSO	C	CR/C	3180	2745
113520282	CAN		CANPOL-2	N-GSO	C	CR/C	3474	2800
105500390	CAN		CANX-2	N-GSO	N	PART	2	2639
113540578	CAN		CANX-4-5	N-GSO	A	API/A	8713	2767
111500036	CAN		CASCADE-CX	N-GSO	N	PART	2	2770
111500205	CAN		CASSIOPE-1A	N-GSO	N	PART	2	2770

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
112520490	CAN		COMMSTELLATION	N-GSO	C	CR/C	3313	2806
115520156	CAN		EV9	N-GSO	C	CR/C	3852	2810
113540650	CAN		GHGSAT-D	N-GSO	A	API/A	8848	2773
108540431	CAN		JC2SAT	N-GSO	A	API/A	5274	2640
114500014	CAN		M3MSAT	N-GSO	N	PART	2	2781
101500359	CAN		MOST-1	N-GSO	N	PART	2	2520
113500077	CAN		NEOSSAT-1A	N-GSO	N	PART	2	2770
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
112500061	CAN		RADARSAT-3B	N-GSO	N	PART	2	2731
112500019	CAN		SAPPHIRE	N-GSO	N	PART	2	2744
101500360	CAN		SCISAT-1	N-GSO	N	PART	2	2740
109500900	CHL		SSOT	N-GSO	N	PART	2	2714
114540706	CHL		SUCHAI	N-GSO	A	API/A	9621	2799
115540378	CHN		FORTRAN	N-GSO	A	API/A	10251	2799
115540850	CHN		ITS-B-1	N-GSO	A	API/A	10734	2809
115540701	CHN		XUNYING	N-GSO	A	API/A	10584	2801
105500389	CHN		BLMIT-1	N-GSO	N	PART	2	2607
115545040	CHN		CAS-3	N-GSO	A	API/A	10121	2810
111500094	CHN		CBERS-02C	N-GSO	N	PART	2	2720
102500234	CHN		CBERS-1	N-GSO	N	PART	2	2570
111500092	CHN		CBERS-2	N-GSO	N	PART	2	2720
111500093	CHN		CBERS-3	N-GSO	N	PART	2	2720
107500391	CHN		CE-1	N-GSO	N	PART	2	2646
103500420	CHN		COMPASS-H	N-GSO	N	PART	2	2596
112520031	CHN		COMPASS-IGSO	N-GSO	C	CR/C	3118	2741
103500421	CHN		COMPASS-M	N-GSO	N	PART	2	2596
110520285	CHN		COMPASS-MEO	N-GSO	C	CR/C	2740	2742
100500426	CHN		FY-1	N-GSO	N	PART	2	2709
107500440	CHN		FY-3	N-GSO	N	PART	2	2645
113540409	CHN		FY-3-A	N-GSO	A	API/A	8698	2767
113500033	CHN		GC-1	N-GSO	N	PART	2	2774
113500090	CHN		GC-2	N-GSO	N	PART	2	2760
114540070	CHN		GC-3	N-GSO	A	API/A	9047	2778
112541103	CHN		GC-5	N-GSO	A	API/A	8027	2744
108501091	CHN		HJ-1-ABC	N-GSO	N	PART	2	2654
112540821	CHN		HXMT	N-GSO	A	API/A	7922	2741
102500235	CHN		HY-1	N-GSO	N	PART	2	2570
111500105	CHN		HY-2	N-GSO	N	PART	2	2790
113500034	CHN		LUNAR LANDER	N-GSO	N	PART	2	2750
115545019	CHN		LUNAR ORBITER-A	N-GSO	A	API/A	9955	2804
115545020	CHN		LUNAR ORBITER-B	N-GSO	A	API/A	9956	2804
113500035	CHN		LUNAR ROVER	N-GSO	N	PART	2	2750
108540424	CHN		MARS EXPLORER-1B	N-GSO	A	API/A	5267	2640
114540762	CHN		MCSCS	N-GSO	A	API/A	9734	2789
108500706	CHN		NUAA-1	N-GSO	N	PART	2	2752
114540703	CHN		SECM-1	N-GSO	A	API/A	9616	2798
112500178	CHN		SHENZHO	N-GSO	N	PART	2	2749

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ifc_no
112500156	CHN		SJ-9	N-GSO	N	PART	2	2738
114540102	CHN		SPPOSS-2-01	N-GSO	A	API/A	9087	2780
113540067	CHN		SPPOSS-3-01	N-GSO	A	API/A	8326	2758
115545051	CHN		SPPOSS-4-01	N-GSO	A	API/A	10555	2802
108540411	CHN		TIANWANG	N-GSO	A	API/A	5265	2639
114540708	CHN		TIANZHOU	N-GSO	A	API/A	9623	2797
114540763	CHN		TXIN	N-GSO	A	API/A	9735	2790
109500242	CHN		XW-1	N-GSO	N	PART	2	2667
114540663	CHN		ZH-1	N-GSO	A	API/A	9576	2794
111500191	CHN		ZIYUAN-3	N-GSO	N	PART	2	2718
115545041	CHN		ZIYUAN-3-02	N-GSO	A	API/A	10123	2809
115520100	CYP		ANDROMEDA-A	N-GSO	C	CR/C	3846	2809
115545034	CZE		LUCKY-7	N-GSO	A	API/A	9963	2800
101500300	D	GLS	GALILEO-NAV-2004	N-GSO	N	PART	2	2582
113500016	D		BEEASAT-3	N-GSO	N	PART	2	2748
115545004	D		BEEASAT-4	N-GSO	A	API/A	9836	2801
107500317	D		BIRD	N-GSO	N	PART	2	2766
115545002	D		BIROS AMATEUR	N-GSO	A	API/A	9834	2801
114540712	D		COMPACTSAT	N-GSO	A	API/A	9627	2798
115520119	D		COURIER-3	N-GSO	C	CR/C	3843	2809
113540205	D		CUBESAT-FIRSTMOVE	N-GSO	A	API/A	8370	2766
113540204	D		CUBESAT-UWE	N-GSO	A	API/A	8369	2763
109540281	D		CUBESAT-UWE-2	N-GSO	A	API/A	5575	2656
109540923	D		ENMAP	N-GSO	A	API/A	5963	2684
114540071	D		ENMAP-1	N-GSO	A	API/A	9080	2779
112541239	D		FLYING LAPTOP	N-GSO	A	API/A	8126	2803
104500168	D		GRACE	N-GSO	N	PART	2	2710
113540201	D		ICARUS	N-GSO	A	API/A	8373	2761
106500286	D		MAGNIFYING GLASS	N-GSO	N	PART	2	2649
105500438	D		RAPIDEYE	N-GSO	N	PART	2	2637
115545007	D		S-NET	N-GSO	A	API/A	9943	2802
115545009	D		S-NET AMATEUR	N-GSO	A	API/A	9840	2802
112540427	D		SOMP-TUD	N-GSO	A	API/A	7589	2735
115545010	D		TECHNOSAT	N-GSO	A	API/A	9841	2802
115545008	D		TECHNOSAT AMATEUR	N-GSO	A	API/A	9839	2802
108501139	D		TERRASAR	N-GSO	N	PART	2	2790
111500037	D		TET-1	N-GSO	N	PART	2	2766
115545003	D		TET-X	N-GSO	A	API/A	9835	2801
113540413	D		WREN	N-GSO	A	API/A	8717	2768
114540393	DNK		AAUSAT4	N-GSO	A	API/A	9505	2791
114540760	DNK		AAUSAT5	N-GSO	A	API/A	9732	2801
114540099	DNK		DTUSAT-2	N-GSO	A	API/A	9082	2779
114540101	DNK		GOMX-1	N-GSO	A	API/A	9046	2781
114540207	DNK		GOMX-2	N-GSO	A	API/A	9200	2784
115545014	DNK		GOMX-3	N-GSO	A	API/A	9951	2803
114540154	DNK		ROMIT-1	N-GSO	A	API/A	9099	2781
114540401	E		3CAT1	N-GSO	A	API/A	9506	2789
108500678	E		DEIMOS-1	N-GSO	N	PART	2	2658
113540649	E		DEIMOS-2	N-GSO	A	API/A	8847	2786

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ifc_no
113500108	E		HUMSAT-D	N-GSO	N	PART	2	2761
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
112500225	E		OPTOS	N-GSO	N	PART	2	2764
115500002	E		PAZ	N-GSO	N	PART	2	2806
114540258	E		POLITECH-1	N-GSO	A	API/A	9257	2786
112500102	E		XATCOBEO	N-GSO	N	PART	2	2748
111540942	EGY		E-STAR	N-GSO	A	API/A	7239	2726
105500097	EGY		MIRSAT-1	N-GSO	N	PART	2	2603
113500040	EST		ESTCUBE-1	N-GSO	N	PART	2	2750
115540817	F		F-SAT-NG-1	N-GSO	A	API/A	10699	2804
115545036	F	ESA	ACES	N-GSO	A	API/A	9965	2806
113500002	F	ESA	ADM-AEOLUS	N-GSO	N	PART	2	2749
105500005	F	ESA	ATV	N-GSO	N	PART	2	2700
111500021	F	ESA	BEPICOLOMBO (MPO)	N-GSO	N	PART	2	2808
115545024	F	ESA	CHEOPS	N-GSO	A	API/A	9959	2804
95500126	F	ESA	CLUSTER 1-5	N-GSO	N	PART	2	2753
108500003	F	ESA	CRYOSAT-2	N-GSO	N	PART	2	2670
115545069	F	ESA	EXOMARS SCC	N-GSO	A	API/A	10726	2809
115500010	F	ESA	EXOMARS TGO	N-GSO	N	PART	2	2810
111500196	F	ESA	GAIA	N-GSO	N	PART	2	2766
99500055	F	ESA	INTEGRAL	N-GSO	N	PART	2	2737
114500073	F	ESA	LISA-PF	N-GSO	N	PART	2	2795
101500521	F	ESA	MARS-EXPRESS	N-GSO	N	PART	2	2700
100500306	F	ESA	METOP	N-GSO	N	PART	2	2702
99500101	F	ESA	PROBA	N-GSO	N	PART	2	2802
105500613	F	ESA	PROBA-2	N-GSO	N	PART	2	2669
111500020	F	ESA	PROBA-V	N-GSO	N	PART	2	2747
101500519	F	ESA	ROSETTA	N-GSO	N	PART	2	2700
111500003	F	ESA	SENTINEL-1	N-GSO	N	PART	2	2731
111500004	F	ESA	SENTINEL-2	N-GSO	N	PART	2	2802
111500005	F	ESA	SENTINEL-3	N-GSO	N	PART	2	2731
113500053	F	ESA	SENTINEL-5P	N-GSO	N	PART	2	2752
105500083	F	ESA	SMOS	N-GSO	N	PART	2	2708
95500127	F	ESA	SOHO	N-GSO	N	PART	2	2574
110500003	F	ESA	SWARM	N-GSO	N	PART	2	2760
103500345	F	ESA	VENUS EXPRESS	N-GSO	N	PART	2	2700
97500403	F	ESA	XMM	N-GSO	N	PART	2	2795
109520327	F	GLS	GALILEO-2	N-GSO	C	CR/C	2542	2796
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
115540087	F		ARGOS-4A	N-GSO	A	API/A	9931	2805
96500523	F		ARGOS-B	N-GSO	N	PART	2	2604
108500601	F		ARGOS-SARAL	N-GSO	N	PART	2	2789
90504396	F		ARIANE	N-GSO	N	PART	2	2575
111520230	F		ASAT-B	N-GSO	C	CR/C	2960	2722

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ifc_no
114540751	F		AST-5-NGSO	N-GSO	A	API/A	9628	2788
114540752	F		AST-5-NGSO1	N-GSO	A	API/A	9629	2788
114540753	F		AST-5-NGSO2	N-GSO	A	API/A	9753	2788
115520048	F		AST-NG-C-1	N-GSO	C	CR/C	3840	2808
115545043	F		AST-NG-NC-1	N-GSO	A	API/A	10521	2800
114540275	F		AST-NG-NC-BF868	N-GSO	A	API/A	9258	2786
109500282	F		ASTROTERRA	N-GSO	N	PART	2	2763
114500136	F		ASV	N-GSO	N	PART	2	2808
115545037	F		CERES	N-GSO	A	API/A	10069	2808
114540153	F		CSO	N-GSO	A	API/A	9123	2782
100500052	F		DORIS-2	N-GSO	N	PART	2	2588
108540033	F		DRN-N1B	N-GSO	A	API/A	5016	2632
108540034	F		DRN-N2B	N-GSO	A	API/A	5017	2632
108540035	F		DRN-N3B	N-GSO	A	API/A	5018	2632
101500326	F		ESSAIM	N-GSO	N	PART	2	2549
114540321	F		ES-SAT-1	N-GSO	A	API/A	9309	2777
115520085	F		ES-SAT-2	N-GSO	C	CR/C	3841	2809
114540323	F		ES-SAT-3	N-GSO	A	API/A	9311	2777
110520102	F		HIBLEO-X	N-GSO	C	CR/C	2621	2694
113540128	F		ISLWE-1	N-GSO	A	API/A	8374	2761
109500002	F		JASON2	N-GSO	N	PART	2	2671
112500130	F		JASON3	N-GSO	N	PART	2	2742
112541317	F		MCSAT HEO	N-GSO	A	API/A	8183	2741
114520272	F		MCSAT LEO	N-GSO	C	CR/C	3727	2798
112541316	F		MCSAT MEO	N-GSO	A	API/A	8182	2741
114520267	F		MCSAT-2 HEO	N-GSO	C	CR/C	3728	2808
114520286	F		MCSAT-2 HEO-1	N-GSO	C	CR/C	3724	2797
114520280	F		MCSAT-2 LEO-1	N-GSO	C	CR/C	3722	2796
114520281	F		MCSAT-2 LEO-2	N-GSO	C	CR/C	3723	2808
114520282	F		MCSAT-2 MEO-1	N-GSO	C	CR/C	3725	2808
114520284	F		MCSAT-2 MEO-2	N-GSO	C	CR/C	3726	2808
114540590	F		MCSAT-3	N-GSO	A	API/A	9578	2781
114500002	F		MICROSCOPE	N-GSO	N	PART	2	2779
111540893	F		NOVASAT1G	N-GSO	A	API/A	7225	2723
112500047	F		PLEIADES	N-GSO	N	PART	2	2732
105500522	F		PROTEUS-OBS	N-GSO	N	PART	2	2632
96500559	F		PROTEUS-TPFO	N-GSO	N	PART	2	2588
109540060	F		ROBUSTA	N-GSO	A	API/A	5560	2656
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
113500001	F		TARANIS	N-GSO	N	PART	2	2748
114500032	FIN		AALTO-1	N-GSO	N	PART	2	2788
115540130	G		WSAT	N-GSO	A	API/A	10000	2796
109540808	G		ADS-1B	N-GSO	A	API/A	5917	2684
102500178	G		DMC1	N-GSO	N	PART	2	2740
114540432	G		DMC3	N-GSO	A	API/A	9364	2788
107500097	G		ICO-P	N-GSO	N	PART	1	2712
113520120	G		L5	N-GSO	C	CR/C	3413	2809

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ifc_no
114540576	G		NOVASAR-S1	N-GSO	A	API/A	9514	2790
114500125	G		O3B-A	N-GSO	N	PART	2	2804
111520052	G		O3B-B	N-GSO	C	CR/C	2817	2713
114540581	G		O3B-C	N-GSO	A	API/A	9516	2781
115545031	G		O3B-D	N-GSO	A	API/A	9961	2805
112541112	G		STRAND1	N-GSO	A	API/A	8048	2747
112541147	G		TECHDEMOSAT-1	N-GSO	A	API/A	8117	2750
112540478	G		UKUBE-1	N-GSO	A	API/A	7615	2737
109540291	HNG		MASAT-1	N-GSO	A	API/A	5585	2656
115540762	HOL		IPS	N-GSO	A	API/A	10641	2802
107500088	HOL		DELFI-C3	N-GSO	N	PART	2	2756
113500181	HOL		DELFI-N3XT	N-GSO	N	PART	2	2767
113500183	HOL		FUNCUBE-1	N-GSO	N	PART	2	2771
114540141	HOL		IMDC	N-GSO	A	API/A	9094	2781
113500182	HOL		TRITON1	N-GSO	N	PART	2	2767
112540410	HOL		TRITON2	N-GSO	A	API/A	7582	2734
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
114540750	I		D-SAT	N-GSO	A	API/A	9631	2799
115545072	I		EAGLET	N-GSO	A	API/A	10954	2810
114540756	I		E-STAR2	N-GSO	A	API/A	9667	2799
111540948	I		E-STAR-I	N-GSO	A	API/A	7280	2727
113500107	I		ISS - ARISS	N-GSO	N	PART	2	2779
114540148	I		MAX VALIER SAT	N-GSO	A	API/A	9100	2782
111500034	I		PRISMA-I	N-GSO	N	PART	2	2724
114540705	I		TU-POD	N-GSO	A	API/A	9620	2797
115500029	I		UNISAT-6	N-GSO	N	PART	2	2808
90504397	IND		ASLV	N-GSO	N	PART	2	
112541145	IND		ASTROSAT	N-GSO	A	API/A	8049	2747
109500241	IND		CHANDRAYAAN-1	N-GSO	N	PART	2	2675
112540426	IND		CHANDRAYAAN-2	N-GSO	A	API/A	7529	2735
112500274	IND		INSAT-NAV-A-GS	N-GSO	N	PART	2	2744
112520043	IND		INSAT-NAV-NGSA	N-GSO	C	CR/C	3120	2741
112520052	IND		INSAT-NAVR-GS	N-GSO	C	CR/C	3121	2741
90504414	IND		IRS-1B	N-GSO	N	PART	2	
99500030	IND		IRS-1C	N-GSO	N	PART	2	2446
99500029	IND		IRS-1E	N-GSO	N	PART	2	2446
111500233	IND		IRS-CARTOSAT-2	N-GSO	N	PART	2	2720
114540391	IND		IRS-NEMO-AM	N-GSO	A	API/A	9331	2787
99500139	IND		IRS-P4	N-GSO	N	PART	2	2516
111500232	IND		IRS-P5	N-GSO	N	PART	2	2721
111540655	IND		MEGHA-TROPIQUES	N-GSO	A	API/A	7094	2716
114500018	IND		MMI	N-GSO	N	PART	2	2775
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
112540304	IND		RISAT	N-GSO	A	API/A	7528	2734
90504631	IND		RS-D2	N-GSO	N	PART	2	

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113540611	IND		SARAL	N-GSO	A	API/A	8718	2772
90504633	IND		SEO BHASKARA-1	N-GSO	N	PART	2	
90504634	IND		SEO BHASKARA-2	N-GSO	N	PART	2	
87500010	IND		SROSS-1	N-GSO	N	PART	2	1944
94500357	IND		SROSS-3	N-GSO	N	PART	2	2223
113500200	IND		TWSAT	N-GSO	N	PART	2	2792
111540211	IND		YOUTHSAT	N-GSO	A	API/A	6817	2709
112540424	INS		LAPAN-A3-SAT	N-GSO	A	API/A	7587	2755
109500036	INS		LAPANSAT	N-GSO	N	PART	2	2770
105500657	INS		LAPAN-TUBSAT	N-GSO	N	PART	2	2802
110520235	IRN		AUTSAT	N-GSO	C	CR/C	2697	2682
111500133	IRN		FAJR	N-GSO	N	PART	2	2716
114540405	IRN		KHALIJEFARS	N-GSO	A	API/A	9363	2788
115545018	IRN		KIYASAT	N-GSO	A	API/A	9954	2804
101500402	IRN		MESBAH	N-GSO	N	PART	2	2632
109500635	IRN		OMID	N-GSO	N	PART	2	2681
112500232	IRN		SHARIFSAT	N-GSO	N	PART	2	2745
112500175	IRN		TOLU-1	N-GSO	N	PART	2	2739
114540176	IRN		TOLU1-2	N-GSO	A	API/A	9127	2783
114540098	ISR		DUCHIFAT1	N-GSO	A	API/A	9041	2778
100500371	ISR		EROS	N-GSO	N	PART	2	2554
111540439	ISR		VENUS	N-GSO	A	API/A	6990	2713
107500101	J		ALOS	N-GSO	N	PART	2	2627
113500030	J		ALOS-2	N-GSO	N	PART	2	2808
110500173	J		ALOSSAR	N-GSO	N	PART	2	2694
113540001	J		ARTSAT1	N-GSO	A	API/A	8302	2755
112500154	J		ASNARO	N-GSO	N	PART	2	2738
115545017	J		ASNARO-2	N-GSO	A	API/A	9953	2803
100500051	J		ASTRO-E	N-GSO	N	PART	2	2722
106500126	J		ASTRO-F	N-GSO	N	PART	2	2608
113541019	J		ASTRO-H	N-GSO	A	API/A	8279	2758
113540206	J		CE-SAT	N-GSO	A	API/A	8371	2763
113500124	J		CHUBUSAT-1	N-GSO	N	PART	2	2762
110500109	J		CUTE-I	N-GSO	N	PART	2	2693
114540004	J		ERG	N-GSO	A	API/A	9021	2776
90504408	J		EXOS-D	N-GSO	N	PART	2	2643
111540427	J		FITSAT-1	N-GSO	A	API/A	6983	2726
112540822	J		GCOM-C1	N-GSO	A	API/A	7884	2737
112500017	J		GCOM-W1	N-GSO	N	PART	2	2724
92500295	J		GEOTAIL	N-GSO	N	PART	2	2616
109500024	J		GOSAT	N-GSO	N	PART	2	2686
115545071	J		GOSAT-2	N-GSO	A	API/A	10953	2810
114500084	J		HAYABUSA2	N-GSO	N	PART	2	2804
115545012	J		HAYABUSA2SN	N-GSO	A	API/A	9944	2802
113500145	J		HODOYOSHI	N-GSO	N	PART	2	2763
114500027	J		HODOYOSHI-3-4	N-GSO	N	PART	2	2774
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

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105500237	J		INDEX-1	N-GSO	N	PART	2	2607
111540397	J		ISS-CUBES	N-GSO	A	API/A	6965	2713
109500008	J		ISS-JEM-ICS-R	N-GSO	N	PART	2	2658
109500580	J		ISS-PROX-R	N-GSO	N	PART	2	2679
113500188	J		ITF-1	N-GSO	N	PART	2	2767
96500425	J		JAS-2	N-GSO	N	PART	2	2555
108540587	J		JOSHO	N-GSO	A	API/A	5349	2664
109500093	J		KKS-1	N-GSO	N	PART	2	2770
111540285	J		MMO	N-GSO	A	API/A	6890	2710
97500353	J		MUSES-B	N-GSO	N	PART	2	2555
107500169	J		MUSES-C	N-GSO	N	PART	2	2653
113540202	J		NANO-JASMINE1	N-GSO	A	API/A	8503	2764
104500548	J		N-SAT-HEO2	N-GSO	N	PART	2	2603
112540425	J		OPUSAT	N-GSO	A	API/A	7588	2735
109500914	J		PLANET-C	N-GSO	N	PART	2	2697
109500094	J		PRISM1	N-GSO	N	PART	2	2766
111500274	J		PRISM2	N-GSO	N	PART	2	2760
114540140	J		PROCYON	N-GSO	A	API/A	9095	2780
113500123	J		QSAT	N-GSO	N	PART	2	2761
112520494	J		QZSS	N-GSO	C	CR/C	3322	2770
110500199	J		QZSS-1	N-GSO	N	PART	2	2724
113540035	J		RISESAT	N-GSO	A	API/A	8276	2754
109500033	J		SDS-1	N-GSO	N	PART	2	2666
109540890	J		SDS-3	N-GSO	A	API/A	5956	2684
112500016	J		SDS-A	N-GSO	N	PART	2	2722
110500206	J		SERVIS-2	N-GSO	N	PART	2	2697
112540161	J		SHINDAI SAT	N-GSO	A	API/A	7438	2730
114540695	J		SHIN-EN2	N-GSO	A	API/A	9610	2797
111540438	J		SLATS	N-GSO	A	API/A	6989	2713
114500052	J		SOCRATES	N-GSO	N	PART	2	2781
106500327	J		SOLAR-B	N-GSO	N	PART	2	2753
113500010	J		SPRINT-A	N-GSO	N	PART	2	2757
109500014	J		SPRITE-SAT	N-GSO	N	PART	2	2649
109500097	J		STARS	N-GSO	N	PART	2	2772
110540948	J		STARS-II	N-GSO	A	API/A	6638	2700
113540002	J		TEIKYOSAT-3	N-GSO	A	API/A	8303	2755
113500156	J		TSUBAME	N-GSO	N	PART	2	2764
112541111	J		UNIFORM-1	N-GSO	A	API/A	8028	2744
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	2735
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
114500011	KAZ		DZZ-HR	N-GSO	N	PART	2	2784
113500147	KAZ		DZZ-MR	N-GSO	N	PART	2	2784
115545053	KAZ		KAZSTSAT	N-GSO	A	API/A	10556	2802
112500193	KOR		KHUSAT-01	N-GSO	N	PART	2	2743
100500019	KOR		KITSAT-3	N-GSO	N	PART	2	2645

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100500017	KOR		KOMPSAT-1	N-GSO	N	PART	2	2773
106500084	KOR		KOMPSAT-2	N-GSO	N	PART	2	2632
111500044	KOR		KOMPSAT-3	N-GSO	N	PART	2	2789
113500041	KOR		KOMPSAT-3A	N-GSO	N	PART	2	2766
110500283	KOR		KOMPSAT-5	N-GSO	N	PART	2	2789
112540817	KOR		NONGEO AMATEUR SAT	N-GSO	A	API/A	7882	2737
115545052	KOR		STEP-1	N-GSO	A	API/A	10640	2803
108501015	KOR		STSAT-2	N-GSO	N	PART	2	2715
113500189	KOR		STSAT-3	N-GSO	N	PART	2	2788
114520266	LIE		3ECOM-1	N-GSO	C	CR/C	3738	2806
114540399	LIE		3ECOM-2	N-GSO	A	API/A	9498	2788
115520073	LIE		3ECOM-3	N-GSO	C	CR/C	3842	2809
114500045	LTU		LITSAT-1	N-GSO	N	PART	2	2781
113500185	LTU		LITUANICASAT-1	N-GSO	N	PART	2	2768
115545035	LTU		LITUANICASAT-2	N-GSO	A	API/A	9964	2806
115540377	LUX		CLEOSAT	N-GSO	A	API/A	10250	2799
115540251	LUX		LUX-NGSO-EESS-TC	N-GSO	A	API/A	10120	2798
109520122	LUX		LUXMSS-1	N-GSO	C	CR/C	2417	2674
110540444	LUX		LUX-NGSO-1	N-GSO	A	API/A	6426	2687
110540445	LUX		LUX-NGSO-2	N-GSO	A	API/A	6427	2687
110540446	LUX		LUX-NGSO-3	N-GSO	A	API/A	6428	2687
115545039	LUX		LUX-NGSO-EESS	N-GSO	A	API/A	10071	2809
114500050	LUX		LXS-AIS	N-GSO	N	PART	2	2787
115500007	LVA		VENTA-1	N-GSO	N	PART	2	2807
115545064	LVA		VENTA-2	N-GSO	A	API/A	10722	2807
115545054	MEX		ULISES 1	N-GSO	A	API/A	10557	2801
115545025	MLA		ATSBSMALLSAT	N-GSO	A	API/A	10614	2802
107500030	MLA		MLA-NEQO	N-GSO	N	PART	2	2654
114540655	MRC		MN35-13	N-GSO	A	API/A	9607	2792
112540925	NIG		NIGERIASAT-2	N-GSO	A	API/A	7928	2740
112540926	NIG		NIGERIASAT-X	N-GSO	A	API/A	7929	2740
115540203	NOR		NORSAT-H2	N-GSO	A	API/A	10072	2797
113520077	NOR		ARE-2	N-GSO	C	CR/C	3394	2768
115520131	NOR		ARE-3	N-GSO	C	CR/C	3844	2809
114520216	NOR		ASK-1	N-GSO	C	CR/C	3675	2805
111540934	NOR		CUBESTAR	N-GSO	A	API/A	7242	2730
112540162	NOR		HINCUBE	N-GSO	A	API/A	7513	2730
115545060	NOR		NORSAT-1	N-GSO	A	API/A	10697	2805
115545058	NOR		NORSAT-2	N-GSO	A	API/A	10690	2804
114540704	NOR		NORSAT-H1	N-GSO	A	API/A	9619	2790
115545032	NOR		NUTS	N-GSO	A	API/A	9962	2805
115540099	NOR		SE-6-HEO	N-GSO	A	API/A	9957	2793
115540100	NOR		SE-6-LEO	N-GSO	A	API/A	9958	2793
114540698	NOR		STEAM-0	N-GSO	A	API/A	9614	2786
114520273	NOR		STEAM-1	N-GSO	C	CR/C	3739	2799
114520274	NOR		STEAM-2	N-GSO	C	CR/C	3740	2799
115540109	NOR		STEAM-3C	N-GSO	A	API/A	9838	2791
112540845	NZL		KIWISAT	N-GSO	A	API/A	7925	2739
112540921	PAK		ICUBE-1	N-GSO	A	API/A	7920	2739

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112541377	PAK		PAKTES-1	N-GSO	A	API/A	8249	2751
114540582	PAK		PAKTES-1B	N-GSO	A	API/A	9517	2791
115545001	PAK		PNSS-1	N-GSO	A	API/A	9832	2801
110540720	PAK		PRSS-O1	N-GSO	A	API/A	6507	2786
115545038	PHL		PHL-MICROSAT	N-GSO	A	API/A	10070	2800
113520188	PNG		OMNISPACE F2	N-GSO	C	CR/C	3434	2774
113500150	POL		BRITE-PL	N-GSO	N	PART	2	2783
111540946	POL		PW-SAT	N-GSO	A	API/A	7289	2730
114540685	PRU		PERU-SAT01	N-GSO	A	API/A	9599	2793
111540903	ROU		GOLIAT	N-GSO	A	API/A	7230	2726
115540838	RUS		SKY-F	N-GSO	A	API/A	10720	2806
90504874	RUS	IK	MOLNIA-3	N-GSO	N	PART	2	
115520106	RUS		ARCTICA-M	N-GSO	C	CR/C	3829	2806
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
111500198	RUS		DTRS-ISS	N-GSO	N	PART	2	2804
114500033	RUS		DX1	N-GSO	N	PART	2	2793
94500133	RUS		GEO-IK-2	N-GSO	N	PART	2	2794
90504410	RUS		GLONASS	N-GSO	N	PART	2	
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	2717
110500266	RUS		KANOPUS-V	N-GSO	N	PART	2	2740
106500111	RUS		KORONAS-PHOTON	N-GSO	N	PART	2	2647
90504426	RUS		KOSPAS	N-GSO	N	PART	1	2688
113500173	RUS		LUNA-RESURS	N-GSO	N	PART	2	2763
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
114540136	RUS		MINI-RSA	N-GSO	A	API/A	9088	2780
111500082	RUS		MKA-FKI	N-GSO	N	PART	2	2780
90504431	RUS		MOLNIA-1	N-GSO	N	PART	2	
90504432	RUS		MOLNIA-2	N-GSO	N	PART	2	
103500030	RUS		MONITOR	N-GSO	N	PART	2	2647
110500001	RUS		PHOBOS-GRUNT	N-GSO	N	PART	2	2719
114500025	RUS		POTOK-ISS	N-GSO	N	PART	2	2775
90504628	RUS		RADIO-M	N-GSO	N	PART	2	
108500004	RUS		RESURS-DK1	N-GSO	N	PART	2	2634
115545083	RUS		RLB	N-GSO	A	API/A	10952	2810
90504630	RUS		RS	N-GSO	N	PART	2	
111500091	RUS		SELENA	N-GSO	N	PART	2	2721
107540104	RUS		SMOTR	N-GSO	A	API/A	4556	2808
106500006	RUS		SPECTR-R	N-GSO	N	PART	2	2742
113500174	RUS		SPECTR-RG	N-GSO	N	PART	2	2764
114540754	RUS		TABLETSAT-AURORA	N-GSO	A	API/A	9630	2800
96500453	RUS		TSYKADA	N-GSO	N	PART	2	2804
112500163	RUS		UCTS-ISS	N-GSO	N	PART	2	2756

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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
115540202	SNG		TELEOS-1	N-GSO	A	API/A	9968	2797
114540259	SNG		POPSAT-HIP1	N-GSO	A	API/A	9201	2786
115545033	SNG		TELEOS-1	N-GSO	A	API/A	9968	2806
114540372	SNG		VELOX-CI	N-GSO	A	API/A	9365	2788
114540001	SNG		VELOX-I	N-GSO	A	API/A	8903	2778
111541001	SNG		VELOX-P	N-GSO	A	API/A	7333	2774
112540421	SNG		VELOX-PII	N-GSO	A	API/A	7584	2774
111540279	SNG		X-SAT	N-GSO	A	API/A	6888	2710
115540827	SUI		S4P	N-GSO	A	API/A	10709	2805
113540572	SUI		CUBETH	N-GSO	A	API/A	8701	2767
115545066	SUI		S4P	N-GSO	A	API/A	10709	2809
107500492	SUI		SWISSCUBE	N-GSO	N	PART	2	2802
110500265	SUI		TISAT-1	N-GSO	N	PART	2	2802
115545045	SVK		SKCUBE	N-GSO	A	API/A	10522	2800
113540143	SVN		NEMO-HD	N-GSO	A	API/A	8329	2780
106500406	THA		THEOS	N-GSO	N	PART	2	2658
112500176	TUR		GOKTURK-1	N-GSO	N	PART	2	2741
112500177	TUR		GOKTURK-2	N-GSO	N	PART	2	2739
108540251	TUR		RASAT	N-GSO	A	API/A	5136	2638
113500046	TUR		TURKSAT-3USAT	N-GSO	N	PART	2	2752
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
114540654	UAE		EMARSAT-2N1	N-GSO	A	API/A	9618	2784
113540746	UKR		POLYITAN-1	N-GSO	A	API/A	8902	2776
107500013	UKR		SICH-2	N-GSO	N	PART	2	2713
106500338	UKR		YAVIR-1	N-GSO	N	PART	2	2607
113540209	URG		ANTELSAT	N-GSO	A	API/A	8375	2761
115540205	USA		ALBUS	N-GSO	A	API/A	10074	2797
115540200	USA		ANGELS	N-GSO	A	API/A	9967	2797
115540841	USA		L-92A	N-GSO	A	API/A	10724	2808
115540734	USA		LMRST	N-GSO	A	API/A	10124	2800
115540809	USA		P92-1A	N-GSO	A	API/A	10541	2803
115540808	USA		P92-2A	N-GSO	A	API/A	10542	2803
115540201	USA		PROMETHEUS-B1	N-GSO	A	API/A	9966	2797
115540664	USA		S-MICRO-1C	N-GSO	A	API/A	10540	2800
115540204	USA		TEHCUBE1	N-GSO	A	API/A	10073	2797
98500190	USA		ACE	N-GSO	N	PART	2	2590
114540757	USA		AEROCUBE	N-GSO	A	API/A	9669	2801
105500022	USA		AIM	N-GSO	N	PART	2	2603
94500240	USA		ALEXIS	N-GSO	N	PART	2	2163
115545027	USA		ANGELS	N-GSO	A	API/A	9967	2806
101500081	USA		AURA	N-GSO	N	PART	2	2777
97500109	USA		AXAF-1	N-GSO	N	PART	2	2789
106500295	USA		BIGELOW	N-GSO	N	PART	2	2693
96500413	USA		BLOCK 5D-3	N-GSO	N	PART	2	2590

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ifc_no
96500408	USA		CASSINI	N-GSO	N	PART	2	2590
114540400	USA		CEREX	N-GSO	A	API/A	9499	2788
113540583	USA		CHARGERSAT-1	N-GSO	A	API/A	8901	2774
101500569	USA		CHIPS	N-GSO	N	PART	2	2590
106500083	USA		CIBOLA	N-GSO	N	PART	2	2608
111500006	USA		CONNECT	N-GSO	N	PART	2	2783
113540585	USA		COPPER	N-GSO	A	API/A	8843	2773
109540364	USA		COSMIC	N-GSO	A	API/A	5631	2664
90504402	USA		CRRES	N-GSO	N	PART	2	2166
110540475	USA		CUCU	N-GSO	A	API/A	6430	2721
114540697	USA		CYGNSS	N-GSO	A	API/A	9612	2797
112500001	USA		CYGNUS	N-GSO	N	PART	2	2726
104500387	USA		DAWN	N-GSO	N	PART	2	2609
114540579	USA		DELLINGR	N-GSO	A	API/A	9600	2792
113540740	USA		DICE	N-GSO	A	API/A	8895	2784
113540068	USA		DOVE1	N-GSO	A	API/A	8327	2759
113540069	USA		DOVE2	N-GSO	A	API/A	8328	2759
113540400	USA		DOVE3	N-GSO	A	API/A	8539	2766
113540401	USA		DOVE4	N-GSO	A	API/A	8541	2766
113540586	USA		DRAGONSAT-1	N-GSO	A	API/A	8844	2773
115545042	USA		DSCOVN	N-GSO	A	API/A	10122	2809
98500032	USA		EMU-SSCS	N-GSO	N	PART	1	2767
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	2718
112500271	USA		FASTSAT	N-GSO	N	PART	2	2748
105500618	USA		FORTE	N-GSO	N	PART	2	2607
106500167	USA		GLAST	N-GSO	N	PART	2	2627
111500016	USA		GPM	N-GSO	N	PART	2	2766
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
111520224	USA		HIBLEO-2FL2	N-GSO	C	CR/C	3069	2800
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
113540588	USA		HOOPONOPONO-2	N-GSO	A	API/A	8896	2774
107500412	USA		IBEX	N-GSO	N	PART	2	2638
100500001	USA		ICESAT	N-GSO	N	PART	2	2591
114500072	USA		ICESAT-2	N-GSO	N	PART	2	2794
115500027	USA		ICON	N-GSO	N	PART	2	2806
90504413	USA		IMP-J	N-GSO	N	PART	2	2575
114500041	USA		INSIGHT	N-GSO	N	PART	2	2807
114540659	USA		INSPIRE	N-GSO	A	API/A	9574	2793
101500582	USA		INTNL SPACE STATION	N-GSO	N	PART	2	2740
96500515	USA		INTNL SPACE STN ACS	N-GSO	N	PART	2	2740
96500516	USA		INTNL SPACE STN SGS	N-GSO	N	PART	2	2759

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ifc_no
114540696	USA		ISARA	N-GSO	A	API/A	9611	2797
113500152	USA		ISS RAPIDSCAT	N-GSO	N	PART	2	2764
98500030	USA		ISS SSCS	N-GSO	N	PART	2	2766
109500265	USA		ISS-COTS1	N-GSO	N	PART	2	2699
112500033	USA		ISS-CUCU	N-GSO	N	PART	2	2736
111500079	USA		ISS-USOS-RPOD	N-GSO	N	PART	2	2789
94500123	USA		ISTP WIND	N-GSO	N	PART	2	2789
110540211	USA		JMR	N-GSO	A	API/A	6205	2682
114540189	USA		JPSS	N-GSO	A	API/A	9202	2786
109500197	USA		JUNO	N-GSO	N	PART	2	2769
112500192	USA		JWST	N-GSO	N	PART	2	2739
114540920	USA		JWST-R	N-GSO	A	API/A	9833	2799
106500296	USA		KEPLER	N-GSO	N	PART	2	2656
113540582	USA		KYSAT-2	N-GSO	A	API/A	8846	2773
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	2744
95500068	USA		LEOTELCOM-1	N-GSO	N	PART	2	2593
101500556	USA		LEOTELCOM-3	N-GSO	N	PART	2	2593
115545044	USA		LMRST	N-GSO	A	API/A	10124	2810
107500413	USA		LRO	N-GSO	N	PART	2	2689
101500002	USA		MARS 2001 ORBITER	N-GSO	N	PART	2	2593
112500284	USA		MAVEN	N-GSO	N	PART	2	2762
112540290	USA		M-CUBED	N-GSO	A	API/A	7226	2737
113540070	USA		MER-R	N-GSO	A	API/A	8316	2757
115545070	USA		MINXSS	N-GSO	A	API/A	10747	2810
110500294	USA		MMS	N-GSO	N	PART	2	2794
104500107	USA		MRO	N-GSO	N	PART	2	2584
108500627	USA		MSL	N-GSO	N	PART	2	2750
105500120	USA		MTI	N-GSO	N	PART	2	2607
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
112500158	USA		NIRIS	N-GSO	N	PART	2	2752
98500127	USA		NMP/EO-1	N-GSO	N	PART	2	2734
112500015	USA		NOAA N	N-GSO	N	PART	2	2741
102500348	USA		NOAA-KLM	N-GSO	N	PART	2	2613
110500216	USA		NPOESS	N-GSO	N	PART	1	2792
105500436	USA		NPP	N-GSO	N	PART	1	2734
110500102	USA		NUSTAR	N-GSO	N	PART	2	2728
111500081	USA		OCO-2	N-GSO	N	PART	2	2777
112500199	USA		ORION	N-GSO	N	PART	1	2791
90504613	USA		OSCAR-7	N-GSO	N	PART	2	
90504614	USA		OSCAR-8	N-GSO	N	PART	2	
115500085	USA		OSIRIS_REX	N-GSO	N	PART	2	2809
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ifc_no
115545049	USA		P92-1A	N-GSO	A	API/A	10541	2800
95500119	USA		P92-2	N-GSO	N	PART	2	2593
115545050	USA		P92-2A	N-GSO	A	API/A	10542	2800
90504615	USA		PAM	N-GSO	N	PART	2	2573
101500267	USA		PICASSO	N-GSO	N	PART	2	2594
90504617	USA		PIONEER-10	N-GSO	N	PART	2	2580
90504619	USA		PIONEER-6	N-GSO	N	PART	2	2580
115545013	USA		PONSFDF	N-GSO	A	API/A	9950	2803
115545029	USA		PROMETHEUS-B1	N-GSO	A	API/A	9966	2806
98500027	USA		QUIKSCAT	N-GSO	N	PART	2	2777
109500198	USA		RBSP	N-GSO	N	PART	2	2731
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	2759
112500032	USA		SMAP	N-GSO	N	PART	2	2807
115545048	USA		S-MICRO 1N	N-GSO	A	API/A	10554	2801
101500186	USA		SORCE	N-GSO	N	PART	2	2791
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
99500159	USA		SPOT-4(POAM)	N-GSO	N	PART	2	2451
114540707	USA		SPP	N-GSO	A	API/A	9622	2797
90504642	USA		ST	N-GSO	N	PART	2	2804
90504858	USA		ST OMNI	N-GSO	N	PART	2	2595
104500386	USA		STEREO	N-GSO	N	PART	2	2586
113540581	USA		SWAMPSAT	N-GSO	A	API/A	8845	2773
101500156	USA		SWIFT	N-GSO	N	PART	2	2595
112540815	USA		TECHEDSAT1	N-GSO	A	API/A	7930	2741
115545059	USA		TESS	N-GSO	A	API/A	10689	2804
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
113540796	USA		TRAILBLAZER	N-GSO	A	API/A	8904	2776
96500514	USA		TRMM	N-GSO	N	PART	2	2747
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
112540285	USA		USASAT-30E	N-GSO	A	API/A	7525	2806
113540648	USA		USASAT-30F	N-GSO	A	API/A	8957	2788
114520172	USA		USCHAMA	N-GSO	C	CR/C	3647	2799
109500487	USA		USCLOUDSAT	N-GSO	N	PART	2	2677
105500620	USA		USCP	N-GSO	N	PART	2	2660
96500158	USA		USCSID-P	N-GSO	N	PART	2	2646
115545055	USA		USCUBESAT	N-GSO	A	API/A	10558	2802
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
111500097	USA		USKW	N-GSO	N	PART	2	2710

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
95500287	USA		USLL-HEO	N-GSO	N	PART	2	2596
95500288	USA		USLL-LEO	N-GSO	N	PART	2	2596
114540578	USA		USMSE	N-GSO	A	API/A	9515	2791
109500266	USA		USNFR	N-GSO	N	PART	2	2673
113540040	USA		USOCEAN	N-GSO	A	API/A	8278	2757
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
112520346	USA		UST4WP	N-GSO	C	CR/C	3269	2752
106500268	USA		USTRO-1	N-GSO	N	PART	2	2608
108500600	USA		USYV	N-GSO	N	PART	2	2635
100500101	USA		VCL	N-GSO	N	PART	2	2596
113540587	USA		VERMONT LUNAR	N-GSO	A	API/A	8893	2774
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	2789
96500376	USA		XTE	N-GSO	N	PART	2	2691
112500202	VEN		VRSS-1	N-GSO	N	PART	2	2742
112540476	VTN		F-1 CUBESAT	N-GSO	A	API/A	7613	2735
113540137	VTN		PICO DRAGON CUBESAT	N-GSO	A	API/A	8366	2759
111500157	VTN		VNREDSAT-1	N-GSO	N	PART	2	2718

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
113552013	ALG		ALGBSAT-24.8W	-24.8
113554013	ALG		ALGBSAT-24.8W	-24.8
105552007	ARS	ARB	ARABSAT BSS 6F	44.5
105554007	ARS	ARB	ARABSAT BSS 6F	44.5
111552001	ARS	ARB	ARABSAT BSS-26E	26
111554001	ARS	ARB	ARABSAT BSS-26E	26
100551030	ARS	ARB	ARABSAT-BSS1	26
100551625	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
109552017	ARS	ARB	ARABSAT-VB17E	17
109554017	ARS	ARB	ARABSAT-VB17E	17
106552003	ARS	ARB	ARABSAT-VB26E	26
106554003	ARS	ARB	ARABSAT-VB26E	26
113552031	ARS	ARB	ARABSAT-VB30.5E	30.5
113554031	ARS	ARB	ARABSAT-VB30.5E	30.5
114554007	ARS	ARB	ARABSAT-VB30.5E	30.5
112552009	ARS	ARB	ARABSAT-VB34E	34
112554009	ARS	ARB	ARABSAT-VB34E	34
113552021	ARS	ARB	ARABSAT-VB39E	39
113554021	ARS	ARB	ARABSAT-VB39E	39
114552016	ARS	ARB	ARABSAT-VB44.5E	44.5
114554016	ARS	ARB	ARABSAT-VB44.5E	44.5
104552007	AUS		AUSSAT C 156E BSS	156
104554003	AUS		AUSSAT C 156E BSS	156
110552004	AUS		AUSSAT E 160E BSS	160
110554004	AUS		AUSSAT E 160E BSS	160
110555005	B		B-SAT-3A-1	-45.1
112555001	B		B-SAT-3A-2	-44.9
113555003	B		B-SAT-3A-3	-45.1
115555005	B		B-SAT-3B-1	-74
110555004	B		B-SAT-3C	-70
114555005	B		B-SAT-3H	-64.2
112555003	B		B-SAT-3Q	-61
114555003	B		B-SAT-3Q-1	-61
113552010	BGD		BANGSAT-74E-B	74

ntc_id	adm	ntwk_org	sat_name	long_nom
113554010	BGD		BANGSAT-74E-B	74
111555008	BOL		BOLSAT BSS	-87.2
113552018	BUL		BULSAT-BSS-1.2W	-1.2
113554018	BUL		BULSAT-BSS-1.2W	-1.2
110552025	BUL		BULSAT-BSS-1.2W-W	1.9
110554025	BUL		BULSAT-BSS-1.2W-W	1.9
112552007	BUL		BULSAT-BSS-1.2W-W	1.9
96555002	CAN		CAN-BSS1	-82
113555001	CAN		CAN-BSS1AM	-82
106555001	CAN		CAN-BSS1X	-82
96555003	CAN		CAN-BSS2	-91.1
113555002	CAN		CAN-BSS2AM	-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
115552007	CHN		ASIASAT-BSS-118	118
109552019	CHN		ASIASAT-BSS-C1	105.5
113552028	CHN		ASIASAT-BSS-C2	105.5
113552027	CHN		ASIASAT-BSS-E2	100.5
98552002	CHN		ASIASAT-DTH-A	122
104552014	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
100551040	E		HISPASAT 2U3	-30
100551606	E		HISPASAT 2U3	-30
100551628	E		HISPASAT 2U3	-30
114552005	E		HISPASAT-21A	-26
114554005	E		HISPASAT-21A	-26

ntc_id	adm	ntwk_org	sat_name	long_nom
114552015	E		HISPASAT-30A	-36
114554015	E		HISPASAT-30A	-36
114552022	E		HISPASAT-37A	-30
114554022	E		HISPASAT-37A	-30
111552002	E		HISPASAT-6A	-26
111554002	E		HISPASAT-6A	-26
111552019	E		HISPASAT-7A	-36
111554019	E		HISPASAT-7A	-36
114552009	EGY		EGYNILE1-BSS	-7
114554009	EGY		EGYNILE1-BSS	-7
114552010	EGY		EGYNILE2-BSS	-19
114554010	EGY		EGYNILE2-BSS	-19
114552011	EGY		EGYNILE3-BSS	15
114554011	EGY		EGYNILE3-BSS	15
99552001	EGY		NILESAT-102	-7
99554001	EGY		NILESAT-102	-7
105552004	EGY		NILESAT-103	-7
105554004	EGY		NILESAT-103	-7
100551013	EGY		NILESAT-1S	-7
100551613	EGY		NILESAT-1S	-7
112555008	F		ASAT BSS W090	-90
113552012	F		AST-BSS-65.45E	65.45
113554012	F		AST-BSS-65.45E	65.45
113555008	F		CD-SAT BSS 123.1W	-123.1
97552010	F	EUT	EUTELSAT B-10E	10
97554010	F	EUT	EUTELSAT B-10E	10
95552004	F	EUT	EUTELSAT B-13E	13
95554005	F	EUT	EUTELSAT B-13E	13
100551006	F	EUT	EUTELSAT B-13E	13
100551605	F	EUT	EUTELSAT B-13E	13
95552005	F	EUT	EUTELSAT B-36E	36
100551608	F	EUT	EUTELSAT B-36E	36
100552005	F	EUT	EUTELSAT B-36E	36
100554005	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
114555004	F		F-SAT-E-BSS-100W	-100
109552031	F		F-SAT-E-BSS-12W	-12
109554031	F		F-SAT-E-BSS-12W	-12
115555001	F		F-SAT-E-BSS-133W	-133
111552010	F		F-SAT-E-BSS-13E	13

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111554010	F		F-SAT-E-BSS-13E	13
114552013	F		F-SAT-E-BSS-143E	143
114554013	F		F-SAT-E-BSS-143E	143
113552024	F		F-SAT-E-BSS-152E	152
113554024	F		F-SAT-E-BSS-152E	152
109552035	F		F-SAT-E-BSS-16E	16
109554035	F		F-SAT-E-BSS-16E	16
113552023	F		F-SAT-E-BSS-172E	172
113554023	F		F-SAT-E-BSS-172E	172
109552032	F		F-SAT-E-BSS-18W	-18
109554032	F		F-SAT-E-BSS-18W	-18
113555004	F		F-SAT-E-BSS-53W	-53
109552004	F		F-SAT-E-BSS-70.5E	70.5
109554004	F		F-SAT-E-BSS-70.5E	70.5
109552005	F		F-SAT-E-BSS-73.5E	73.5
109554005	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
114552018	F		F-SAT-E-BSS-7W	-7
114554018	F		F-SAT-E-BSS-7W	-7
109552007	F		F-SAT-E-BSS-80.5E	80.5
109554007	F		F-SAT-E-BSS-80.5E	80.5
109552008	F		F-SAT-E-BSS-83.5E	83.5
109554008	F		F-SAT-E-BSS-83.5E	83.5
113555005	F		F-SAT-E-BSS-84W	-84
109552009	F		F-SAT-E-BSS-86E	86
109554009	F		F-SAT-E-BSS-86E	86
109552010	F		F-SAT-E-BSS-88.5E	88.5
109554010	F		F-SAT-E-BSS-88.5E	88.5
113555007	F		F-SAT-E-BSS-88W	-88
100551034	F		RADIOSAT-5-5A	-7
100551629	F		RADIOSAT-5-5A	-7
97552056	F		RADIOSAT-5C	-7
97554058	F		RADIOSAT-5C	-7
103552010	G		AM-SAT AF3 BSS	51
103554010	G		AM-SAT AF3 BSS	51
109552024	G		AM-SAT AF3 BSS MOD-A	51
109554024	G		AM-SAT AF3 BSS MOD-A	51
105555002	G		BERMUDASAT-1	-96.2
113555010	G		BERMUDASAT-1A	-96.2
96552021	G		INTELSAT KUEXT 157E	157
96555016	G		INTELSAT KUEXT 304.5	-55.5
97555003	G		INTELSAT KUEXT 304.5	-55.5

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98555008	G		INTELSAT KUEXT 304.5	-55.5
115555003	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
115554006	G		INTELSAT KUEXT 66E	66
111555002	G		IOMSAT-S21	-86.5
111555003	G		IOMSAT-S22	-76.9
113552025	G		UKBSS-18W	-18
113554025	G		UKBSS-18W	-18
113552026	G		UKBSS-34.5W	-34.5
113554026	G		UKBSS-34.5W	-34.5
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
114552017	G		UKDIGISAT-4C	-33.5
112552004	G		UKPAC BSS-1	172
113555011	G		USAT-105.5W	-105.5
114552014	G		USAT-108.4E	108.4
114554014	G		USAT-108.4E	108.4
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
114552026	G		USAT-G14 148E	148
114554026	G		USAT-G14 148E	148
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
107552017	GRC		GRC15002	39
107554017	GRC		GRC15002	39
111555001	HOL		BSSNET3-95W	-95.15
113555006	HOL		BSSNET3A-95W	-95.15
110552014	HOL		NSS-BSS 100E	100
110554014	HOL		NSS-BSS 100E	100
111552004	HOL		NSS-BSS 104E	104
111554004	HOL		NSS-BSS 104E	104
108552010	HOL		NSS-BSS 108.2E	108.2

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108554010	HOL		NSS-BSS 108.2E	108.2
108552013	HOL		NSS-BSS 113.5E	113.5
108554013	HOL		NSS-BSS 113.5E	113.5
111552018	HOL		NSS-BSS 113E	113
111554018	HOL		NSS-BSS 113E	113
109555005	HOL		NSS-BSS 125W	-125
110552002	HOL		NSS-BSS 130E	130
110554002	HOL		NSS-BSS 130E	130
110552010	HOL		NSS-BSS 134E	134
110554010	HOL		NSS-BSS 134E	134
110552008	HOL		NSS-BSS 142E	142
110554008	HOL		NSS-BSS 142E	142
114552025	HOL		NSS-BSS 177W	-177
114554025	HOL		NSS-BSS 177W	-177
114552003	HOL		NSS-BSS 22W	-22
114554003	HOL		NSS-BSS 22W	-22
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
112555010	HOL		NSS-BSS 47.5W	-47.5
115552008	HOL		NSS-BSS 50.5E	50.5
115554008	HOL		NSS-BSS 50.5E	50.5
109552013	HOL		NSS-BSS 50.75E	50.75
109554013	HOL		NSS-BSS 50.75E	50.75
110552013	HOL		NSS-BSS 57E	57
110554013	HOL		NSS-BSS 57E	57
110555002	HOL		NSS-BSS 58W	-58
114552012	HOL		NSS-BSS 60E	60
114554012	HOL		NSS-BSS 60E	60
114552004	HOL		NSS-BSS 80.2E	80.2
114554004	HOL		NSS-BSS 80.2E	80.2
109552012	HOL		NSS-BSS 95E	95
109554012	HOL		NSS-BSS 95E	95
111552034	HOL		NSS-BSS-G2 108.2E	108.2
111554034	HOL		NSS-BSS-G2 108.2E	108.2
114552024	HOL		NSS-BSS-G2 113E	113
114554024	HOL		NSS-BSS-G2 113E	113
114552023	HOL		NSS-BSS-G2 57E	57
114554023	HOL		NSS-BSS-G2 57E	57
114555002	HOL		NSS-BSS-G2 58W	-58
110555003	HOL		NSS-BSS-G2 78W	-78
113552009	HOL		NSS-BSS-G2 95E	95
113554009	HOL		NSS-BSS-G2 95E	95
109552033	I		INTERACT	9

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109554033	I		INTERACT	9
113552008	IND		INSAT-KUP-BSS(111.5)	111.5
113554008	IND		INSAT-KUP-BSS(111.5)	111.5
113552002	IND		INSAT-KUP-BSS(48E)	48
113554002	IND		INSAT-KUP-BSS(48E)	48
113552015	IND		INSAT-KUP-BSS(55.8E)	55.8
113554015	IND		INSAT-KUP-BSS(55.8E)	55.8
113552003	IND		INSAT-KUP-BSS(55E)	55
113554003	IND		INSAT-KUP-BSS(55E)	55
113552016	IND		INSAT-KUP-BSS(68E)	68
113554016	IND		INSAT-KUP-BSS(68E)	68
113552004	IND		INSAT-KUP-BSS(74E)	74
113554004	IND		INSAT-KUP-BSS(74E)	74
115554009	IND		INSAT-KUP-BSS(77.1E)	77.1
113552005	IND		INSAT-KUP-BSS(82.5E)	82.5
113554005	IND		INSAT-KUP-BSS(82.5E)	82.5
113552006	IND		INSAT-KUP-BSS(83E)	83
113554006	IND		INSAT-KUP-BSS(83E)	83
113552007	IND		INSAT-KUP-BSS(93.5E)	93.5
113554007	IND		INSAT-KUP-BSS(93.5E)	93.5
109552001	IRN		IRANDBS2	34
109552002	IRN		IRANDBS2	34
109552003	IRN		IRANDBS2	34
109554001	IRN		IRANDBS2	34
109554002	IRN		IRANDBS2	34
109554003	IRN		IRANDBS2	34
96552042	IRN		IRNDBS-2	26
96554047	IRN		IRNDBS-2	26
112552028	ISR		AMS-BSS-137E	137
112554028	ISR		AMS-BSS-137E	137
111552003	ISR		AMS-BSS-17E	17
111554003	ISR		AMS-BSS-17E	17
111552012	ISR		AMS-BSS-23E	23
111554012	ISR		AMS-BSS-23E	23
111552021	ISR		AMS-BSS-26W	-26
111554021	ISR		AMS-BSS-26W	-26
111552031	ISR		AMS-BSS-33W	-33
111554031	ISR		AMS-BSS-33W	-33
111552030	ISR		AMS-BSS-43E	43
111554030	ISR		AMS-BSS-43E	43
108552008	ISR		AMS-BSS-4W	-4
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

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111554024	ISR		AMS-BSS-B1-4W	-4
113552022	ISR		AMS-BSS-B2-4W	-4
112552013	ISR		AMS-BSS-C1-65E	65
112554013	ISR		AMS-BSS-C1-65E	65
113552038	J		NB-SAT-109.65-OD-EV	109.65
113554038	J		NB-SAT-109.65-OD-EV	109.65
115554003	J		NBSAT-109.65-WB	109.65
102552002	J		NB-SAT-109.85AA	109.85
102552005	J		NB-SAT-109.85AA	109.85
113552039	J		NB-SAT-109.85-OD-EV	109.85
113554039	J		NB-SAT-109.85-OD-EV	109.85
115554004	J		NBSAT-109.85-WB	109.85
102552003	J		NB-SAT-110AA	110
102552006	J		NB-SAT-110AA	110
113552001	J		NB-SAT-110-EV	110
113554001	J		NB-SAT-110-EV	110
113552040	J		NB-SAT-110-OD	110
113554040	J		NB-SAT-110-OD	110
115554005	J		NBSAT-110-WB	110
111552006	J		NB-SAT-128E	128
111554006	J		NB-SAT-128E	128
114552006	J		NB-SAT-150.5E	150.5
114554006	J		NB-SAT-150.5E	150.5
115552002	J		NB-SAT-26W	-26
115554002	J		NB-SAT-26W	-26
114552002	J		NB-SAT-82E	82
114554002	J		NB-SAT-82E	82
115552001	J		NB-SAT-Y15-128E	128
115554001	J		NB-SAT-Y15-128E	128
100552056	J		TAIKI-109.65-34.5	109.65
100554048	J		TAIKI-109.65-34.5	109.65
111552013	KOR		KOREASAT-116E BSS	116
111554013	KOR		KOREASAT-116E BSS	116
100551014	KOR		KOREASAT-2	113
100551401	KOR		KOREASAT-2	113
96552029	KOR		KOREASAT-3	116
96554029	KOR		KOREASAT-3	116
93552003	LUX		DBL	19.2
100551004	LUX		DBL	19.2
100551609	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
100551007	LUX		DBL-28.2E	28.2
100551610	LUX		DBL-28.2E	28.2

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94552009	LUX		DBL-31.5E	31.5
94554009	LUX		DBL-31.5E	31.5
104552003	LUX		DBL-G3-19.2E	19.2
104554004	LUX		DBL-G3-19.2E	19.2
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
109552016	LUX		DBL-G4-16E	16
109554016	LUX		DBL-G4-16E	16
109552026	LUX		DBL-G4-20W	-20
109554026	LUX		DBL-G4-20W	-20
107552011	LUX		DBL-G4-21.5E	21.5
108552014	LUX		DBL-G4-31E	31
108554014	LUX		DBL-G4-31E	31
109552027	LUX		DBL-G4-42E	42
109554027	LUX		DBL-G4-42E	42
109552028	LUX		DBL-G4-47E	47
109554028	LUX		DBL-G4-47E	47
111552027	LUX		DBL-G5-21.5E	21.5
110552030	LUX		DBL-G5-28.5E	28.5
110554030	LUX		DBL-G5-28.5E	28.5
111552008	LUX		DBL-G5-2E	2
111554008	LUX		DBL-G5-2E	2
111552016	LUX		DBL-G5-52.2E	52.2
111554016	LUX		DBL-G5-52.2E	52.2
111552007	LUX		DBL-G5-83E	83
111554007	LUX		DBL-G5-83E	83
113552037	LUX		DBL-G6-127.5E	127.5
113554037	LUX		DBL-G6-127.5E	127.5
113552032	LUX		DBL-G6-19.2E	19.2
113554032	LUX		DBL-G6-19.2E	19.2
113552033	LUX		DBL-G6-21.5E	21.5
113554033	LUX		DBL-G6-21.5E	21.5
113552034	LUX		DBL-G6-23.5E	23.5
113554034	LUX		DBL-G6-23.5E	23.5
113552035	LUX		DBL-G6-28.2E	28.2
113554035	LUX		DBL-G6-28.2E	28.2
113552036	LUX		DBL-G6-31.5E	31.5
113554036	LUX		DBL-G6-31.5E	31.5
111552020	LUX		DBL-G6-83E	83
114552001	LUX		DBL-G9-137E	137
114554001	LUX		DBL-G9-137E	137

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111552032	MCO		MCO-BSS-2E	2
111554032	MCO		MCO-BSS-2E	2
105552009	MCO		MCO-BSS-52E	52
105554009	MCO		MCO-BSS-52E	52
109552034	MCO		MCO-BSS-52EA	52
109554034	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
113552011	MLA		MEASAT-83.7E-BSS	83.7
113554011	MLA		MEASAT-83.7E-BSS	83.7
111552009	MLA		MEASAT-91.5E-BSS	91.5
111554009	MLA		MEASAT-91.5E-BSS	91.5
108552002	MNE		MNESAT	-24
108554002	MNE		MNESAT	-24
115555004	NCG		NICASAT-1-BSS	-84.4
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
100551036	NOR		BIFROST-BSS-0.8W-NOR	-0.8
100551631	NOR		BIFROST-BSS-0.8W-NOR	-0.8
107552007	NOR		EOE-BSS-2007	-0.8
112552003	PNG		AFRISAT BSS-3W	-3
112554003	PNG		AFRISAT BSS-3W	-3
112552010	PNG		NEW DAWN BSS-2	60
113554017	PNG		NEW DAWN BSS-2	60
112552020	PNG		NEW DAWN BSS-3	62
112554020	PNG		NEW DAWN BSS-3	62
112552021	PNG		NEW DAWN BSS-4	64
112554021	PNG		NEW DAWN BSS-4	64
112552022	PNG		NEW DAWN BSS-5	68.5
112554022	PNG		NEW DAWN BSS-5	68.5
113552019	PNG		NEW DAWN BSS-6	166
113554019	PNG		NEW DAWN BSS-6	166
113552020	PNG		NEW DAWN BSS-7	157
113554020	PNG		NEW DAWN BSS-7	157
112552018	PNG		PACIFISAT BSS-116.1E	116.1
112554018	PNG		PACIFISAT BSS-116.1E	116.1
111552015	PNG		PACIFISAT BSS-146.1E	146.1
111554015	PNG		PACIFISAT BSS-146.1E	146.1

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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
113552029	PNG		PACIFISAT BSS-176.1E	176.1
113554029	PNG		PACIFISAT BSS-176.1E	176.1
111552005	PNG		PACIFISAT BSS-59E	59
111554005	PNG		PACIFISAT BSS-59E	59
110552023	PNG		PACIFISAT BSS-61E	61
110554023	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
110552021	PNG		PACIFISAT BSS-67E	67
110554021	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
114552008	PNG		PACIFISAT BSSA-63E	63
114554008	PNG		PACIFISAT BSSA-63E	63
109552011	PNG		PACIFISAT-B-1	75
109554011	PNG		PACIFISAT-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
113552014	QAT		QATARSAT-BSS-135.5E	135.5
113554014	QAT		QATARSAT-BSS-135.5E	135.5
114552019	QAT		QATARSAT-BSS-87E	87
114554019	QAT		QATARSAT-BSS-87E	87
110552029	RUS		AMG-23E-BSS	23
110552018	RUS	IK	INTERSPUTNIK-119E-B	119.1
110554018	RUS	IK	INTERSPUTNIK-119E-B	119.1
109552021	RUS	IK	INTERSPUTNIK-16W-B	-16
109554021	RUS	IK	INTERSPUTNIK-16W-B	-16
108552003	RUS	IK	INTERSPUTNIK-17E-B	17
108554003	RUS	IK	INTERSPUTNIK-17E-B	17
110552017	RUS	IK	INTERSPUTNIK-26W-B	-26
110554017	RUS	IK	INTERSPUTNIK-26W-B	-26
108552006	RUS	IK	INTERSPUTNIK-47.5W-B	-47.5
108554006	RUS	IK	INTERSPUTNIK-47.5W-B	-47.5

ntc_id	adm	ntwk_org	sat_name	long_nom
108555002	RUS	IK	INTERSPUTNIK-47.5W-B	-47.5
108552007	RUS	IK	INTERSPUTNIK-50.5E-B	50.5
108554007	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
112552008	RUS	IK	INTERSPUTNIK-74.9EB2	74.9
112554008	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
100551016	RUS		RST-1	36
100551615	RUS		RST-1	36
108552011	RUS		RST-1A	36
108554011	RUS		RST-1A	36
112554026	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
114552020	S		SIRIUS-13W-BSS-2	-13
114554020	S		SIRIUS-13W-BSS-2	-13
100551031	S		SIRIUS-2-BSS	5
100551626	S		SIRIUS-2-BSS	5
100551032	S		SIRIUS-3-BSS	5.2
100551627	S		SIRIUS-3-BSS	5.2
100551039	S		SIRIUS-4-BSS	5
104552001	S		SIRIUS-5-BSS	4.8
104554001	S		SIRIUS-5-BSS	4.8
105552016	S		SIRIUS-6-BSS	4.8
111552017	S		SIRIUS-7-BSS	4.8
111554017	S		SIRIUS-7-BSS	4.8
114552021	S		SIRIUS-N-BSS	4.8
100551024	TUR		TURKSAT-BSS	42
100551619	TUR		TURKSAT-BSS	42
112552030	TUR		TURKSAT-BSS-42E	42
112554030	TUR		TURKSAT-BSS-42E	42
111552026	TUR		TURKSAT-BSS-50E	50
106552004	UAE		EMARSAT-1	52.5
106554004	UAE		EMARSAT-1	52.5

ntc_id	adm	ntwk_org	sat_name	long_nom
109552036	UAE		YAHSAT-BSS-110.8E	110.8
109554036	UAE		YAHSAT-BSS-110.8E	110.8
109552018	UAE		YAHSAT-BSS-20W	-20
109554018	UAE		YAHSAT-BSS-20W	-20
113552030	UAE		YAHSAT-BSS2-20W	-20
113554030	UAE		YAHSAT-BSS2-20W	-20
111552029	UAE		YAHSAT-BSS2-46E	46
111554029	UAE		YAHSAT-BSS2-46E	46
112552017	UAE		YAHSAT-BSS2-57E	57
112554017	UAE		YAHSAT-BSS2-57E	57
110552028	UAE		YAHSAT-BSS2-60E	60
110554028	UAE		YAHSAT-BSS2-60E	60
112552019	UAE		YAHSAT-BSS2-63E	63
112554019	UAE		YAHSAT-BSS2-63E	63
112552029	UAE		YAHSAT-BSS2-67.5E	67.5
112554029	UAE		YAHSAT-BSS2-67.5E	67.5
110552024	UAE		YAHSAT-BSS-33W	-33
109552030	UAE		YAHSAT-BSS-52.5E	52.5
109554030	UAE		YAHSAT-BSS-52.5E	52.5
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
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

ntc_id	adm	ntwk_org	sat_name	long_nom
107552003	USA		USABSS-29	85.15
95555005	USA		USABSS-2A	-100.85
96555006	USA		USABSS-3	-119.2
98555006	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
112552027	USA		USABSS-38	72
114555001	USA		USABSS-39	-50
96555013	USA		USABSS-4	-118.8
98555004	USA		USABSS-4	-118.8
98555007	USA		USABSS-4	-118.8
115555002	USA		USABSS-41	-109.9
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
112559046	ALG		ALGFSAT-33.5W	-33.50
112559037	ARM		ARMSAT-30B-71.4E	71.40
105559001	ARS	ARB	ARABSAT-AXB30E	30.90
107559004	ARS	ARB	ARABSAT-AXB26E	26.00
107559005	ARS	ARB	ARABSAT-AXB44.5E	44.50
107559033	ARS	ARB	ARABSAT-AXB26E_C	26.00
108559001	ARS	ARB	ARABSAT-AXB30E	30.90
109559012	ARS	ARB	ARABSAT-AXB17E	17.00
110559019	ARS	ARB	ARABSAT-AXB14W	-14.00
110559038	ARS	ARB	ARABSAT-AXB34.5E	34.50
111559008	ARS	ARB	ARABSAT-AXB34.25E	34.25
112559017	ARS	ARB	ARABSAT-AXB26E	26.00
112559019	ARS	ARB	ARABSAT-AXB30.5E	30.50
112559052	ARS	ARB	ARABSAT-AX26E	26.00
112559054	ARS	ARB	ARABSAT-AXB34E	34.00
112559057	ARS	ARB	ARABSAT-AXB26E_C	26.00
112559059	ARS	ARB	ARABSAT-AX26E_C	26.00
112559060	ARS	ARB	ARABSAT-AX26E_KU	26.00
113559028	ARS	ARB	ARABSAT-AXB39E	39.00
114559049	ARS	ARB	ARABSAT-AXB-44.5E	44.50
105558001	AZE		AZE00000	96.00
112559028	B		B-SAT-3I	-63.00
112559042	B		B-SAT-3M	-56.50
112559043	B		B-SAT-3R	-65.00
112559044	B		B-SAT-3K	-69.45
112559055	B		B 00022	-56.50
112559056	B		B 00011	-65.00
114559017	B		B-SAT-3R-1	-65.00
111559046	BGD		BANGSAT-30B-69E	69.00
112559030	BGD		BANGSAT-30B-133E-A	133.00
112559031	BGD		BANGSAT-30B-133E-B	133.00
106558001	BLR		BLR00000	64.40
110559004	BLR		BTS-1-30B	64.40
110559032	BLR		BLR-FSS-51.5E	51.50
111559043	BLR		BLR-SAT-FSS-64.4E	64.40
113559019	BLR		BLR-SAT-FSS-64.4E	64.40
114559059	BLR		BLR-FSS2-51.5E	51.50

ntc_id	adm	ntwk_org	sat_name	long_nom
114559025	BUL		BULSAT-30B-1.9E	1.90
114559031	BUL		BALKANSAT AP30B	56.02
92559006	CAN		MSAT	-106.50
94559014	CAN		MSAT	-106.50
107559007	CAN		CANSAT-24X-30B	-111.10
115559025	CAN		CANOEASTM	-107.50
115559026	CAN		CANSAT-67-30B	-107.50
105559021	CHN		CHINASAT-FSS3	125.00
111559005	CHN		CHINASAT-FSS-51.5E	51.50
112559001	CHN		ASIASAT-30B-120	120.00
112559002	CHN		ASIASAT-30B-122	122.00
112559003	CHN		CHINASAT-30B-87.5E	87.50
112559004	CHN		CHINASAT-30B-110.5E	110.50
112559005	CHN		CHINASAT-30B-115.5E	115.50
112559006	CHN		CHINASAT-30B-125E	125.00
112559012	CHN		ITS-30B-13.5	13.50
112559033	CHN		CHINASAT-30B-8.5W	-8.50
112559034	CHN		CHINASAT-30B-126E	126.00
114559018	CHN		ASIASAT-30B-C3	105.50
114559019	CHN		ASIASAT-30B-E3	100.50
114559041	CHN		COMPASS-30B-58.75E	58.75
114559042	CHN		COMPASS-30B-80E	80.00
114559043	CHN		COMPASS-30B-84E	84.00
114559044	CHN		COMPASS-30B-110.5E	110.50
114559045	CHN		COMPASS-30B-140E	140.00
114559046	CHN		COMPASS-30B-144.5E	144.50
114559047	CHN		COMPASS-30B-160E	160.00
102559002	CTI	RAS	RASCOM-2F	2.90
103559025	CTI	RAS	RASCOM-1F	2.90
109559005	CYP		CYP-30B-59.7E	59.70
110559005	CYP		CYP-30B-59.7E-2	59.70
110559018	CYP		KYPROS-SAT-3	39.00
114559063	CYP		CYP-30B-59.7E-3	59.70
108558002	CZE		CZE00000	-31.90
114559027	D		ODYSSEY FSS-68.5E	68.50
114559032	D		EUROPESTAR FSS-45E	45.00
114559038	D		ODYSSEY FSS-166E	166.00
99559004	E		HISPASAT-1C	-30.00
107559010	E		HISPASAT-1E	-30.00
111559024	E		HISPASAT-7A	-36.00
111559031	E		HISPASAT-6A	-26.00
111559032	E		HISPASAT-8A	-97.50
111559034	E		HISPASAT-5A	-47.50
111559036	E		HISPASAT-9A	-74.00
111559044	E		HISPASAT-1E-M	-30.00
113559024	E		HISPASAT-11A	45.00

ntc_id	adm	ntwk_org	sat_name	long_nom
114559022	E		HISPASAT-23A	-30.00
114559028	E		HISPASAT-24A	-74.00
114559039	E		HISPASAT-30A	-36.00
114559051	E		HISPASAT-34A	-26.00
114559052	E		HISPASAT-35A	-97.50
115559027	E		HISPASAT-40A	-47.50
99559005	F		TELECOM-30B	-8.00
101559043	F		GEOSAT-30B	-7.00
103559014	F		F-SAT-30B	9.00
105559006	F		F-SAT-E-30B-7W	-7.00
105559027	F		F-SAT-E-30B-21.5E	21.50
110559007	F		DUNIA-2-FSS-PLAN	8.00
110559008	F		F-SAT-E-30B-88.5E	88.50
110559009	F		F-SAT-E-30B-86E	86.00
110559010	F		F-SAT-E-30B-83.5E	83.50
110559011	F		F-SAT-E-30B-80.5E	80.50
110559012	F		F-SAT-E-30B-73.5E	73.50
110559013	F		F-SAT-E-30B-70.5E	70.50
110559033	F		F-SAT-E-30B-53E	53.00
111559001	F		F-SAT-E-30B-33E	33.00
111559011	F		F-SAT-E-30B-13E	13.00
111559013	F		MM FSS 10.25W	-10.25
111559014	F		MM FSS 55.2W	-55.20
111559015	F		F-SAT-E-30B-48.2E	48.20
111559018	F		ASAT FSS W092	-92.00
111559019	F		ASAT FSS W094	-94.00
111559030	F		F-SAT-E-30B-61W	-61.00
112559021	F		F-SAT-E-30B-8W	-8.00
112559029	F		ASAT FSS W090	-90.00
112559039	F		F-SAT-E-30B-16E	16.00
112559053	F		F-SAT-E-30B-172E	172.00
113559010	F		F-SAT-E-30B-115.9W	-115.90
113559015	F		CD-SAT FSS 105.2E	105.20
113559025	F		CD-SAT 105.2E REV	105.20
113559027	F		F-SAT-E-30B-28.5E	28.50
113559030	F		F-SAT-E-30B-9E	9.00
113559031	F		F-SAT-E-30B-120W	-120.00
113559032	F		F-SAT-E-30B-25.5E	25.50
113559033	F		F-SAT-E-30B-110E	110.00
113559034	F		F-SAT-E-30B-84W	-84.00
113559039	F		F-SAT-E-30B-88W	-88.00
113559040	F		CD-SAT FSS 123.1W	-123.10
114559011	F		LH-SAT FSS W094	-94.00
114559012	F		LH-SAT FSS W102	-102.00
114559014	F		LH-SAT FSS W092	-92.00
114559021	F		LH-SAT FSS 2.4W	-2.40

ntc_id	adm	ntwk_org	sat_name	long_nom
114559030	F		LH-SAT FSS 151.5E	151.50
114559035	F		F-SAT-E-30B-7E	7.00
114559054	F		F-SAT-E-30B-100W	-100.00
114559055	F		F-SAT-E-30B-143E	143.00
115559001	F		F-SAT-E-30B-133W	-133.00
115559024	F		MR-SAT FSS 53.5W	-53.50
97559001	F	EUT	EUTELSAT EXB-13E	13.00
100559003	F	EUT	EUTELSAT EXB-7E	7.00
100559012	F	EUT	EUTELSAT EXB-70.5E	70.50
101559001	F	EUT	EUTELSAT EXB-16E	16.00
101559002	F	EUT	EUTELSAT EXB-28.5E	28.50
101559008	F	EUT	EUTELSAT EXB-37.2W	13.00
101559009	F	EUT	EUTELSAT EXB-64W_C	-61.00
101559010	F	EUT	EUTELSAT EXB-64W	-61.00
101559014	F	EUT	EUTELSAT EXB-33E	33.00
101559016	F	EUT	EUTELSAT EXB-48E	48.00
101559020	F	EUT	EUTELSAT EXB-10E	10.00
101559022	F	EUT	EUTELSAT EXB-70.5E	70.50
101559042	F	EUT	EUTELSAT EXB-7E	7.00
105559002	F	EUT	EUTELSAT EXB-12.5W	-12.50
105559003	F	EUT	EUTELSAT EXB-36E	36.00
106559002	F	EUT	EUTELSAT EXB-13E	13.00
106559004	F	EUT	EUTELSAT EXB-70.5E	70.50
106559007	F	EUT	EUTELSAT EXB-7E	7.00
107559020	F	EUT	EUTELSAT EXB-64W	-61.00
111559040	G		IOMSAT-45W	-45.00
112559018	G		UKMMSAT-A4	-33.50
113559001	G		IOMSAT-15W-B	-15.00
113559007	G		IOMSAT-63W-B	-63.00
113559014	G		IOMSAT-138E-B	138.00
113559041	G		UKFSS-34.5W	-34.50
113559042	G		UKFSS-18W	-18.00
114559040	G		UKFSS-18W-A	-18.00
114559057	G		UKMMSAT-4E	55.00
114559061	G		GIBSAT-FSS-G14 129W	-129.00
114559062	G		GIBSAT-FSS 108.4E	108.40
115559002	G		GIBSAT-FSS 72W	-72.00
115559039	G		GIBSAT-FSS 125W	-125.00
108559011	GRC		HELLAS-SAT-3G	39.00
90558100	HNG		HNG00000	-7.50
97559002	HNG		CERES-1	-4.00
106559008	HNG		CERES-1	-4.00
112559045	HNG		CERES-1	-4.00
115559023	HNG		CERES-1E	-4.00
107559029	HOL		NSS-FSS 95E	95.00
107559030	HOL		NSS-FSS 57E	57.00

ntc_id	adm	ntwk_org	sat_name	long_nom
107559031	HOL		NSS-FSS 22W	-22.00
108559003	HOL		NSS-FSS 40.5W	-40.50
108559004	HOL		NSS-FSS 108.2E	108.20
111559002	HOL		NSS-FSS 130E	130.00
111559003	HOL		NSS-FSS 142E	142.00
111559033	HOL		NSS-FSS-G2 95E	95.00
111559037	HOL		NSS-FSS-G2 40.5W	-40.50
112559035	HOL		NSS-FSS 105W	-105.00
112559048	HOL		NSS-FSS 37.5W	-37.50
112559049	HOL		NSS-FSS 47.5W	-47.50
113559003	HOL		NSS-FSS 77W	-77.00
113559004	HOL		NSS-FSS-G2 22W	-22.00
113559005	HOL		NSS-FSS-G2 57E	57.00
113559037	HOL		NSS-FSS-G2-108.2E	108.20
113559038	HOL		NSS-FSS-G2 77W	-77.00
113559052	HOL		NSS-FSS-G2 37.5W	-37.50
113559053	HOL		NSS-FSS-G2 47.5W	-47.50
114559004	HOL		NSS-FSS 148E	148.00
114559005	HOL		NSS-FSS 135W	-135.00
114559006	HOL		NSS-FSS 177W	-177.00
114559065	HOL		NSS-FSS 103W	-103.00
89559001	IND		INSAT-2A	83.00
89559002	IND		INSAT-2B	93.50
89559003	IND		INSAT-2C	74.00
108559009	IND		ESSELSAT-2	98.50
109559006	IND		INSAT-EXK82.5E	82.50
113559016	IND		INSAT-EXC(48E)	48.00
113559018	IND		INSAT-EXC55E	55.00
113559020	IND		INSAT-EXC(82E)	82.00
113559021	IND		INSAT-EXC(83E)	83.00
114559036	IND		INSAT-PKU63E	63.00
115559008	IND		INSAT-KUP-FSS(48E)	48.00
115559009	IND		INSAT-KUP-FSS(55E)	55.00
115559010	IND		INSAT-KUP-FSS(68E)	68.00
115559011	IND		INSAT-KUP-FSS(71E)	71.00
115559012	IND		INSAT-KUP-FSS(74E)	74.00
115559013	IND		INSAT-KUP-FSS(77.1E)	77.10
115559014	IND		INSAT-KUP-FSS(82.5E)	82.50
115559015	IND		INSAT-KUP-FSS(85.5E)	85.50
115559016	IND		INSAT-KUP-FSS(93.5E)	93.50
115559017	IND		INSAT-KUP-FSS(97.3E)	97.30
115559018	IND		INSAT-KUP-FSS(111.5)	111.50
112559027	IRN		IRN-30B-34E	34.00
113559049	IRQ		IRAQSAT1-30B	65.45
95559001	ISR		AMOS-II 4W	-4.00
109559008	ISR		AMS-30B-65E	65.00

ntc_id	adm	ntwk_org	sat_name	long_nom
110559017	ISR		AMS-30B-17E	17.00
110559021	ISR		AMS-30B-C-65E	65.00
110559024	ISR		AMS-30B-4W	-4.00
111559009	ISR		AMS-30B-23E	23.00
111559022	ISR		AMS-30B-26W	-26.00
111559038	ISR		AMS-30B-33W	-33.00
111559039	ISR		AMS-30B-43E	43.00
111559045	ISR		AMS-30B-82.5E	82.50
112559051	ISR		AMS-30B-137E	137.00
115559030	ISR		AMS-30B-67.25E	67.25
114559002	J		NFP-SAT-82E	82.00
114559003	J		NFP-SAT-128E	128.00
115559005	J		NFP-SAT-110W	-110.00
115559006	J		NFP-SAT-26W	-26.00
104558002	KAZ		KAZ00000	58.50
110559035	KAZ		KAZSAT-30B-58.5E	58.50
115559003	KAZ		KAZSAT-30B-58.5E-2	58.50
97558001	KGZ		KGZ00000	64.60
113559013	LAO		LAOSAT-FSS-128.5E	128.50
113559044	LAO		LSTAR-126E-30B	126.00
111558001	LBY		LBY0000	28.90
107558001	LTU		LTU00000	-9.30
90558513	LUX		GDL-6	19.20
90559004	LUX		GDL-6	19.20
93559001	LUX		GDL-6	19.20
95559003	LUX		GDL-6	19.20
103559010	LUX		LUX-30B-5	19.20
103559011	LUX		LUX-30B-6	23.50
103559012	LUX		LUX-30B-7	28.20
107559022	LUX		LUX-30B-G4-19.2E	19.20
107559023	LUX		LUX-30B-G4-21.5E	21.50
107559024	LUX		LUX-30B-G4-23.5E	23.50
107559025	LUX		LUX-30B-G4-28.2E	28.20
107559026	LUX		LUX-30B-G4-31E	31.00
109559009	LUX		LUX-30B-G4-2E	2.00
109559010	LUX		LUX-30B-G4-31.5E	31.50
109559015	LUX		LUX-30B-G4-20W	-20.00
109559016	LUX		LUX-30B-G4-42E	42.00
109559017	LUX		LUX-30B-G4-47E	47.00
110559030	LUX		LUX-30B-G5-7W	-7.00
112559010	LUX		LUX-30B-G5-67W	-67.00
112559011	LUX		LUX-30B-G5-52.2E	52.20
105559004	MCO		MCO-FSS-52E	52.00
110559034	MCO		MCO-FSS-52EA	52.00
112559032	MCO		MCO-FSS-52EAP	52.00
114558001	MCO		MCO00000	52.00

ntc_id	adm	ntwk_org	sat_name	long_nom
114559010	MCO		MCO-FSS-52EA TTC	52.00
111559041	MEX		MEXSAT 113 AP30B	-113.00
112559015	MEX		MEXSAT 109.2 AP30B	-109.20
112559016	MEX		MEXSAT 116.8 AP30B	-116.80
107559028	MLA		MLA-GOV	78.50
111559010	MLA		MEASAT-91.5E-30B	91.50
113559008	MLA		MEASAT-83.7E-FSS	83.70
115559033	MLA		MEASAT-91.5E-30B-A	91.50
115559034	MLA		MEASAT-91.5E-30B-B	91.50
113559009	MNE		MNE00000	-36.60
113559046	MNG		SANSAR-1	113.60
96559009	NOR		BIFROST 2 FSS	-0.80
102559001	NOR		BIFROST-3-FSS	-0.80
112559038	NOR		BIFROST-5-FSS	-0.80
90558162	PHL		PHL00000	161.00
109559007	PNG		PACIFISAT1-PC	75.00
110559022	PNG		AFRISAT 3W-PC	-3.00
110559023	PNG		AFRISAT 3W-PKU	-3.00
111559017	PNG		PACIFISAT-1-PKU	75.00
112559014	PNG		NEW DAWN FSS-1	-50.00
112559020	PNG		NEW DAWN FSS-2	60.00
112559040	PNG		NEW DAWN FSS-3	62.00
112559041	PNG		NEW DAWN FSS-4	64.00
113559026	PNG		NEW DAWN FSS-6	157.00
113559029	PNG		NEW DAWN FSS-5	166.00
113559048	PNG		PACIFISAT-PFSS-159E	159.00
113559055	PNG		NEW DAWN FSS-7	169.00
114559007	PNG		NEW DAWN FSS-5	166.00
114559008	PNG		NEW DAWN FSS-6	157.00
114559009	PNG		NEW DAWN FSS-7	169.00
114559015	PNG		PACIFISAT-FSS-176.1E	176.10
114559016	PNG		PACIFISAT-PFSS-75E	75.00
114559023	PNG		RAGGIANA AP30B-1	-113.00
114559024	PNG		RAGGIANA AP30B-2	-115.00
114559037	PNG		NEW DAWN FSS-7	169.00
114559053	PNG		PACIFISAT-FSS-116.1E	116.10
115559021	PNG		PACIFISAT-FSS-92W	-92.00
115559022	PNG		PACIFISAT-30B-116.1E	116.10
115559028	PNG		NEW DAWN FSS-3	62.00
115559029	PNG		PACIFISAT-FSS-88W	-88.00
115559037	PNG		PACIFISAT-FSS-39W	-39.00
115559038	PNG		PACIFISAT-FSS-53W	-53.00
111559042	QAT		QATARSAT-30B-0.9E	0.90
112559047	QAT		QATARSAT-30B-26E	26.00
113559011	QAT		QATARSAT-30B-14.5E	14.50
113559012	QAT		QATARSAT-30B-135.5E	135.50

ntc_id	adm	ntwk_org	sat_name	long_nom
115559007	QAT		QATARSAT-30B-87E	87.00
115559035	QAT		QATARSAT-30B-73.5E	73.50
115559036	QAT		QATARSAT-30B-99E	99.00
107559034	QAT	ARB	ARABSAT-AXB26E_KU	26.00
112559058	QAT	ARB	ARABSAT-AXB26E_KU	26.00
89559004	RUS		ZSSRD-2	-16.00
90558227	RUS		RUS0A	87.70
90558627	RUS		RUS0B	87.70
92559001	RUS		FOTON-1	-13.50
92559002	RUS		FOTON-3	-168.00
92559005	RUS		FOTON-2	80.00
94559001	RUS		ESDRN	-160.00
94559002	RUS		CSDRN	95.00
94559003	RUS		WSDRN	-16.00
94559011	RUS		CSSRD-2	77.00
94559012	RUS		VSSRD-2	167.00
101559037	RUS		STATSIONAR-D3	35.00
101559038	RUS		STATSIONAR-D4	45.00
101559039	RUS		STATSIONAR-D5	85.40
101559040	RUS		STATSIONAR-D6	128.00
105559054	RUS		ZERKALO	88.10
105559055	RUS		RUS00001	61.00
105559056	RUS		RUS00003	138.50
105559067	RUS		WSDRN-M	-16.00
105559068	RUS		CSDRN-M	95.00
105559069	RUS		VSSRD-2M	167.00
108559005	RUS		YAMAL-PK1	49.00
108559006	RUS		YAMAL-PK2	55.00
108559007	RUS		YAMAL-PK3	81.75
108559008	RUS		YAMAL-PK4	90.00
109559001	RUS		EXPRESS-10P	140.00
109559002	RUS		EXPRESS-5P	53.00
111559020	RUS		YAMAL-FSS-55E	55.00
111559021	RUS		YAMAL-FSS-90E	90.00
111559025	RUS		EXPRESS-P 146.5	146.50
111559026	RUS		EXPRESS-4P	40.00
112559013	RUS		EXPRESS-P_KU 146.5	146.50
113558001	RUS		RUS00002	88.10
114559026	RUS		YAMAL-FSS-81.75E	81.75
114559029	RUS		YAMAL-FSS-49E	49.00
114559033	RUS		GT-SAT-30B-76.5E	76.50
114559034	RUS		GT-SAT-30B-93E	93.00
114559048	RUS		EXPRESS-6P	80.00
115559019	RUS		EXPRESS-8P	96.50
110559014	RUS	IK	INTERSPUTNIK-47.5W-F	-47.50
110559015	RUS	IK	INTERSPUTNIK-16W-F	-16.00

ntc_id	adm	ntwk_org	sat_name	long_nom
110559016	RUS	IK	INTERSPUTNIK-78E-F	78.00
110559025	RUS	IK	INTERSPUTNIK-119E-F	119.10
110559026	RUS	IK	INTERSPUTNIK-67.3E-F	67.30
110559027	RUS	IK	INTERSPUTNIK-67.8E-F	67.80
110559028	RUS	IK	INTERSPUTNIK-26W-F	-26.00
110559029	RUS	IK	INTERSPUTNIK-62.5E-F	62.50
111559006	RUS	IK	INTERSPUTNIK-156E-F	156.00
111559007	RUS	IK	INTERSPUTNIK-164E-F	164.00
111559023	RUS	IK	INTERSPUTNIK-52.5W-F	-52.50
111559027	RUS	IK	INTERSPUTNIK-87W-F	-87.00
111559028	RUS	IK	INTERSPUTNIK-97.8W-F	-97.80
111559029	RUS	IK	INTERSPUTNIK-113W-F	-113.00
112559024	RUS	IK	INTERSPUTNIK-98E-F	98.00
112559025	RUS	IK	INTERSPUTNIK-103E-F	103.00
113559006	RUS	IK	INTERSPUTNIK-159E-F	159.00
115559031	RUS	IK	INTERSPUTNIK-118W-F	-118.10
115559032	RUS	IK	INTERSPUTNIK-107W-F	-107.00
96559010	S		SIRIUS-30B	5.00
103559009	S		SIRIUS-30B-5E	5.00
105559046	S		SIRIUS-30B-5E-3	5.00
107559027	S		SIRIUS-30B-5E-4	5.00
108559002	S		SIRIUS-30B-3E-2	3.00
109559018	S		SIRIUS-30B-13W	-13.00
112559007	S		SIRIUS-30B-5E-5	5.00
112559008	S		OHO-30B-67.1W	-67.10
112559009	S		OHO-30B-177E	177.00
113559002	S		OHO-30B-86E	86.00
113559035	S		OHO-30B-95W	-95.00
114559064	S		OHO-30B-41E	41.00
111559012	SDN		SUDANSATFSS-1	23.55
108558001	SEY		SEY00000	42.50
108559010	TUR		TURKSAT-42E-FSS	42.00
109559019	TUR		TURKSAT-31E-FSS	31.00
109559020	TUR		TURKSAT-50E-FSS	50.00
110559006	UAE		YAHSAT-FSS-52.5E	52.50
110559031	UAE		YAHSAT-FSS-60E	60.00
110559036	UAE		YAHSAT-FSS-45W	-45.00
110559037	UAE		YAHSAT-FSS-28W	-28.00
111559004	UAE		YAHSAT-FSS-55W	-55.00
113559047	UAE		YAHSAT-FSS-20W	-20.00
113559050	UAE		YAHSAT-FSS-47.5E	47.50
113559051	UAE		YAHSAT-FSS2-52.5E	52.50
115558001	UKR		UKR00001	38.20
90558212	USA		USA00000	-101.00
96559005	USA		USASAT 26G	-58.00
104559005	USA		USASAT-55E	-43.00

ntc_id	adm	ntwk_org	sat_name	long_nom
109559013	USA		MSV-1-30B-A	-101.30
114559060	USA		USASAT-101B	-50.00
104558001	UZB		UZB00000	110.50
107559019	VEN		VENESAT-30B	-78.00
104559003	VTN		VINASAT-FSS-131E-III	131.80
108558003	VTN		VTN00000	107.00
110559002	VTN		VINASAT-FSS-131E-IV	131.80
113559045	VTN		VINASAT-30B-132E	131.80

ANNEX 4

STATISTICS

Table 4.1: Satellite filings (network) and regulatory status

(in application of the provisions of Article 9 and/or Article 11 of the Radio Regulations)

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

Year	Networks		A	C	N
2015	GSO	5656	2782	1773	1101
	non-GSO	696	272	43	381
	TOTAL	6352	3054	1816	1482
2014	GSO	4641	1902	1654	1085
	non-GSO	611	190	42	379
	TOTAL	5252	2092	1696	1464
2013	GSO	4017	1520	1418	1079
	non-GSO	566	157	41	368
	TOTAL	4583	1677	1459	1447
2012	GSO	3993	1688	1264	1041
	non-GSO	545	155	37	353
	TOTAL	4538	1843	1301	1394
2011	GSO	3371	1162	1188	1021
	non-GSO	509	132	37	340
	TOTAL	3880	1294	1225	1361
2010	GSO	3133	966	1115	1052
	non-GSO	495	139	36	320
	TOTAL	3628	1105	1151	1372
2009	GSO	3166	1043	1109	1014
	non-GSO	520	186	36	298
	TOTAL	3686	1229	1145	1312
2008	GSO	3126	1017	1249	860
	non-GSO	438	115	35	288
	TOTAL	3564	1132	1284	1148

Table 4.2: Count of unique filings (networks) per administration
(in application of the provisions of Article 9 and/or Article 11 of the Radio Regulations)

Total count – 90 administrations

ADM	A	C	N	TOTAL
AFS	14			14
ALG	8	2	1	11
ARG	5	5	4	14
ARM		1		1
ARS	3	2	2	7
ARS/ARB	21	31	13	65
AUS	5	22	28	55
AUT			1	1
AZE	33	9		42
B	8	21	23	52
BEL	1		4	5
BGD		1		1
BLR	24	1	1	26
BOL		1		1
BUL	1	3		4
CAN	12	34	34	80
CHL	2		1	3
CHN	237	97	115	449
CLM	1	4		5
CLM/ASA			1	1
CTI/RAS	30	7	1	38
CYP	98	26	2	126
CZE	10	3		13
D	23	20	18	61
D/EUM	2	5	3	10
D/GLS			1	1
DNK	7			7
E	16	64	18	98
EGY	60	23	3	86
EST			1	1
ETH	6			6
F	502	342	62	906
F/ESA	3		27	30
F/EUT			31	31
F/GLS		1	4	5
FIN			1	1
G	84	181	59	324
GRC			2	2
HNG	1			1

ADM	A	C	N	TOTAL
HOL	65	61	39	165
I	7	13	9	29
I/GLS			1	1
IND	47	55	54	156
INS	4	16	18	38
IRN	6	20	6	32
IRQ		4		4
ISR	370	48	6	424
J	166	70	106	342
JOR	19			19
KAZ	10	17	6	33
KOR	13	25	17	55
LAO		4		4
LIE	1	2		3
LTU	2		2	4
LUX	167	100	14	281
LVA	1		1	2
MAU	2	2		4
MCO	4			4
MEX	9	18	13	40
MLA	1	24	11	36
MNG	1	1		2
MRC	1			1
NCG	1	1		2
NIG	18	1		19
NOR	31	51		82
NRU		1		1
NZL	1			1
PAK	5	3	3	11
PHL	1			1
PNG	46	93	3	142
POL	1		1	2
PRU	1			1
QAT	89	24		113
ROU	1			1
RUS	43	44	189	276
RUS/IK	47	15	9	71
S	24	4	9	37
SNG	8	4	2	14
SUI	3		2	5
SVK	1			1
SVN	1			1
THA	9	4	14	27
TON			7	7
TUR	75	8	19	102

ADM	A	C	N	TOTAL
UAE	398	60	11	469
UKR	4	5	2	11
URG	1		1	2
USA	86	107	441	634
VEN			1	1
VTN	46	5	4	55
TOTAL	3054	1816	1482	6352

ANNEX 5

Liste des systèmes à satellite Description des colonnes

List of the satellite systems Description of the columns

Lista de los sistemas de satélites Descripción de las columnas

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