29 January 2020

ITU Radiocommunication Bureau (BR)
2019 Annual Space Services Report to the STSC 2020 Session
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 (STSC) of the 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 31.12.2019** 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 31.12.2019** 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 **BR Annual Space Sevrices Report to the STSC 2020 Session on the use of the Geostationary-Satellite Orbit (GSO) and other orbits** is available in six languages of the Union in PDF or CSV 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 services 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 31.12.2019 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
113520121	ALG		ALCOMSAT-24.8W	-24.8	C	CR/C	3389	2766
114520218	ALG		ALCOMSAT-27.6W	-27.6	C	CR/E	957	2812
114520218	ALG		ALCOMSAT-27.6W	-27.6	C	CR/C	3672	2812
116520428	ALG		ALGSAT-24.8W	-24.8	C	CR/E	1474	2863
116520428	ALG		ALGSAT-24.8W	-24.8	C	CR/C	4327	2863
116520429	ALG		ALGSAT-27.6W	-27.6	C	CR/E	1475	2863
116520429	ALG		ALGSAT-27.6W	-27.6	C	CR/C	4328	2863
116520430	ALG		ALGSAT-33.5W	-33.5	C	CR/E	1476	2863
116520430	ALG		ALGSAT-33.5W	-33.5	C	CR/C	4329	2863
113520066	ARG		ARSAT-D	-81	C	CR/C	3365	2762
115520101	ARG		ARSAT-F	-91.5	C	CR/C	3809	2818
115520102	ARG		ARSAT-G	-72	C	CR/C	3810	2818
115520103	ARG		ARSAT-H	-38.5	C	CR/C	3811	2818
117520224	ARG		ARSAT-M	-81	C	CR/C	4520	2877
96500487	ARG		NAHUEL-C	-72	N	PART-IIS		2586
105500330	ARG		P-P-SAT-1	-81	N	PART-IIS		2653
113520013	ARM		ARMSAT1	71.4	C	CR/C	3370	2762
90500092	ARS	ARB	ARABSAT 1-B	26	N	PART-IIS		2760
97500434	ARS	ARB	ARABSAT 2-A	30.5	N	PART-IIS		2840
97500433	ARS	ARB	ARABSAT 2-B	26	N	PART-IIS		2833
102500474	ARS	ARB	ARABSAT 2-C	20	N	PART-IIS		2686
110500040	ARS	ARB	ARABSAT 5A-30.5E	30.5	N	PART-IIS		2731
111500061	ARS	ARB	ARABSAT 5B-26E	26	N	PART-IIS		2731
111500210	ARS	ARB	ARABSAT 5C-20E	20	N	PART-IIS		2814
111500139	ARS	ARB	ARABSAT 6E-34.5E	34.5	N	PART-IIS		2731
118500054	ARS	ARB	ARABSAT 7A-30.5E	30.5	N	PART-IIS		2907
116500183	ARS	ARB	ARABSAT 7B-26E	26	N	PART-IIS		2863
117500066	ARS	ARB	ARABSAT 7C-20E	20	N	PART-IIS		2907
113500044	ARS	ARB	ARABSAT 7F-44.5E	44.5	N	PART-IIS		2894
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/E	1226	2843

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
113520019	ARS	ARB	ARABSAT 8F-44.5E	44.5	C	CR/C	3336	2843
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
116520124	ARS	ARB	ARABSAT-8A-30.5ER	30.5	C	CR/C	4105	2858
116520125	ARS	ARB	ARABSAT-8B-26ER	26	C	CR/C	4106	2858
116520126	ARS	ARB	ARABSAT-8C-20ER	20	C	CR/C	4107	2858
116520127	ARS	ARB	ARABSAT-8E-34.5ER	34.5	C	CR/C	4108	2858
116520128	ARS	ARB	ARABSAT-8F-44.5ER	44.5	C	CR/C	4109	2858
116520129	ARS	ARB	ARABSAT-8H-17ER	17	C	CR/C	4110	2858
119520141	ARS	ARB	ARABSAT-9A-30.5E	30.5	C	CR/C	5045	2905
117520218	ARS	ARB	ARABSAT-9AS-81.5E	81.5	C	CR/C	4515	2877
119520142	ARS	ARB	ARABSAT-9B-26E	26	C	CR/C	5046	2905
119520143	ARS	ARB	ARABSAT-9C-20E	20	C	CR/C	5047	2905
119520144	ARS	ARB	ARABSAT-9E-34.5E	34.5	C	CR/C	5048	2905
117520216	ARS	ARB	ARABSAT-9F-44.5E	44.5	C	CR/C	4513	2877
119520145	ARS	ARB	ARABSAT-9G-11E	11	C	CR/C	5049	2905
117520215	ARS	ARB	ARABSAT-9L-1E	1	C	CR/C	4514	2877
117520217	ARS	ARB	ARABSAT-9M-67.5E	67.5	C	CR/C	4516	2877
116520122	ARS	ARB	ARABSAT-AS-78ER	78	C	CR/C	4112	2858
116520123	ARS	ARB	ARABSAT-AS-81.5ER	81.5	C	CR/C	4113	2858
110500087	ARS	ARB	ARABSAT-EXT-C2	26	N	PART-IIS		2822
108501204	ARS	ARB	ARABSAT-KA-26E	26	N	PART-IIS		2735
109500199	ARS	ARB	ARABSAT-KA-30.5E	30.5	N	PART-IIS		2735
107500526	ARS	ARB	ARABSAT-KU-26E	26	N	PART-IIS		2735
117520084	ARS		S2	37	C	CR/C	4435	2869
117520085	ARS		S2-N	41	C	CR/C	4436	2869
119520094	AUS		ADF 104E IOR	104	C	CR/C	5012	2902
119520095	AUS		ADF 140E POR	140	C	CR/C	5011	2902
110500203	AUS		ADF 156E GOV	156	N	PART-IIS		2847
119520096	AUS		ADF 156E POR	156	C	CR/C	5013	2902
119520093	AUS		ADF 88E IOR	88	C	CR/C	5009	2902
119520092	AUS		ADF 95E IOR	95	C	CR/C	5010	2902
112500258	AUS		ADF UHF-2	72.1	N	PART-IIS		2784
112500276	AUS		ADF WEST-2	88	N	PART-IIS		2744
112500052	AUS		ADF WEST-5	104	N	PART-IIS		2729
99500259	AUS		ASIABSS	105	N	PART-IIS		2521
117520331	AUS		AUS-NBN-135E	135	C	CR/C	4574	2881
117520332	AUS		AUS-NBN-142.5E	142.5	C	CR/C	4575	2881
117520333	AUS		AUS-NBN-148E	148	C	CR/C	4576	2881
117500041	AUS		AUS-NBN-3	140	N	PART-IIS		2858
118500066	AUS		AUS-NBN-4	145	N	PART-IIS		2896
108500604	AUS		AUSSAT B 152E	152	N	PART-IIS		2906
92500028	AUS		AUSSAT B 156E S	156	N	PART-IIS		2790
92500021	AUS		AUSSAT B 160E	160	N	PART-IIS		2744
92500023	AUS		AUSSAT B 160E NZ	160	N	PART-IIS		2744
92500024	AUS		AUSSAT B 160E S	160	N	PART-IIS		2847

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
100500300	AUS		AUSSAT B 164E	164	N	PART-IIS		2884
103500076	AUS		AUSSAT B 164E MOB	164	N	PART-IIS		2896
104500282	AUS		AUSSAT C 156E GOV	156	N	PART-IIS		2847
112500246	AUS		AUSSAT C 156E GOVR	156	N	PART-IIS		2765
108501261	AUS		AUSSAT D 156E FSS	156	N	PART-IIS		2827
111500304	AUS		AUSSAT D 160E FSS	160	N	PART-IIS		2856
115520169	AUS		AUSSAT F 156E	156	C	CR/C	3861	2825
115520170	AUS		AUSSAT F 160E	160	C	CR/C	3862	2825
115520120	AUS		AUSSAT F 164E	164	C	CR/E	1011	2817
115520120	AUS		AUSSAT F 164E	164	C	CR/C	3822	2817
112500096	AUS		DDSP-104E	104	N	PART-IIS		2868
113500110	AUS		DDSP-2	88	N	PART-IIS		2756
119500100	AUS		DDSP-4	95	N	PART-IIS		2901
104500279	AUS		DEF-R-SAT-1A	82	N	PART-IIS		2795
104500280	AUS		DEF-R-SAT-2A	72	N	PART-IIS		2795
104500281	AUS		DEF-R-SAT-3A	93	N	PART-IIS		2795
104500293	AUS		DEF-R-SAT-4B 121.0E	121	N	PART-IIS		2795
115520145	AUS		DEF-R-SAT-5B	68	C	CR/C	3838	2820
115520146	AUS		DEF-R-SAT-6B	95.6	C	CR/C	3839	2820
114520269	AZE		AZERSAT 45E	45	C	CR/C	3720	2810
114523090	AZE		AZERSAT 45E_1	45	C	CR/F	201	2795
115520338	AZE		AZERSAT-F	58.5	C	CR/C	4007	2839
116520458	AZE		AZERSAT-G (59E)	59	C	CR/C	4291	2860
117520483	AZE		AZERSAT-H (59E)	59	C	CR/C	4650	2902
102500255	B		B-SAT E	-63	N	PART-IIS		2887
107500035	B		B-SAT I	-63	N	PART-IIS		2842
104500559	B		B-SAT P	-84	N	PART-IIS		2869
117520103	B		B-SAT-1A-2	-45	C	CR/C	4433	2869
117520104	B		B-SAT-1A-3	-45	C	CR/C	4434	2869
110500015	B		B-SAT-1C	-70	N	PART-IIS		2905
112520146	B		B-SAT-1C-1	-70	C	CR/C	3176	2744
118520154	B		B-SAT-1C-2	-70	C	CR/C	4800	2898
115520210	B		B-SAT-1F-2	-92	C	CR/C	3899	2830
114520002	B		B-SAT-1I	-63	C	CR/C	3557	2791
118500209	B		B-SAT-1I-1	-63	N	PART-IIS		2893
110500094	B		B-SAT-1J	-68	N	PART-IIS		2891
115520229	B		B-SAT-1O-1	-10	C	CR/C	3914	2832
113500076	B		B-SAT-1Q	-61	N	PART-IIS		2774
111500083	B		B-SAT-1R	-65	N	PART-IIS		2762
112520473	B		B-SAT-1R-1	-65	C	CR/C	3300	2756
114500066	B		B-SAT-1S	-75	N	PART-IIS		2873
119500183	B		B-SAT-1S-1	-75	N	PART-IIS		2908
117520337	B		B-SAT-1V	-57	C	CR/C	4578	2884
113500050	B		B-SAT-1W	-48	N	PART-IIS		2900
112520148	B		B-SAT-1W-1	-48	C	CR/C	3179	2744
114520219	B		B-SAT-1W-2	-47.5	C	CR/C	3732	2812
117520470	B		B-SAT-1X	-40.5	C	CR/C	4637	2902
116520059	B		B-SAT-1Z	-20	C	CR/C	4044	2842
118500049	B		B-SAT-2J	-68	N	PART-IIS		2891

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
116500148	B		B-SAT-2N	-84	N	PART-IIS		2905
116520200	B		B-SAT-2N-1	-84	C	CR/C	4178	2855
118520173	B		B-SAT-2R	-65	C	CR/C	4802	2898
118520112	B		B-SAT-31.5W	-31.5	C	CR/C	4747	2895
116500282	B		B-SAT-3A-2 TT&C	-44.9	N	PART-IIS		2893
118520113	B		B-SAT-53W	-53	C	CR/C	4748	2895
118520114	B		B-SAT-59W	-59	C	CR/C	4749	2895
119520131	B		B-SAT-61W	-61	C	CR/C	5039	2904
118520115	B		B-SAT-72.5W	-72.5	C	CR/C	4750	2895
118520116	B		B-SAT-78W	-78	C	CR/C	4745	2895
118520117	B		B-SAT-80W	-80	C	CR/C	4746	2895
118520271	B		B-SAT-89W	-89	C	CR/E	1884	2898
118520271	B		B-SAT-89W	-89	C	CR/C	4844	2898
104500485	B		B-SAT-Q	-61	N	PART-IIS		2842
109500279	B		B-SAT-R	-65	N	PART-IIS		2671
107500108	B		B-SAT-S	-75	N	PART-IIS		2882
101500552	B		SBTS B1	-70	N	PART-IIS		2744
101500553	B		SBTS B2	-65	N	PART-IIS		2744
101500554	B		SBTS B3	-61	N	PART-IIS		2827
103500244	B		SBTS B4	-92	N	PART-IIS		2899
106500431	B		SBTS C1	-70	N	PART-IIS		2904
98500054	B		SISCOMIS-2	-65	N	PART-IIS		2744
117500315	B		SISCOMIS-2A	-65	N	PART-IIS		2897
98500055	B		SISCOMIS-3	-70	N	PART-IIS		2744
117500316	B		SISCOMIS-3A	-70	N	PART-IIS		2898
108500588	B		SISCOMIS-4	-75	N	PART-IIS		2658
117500317	B		SISCOMIS-4A	-75	N	PART-IIS		2893
116520173	B		SISCOMIS-8A	-48	C	CR/C	4267	2859
117520315	B		SISCOMIS-9	-57	C	CR/C	4561	2881
108501099	BEL		SATCOM-4/10E	10	N	PART-IIS		2659
106500280	BEL		SATCOM-4/20.2W	-20.2	N	PART-IIS		2670
116520023	BLR		BTS-3-NP	51.5	C	CR/C	4030	2840
118520195	BOL		TKSAT-2	-34.8	C	CR/C	4821	2903
117500050	BOL		TUPAK KATARI-1	-87.2	N	PART-IIS		2861
116520135	BUL		BUL-KUX-1.9E	1.9	C	CR/C	4236	2858
117520484	BUL		BUL-QV-1.9E	1.9	C	CR/C	4644	2902
112520195	BUL		BULSAT-1.9E	1.9	C	CR/C	3187	2745
112523011	BUL		BULSAT-22GHZ	45	C	CR/F	8	2736
117500208	BUL		BULSAT-BSS-1.2W-W	1.9	N	PART-IIS		2896
93500182	CAN		ANIK E-A	-107.3	N	PART-IIS		2674
93500184	CAN		ANIK E-B	-111.1	N	PART-IIS		2674
102500408	CAN		ANIK E-D	-118.7	N	PART-IIS		2564
106500142	CAN		ANIK-F1	-107.3	N	PART-IIS		2690
105500032	CAN		ANIK-F2	-111.1	N	PART-IIS		2750
119500040	CAN		ANIK-F2R	-111.1	N	PART-IIS		2900
111520021	CAN		ANIK-F3R	-118.7	C	CR/C	2796	2871
116520178	CAN		CAN-BSS-107.3W	-107.3	C	CR/C	4150	2852
105500424	CAN		CAN-BSS1 TTAC	-82	N	PART-IIS		2881
112500165	CAN		CAN-BSS19	-103	N	PART-IIS		2799

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
105500425	CAN		CAN-BSS2 TTAC	-91.1	N	PART-IIS		2881
115500129	CAN		CAN-BSS31	-91	N	PART-IIS		2823
114500102	CAN		CAN-BSS36	-107.3	N	PART-IIS		2873
116520229	CAN		CAN-BSS61	-86.5	C	CR/C	4198	2856
116520242	CAN		CAN-BSS62	-103	C	CR/C	4203	2856
116520223	CAN		CAN-BSS63	-111.1	C	CR/C	4192	2855
117520014	CAN		CAN-BSS64	-91	C	CR/C	4361	2866
113500089	CAN		CAN-BSS7 TTC	-129	N	PART-IIS		2759
112500103	CAN		CAN-BSS9	-86.5	N	PART-IIS		2735
108501177	CAN		CANSAT KA-4	-111.1	N	PART-IIS		2667
108501178	CAN		CANSAT KA-5	-118.7	N	PART-IIS		2871
108500946	CAN		CANSAT KA-5X	-118.7	N	PART-IIS		2871
118500239	CAN		CANSAT(107.3W)-L	-107.3	N	PART-IIS		2893
117500072	CAN		CANSAT(107.3W)-XKA	-107.3	N	PART-IIS		2893
110500038	CAN		CANSAT-17	-114.9	N	PART-IIS		2690
108501202	CAN		CANSAT-18	-118.7	N	PART-IIS		2665
112500169	CAN		CANSAT-24	-111.1	N	PART-IIS		2739
113500049	CAN		CANSAT-31	-82	N	PART-IIS		2764
113500078	CAN		CANSAT-34	-107.3	N	PART-IIS		2797
114500101	CAN		CANSAT-50	-107.3	N	PART-IIS		2832
112520440	CAN		CANSAT-61	-15	C	CR/C	3287	2907
115520004	CAN		CANSAT-64	-109.2	C	CR/C	3744	2869
115520242	CAN		CANSAT-66	-82	C	CR/C	3988	2839
115520063	CAN		CANSAT-67	-107.3	C	CR/C	3780	2816
115520133	CAN		CANSAT-67TTC	-107.5	C	CR/C	3850	2824
116520290	CAN		CANSAT-68	-109.2	C	CR/C	4221	2857
117520086	CAN		CANSAT-69	-109.2	C	CR/C	4371	2866
118520081	CAN		CANSAT-70	-91	C	CR/C	4721	2895
118520103	CAN		CANSAT-71	-178.5	C	CR/C	4740	2895
118520282	CAN		CANSAT-72	-107.3	C	CR/C	4848	2886
101500597	CAN		MSAT	-106.5	N	PART-IIS		2890
118520059	CBG		CBGSAT-96.1E	96.1	C	CR/C	4701	2890
114520191	CHN		APMTSAT1-39.5E	39.5	C	CR/C	3658	2802
114523045	CHN		APMTSAT1-39.5E_1	39.5	C	CR/F	164	2787
105500702	CHN		APSTAR-1	131	N	PART-IIS		2583
108501242	CHN		APSTAR-142E	142	N	PART-IIS		2821
118500016	CHN		APSTAR-142E-R	142	N	PART-IIS		2883
106500065	CHN		APSTAR-2	134	N	PART-IIS		2622
105500690	CHN		APSTAR-4	76.5	N	PART-IIS		2868
107500032	CHN		APSTAR-5-KU	138	N	PART-IIS		2609
108501171	CHN		APSTAR-76E	76.5	N	PART-IIS		2821
109520001	CHN		APSTAR-76E-R	76.5	C	CR/C	2367	2643
117520288	CHN		APSTAR-92.5E	92.5	C	CR/C	4556	2881
108501259	CHN		APSTAR-92E	92.2	N	PART-IIS		2659
91910135	CHN		ASIASAT-1	105.5	N	PART-IIS		2714
117520046	CHN		ASIASAT-100.5Q	100.5	C	CR/C	4404	2866
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
113520010	CHN		ASIASAT-105.3T	105.3	C	CR/C	3360	2761

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117520047	CHN		ASIASAT-105.5Q	105.5	C	CR/C	4405	2866
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	2820
115523044	CHN		ASIASAT-118R_1	118	C	CR/F	247	2807
115500229	CHN		ASIASAT-120V	120	N	PART-IIS		2830
117520048	CHN		ASIASAT-121.9Q	121.9	C	CR/C	4406	2866
115520030	CHN		ASIASAT-122T	122	C	CR/C	3778	2816
115523021	CHN		ASIASAT-122T_1	122	C	CR/F	215	2801
117520225	CHN		ASIASAT-142.5Q	142.5	C	CR/C	4521	2877
117520226	CHN		ASIASAT-147.5Q	147.5	C	CR/C	4522	2877
118520310	CHN		ASIASAT-48.2Q	48.2	C	CR/C	4867	2905
117520179	CHN		ASIASAT-60Q	60	C	CR/C	4489	2873
113520280	CHN		ASIASAT-60T	60	C	CR/C	3473	2780
113523084	CHN		ASIASAT-60T_1	60	C	CR/F	82	2764
115520140	CHN		ASIASAT-71R	71	C	CR/C	3836	2820
115523043	CHN		ASIASAT-71R_1	71	C	CR/F	246	2807
118520311	CHN		ASIASAT-88.2Q	88.2	C	CR/C	4868	2905
98500161	CHN		ASIASAT-A	122	N	PART-IIS		2714
119500029	CHN		ASIASAT-AAA	122	N	PART-IIS		2896
99500194	CHN		ASIASAT-AK	122	N	PART-IIS		2714
104500082	CHN		ASIASAT-AK1	122	N	PART-IIS		2714
107500475	CHN		ASIASAT-AKS	122	N	PART-IIS		2714
108500585	CHN		ASIASAT-AKX	122	N	PART-IIS		2714
112500144	CHN		ASIASAT-AKZ	122.2	N	PART-IIS		2738
99500281	CHN		ASIASAT-CK	105.5	N	PART-IIS		2714
100500227	CHN		ASIASAT-CK1	105.5	N	PART-IIS		2714
107500476	CHN		ASIASAT-CKS	105.5	N	PART-IIS		2714
116500066	CHN		ASIASAT-CKW	105.5	N	PART-IIS		2842
108500589	CHN		ASIASAT-CKX	105.5	N	PART-IIS		2714
112500145	CHN		ASIASAT-CKZ	105.5	N	PART-IIS		2803
100500365	CHN		ASIASAT-E	100.5	N	PART-IIS		2714
100500387	CHN		ASIASAT-EK1	100.5	N	PART-IIS		2714
107500477	CHN		ASIASAT-EKS	100.5	N	PART-IIS		2714
104500426	CHN		ASIASAT-EKX	100.5	N	PART-IIS		2714
111500241	CHN		ASIASAT-EKZ	100.5	N	PART-IIS		2738
107500033	CHN		CHINASAT-1	87.5	N	PART-IIS		2639
108501257	CHN		CHINASAT-115.5E	115.5	N	PART-IIS		2791
108501223	CHN		CHINASAT-134E	134	N	PART-IIS		2656
108501103	CHN		CHINASAT-138E	138	N	PART-IIS		2653
108501134	CHN		CHINASAT-163E	163	N	PART-IIS		2858
104500609	CHN		CHINASAT-2	110.5	N	PART-IIS		2617
102500025	CHN		CHINASAT-22	98	N	PART-IIS		2556
101500502	CHN		CHINASAT-3	98	N	PART-IIS		2575
109500876	CHN		CHINASAT-31	80	N	PART-IIS		2853
109500877	CHN		CHINASAT-32	140	N	PART-IIS		2853
107500478	CHN		CHINASAT-33	110.5	N	PART-IIS		2680
110500133	CHN		CHINASAT-34A	79.6	N	PART-IIS		2694
110500134	CHN		CHINASAT-34B	84	N	PART-IIS		2845

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110500135	CHN		CHINASAT-35C	144.5	N	PART-IIS		2845
107500125	CHN		CHINASAT-4	130	N	PART-IIS		2686
108501183	CHN		CHINASAT-44	98	N	PART-IIS		2687
108501038	CHN		CHINASAT-45	101.5	N	PART-IIS		2874
109500021	CHN		CHINASAT-51.5E	51.5	N	PART-IIS		2823
105500221	CHN		CHINASAT-6	110.5	N	PART-IIS		2883
110500099	CHN		CHINASAT-64	98	N	PART-IIS		2689
110500098	CHN		CHINASAT-65	103	N	PART-IIS		2689
105500478	CHN		CHINASAT-92.2E	92.2	N	PART-IIS		2681
118500270	CHN		CHINASAT-A5	87.5	N	PART-IIS		2897
118500091	CHN		CHINASAT-CL11	163	N	PART-IIS		2898
111520039	CHN		CHINASAT-CL2	51.5	C	CR/C	2815	2865
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	2826
115523028	CHN		CHINASAT-D-115.5E_1	115.5	C	CR/F	233	2804
114520158	CHN		CHINASAT-D-125E	125	C	CR/C	3645	2799
114523032	CHN		CHINASAT-D-125E_1	125	C	CR/F	158	2785
114520159	CHN		CHINASAT-D-163E	163	C	CR/C	3646	2799
114523033	CHN		CHINASAT-D-163E_1	163	C	CR/F	159	2785
115520322	CHN		CHINASAT-D-55.7E	55.7	C	CR/C	4004	2839
115523107	CHN		CHINASAT-D-55.7E_1	55.7	C	CR/F	304	2824
115520321	CHN		CHINASAT-D-57.5E	57.5	C	CR/C	4005	2839
115523106	CHN		CHINASAT-D-57.5E_1	57.5	C	CR/F	305	2824
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
111520197	CHN		CHINASAT-DL4	110.5	C	CR/C	2927	2873
111520198	CHN		CHINASAT-DL5	115.5	C	CR/C	2928	2873
111520199	CHN		CHINASAT-DL6	125	C	CR/C	2929	2873
116520154	CHN		CHINASAT-E-110.5E	110.5	C	CR/C	4133	2851
116520197	CHN		CHINASAT-E-113E	113	C	CR/C	4177	2855
116523050	CHN		CHINASAT-E-113E_1	113	C	CR/F	363	2839
116520155	CHN		CHINASAT-E-115.5E	115.5	C	CR/C	4134	2851
117520325	CHN		CHINASAT-E-119.5E	119.5	C	CR/C	4571	2881
116520157	CHN		CHINASAT-E-125E	125	C	CR/C	4135	2851
116520156	CHN		CHINASAT-E-163E	163	C	CR/C	4136	2851
116520149	CHN		CHINASAT-E-24W	-24	C	CR/C	4128	2851
116523042	CHN		CHINASAT-E-24W_1	-24	C	CR/F	349	2835
116520150	CHN		CHINASAT-E-33.5E	33.5	C	CR/C	4129	2851
116523041	CHN		CHINASAT-E-33.5E_1	33.5	C	CR/F	350	2835
116520151	CHN		CHINASAT-E-51.5E	51.5	C	CR/C	4130	2851
117520096	CHN		CHINASAT-E-60.5E	60.5	C	CR/C	4437	2870
116520152	CHN		CHINASAT-E-85.5E	85.5	C	CR/C	4131	2851
116523040	CHN		CHINASAT-E-85.5E_1	85.5	C	CR/F	351	2835
116520153	CHN		CHINASAT-E-87.5E	87.5	C	CR/C	4132	2851
119520053	CHN		CHINASAT-F-126E	126	C	CR/C	4972	2898
119520193	CHN		CHINASAT-F-164E	164	C	CR/C	5094	2909
119520054	CHN		CHINASAT-F-41.6W	-41.6	C	CR/C	4973	2898

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108501216	CHN		CHINASAT-MSB4	115.5	N	PART-IIS		2822
108501132	CHN		CHINASAT-MSB5	125	N	PART-IIS		2692
114500054	CHN		CHINASAT-ROUTE1	51.5	N	PART-IIS		2833
114500043	CHN		CHINASAT-ROUTE15	163	N	PART-IIS		2858
116500006	CHN		CHINASAT-ROUTE7	115.5	N	PART-IIS		2831
114500042	CHN		CHINASAT-ROUTE8	125	N	PART-IIS		2832
118500159	CHN		CHNBSAT-101.4E-TTC	101.4	N	PART-IIS		2893
106500383	CHN		CHNBSAT-92.2E	92.2	N	PART-IIS		2743
119500035	CHN		CHNBSAT-K-101.4E	101.4	N	PART-IIS		2897
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
119520186	CHN		CHNBSAT-K1-101.4E	101.4	C	CR/C	5089	2908
118520348	CHN		CHNBSAT-K1-92.2E	92.2	C	CR/C	4896	2908
117520444	CHN		CHNNEWSAT-G1-101.5E	101.5	C	CR/C	4625	2898
117520445	CHN		CHNNEWSAT-G1-118E	118	C	CR/C	4626	2898
117520454	CHN		CHNNEWSAT-G1-125W	-125	C	CR/C	4617	2898
117520453	CHN		CHNNEWSAT-G1-132W	-132	C	CR/C	4615	2898
117520452	CHN		CHNNEWSAT-G1-138W	-138	C	CR/C	4616	2898
117520446	CHN		CHNNEWSAT-G1-148.2E	148.2	C	CR/C	4627	2898
117520465	CHN		CHNNEWSAT-G1-160.2E	160.2	C	CR/C	4628	2898
117520448	CHN		CHNNEWSAT-G1-167E	167	C	CR/C	4629	2898
117520449	CHN		CHNNEWSAT-G1-169E	169	C	CR/C	4630	2898
117520450	CHN		CHNNEWSAT-G1-171E	171	C	CR/C	4631	2898
117520451	CHN		CHNNEWSAT-G1-178W	-178	C	CR/C	4618	2898
117520460	CHN		CHNNEWSAT-G1-28W	-28	C	CR/C	4609	2898
117520461	CHN		CHNNEWSAT-G1-2W	-2	C	CR/C	4608	2898
117520438	CHN		CHNNEWSAT-G1-34E	34	C	CR/C	4619	2898
117520439	CHN		CHNNEWSAT-G1-40E	40	C	CR/C	4620	2898
117520440	CHN		CHNNEWSAT-G1-44.5E	44.5	C	CR/C	4621	2898
117520459	CHN		CHNNEWSAT-G1-44.5W	-44.5	C	CR/C	4610	2898
117520458	CHN		CHNNEWSAT-G1-48W	-48	C	CR/C	4611	2898
117520457	CHN		CHNNEWSAT-G1-59W	-59	C	CR/C	4612	2898
117520441	CHN		CHNNEWSAT-G1-68E	68	C	CR/C	4622	2898
117520456	CHN		CHNNEWSAT-G1-70.5W	-70.5	C	CR/C	4613	2898
117520442	CHN		CHNNEWSAT-G1-73E	73	C	CR/C	4623	2898
117520443	CHN		CHNNEWSAT-G1-78.2E	78.2	C	CR/C	4624	2898
117520455	CHN		CHNNEWSAT-G1-79.5W	-79.5	C	CR/C	4614	2898
117500063	CHN		CHNSAT-103E	103	N	PART-IIS		2902
119500034	CHN		CHNSAT-118E	118	N	PART-IIS		2900
111500204	CHN		CHNSAT-130E	130	N	PART-IIS		2719
112500129	CHN		CHNSAT-2-130E	130	N	PART-IIS		2731
117500062	CHN		CHNSAT-81.5E	81.5	N	PART-IIS		2902
113500141	CHN		CHNSAT-98E	98.2	N	PART-IIS		2892
119500144	CHN		CHNSAT-M-101.4E	101.4	N	PART-IIS		2905
103500418	CHN		COMPASS-110.5E	110.5	N	PART-IIS		2871
103500419	CHN		COMPASS-140E	140	N	PART-IIS		2871

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109500803	CHN		COMPASS-160E	160	N	PART-IIS		2701
103500416	CHN		COMPASS-58.75E	58.75	N	PART-IIS		2871
119500051	CHN		COMPASS-80.3E	80.3	N	PART-IIS		2900
103500417	CHN		COMPASS-80E	80	N	PART-IIS		2862
116520051	CHN		COMPASS-A-110.5E	110.5	C	CR/C	4039	2828
116520052	CHN		COMPASS-A-140E	140	C	CR/C	4040	2828
116520053	CHN		COMPASS-A-144.5E	144.5	C	CR/C	4041	2828
116520054	CHN		COMPASS-A-160E	160	C	CR/C	4042	2828
116520048	CHN		COMPASS-A-58.75E	58.75	C	CR/C	4036	2828
116520049	CHN		COMPASS-A-80E	80	C	CR/C	4037	2828
116520050	CHN		COMPASS-A-84E	84	C	CR/C	4038	2828
116500154	CHN		COMPASS-B-144.5E	144.5	N	PART-IIS		2909
116500153	CHN		COMPASS-B-84E	84	N	PART-IIS		2863
108501265	CHN		CTDRS-1-77E	77	N	PART-IIS		2784
108501266	CHN		CTDRS-1-80E	80	N	PART-IIS		2784
112500234	CHN		CTDRS-2-16.8E	16.8	N	PART-IIS		2765
113500171	CHN		CTDRS-2-171E	171	N	PART-IIS		2906
117500234	CHN		CTDRS-2-77E	77	N	PART-IIS		2875
118500283	CHN		CTDRS-2-80E	80	N	PART-IIS		2896
101500189	CHN		DFH-3-OA	125	N	PART-IIS		2592
101500503	CHN		DFH-3-OB	103	N	PART-IIS		2722
101500500	CHN		DFH-3-OC	87.5	N	PART-IIS		2778
109500843	CHN		DFH-3-OC M	87.5	N	PART-IIS		2882
109500013	CHN		DFH-3-OD	115.5	N	PART-IIS		2770
105500526	CHN		DFH-3A-OB	110.5	N	PART-IIS		2824
108501200	CHN		DFH-3A-OC	98	N	PART-IIS		2685
110500170	CHN		DFH-3A-OD	130	N	PART-IIS		2693
105500161	CHN		DFH-4-OA	125	N	PART-IIS		2662
117500076	CHN		DFH-4-OAF	155	N	PART-IIS		2899
108500967	CHN		DFH-4-OB	103	N	PART-IIS		2649
108501060	CHN		DFH-4-OD	115.5	N	PART-IIS		2652
112520199	CHN		DFH-5-01A	94.2	C	CR/C	3188	2745
118500105	CHN		DFH-5-01B	107.5	N	PART-IIS		2910
114520124	CHN		DFH-5-02A	59	C	CR/C	3622	2795
114520125	CHN		DFH-5-02B	173	C	CR/C	3623	2795
116520024	CHN		DFH-5-03A	66.5	C	CR/C	4024	2840
116520025	CHN		DFH-5-03B	178.5	C	CR/C	4025	2840
117520278	CHN		DFH-5-04A	117.8	C	CR/C	4545	2880
117520277	CHN		DFH-5-04B	120	C	CR/C	4546	2880
108501095	CHN		DFH-5-OD	115.5	N	PART-IIS		2822
104500597	CHN		FY-2A	105	N	PART-IIS		2856
105500156	CHN		FY-2AS	105	N	PART-IIS		2691
105500157	CHN		FY-2B	86.5	N	PART-IIS		2691
105500158	CHN		FY-2BS	86.5	N	PART-IIS		2691
115500208	CHN		FYGEOSAT-105E	105	N	PART-IIS		2891
117500162	CHN		FYGEOSAT-112E	112	N	PART-IIS		2898
117500163	CHN		FYGEOSAT-123.5E	123.5	N	PART-IIS		2898
117500161	CHN		FYGEOSAT-86.5E	86.5	N	PART-IIS		2898
115500060	CHN		FYGEOSAT-99.5E	99.5	N	PART-IIS		2896

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117520150	CHN		FYGEOSAT-A-105E	105	C	CR/C	4467	2871
117520151	CHN		FYGEOSAT-A-112E	112	C	CR/C	4468	2871
117520152	CHN		FYGEOSAT-A-123.5E	123.5	C	CR/C	4469	2871
117520153	CHN		FYGEOSAT-A-133E	133	C	CR/C	4470	2871
117520147	CHN		FYGEOSAT-A-79E	79	C	CR/C	4464	2871
117520148	CHN		FYGEOSAT-A-86.5E	86.5	C	CR/C	4465	2871
117520149	CHN		FYGEOSAT-A-99.5E	99.5	C	CR/C	4466	2871
114520021	CHN		G4SAT-134E	134	C	CR/C	3545	2790
114520022	CHN		G4SAT-138E	138	C	CR/C	3546	2790
117520184	CHN		GC-11B	90	C	CR/C	4494	2873
118500142	CHN		GC-4-105.6E	105.6	N	PART-IIS		2890
116520062	CHN		ITS-13.5E-N	13.5	C	CR/C	4046	2870
116520063	CHN		ITS-38E-N	38	C	CR/C	4047	2870
116520064	CHN		ITS-45E-N	45	C	CR/C	4048	2870
117520144	CHN		ITS-AR-133.5E	133.5	C	CR/C	4474	2871
117520146	CHN		ITS-AR-63.2W	-63.2	C	CR/C	4472	2871
116520065	CHN		ITS-AR-64.5E	64.5	C	CR/C	4093	2870
117520145	CHN		ITS-AR-77.2W	-77.2	C	CR/C	4473	2871
116520066	CHN		ITS-AR-83.5E	83.5	C	CR/C	4094	2870
118520109	CHN		QXSI-105.5E-EX-L	105.5	C	CR/C	4751	2895
118520045	CHN		QXSI-118.3E-EX-L	118.3	C	CR/C	4693	2890
118520110	CHN		QXSI-122E-EX-L	122	C	CR/C	4752	2895
118520046	CHN		QXSI-148.3E-EX-L	148.3	C	CR/C	4694	2890
118520043	CHN		QXSI-25.3E-EX-L	25.3	C	CR/C	4691	2890
118520044	CHN		QXSI-42.3E-EX-L	42.3	C	CR/C	4692	2890
118520212	CHN		QXSI-84.5E-EX-L	84.5	C	CR/C	4829	2903
118520048	CHN		SIGNSAT-132E	132.1	C	CR/C	4688	2888
118520049	CHN		SIGNSAT-151E	151	C	CR/C	4689	2888
118520269	CHN		SIGNSAT-160E	158.5	C	CR/E	1883	2898
118520269	CHN		SIGNSAT-160E	158.5	C	CR/C	4841	2898
118520176	CHN		SIGNSAT-32E	32.5	C	CR/C	4805	2898
118520177	CHN		SIGNSAT-43E	43.2	C	CR/C	4806	2898
118520047	CHN		SIGNSAT-96E	96	C	CR/C	4687	2888
108501255	CHN		SINOSAT-3C	130	N	PART-IIS		2707
113500118	CHN		SINOSAT-5	110.5	N	PART-IIS		2866
108501206	CHN		SINOSAT-92.2E	92.2	N	PART-IIS		2659
117520327	CHN		STARTIME-23.4E	23.4	C	CR/C	4569	2881
117520328	CHN		STARTIME-28.4E	28.4	C	CR/C	4570	2881
117520137	CHN		STARTIME-3	89.8	C	CR/C	4475	2871
90500007	CHN		STW-1	125	N	PART-IIS		2256
101500504	CHN		STW-2	103	N	PART-IIS		2804
109500101	CLM	ASA	SIMON BOLIVAR 2	-67	N	PART-IIS		2676
115520341	CLM		COLSAT-1A-70.9W	-70.9	C	CR/C	4023	2840
117520028	CLM		CONDOR	-72.5	C	CR/C	4415	2868
109520244	CLM		SATCOL 1B	-70.9	C	CR/C	2472	2678
109500221	CTI	RAS	RASCOM-C	5.5	N	PART-IIS		2667
117520409	CYP		CY-AQUARIUS	21.35	C	CR/C	4601	2884
118520093	CYP		CYP-SAT-KM-11.5E	11.5	C	CR/E	1790	2891
118520093	CYP		CYP-SAT-KM-11.5E	11.5	C	CR/C	4730	2891

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
118520094	CYP		CYP-SAT-KM-13E	13	C	CR/E	1791	2891
118520094	CYP		CYP-SAT-KM-13E	13	C	CR/C	4731	2891
118520095	CYP		CYP-SAT-KM-14.5E	14.5	C	CR/E	1792	2891
118520095	CYP		CYP-SAT-KM-14.5E	14.5	C	CR/C	4732	2891
118520096	CYP		CYP-SAT-KM-58.45E	58.45	C	CR/E	1793	2891
118520096	CYP		CYP-SAT-KM-58.45E	58.45	C	CR/C	4733	2891
118520097	CYP		CYP-SAT-KM-70.5E	70.5	C	CR/E	1794	2891
118520097	CYP		CYP-SAT-KM-70.5E	70.5	C	CR/C	4734	2891
118520091	CYP		CYP-SAT-KM-7E	7	C	CR/E	1788	2891
118520091	CYP		CYP-SAT-KM-7E	7	C	CR/C	4728	2891
118520092	CYP		CYP-SAT-KM-9E	9	C	CR/E	1789	2891
118520092	CYP		CYP-SAT-KM-9E	9	C	CR/C	4729	2891
113520196	CYP		JUPITER-1C	55.5	C	CR/C	3437	2774
113523041	CYP		JUPITER-1C_1	55.5	C	CR/F	68	2760
117520050	CYP		KYPROS-100.75E	100.75	C	CR/C	4385	2866
117520051	CYP		KYPROS-109W	-109	C	CR/C	4407	2868
117520052	CYP		KYPROS-114.9W	-114.9	C	CR/C	4378	2866
117520053	CYP		KYPROS-115.3E	115.3	C	CR/C	4386	2866
117520054	CYP		KYPROS-119.5W	-119.5	C	CR/C	4379	2866
117520055	CYP		KYPROS-121.25E	121.25	C	CR/C	4408	2868
117520056	CYP		KYPROS-130E	130	C	CR/C	4387	2866
117520057	CYP		KYPROS-134E	134	C	CR/C	4409	2868
117520058	CYP		KYPROS-137W	-137	C	CR/C	4380	2866
117520059	CYP		KYPROS-145.5E	145.5	C	CR/C	4388	2866
117520060	CYP		KYPROS-149W	-149	C	CR/C	4381	2866
117520061	CYP		KYPROS-14W	-14	C	CR/C	4373	2866
117520062	CYP		KYPROS-29.6E	29.6	C	CR/C	4382	2866
117520063	CYP		KYPROS-3.7W	-3.7	C	CR/C	4372	2866
117520064	CYP		KYPROS-41W-2	-41	C	CR/C	4374	2866
117520065	CYP		KYPROS-47.5W	-47.5	C	CR/C	4375	2866
117520066	CYP		KYPROS-66.25W	-66.25	C	CR/C	4376	2866
117520067	CYP		KYPROS-68.5E	68.5	C	CR/C	4383	2866
117520068	CYP		KYPROS-75.75E	75.75	C	CR/C	4384	2866
117520069	CYP		KYPROS-83.5W	-83.5	C	CR/C	4377	2866
119500130	CYP		KYPROS-ACHILLEAS	174	N	PART-IIS		2902
116520094	CYP		KYPROS-ACHILLEAS-3	174	C	CR/C	4072	2845
116523014	CYP		KYPROS-ACHILLEAS-3_1	174	C	CR/F	327	2830
116520095	CYP		KYPROS-AETHER-3	-2	C	CR/C	4069	2845
116523015	CYP		KYPROS-AETHER-3_1	-2	C	CR/F	328	2830
119500031	CYP		KYPROS-APHRODITE-2	90	N	PART-IIS		2899
115520339	CYP		KYPROS-ARES-3	89.5	C	CR/C	4019	2840
115523113	CYP		KYPROS-ARES-3_1	89.5	C	CR/F	309	2825
116520096	CYP		KYPROS-ARTEMIS-3	-174.5	C	CR/C	4071	2857
116523017	CYP		KYPROS-ARTEMIS-3_1	-174.5	C	CR/F	319	2830
116520097	CYP		KYPROS-ATHENA-4	22.5	C	CR/C	4077	2857
116523016	CYP		KYPROS-ATHENA-4_1	22.5	C	CR/F	318	2830
116520098	CYP		KYPROS-ATLAS-3	123	C	CR/C	4068	2845
116523013	CYP		KYPROS-ATLAS-3_1	123	C	CR/F	326	2830
116520099	CYP		KYPROS-EUROPA-3	16.5	C	CR/C	4067	2857

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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116520092	CYP		KYPROS-HEMERA-1	87	C	CR/C	4074	2845
116523010	CYP		KYPROS-HEMERA-1_1	87	C	CR/F	324	2830
116520091	CYP		KYPROS-HERMES-4	57	C	CR/C	4075	2845
116523009	CYP		KYPROS-HERMES-4_1	57	C	CR/F	323	2830
116520089	CYP		KYPROS-OKEANOS-3	-161	C	CR/C	4070	2845
116523007	CYP		KYPROS-OKEANOS-3_1	-161	C	CR/F	321	2830
119500032	CYP		KYPROS-ORION	89.5	N	PART-IIS		2899
117500278	CYP		KYPROS-SAT-5	39	N	PART-IIS		2906
116520199	CYP		KYPROS-SAT-7	39	C	CR/C	4163	2853
116523052	CYP		KYPROS-SAT-7_1	39	C	CR/F	360	2839
108501035	CYP		KYPROS-SAT-C	39	N	PART-IIS		2652
108501096	CYP		KYPROS-SAT-L4	39	N	PART-IIS		2862
116520093	CYP		KYPROS-SELENE-1	138	C	CR/C	4073	2857
116523011	CYP		KYPROS-SELENE-1_1	138	C	CR/F	325	2830
116520090	CYP		KYPROS-ZEUS-3	54.5	C	CR/C	4076	2845
116523008	CYP		KYPROS-ZEUS-3_1	54.5	C	CR/F	322	2830
118520140	CYP		ONETEL-113W	-113	C	CR/C	4774	2895
117520464	CYP		ONETEL-134E	134	C	CR/C	4634	2885
117520462	CYP		ONETEL-89.5E	89.5	C	CR/C	4632	2885
117520463	CYP		ONETEL-90E	90	C	CR/C	4633	2885
113520303	CZE		PEKASAT-10	34.5	C	CR/C	3516	2782
115520105	CZE		PEKASAT-3	8.3	C	CR/C	3807	2818
114520087	CZE		PEKASAT-8	26.8	C	CR/C	3600	2794
116520388	CZE		PEKASAT-G2-1	1.5	C	CR/C	4286	2860
111500206	D	EUM	METEOSAT IODC_57.5E	57.5	N	PART-IIS		2730
116500010	D	EUM	MSG-3.5E	3.5	N	PART-IIS		2882
116520060	D	EUM	MSG-41.5E	41.5	C	CR/C	4049	2842
114500155	D	EUM	MTG-D1_3.4W	-3.4	N	PART-IIS		2831
114500156	D	EUM	MTG-D1_9.5E	9.5	N	PART-IIS		2854
115520027	D	EUM	MTG_0E	0	C	CR/C	3756	2815
115520029	D	EUM	MTG_3.4W	-3.4	C	CR/C	3755	2815
115520028	D	EUM	MTG_9.5E	9.5	C	CR/C	3757	2815
107500643	D		DFS II-1	23.5	N	PART-IIS		2666
107500494	D		DFS II-2	28.5	N	PART-IIS		2638
92500176	D		DFS-1	23.5	N	PART-IIS		2678
92500177	D		DFS-2	28.5	N	PART-IIS		2678
104500143	D		EUROPE*STAR-1	45	N	PART-IIS		2606
104500144	D		EUROPE*STAR-3	47.5	N	PART-IIS		2602
113500130	D		EUROPESTAR-45E	45	N	PART-IIS		2822
115520083	D		EUROPESTAR-45E-A	45	C	CR/C	3799	2818
115523026	D		EUROPESTAR-45E-A_1	45	C	CR/F	228	2803
113500129	D		EUROPESTAR-47.5E	47.5	N	PART-IIS		2885
111500246	D		GENESIS-11	13	N	PART-IIS		2856
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
115520340	D		GENESIS-16	40.5	C	CR/C	4008	2839
109500171	D		GENESIS-8	13	N	PART-IIS		2856

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
109500420	D		GENESIS-9	63	N	PART-IIS		2904
116520349	D		H2M-0.5E	0.5	C	CR/C	4247	2859
116520350	D		H2M-11.5E	11.5	C	CR/C	4248	2859
116520351	D		H2M-17.6E	17.6	C	CR/C	4249	2859
111540748	D		H2SAT-0.5E	0.5	A	API/A	7177	2725
111540749	D		H2SAT-11.5E	11.5	A	API/A	7178	2725
111540750	D		H2SAT-17.6E	17.6	A	API/A	7179	2725
111540751	D		H2SAT-43.5E	43.5	A	API/A	7180	2725
115520092	D		ODYSSEY POR	178	C	CR/C	3804	2818
115523030	D		ODYSSEY POR_1	178	C	CR/F	232	2804
115520082	D		ODYSSEY-127W	-127	C	CR/C	3798	2818
115523031	D		ODYSSEY-127W_1	-127	C	CR/F	229	2803
118520144	D		ODYSSEY-137W	-137	C	CR/E	1836	2892
118520144	D		ODYSSEY-137W	-137	C	CR/C	4780	2892
117520089	D		ODYSSEY-166E	166	C	CR/C	4417	2868
117520099	D		ODYSSEY-169E	169	C	CR/C	4445	2870
115520081	D		ODYSSEY-27.5W	-27.5	C	CR/C	3800	2818
115523029	D		ODYSSEY-27.5W_1	-27.5	C	CR/F	230	2803
115520065	D		ODYSSEY-359E	-1	C	CR/C	3784	2816
115523018	D		ODYSSEY-359E_1	-1	C	CR/F	219	2802
117520092	D		ODYSSEY-91W	-91	C	CR/C	4432	2869
117520090	D		ODYSSEY-93W	-93	C	CR/C	4416	2868
114500097	E		HISPASAT 2A 36W	-36	N	PART-IIS		2857
92500108	E		HISPASAT-1	-30	N	PART-IIS		2645
119500136	E		HISPASAT-10A	-30	N	PART-IIS		2909
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
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
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-IIS		2898
114520174	E		HISPASAT-20A	-30	C	CR/C	3649	2801
114523041	E		HISPASAT-20A_1	-30	C	CR/F	161	2786
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	2812
115523003	E		HISPASAT-26A_1	-26	C	CR/F	204	2798

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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115523004	E		HISPASAT-27A_1	-52.5	C	CR/F	205	2798
115520016	E		HISPASAT-28A	11	C	CR/C	3742	2813
115523005	E		HISPASAT-28A_1	11	C	CR/F	207	2799
115520017	E		HISPASAT-29A	-10.25	C	CR/C	3743	2814
115523008	E		HISPASAT-29A_1	-10.25	C	CR/F	208	2799
102500409	E		HISPASAT-2A KU	-30	N	PART-IIS		2898
105500025	E		HISPASAT-2A X	-30	N	PART-IIS		2784
105500092	E		HISPASAT-2AKA	-30	N	PART-IIS		2745
105500093	E		HISPASAT-2B 30KA	-30	N	PART-IIS		2632
100500226	E		HISPASAT-2B KU	-30	N	PART-IIS		2745
100500225	E		HISPASAT-2C3 KU	-30	N	PART-IIS		2745
104500108	E		HISPASAT-2D KU	-30	N	PART-IIS		2898
115520060	E		HISPASAT-31A	-74	C	CR/C	3789	2818
115523015	E		HISPASAT-31A_1	-74	C	CR/F	221	2803
115520061	E		HISPASAT-32A	-58.5	C	CR/C	3790	2818
115523016	E		HISPASAT-32A_1	-58.5	C	CR/F	222	2803
115520062	E		HISPASAT-33A	-77	C	CR/C	3793	2818
115523017	E		HISPASAT-33A_1	-77	C	CR/F	224	2803
115520084	E		HISPASAT-36A	-36	C	CR/C	3801	2818
115523025	E		HISPASAT-36A_1	-36	C	CR/F	231	2803
115520130	E		HISPASAT-38A	57	C	CR/C	3823	2819
115523038	E		HISPASAT-38A_1	57	C	CR/F	241	2805
115520313	E		HISPASAT-39A	-61.5	C	CR/C	3989	2839
119500121	E		HISPASAT-3A	-30	N	PART-IIS		2902
116520027	E		HISPASAT-41A	-79	C	CR/C	4027	2840
116520028	E		HISPASAT-42A	-28	C	CR/C	4028	2840
116523002	E		HISPASAT-42A_1	-28	C	CR/F	311	2825
116520163	E		HISPASAT-43A	-30	C	CR/C	4138	2851
116523038	E		HISPASAT-43A_1	-30	C	CR/F	352	2836
116520164	E		HISPASAT-44A	-36	C	CR/C	4137	2851
116523039	E		HISPASAT-44A_1	-36	C	CR/F	353	2836
116520193	E		HISPASAT-46A	-52.5	C	CR/C	4165	2853
116523053	E		HISPASAT-46A_1	-52.5	C	CR/F	361	2838
116520194	E		HISPASAT-47A	-26	C	CR/C	4166	2853
116523054	E		HISPASAT-47A_1	-26	C	CR/F	362	2838
116520206	E		HISPASAT-48A	11	C	CR/C	4189	2855
116523059	E		HISPASAT-48A_1	11	C	CR/F	369	2840
116520205	E		HISPASAT-49A	-10.25	C	CR/C	4190	2855
116523058	E		HISPASAT-49A_1	-10.25	C	CR/F	370	2840
116520287	E		HISPASAT-50A	-74	C	CR/C	4223	2857
116520288	E		HISPASAT-51A	-58.5	C	CR/C	4224	2857
116520289	E		HISPASAT-52A	-77	C	CR/C	4235	2858
116520422	E		HISPASAT-54A	-97.5	C	CR/C	4323	2864
116520423	E		HISPASAT-56A	-39	C	CR/C	4324	2864
116523110	E		HISPASAT-56A_1	-39	C	CR/F	414	2850
116520424	E		HISPASAT-57A	-22	C	CR/C	4325	2864
116523111	E		HISPASAT-57A_1	-22	C	CR/F	415	2850
116520425	E		HISPASAT-58A	-12.5	C	CR/C	4326	2864

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
116523112	E		HISPASAT-58A_1	-12.5	C	CR/F	416	2850
117520154	E		HISPASAT-60A	59	C	CR/C	4411	2868
117520155	E		HISPASAT-61A	78	C	CR/C	4412	2868
117520235	E		HISPASAT-65A	57	C	CR/C	4530	2880
117520281	E		HISPASAT-67A	-131	C	CR/C	4549	2880
117520282	E		HISPASAT-68A	174	C	CR/C	4550	2880
117520283	E		HISPASAT-69A	138	C	CR/C	4551	2880
118500277	E		HISPASAT-6A	-26	N	PART-IIS		2906
117520477	E		HISPASAT-73A	-61	C	CR/C	4643	2902
118520004	E		HISPASAT-75A	-79	C	CR/C	4666	2888
118520207	E		HISPASAT-79A	-52.5	C	CR/C	4825	2903
118500296	E		HISPASAT-7A	-36	N	PART-IIS		2900
112523004	E		HISPASAT-7A_1	-36	C	CR/F	6	2736
118520208	E		HISPASAT-80A	-26	C	CR/C	4826	2903
118520209	E		HISPASAT-81A	11	C	CR/C	4827	2903
118520210	E		HISPASAT-82A	-10.25	C	CR/C	4828	2903
118520286	E		HISPASAT-85A	-58.5	C	CR/C	4849	2905
118520287	E		HISPASAT-86A	-74	C	CR/C	4856	2905
118520288	E		HISPASAT-87A	-77	C	CR/C	4857	2905
113520011	E		HISPASAT-9A	-79	C	CR/C	3323	2759
113523002	E		HISPASAT-9A_1	-79	C	CR/F	28	2745
105500624	E		SECOMSAT B29E	29	N	PART-IIS		2784
117520128	E		SECOMSAT-1-66E	66	C	CR/C	4455	2870
117520164	E		SECOMSAT-2-59W	-59	C	CR/C	4481	2871
116520102	E		SECOMSAT-2-78E	78	C	CR/C	4078	2843
115520015	E		SECOMSAT-3-22E	22	C	CR/C	3734	2812
118520051	E		SECOMSAT-3-50E	50	C	CR/C	4697	2890
119520119	E		SECOMSAT-3-78E	78	C	CR/C	5022	2903
115520110	E		SECOMSAT-4-29E	29	C	CR/C	3827	2819
116520103	E		SECOMSAT-4-30W	-30	C	CR/C	4079	2843
116520029	E		SECOMSAT-4-41E	41	C	CR/C	4026	2840
118520050	E		SECOMSAT-5-29E	29	C	CR/C	4696	2890
119520123	E		SECOMSAT-5-30W	-30	C	CR/C	5031	2904
117520009	E		SECOMSAT-5-47W	-47	C	CR/C	4369	2866
113520124	E		SECOMSAT-50E	50	C	CR/E	578	2754
113520124	E		SECOMSAT-50E	50	C	CR/C	3391	2754
114520195	E		SECOMSAT-59W	-59	C	CR/C	3663	2803
113520123	E		SECOMSAT-78E	78	C	CR/E	579	2754
113520123	E		SECOMSAT-78E	78	C	CR/C	3392	2754
113520052	E		SECOMSAT-B1-R_47W	-47	C	CR/C	3363	2761
114520032	EGY		EGJAN1A	-7	C	CR/C	3558	2791
114523001	EGY		EGJAN1A_1	-7	C	CR/F	129	2777
114520079	EGY		EGJAN2A	-6	C	CR/C	3590	2794
114523011	EGY		EGJAN2A_1	-6	C	CR/F	135	2779
114520080	EGY		EGJAN3A	-2	C	CR/C	3591	2794
114523012	EGY		EGJAN3A_1	-2	C	CR/F	136	2779
114520081	EGY		EGJAN4A	11	C	CR/C	3592	2794
114523013	EGY		EGJAN4A_1	11	C	CR/F	137	2779
114520082	EGY		EGJAN5A	15	C	CR/C	3593	2794

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114520083	EGY		EGJAN6A	18	C	CR/C	3594	2794
114523015	EGY		EGJAN6A_1	18	C	CR/F	139	2779
114520084	EGY		EGJAN7A	21	C	CR/C	3595	2794
114523016	EGY		EGJAN7A_1	21	C	CR/F	140	2779
114520085	EGY		EGJAN8A	23	C	CR/C	3596	2794
114523017	EGY		EGJAN8A_1	23	C	CR/F	141	2779
116520263	EGY		EGY-N-SAT	-7	C	CR/C	4222	2906
116523068	EGY		EGY-N-SAT_1	-7	C	CR/F	383	2842
118500131	EGY		EGYCOMM0A	35.5	N	PART-IIS		2903
116520436	EGY		EGYCOMM2A	2	C	CR/C	4294	2860
116523099	EGY		EGYCOMM2A_1	2	C	CR/F	402	2846
116520437	EGY		EGYCOMM3A	6	C	CR/C	4295	2860
116523100	EGY		EGYCOMM3A_1	6	C	CR/F	403	2846
116520438	EGY		EGYCOMM5A	18	C	CR/C	4296	2860
116523101	EGY		EGYCOMM5A_1	18	C	CR/F	401	2846
116520230	EGY		EGYCOMM8A	35.5	C	CR/C	4199	2890
116523065	EGY		EGYCOMM8A_1	35.5	C	CR/F	372	2841
113500037	EGY		NILESAT-103	-7	N	PART-IIS		2777
113500137	EGY		NILESAT-301-7W	-7	N	PART-IIS		2762
115520220	ETH		AFBS-1	-22	C	CR/C	3907	2831
115520221	ETH		AFBS-2	-11.5	C	CR/C	3908	2831
115520222	ETH		AFBS-3	3	C	CR/C	3909	2831
115520223	ETH		AFBS-4	15	C	CR/C	3910	2831
115520224	ETH		AFBS-5	28.5	C	CR/C	3911	2831
115520225	ETH		AFBS-6	40	C	CR/C	3912	2831
117520289	ETH		ETHIOSAT-1	58.3	C	CR/C	4557	2881
101500511	F	ESA	MSG	0	N	PART-IIS		2548
101500510	F	ESA	MSG-S2	-10	N	PART-IIS		2684
90500631	F	EUT	EUTELSAT 1-3	7	N	PART-IIS		2702
92500311	F	EUT	EUTELSAT 1-5	21.5	N	PART-IIS		2684
101500027	F	EUT	EUTELSAT 1-8	25.5	N	PART-IIS		2884
92500315	F	EUT	EUTELSAT 2-10E	10	N	PART-IIS		2845
92500313	F	EUT	EUTELSAT 2-13E	13	N	PART-IIS		2552
92500314	F	EUT	EUTELSAT 2-16E	16	N	PART-IIS		2845
95500111	F	EUT	EUTELSAT 2-21.5E	21.5	N	PART-IIS		2888
95500112	F	EUT	EUTELSAT 2-33E	33	N	PART-IIS		2608
92500316	F	EUT	EUTELSAT 2-36E	36	N	PART-IIS		2846
92500312	F	EUT	EUTELSAT 2-7E	7	N	PART-IIS		2553
103500286	F	EUT	EUTELSAT 3-10E	10	N	PART-IIS		2845
99500228	F	EUT	EUTELSAT 3-12.5W	-12.5	N	PART-IIS		2860
103500287	F	EUT	EUTELSAT 3-13E	13	N	PART-IIS		2617
103500288	F	EUT	EUTELSAT 3-16E	16	N	PART-IIS		2845
103500312	F	EUT	EUTELSAT 3-21.5E	21.5	N	PART-IIS		2888
108500798	F	EUT	EUTELSAT 3-25.5E	25.5	N	PART-IIS		2845
103500313	F	EUT	EUTELSAT 3-33E	33	N	PART-IIS		2608
103500314	F	EUT	EUTELSAT 3-36E	36	N	PART-IIS		2846
103500277	F	EUT	EUTELSAT 3-70.5E	70.5	N	PART-IIS		2845
103500280	F	EUT	EUTELSAT 3-7E	7	N	PART-IIS		2606

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107500234	F	EUT	EUTELSAT-B1-16E	16	N	PART-IIS		2711
107500232	F	EUT	EUTELSAT-B1-7E	7	N	PART-IIS		2847
103500079	F	EUT	EUTELSAT-E-70.5E	70.5	N	PART-IIS		2845
105500068	F	EUT	EUTELSAT-KA-16E	16	N	PART-IIS		2711
108500581	F	EUT	EUTELSAT-KA-33E	33	N	PART-IIS		2873
108500578	F	EUT	EUTELSAT-KA-36E	36	N	PART-IIS		2708
105500071	F	EUT	EUTELSAT-KA-7E	7	N	PART-IIS		2848
110500239	F		3GSAT-G17R	10	N	PART-IIS		2697
117520329	F		AST-ERIX-52.4W	-52.4	C	CR/C	4572	2881
117520330	F		AST-ERIX-57.9W	-57.9	C	CR/C	4573	2881
115520315	F		AST-ERIX-72.1E	72.1	C	CR/C	4006	2839
117520341	F		AST-ERIX-79.9W	-79.9	C	CR/C	4581	2892
117520077	F		AST-IKAU-117.9E	117.9	C	CR/C	4419	2868
117520126	F		AST-IKAU-126.9E	126.9	C	CR/C	4418	2868
116520434	F		AST-IKAU-67.5E	67.5	C	CR/C	4292	2860
116523096	F		AST-IKAU-67.5E_1	67.5	C	CR/F	400	2846
115500038	F		ATHENA-FIDUS-38E	38	N	PART-IIS		2882
115520018	F		BT-SAT 21.5E	21.5	C	CR/E	936	2812
115520018	F		BT-SAT 21.5E	21.5	C	CR/C	3745	2812
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
116520061	F		CD-SAT-123.1W-G2	-123.1	C	CR/C	4045	2842
117520177	F		CD-SAT-152E-G2	152	C	CR/C	4488	2873
115520312	F		CD-T-SAT-105.2E	105.2	C	CR/C	3953	2896
115523102	F		CD-T-SAT-105.2E_1	105.2	C	CR/F	273	2821
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-IIS		2884
117545389	F		EDRS-132	132	A	API/A	12055	2868
117545390	F		EDRS-150	150	A	API/A	12056	2868
117520187	F		EDRS-31.2E	31.2	C	CR/C	4495	2873
112520438	F		EDRS-31E	31	C	CR/C	3285	2907
117545388	F		EDRS-90	90	A	API/A	12054	2868
118520327	F		EG-SAT-117W	-117	C	CR/C	4874	2906
118520339	F		EG-SAT-22W	-22	C	CR/C	4886	2908
118520338	F		EG-SAT-38W	-38	C	CR/C	4885	2908
114520028	F		F-MILSATCOM2-25E	25	C	CR/C	3552	2826
114520027	F		F-MILSATCOM2-3E	3	C	CR/C	3551	2826
114520029	F		F-MILSATCOM2-45E	45	C	CR/C	3553	2826
114520030	F		F-MILSATCOM2-47E	47	C	CR/C	3554	2826

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114520026	F		F-MILSATCOM2-5W	-5	C	CR/C	3555	2826
114520025	F		F-MILSATCOM2-8W	-8	C	CR/C	3556	2826
115520324	F		F-MILSATCOM3-25E	25	C	CR/C	4010	2839
115520326	F		F-MILSATCOM3-3E	3	C	CR/C	4009	2839
115520325	F		F-MILSATCOM3-45E	45	C	CR/C	4011	2839
115520328	F		F-MILSATCOM3-47E	47	C	CR/C	4012	2839
115520327	F		F-MILSATCOM3-5W	-5	C	CR/C	4013	2839
115520323	F		F-MILSATCOM3-8W	-8	C	CR/C	4014	2839
116520433	F		F-MILSATCOM4-33E	33	C	CR/C	4288	2860
115500089	F		F-SAT-B1-E-3E	3	N	PART-IIS		2813
110500280	F		F-SAT-C-E-10E	10	N	PART-IIS		2853
111500056	F		F-SAT-KA-E-7E	7	N	PART-IIS		2848
112500078	F		F-SAT-KA-E-9E	9	N	PART-IIS		2867
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
106500340	F		F-SAT-KU-E-5W	-5	N	PART-IIS		2846
113500187	F		F-SAT-KU-E-7W	-7	N	PART-IIS		2888
107500250	F		F-SAT-KU-E-8W	-8	N	PART-IIS		2888
111500029	F		F-SAT-KU2-E-10E	10	N	PART-IIS		2701
111500030	F		F-SAT-KU2-E-12.5W	-12.5	N	PART-IIS		2701
111500031	F		F-SAT-KU2-E-13E	13	N	PART-IIS		2702
111500032	F		F-SAT-KU2-E-16E	16	N	PART-IIS		2701
111500028	F		F-SAT-KU2-E-7E	7	N	PART-IIS		2701
111500055	F		F-SAT-KU3-E-25.5E	25.5	N	PART-IIS		2704
111500054	F		F-SAT-KU3-E-33E	33	N	PART-IIS		2705
111500074	F		F-SAT-KU3-E-36E	36	N	PART-IIS		2735
111500033	F		F-SAT-KU3-E-70.5E	70.5	N	PART-IIS		2702
117500145	F		F-SAT-N-14.5E	14.5	N	PART-IIS		2895
113520060	F		F-SAT-N-172E	172	C	CR/E	583	2760
113520060	F		F-SAT-N-172E	172	C	CR/C	3368	2760
113523026	F		F-SAT-N-172E_1	172	C	CR/F	49	2750
111520072	F		F-SAT-N-6W	-6	C	CR/C	2848	2719
119500030	F		F-SAT-N-A-25.5E	25.5	N	PART-IIS		2903
116500123	F		F-SAT-N-E-10E	10	N	PART-IIS		2876
116500125	F		F-SAT-N-E-12.5W	-12.5	N	PART-IIS		2873
116500130	F		F-SAT-N-E-13E	13	N	PART-IIS		2886
116500131	F		F-SAT-N-E-16E	16	N	PART-IIS		2890
116500124	F		F-SAT-N-E-21.5E	21.5	N	PART-IIS		2888
117500359	F		F-SAT-N-E-25.5E	25.5	N	PART-IIS		2897
117500238	F		F-SAT-N-E-33E	33	N	PART-IIS		2900
118500240	F		F-SAT-N-E-36E	36	N	PART-IIS		2898
116500128	F		F-SAT-N-E-3E	3	N	PART-IIS		2886
117500333	F		F-SAT-N-E-48E	48	N	PART-IIS		2881
118500080	F		F-SAT-N-E-5W	-5	N	PART-IIS		2890
116500136	F		F-SAT-N-E-70.5E	70.5	N	PART-IIS		2906
116500129	F		F-SAT-N-E-7E	7	N	PART-IIS		2873
114500146	F		F-SAT-N-E-8W	-8	N	PART-IIS		2842
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

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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
113520290	F		F-SAT-N3-36W	-36	C	CR/C	3519	2785
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
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

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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
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
115520058	F		F-SAT-N4-113W	-113	C	CR/C	3781	2816
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	2819
115523037	F		F-SAT-N4-116.9W_1	-116.9	C	CR/F	240	2805
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	2812
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
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
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

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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
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
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
114520241	F		F-SAT-N4-28W	-28	C	CR/C	3687	2808
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
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-N4-65W	-65	C	CR/E	1080	2828
114520233	F		F-SAT-N4-65W	-65	C	CR/C	3694	2828
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

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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
116520202	F		F-SAT-N5-100W	-100	C	CR/C	4181	2855
115520287	F		F-SAT-N5-108.5E	108.5	C	CR/C	3975	2837
115523083	F		F-SAT-N5-108.5E_1	108.5	C	CR/F	291	2823
115520272	F		F-SAT-N5-10E	10	C	CR/C	3961	2896
115523068	F		F-SAT-N5-10E_1	10	C	CR/F	277	2823
115520299	F		F-SAT-N5-113W	-113	C	CR/C	3983	2837
115520300	F		F-SAT-N5-117W	-117	C	CR/C	3984	2837
115523096	F		F-SAT-N5-117W_1	-117	C	CR/F	299	2823
115520293	F		F-SAT-N5-12.5W	-12.5	C	CR/C	3980	2838
115523089	F		F-SAT-N5-12.5W_1	-12.5	C	CR/F	296	2823
116520219	F		F-SAT-N5-133.5E	133.5	C	CR/C	4183	2855
116523063	F		F-SAT-N5-133.5E_1	133.5	C	CR/F	367	2840
116520201	F		F-SAT-N5-133W	-133	C	CR/C	4182	2855
116523057	F		F-SAT-N5-133W_1	-133	C	CR/F	366	2839
116520218	F		F-SAT-N5-136E	136	C	CR/C	4184	2855
116523062	F		F-SAT-N5-136E_1	136	C	CR/F	368	2840
115520273	F		F-SAT-N5-13E	13	C	CR/C	3962	2838
115523069	F		F-SAT-N5-13E_1	13	C	CR/F	278	2823
115520274	F		F-SAT-N5-14.5E	14.5	C	CR/C	3963	2864
115523070	F		F-SAT-N5-14.5E_1	14.5	C	CR/F	279	2823
116520216	F		F-SAT-N5-155.9E	155.9	C	CR/C	4185	2855
116523060	F		F-SAT-N5-155.9E_1	155.9	C	CR/F	364	2839
116520217	F		F-SAT-N5-169E	169	C	CR/C	4186	2855
116523061	F		F-SAT-N5-169E_1	169	C	CR/F	365	2840
115520275	F		F-SAT-N5-16E	16	C	CR/C	3965	2838
115523071	F		F-SAT-N5-16E_1	16	C	CR/F	280	2823
115520289	F		F-SAT-N5-172E	172	C	CR/C	3976	2837
115523085	F		F-SAT-N5-172E_1	172	C	CR/F	292	2823
115520276	F		F-SAT-N5-21.5E	21.5	C	CR/C	3964	2838
115523072	F		F-SAT-N5-21.5E_1	21.5	C	CR/F	281	2823
115520277	F		F-SAT-N5-25.5E	25.5	C	CR/C	3966	2838
115523073	F		F-SAT-N5-25.5E_1	25.5	C	CR/F	282	2823
115520278	F		F-SAT-N5-33E	33	C	CR/C	3967	2838
115523074	F		F-SAT-N5-33E_1	33	C	CR/F	283	2823
115520279	F		F-SAT-N5-36E	36	C	CR/C	3968	2838
115523075	F		F-SAT-N5-36E_1	36	C	CR/F	284	2823
115520295	F		F-SAT-N5-36W	-36	C	CR/C	3981	2838
115523091	F		F-SAT-N5-36W_1	-36	C	CR/F	297	2823
115520296	F		F-SAT-N5-39W	-39	C	CR/C	3982	2838
115523092	F		F-SAT-N5-39W_1	-39	C	CR/F	298	2823
115520269	F		F-SAT-N5-3E	3	C	CR/C	3958	2838
115523065	F		F-SAT-N5-3E_1	3	C	CR/F	274	2823
115520280	F		F-SAT-N5-48E	48	C	CR/C	3969	2838
115523076	F		F-SAT-N5-48E_1	48	C	CR/F	285	2823
116520179	F		F-SAT-N5-51.5W	-51.5	C	CR/C	4148	2852
116523049	F		F-SAT-N5-51.5W_1	-51.5	C	CR/F	357	2837

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115523086	F		F-SAT-N5-5W_1	-5	C	CR/F	293	2823
115520281	F		F-SAT-N5-70.5E	70.5	C	CR/C	3970	2838
115523077	F		F-SAT-N5-70.5E_1	70.5	C	CR/F	286	2823
115520271	F		F-SAT-N5-7E	7	C	CR/C	3959	2896
115523066	F		F-SAT-N5-7E_1	7	C	CR/F	275	2823
115520292	F		F-SAT-N5-7W	-7	C	CR/C	3978	2838
115523087	F		F-SAT-N5-7W_1	-7	C	CR/F	294	2823
115520282	F		F-SAT-N5-80.5E	80.5	C	CR/C	3971	2838
115523078	F		F-SAT-N5-80.5E_1	80.5	C	CR/F	287	2823
115520283	F		F-SAT-N5-83.5E	83.5	C	CR/C	3973	2838
115523079	F		F-SAT-N5-83.5E_1	83.5	C	CR/F	288	2823
116520204	F		F-SAT-N5-86W	-86	C	CR/C	4179	2855
115520284	F		F-SAT-N5-87E	87	C	CR/C	3974	2838
115523080	F		F-SAT-N5-87E_1	87	C	CR/F	289	2823
115520285	F		F-SAT-N5-88.5E	88.5	C	CR/C	3972	2838
115523081	F		F-SAT-N5-88.5E_1	88.5	C	CR/F	290	2823
115520291	F		F-SAT-N5-8W	-8	C	CR/C	3979	2838
115523088	F		F-SAT-N5-8W_1	-8	C	CR/F	295	2823
116520203	F		F-SAT-N5-90W	-90	C	CR/C	4180	2855
115520270	F		F-SAT-N5-9E	9	C	CR/C	3960	2896
115523067	F		F-SAT-N5-9E_1	9	C	CR/F	276	2823
118520142	F		F-SAT-N6-103E	103	C	CR/C	4775	2902
117520260	F		F-SAT-N6-11.5E	11.5	C	CR/C	4532	2896
117520264	F		F-SAT-N6-123.5E	123.5	C	CR/C	4533	2880
117520263	F		F-SAT-N6-127E	127	C	CR/C	4534	2880
117520271	F		F-SAT-N6-133W	-133	C	CR/C	4541	2880
117520265	F		F-SAT-N6-136.5E	136.5	C	CR/C	4535	2880
117520272	F		F-SAT-N6-139W	-139	C	CR/C	4542	2880
117520266	F		F-SAT-N6-143E	143	C	CR/C	4536	2880
117520273	F		F-SAT-N6-146W	-146	C	CR/C	4543	2880
117520408	F		F-SAT-N6-165W	-165	C	CR/C	4600	2884
117520267	F		F-SAT-N6-28W	-28	C	CR/C	4537	2880
117520268	F		F-SAT-N6-69.45W	-69.45	C	CR/C	4538	2880
117520269	F		F-SAT-N6-72W	-72	C	CR/C	4539	2880
117520270	F		F-SAT-N6-94W	-94	C	CR/C	4540	2880
119520125	F		F-SAT-N7-1.6E	1.6	C	CR/C	5030	2904
119520148	F		F-SAT-N7-100W	-100	C	CR/C	5058	2906
118520157	F		F-SAT-N7-10E	10	C	CR/C	4790	2898
118520158	F		F-SAT-N7-11.5E	11.5	C	CR/C	4791	2898
119520127	F		F-SAT-N7-113W	-113	C	CR/C	5032	2904
119520164	F		F-SAT-N7-117.4E	117.4	C	CR/C	5065	2906
119520149	F		F-SAT-N7-117W	-117	C	CR/C	5059	2906
118520169	F		F-SAT-N7-12.5W	-12.5	C	CR/C	4792	2898
119520130	F		F-SAT-N7-13.3E	13.3	C	CR/C	5033	2904
119520180	F		F-SAT-N7-132E	132	C	CR/C	5083	2907
118520163	F		F-SAT-N7-13E	13	C	CR/C	4793	2898
118520164	F		F-SAT-N7-14.5E	14.5	C	CR/C	4794	2898
119520132	F		F-SAT-N7-14.8E	14.8	C	CR/C	5037	2904

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119520160	F		F-SAT-N7-141.5W	-141.5	C	CR/C	5068	2906
119520154	F		F-SAT-N7-152E	152	C	CR/C	5061	2906
119520147	F		F-SAT-N7-152W	-152	C	CR/C	5057	2906
119520170	F		F-SAT-N7-155.9E	155.9	C	CR/C	5074	2907
119520171	F		F-SAT-N7-159.5E	159.5	C	CR/C	5075	2907
119520172	F		F-SAT-N7-163.5E	163.5	C	CR/C	5076	2907
119520155	F		F-SAT-N7-164.1E	164.1	C	CR/C	5056	2906
119520159	F		F-SAT-N7-168W	-168	C	CR/C	5063	2906
119520161	F		F-SAT-N7-169E	169	C	CR/C	5067	2906
118520172	F		F-SAT-N7-16E	16	C	CR/C	4795	2898
119520162	F		F-SAT-N7-172E	172	C	CR/C	5066	2906
119520163	F		F-SAT-N7-178E	178	C	CR/C	5064	2906
119520126	F		F-SAT-N7-2.7E	2.7	C	CR/C	5034	2904
118520166	F		F-SAT-N7-21.5E	21.5	C	CR/C	4796	2898
118520167	F		F-SAT-N7-33E	33	C	CR/C	4797	2898
118520159	F		F-SAT-N7-36E	36	C	CR/C	4798	2898
119520158	F		F-SAT-N7-39W	-39	C	CR/C	5062	2906
118520155	F		F-SAT-N7-3E	3	C	CR/C	4784	2898
119520133	F		F-SAT-N7-48E	48	C	CR/C	5038	2904
119520177	F		F-SAT-N7-55.5W	-55.5	C	CR/C	5077	2907
119520176	F		F-SAT-N7-57W	-57	C	CR/C	5078	2907
119520175	F		F-SAT-N7-58W	-58	C	CR/C	5079	2907
119520151	F		F-SAT-N7-59.5W	-59.5	C	CR/C	5060	2906
118520168	F		F-SAT-N7-5W	-5	C	CR/C	4786	2898
119520128	F		F-SAT-N7-7.2E	7.2	C	CR/C	5035	2904
119520167	F		F-SAT-N7-70.5E	70.5	C	CR/C	5080	2907
118520156	F		F-SAT-N7-7E	7	C	CR/C	4785	2898
118520160	F		F-SAT-N7-7W	-7	C	CR/C	4787	2898
119520152	F		F-SAT-N7-80.5E	80.5	C	CR/C	5054	2906
119520173	F		F-SAT-N7-83.5E	83.5	C	CR/C	5081	2907
119520150	F		F-SAT-N7-84W	-84	C	CR/C	5055	2906
119520168	F		F-SAT-N7-86W	-86	C	CR/C	5072	2907
119520178	F		F-SAT-N7-87E	87	C	CR/C	5082	2907
119520153	F		F-SAT-N7-88.5E	88.5	C	CR/C	5053	2906
119520169	F		F-SAT-N7-88W	-88	C	CR/C	5073	2907
118520161	F		F-SAT-N7-8W	-8	C	CR/C	4788	2898
119520129	F		F-SAT-N7-9.3E	9.3	C	CR/C	5036	2904
119520165	F		F-SAT-N7-90W	-90	C	CR/C	5071	2907
118520170	F		F-SAT-N7-9E	9	C	CR/C	4789	2898
117520117	F		F-SAT-RN-113W	-113	C	CR/C	4451	2870
117520381	F		F-SAT-RN-5W	-5	C	CR/C	4593	2884
112500206	F		F-SAT-S-E-10E	10	N	PART-IIS		2742
118500155	F		F-SAT-T-E-13E	13	N	PART-IIS		2893
118500156	F		F-SAT-T-E-36E	36	N	PART-IIS		2893
118500154	F		F-SAT-T-E-9E	9	N	PART-IIS		2893
118520358	F		FMS5-25E	25	C	CR/C	4900	2909
118520359	F		FMS5-33E	33	C	CR/C	4901	2909
118520365	F		FMS5-37.5E	37.5	C	CR/C	4902	2909

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118520357	F		FMS5-3E	3	C	CR/C	4904	2909
118520362	F		FMS5-45.5E	45.5	C	CR/C	4905	2909
118520360	F		FMS5-45E	45	C	CR/C	4906	2909
118520363	F		FMS5-46E	46	C	CR/C	4907	2909
118520364	F		FMS5-47E	47	C	CR/C	4908	2909
118520356	F		FMS5-5W	-5	C	CR/C	4909	2909
118520355	F		FMS5-6W	-6	C	CR/C	4910	2909
118520354	F		FMS5-7W	-7	C	CR/C	4911	2909
118520353	F		FMS5-8W	-8	C	CR/C	4912	2909
110500276	F		GEOSAT-3E	3	N	PART-IIS		2820
116520104	F		HORIZONSAT-5	72	C	CR/C	4080	2856
116520220	F		LB-SAT-133E	133	C	CR/C	4206	2856
116523064	F		LB-SAT-133E_1	133	C	CR/F	373	2841
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
118520035	F		LH-SAT-151.5E-G2	151.5	C	CR/C	4681	2888
115520311	F		LH-SAT-2.4W	-2.4	C	CR/C	3985	2839
115523101	F		LH-SAT-2.4W_1	-2.4	C	CR/F	300	2824
115520309	F		MR-SAT-44W	-44	C	CR/C	3986	2839
115523099	F		MR-SAT-44W_1	-44	C	CR/F	301	2824
115520132	F		MR-T-SAT-25E	25	C	CR/C	3828	2819
115523039	F		MR-T-SAT-25E_1	25	C	CR/F	242	2806
115520310	F		RN-SAT-2.9E	2.9	C	CR/C	3987	2839
115523100	F		RN-SAT-2.9E_1	2.9	C	CR/F	302	2824
106500332	F		SYRACUSE-31E	-5	N	PART-IIS		2667
106500334	F		SYRACUSE-31H	47	N	PART-IIS		2668
103500372	F		SYRACUSE-3E	-5	N	PART-IIS		2616
103500370	F		SYRACUSE-3H	47	N	PART-IIS		2619
112500243	F		SYRACUSE-4E	-5	N	PART-IIS		2747
112500227	F		SYRACUSE-4H	47	N	PART-IIS		2744
92500046	F		TELECOM-2A	-8	N	PART-IIS		2818
92500047	F		TELECOM-2B	-5	N	PART-IIS		2854
92500048	F		TELECOM-2C	3	N	PART-IIS		2820
106500317	F		TELECOM-3A	-8	N	PART-IIS		2818
106500351	F		TELECOM-3B	-5	N	PART-IIS		2853
106500316	F		TELECOM-3C	3	N	PART-IIS		2830
107500300	F		TELECOM-4A	-8	N	PART-IIS		2823
107500336	F		TELECOM-4B	-5	N	PART-IIS		2848
109500885	F		TELECOM-4C	3	N	PART-IIS		2830
101500513	F		VIDEOSAT-6	-8	N	PART-IIS		2780
107500524	F		VIDEOSAT-6-KA	-8	N	PART-IIS		2647
100500161	F		VIDEOSAT-7	-5	N	PART-IIS		2674
107500382	F		VIDEOSAT-7-KA	-5	N	PART-IIS		2622
107500417	F		VIDEOSAT-8-KU-C	3	N	PART-IIS		2648
111500188	G		AM-SAT 125W	-125	N	PART-IIS		2718
109500405	G		AM-SAT A4	108.2	N	PART-IIS		2658
115500046	G		AM-SAT-108.2E-G	108.2	N	PART-IIS		2833
102500435	G		ARTEMIS-21.5E-DR	21.5	N	PART-IIS		2887

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
106500361	G		ARTEMIS-21.5E-LM	21.5	N	PART-IIS		2824
108500574	G		ARTEMIS-21.5E-NAV	21.5	N	PART-IIS		2824
118520054	G		AURORA-IV-154W	-154	C	CR/C	4699	2890
119520040	G		DIMENSION-1	-28	C	CR/C	4961	2897
119520041	G		DIMENSION-2	-22	C	CR/C	4962	2897
119520042	G		DIMENSION-3	72.5	C	CR/C	4963	2897
119520043	G		DIMENSION-4	166	C	CR/C	4964	2897
119520044	G		DIMENSION-5	176	C	CR/C	4965	2897
119520045	G		DIMENSION-6	-131	C	CR/C	4966	2897
119520046	G		DIMENSION-7	-135	C	CR/C	4967	2897
119520047	G		DIMENSION-8	-150	C	CR/C	4968	2897
103500150	G		DJCF-1A	39.5	N	PART-IIS		2905
104500480	G		DJCF-1B	46	N	PART-IIS		2635
103500151	G		DJCF-2A	-39	N	PART-IIS		2905
104500319	G		DJCF-2B	-26	N	PART-IIS		2626
117520018	G		ECHOSTAR-EML1	10	C	CR/C	4350	2864
116520101	G		ECHOSTAR-SM1	13.9	C	CR/C	4065	2842
113500106	G		ESAT 1	25	N	PART-IIS		2855
117500110	G		ESAT-5	33	N	PART-IIS		2896
117520415	G		ESS-HS-SEA	150.2	C	CR/C	4606	2869
118520192	G		GANTS-1	73	C	CR/E	1861	2896
118520192	G		GANTS-1	73	C	CR/C	4818	2896
118520193	G		GANTS-2	-45	C	CR/E	1862	2896
118520193	G		GANTS-2	-45	C	CR/C	4819	2896
118520194	G		GANTS-3	-167	C	CR/E	1863	2896
118520194	G		GANTS-3	-167	C	CR/C	4820	2896
109500200	G		GIBSAT A1	-105	N	PART-IIS		2666
115520005	G		GIBSAT-108.4E	108.4	C	CR/C	3741	2812
115523002	G		GIBSAT-108.4E_1	108.4	C	CR/F	209	2799
118500190	G		GIBSAT-129W	-129	N	PART-IIS		2892
117500342	G		GIBSAT-129W-B	-129	N	PART-IIS		2883
119500151	G		GIBSAT-72.5W	-72.5	N	PART-IIS		2905
117520180	G		GIBSAT-72W	-72	C	CR/C	4490	2873
112500009	G		GIBSAT-8B	-47	N	PART-IIS		2891
114520193	G		GIBSAT-G14-1	-72	C	CR/C	3669	2803
116520115	G		GIBSAT-G14-2	-129	C	CR/C	4088	2847
114520046	G		HMG-SAT-01	97	C	CR/C	3561	2826
116520146	G		HMG-SAT-01A	95	C	CR/C	4114	2849
114520031	G		HMG-SAT-02	107.5	C	CR/C	3542	2790
111500151	G		ICO-G	-93	N	PART-IIS		2842
109500253	G		INMARSAT GSO-2J	-54	N	PART-IIS		2896
109500230	G		INMARSAT GSO-2N	64	N	PART-IIS		2696
92500069	G		INMARSAT-2 AOR EAST	-15.5	N	PART-IIS		2896
97500292	G		INMARSAT-3 AOR EAST	-15.5	N	PART-IIS		2896
97500291	G		INMARSAT-3 AOR WEST2	-54	N	PART-IIS		2862
107500118	G		INMARSAT-3 AOR WEST3	-98	N	PART-IIS		2910
103500320	G		INMARSAT-3 IOR WEST	25	N	PART-IIS		2893
96500418	G		INMARSAT-3 IOR-1	64	N	PART-IIS		2736
97500253	G		INMARSAT-3 POR-2	178	N	PART-IIS		2871

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108501205	G		INMARSAT-3 POR-3	143.5	N	PART-IIS		2785
112500010	G		INMARSAT-4 143.5E	143.5	N	PART-IIS		2725
110500192	G		INMARSAT-4 25E	25	N	PART-IIS		2889
110500194	G		INMARSAT-4 98W	-98	N	PART-IIS		2866
115500221	G		INMARSAT-4A 143.5E	143.5	N	PART-IIS		2885
115500018	G		INMARSAT-4A 25E	25	N	PART-IIS		2889
114500078	G		INMARSAT-4A 98W	-98	N	PART-IIS		2822
115520009	G		INMARSAT-4B 64E	64	C	CR/C	3773	2816
116520191	G		INMARSAT-6-108.5E	108.5	C	CR/C	4157	2853
118520061	G		INMARSAT-6-117E5	117.5	C	CR/C	4705	2890
115520185	G		INMARSAT-6-142W	-142	C	CR/C	3880	2832
115520188	G		INMARSAT-6-143.5E	143.5	C	CR/C	3884	2832
116520192	G		INMARSAT-6-147E	147	C	CR/C	4158	2853
116520185	G		INMARSAT-6-147W	-147	C	CR/C	4161	2853
118520063	G		INMARSAT-6-148W	-148	C	CR/C	4704	2890
115520191	G		INMARSAT-6-15.5W	-15.5	C	CR/C	3885	2832
118520138	G		INMARSAT-6-159W	-159	C	CR/C	4772	2895
116520187	G		INMARSAT-6-17.5W	-17.5	C	CR/C	4159	2853
116520184	G		INMARSAT-6-175W	-175	C	CR/C	4162	2853
115520184	G		INMARSAT-6-178E	178	C	CR/C	3879	2832
116520188	G		INMARSAT-6-21.5E	21.5	C	CR/C	4154	2853
115520190	G		INMARSAT-6-25E	25	C	CR/C	3883	2832
118520062	G		INMARSAT-6-28W	-28	C	CR/E	1856	2894
118520062	G		INMARSAT-6-28W	-28	C	CR/C	4703	2894
115520189	G		INMARSAT-6-54W	-54	C	CR/C	3881	2832
116520186	G		INMARSAT-6-57W	-57	C	CR/C	4160	2853
116520189	G		INMARSAT-6-58E	58	C	CR/C	4155	2853
115520187	G		INMARSAT-6-64E	64	C	CR/C	3878	2832
118520080	G		INMARSAT-6-83E5	83.5	C	CR/C	4714	2892
116520190	G		INMARSAT-6-86E	86	C	CR/C	4156	2853
115520186	G		INMARSAT-6-98W	-98	C	CR/C	3882	2832
119520079	G		INMARSAT-8-11E	11	C	CR/C	4994	2901
119520081	G		INMARSAT-8-123W1	-123.1	C	CR/C	4992	2901
119520082	G		INMARSAT-8-143E5	143.5	C	CR/C	4995	2901
119520083	G		INMARSAT-8-175W	-175	C	CR/C	4993	2901
119520080	G		INMARSAT-8-57W	-57	C	CR/C	4991	2901
119520078	G		INMARSAT-8-6W	-6	C	CR/C	4990	2901
119545061	G		INMARSAT-ISL-143E5	143.5	A	API/A	12355	2909
119545062	G		INMARSAT-ISL-25E	25	A	API/A	12356	2909
119545064	G		INMARSAT-ISL-64E	64	A	API/A	12358	2909
119545063	G		INMARSAT-ISL-98W	-98	A	API/A	12357	2909
116500257	G		INMARSAT-KA 180E	180	N	PART-IIS		2891
116500110	G		INMARSAT-KA 55W	-55	N	PART-IIS		2891
118500104	G		INMARSAT-KA 63E	63	N	PART-IIS		2889
118500200	G		INMARSAT-KA 83.5E	83.5	N	PART-IIS		2894
114520160	G		INMARSAT-S4-R	39	C	CR/C	3651	2801
114500076	G		INMARSAT-XL1	25	N	PART-IIS		2802
118520089	G		IOMSAT-119.5E	119.5	C	CR/C	4727	2895
112500005	G		IOMSAT-11A	-115	N	PART-IIS		2749

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115520090	G		IOMSAT-128E	128	C	CR/C	3805	2818
118500263	G		IOMSAT-2A2	-15	N	PART-IIS		2894
116520195	G		IOMSAT-G1-1	-28	C	CR/C	4152	2852
116523055	G		IOMSAT-G1-1_1	-28	C	CR/F	358	2837
116520196	G		IOMSAT-G1-2	72.5	C	CR/C	4153	2852
116523056	G		IOMSAT-G1-2_1	72.5	C	CR/F	359	2837
112520427	G		IOMSAT-KA-138E	138	C	CR/C	3253	2907
115500113	G		IOMSAT-KA-63W	-63	N	PART-IIS		2894
113520001	G		IOMSAT-KA-63W-R	-63	C	CR/E	1626	2876
113520001	G		IOMSAT-KA-63W-R	-63	C	CR/C	3359	2876
117500300	G		IOMSAT-R1	154	N	PART-IIS		2879
115520023	G		IOMSAT_130E	130	C	CR/C	3750	2815
115520022	G		IOMSAT_20E	20	C	CR/C	3749	2815
115520021	G		IOMSAT_90W	-90	C	CR/C	3748	2815
118520104	G		SENTIENT-1	82	C	CR/C	4741	2895
118520205	G		SKYNET-34W-KQ	-34	C	CR/E	1870	2896
118520205	G		SKYNET-34W-KQ	-34	C	CR/C	4823	2896
95500617	G		SKYNET-4A	-1	N	PART-IIS		2908
92500068	G		SKYNET-4B	6	N	PART-IIS		2251
95500150	G		SKYNET-4C	53	N	PART-IIS		2821
98500171	G		SKYNET-4D	-34	N	PART-IIS		2821
104500381	G		SKYNET-4J	-1	N	PART-IIS		2908
104500383	G		SKYNET-4K	6	N	PART-IIS		2642
104500384	G		SKYNET-4L	53	N	PART-IIS		2627
104500382	G		SKYNET-4M	-34	N	PART-IIS		2627
118520206	G		SKYNET-53E-KQ	53	C	CR/E	1871	2896
118520206	G		SKYNET-53E-KQ	53	C	CR/C	4824	2896
108501023	G		SKYNET-5A	-34	N	PART-IIS		2839
108501024	G		SKYNET-5B	-1	N	PART-IIS		2908
116520224	G		SKYNET-5B-KA3	-1	C	CR/E	1339	2855
116520224	G		SKYNET-5B-KA3	-1	C	CR/C	4200	2855
108501025	G		SKYNET-5C	6	N	PART-IIS		2693
116520225	G		SKYNET-5C-KA3	6	C	CR/E	1340	2855
116520225	G		SKYNET-5C-KA3	6	C	CR/C	4201	2855
108501026	G		SKYNET-5D	53	N	PART-IIS		2842
111500099	G		SKYNET-5E	-17.8	N	PART-IIS		2733
116520226	G		SKYNET-5E-KA3	-17.8	C	CR/E	1341	2855
116520226	G		SKYNET-5E-KA3	-17.8	C	CR/C	4202	2855
116520227	G		SKYNET-5H-KA	33	C	CR/E	1331	2852
116520227	G		SKYNET-5H-KA	33	C	CR/C	4193	2852
118520179	G		TSAT-1	138	C	CR/C	4804	2898
118500276	G		UK-KA-1	-70	N	PART-IIS		2897
113520156	G		UK-KA-13	-133	C	CR/C	3409	2768
116520342	G		UK-KA-134E	134	C	CR/C	4253	2859
117520035	G		UK-KA-134E-VB	134	C	CR/E	1493	2863
117520035	G		UK-KA-134E-VB	134	C	CR/C	4356	2863
116520343	G		UK-KA-137.5E	137.5	C	CR/C	4254	2859
117520036	G		UK-KA-137.5E-VB	137.5	C	CR/E	1494	2863
117520036	G		UK-KA-137.5E-VB	137.5	C	CR/C	4357	2863

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116520344	G		UK-KA-148E	148	C	CR/C	4255	2859
117520037	G		UK-KA-148E-VB	148	C	CR/E	1495	2863
117520037	G		UK-KA-148E-VB	148	C	CR/C	4358	2863
116520345	G		UK-KA-150E	150	C	CR/C	4256	2859
117520038	G		UK-KA-150E-VB	150	C	CR/E	1496	2863
117520038	G		UK-KA-150E-VB	150	C	CR/C	4359	2863
116520346	G		UK-KA-158E	158	C	CR/C	4257	2859
117520039	G		UK-KA-158E-VB	158	C	CR/E	1497	2863
117520039	G		UK-KA-158E-VB	158	C	CR/C	4360	2863
116520340	G		UK-KA-17.5E	17.5	C	CR/C	4251	2859
117520040	G		UK-KA-17.5E-VB	17.5	C	CR/E	1491	2863
117520040	G		UK-KA-17.5E-VB	17.5	C	CR/C	4354	2863
118520106	G		UK-KA-1A	-70	C	CR/C	4742	2895
117520091	G		UK-KA-1R	-70	C	CR/C	4430	2869
116520341	G		UK-KA-21E	21	C	CR/C	4252	2859
117520041	G		UK-KA-21E-VB	21	C	CR/E	1492	2863
117520041	G		UK-KA-21E-VB	21	C	CR/C	4355	2863
113520152	G		UK-KA-4	-12	C	CR/C	3405	2768
113520154	G		UK-KA-7	-79	C	CR/C	3407	2768
116520221	G		UK-KA-7R	-79	C	CR/C	4187	2857
117520042	G		UK-KA-7R-VB	-79	C	CR/E	1488	2863
117520042	G		UK-KA-7R-VB	-79	C	CR/C	4351	2863
114520019	G		UK-KA-8	-89	C	CR/C	3547	2790
116520222	G		UK-KA-8R	-89	C	CR/C	4188	2857
117520043	G		UK-KA-8R-VB	-89	C	CR/E	1489	2863
117520043	G		UK-KA-8R-VB	-89	C	CR/C	4352	2863
116520339	G		UK-KA-9E	9	C	CR/C	4250	2859
117520044	G		UK-KA-9E-VB	9	C	CR/E	1490	2863
117520044	G		UK-KA-9E-VB	9	C	CR/C	4353	2863
115520041	G		UK-KUKA-1	-1	C	CR/C	3768	2815
115520042	G		UK-KUKA-2	19	C	CR/C	3769	2815
115520043	G		UK-KUKA-3	23.3	C	CR/C	3770	2815
117520284	G		UK-V-70W	-69.9	C	CR/C	4552	2880
111500087	G		UKDIGISAT-3	-33.5	N	PART-IIS		2827
112500065	G		UKDIGISAT-4A TT&C	-33.5	N	PART-IIS		2730
112520150	G		UKDRS-A1	22.5	C	CR/C	3182	2732
113520230	G		UKDRS-A10	-61	C	CR/C	3462	2763
119520024	G		UKDRS-A11	31	C	CR/C	4950	2896
119520099	G		UKDRS-A12	61.5	C	CR/C	5014	2902
119520100	G		UKDRS-A13	55	C	CR/C	5015	2902
119520103	G		UKDRS-A14	-33.5	C	CR/C	5016	2902
119520102	G		UKDRS-A15	-41	C	CR/C	5017	2902
119520101	G		UKDRS-A16	-61	C	CR/C	5018	2902
112520151	G		UKDRS-A2	31	C	CR/C	3183	2732
112520152	G		UKDRS-A3	39	C	CR/C	3184	2732
113520228	G		UKDRS-A5	55	C	CR/C	3460	2763
113520035	G		UKDRS-A6	61.5	C	CR/C	3350	2746
113520036	G		UKDRS-A8	-33.5	C	CR/C	3351	2746
113520229	G		UKDRS-A9	-41	C	CR/C	3461	2763

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115520031	G		UKDSAT-A	-41	C	CR/C	3758	2812
113520178	G		UKDSAT-A1	-61	C	CR/C	3425	2892
115500100	G		UKDSAT-A2	-33.5	N	PART-IIS		2889
115520032	G		UKDSAT-B	-33.5	C	CR/E	945	2812
115520032	G		UKDSAT-B	-33.5	C	CR/C	3759	2812
112520065	G		UKDSAT-B1	31	C	CR/E	806	2792
112520065	G		UKDSAT-B1	31	C	CR/C	3138	2792
112520066	G		UKDSAT-B2	39	C	CR/C	3139	2892
115520033	G		UKDSAT-C	31	C	CR/E	946	2812
115520033	G		UKDSAT-C	31	C	CR/C	3760	2812
112520067	G		UKDSAT-C1	61.5	C	CR/C	3140	2892
112520068	G		UKDSAT-C2	55	C	CR/C	3141	2892
115520034	G		UKDSAT-D	39	C	CR/E	947	2812
115520034	G		UKDSAT-D	39	C	CR/C	3761	2812
113520180	G		UKDSAT-D1	165	C	CR/C	3426	2892
113520181	G		UKDSAT-D2	159	C	CR/C	3427	2892
115520040	G		UKDSAT-D4	21.5	C	CR/E	953	2812
115520040	G		UKDSAT-D4	21.5	C	CR/C	3767	2812
115520035	G		UKDSAT-E	55	C	CR/E	948	2812
115520035	G		UKDSAT-E	55	C	CR/C	3762	2812
115520036	G		UKDSAT-F	61.5	C	CR/E	949	2812
115520036	G		UKDSAT-F	61.5	C	CR/C	3763	2812
115520037	G		UKDSAT-G	159	C	CR/E	950	2812
115520037	G		UKDSAT-G	159	C	CR/C	3764	2812
115520038	G		UKDSAT-H	165	C	CR/E	951	2812
115520038	G		UKDSAT-H	165	C	CR/C	3765	2812
115520039	G		UKDSAT-K	-61	C	CR/E	952	2812
115520039	G		UKDSAT-K	-61	C	CR/C	3766	2812
112500279	G		UKJKSAT-1	31	N	PART-IIS		2827
114520020	G		UKJKSAT-2	21.5	C	CR/C	3548	2790
114523007	G		UKJKSAT-2_1	21.5	C	CR/F	126	2776
114520143	G		UKMMSAT-A	-41	C	CR/C	3630	2798
116500157	G		UKMMSAT-A2	-33.5	N	PART-IIS		2882
112520269	G		UKMMSAT-A2-TTC-C	-41	C	CR/E	413	2747
112520269	G		UKMMSAT-A2-TTC-C	-41	C	CR/C	3221	2747
112520178	G		UKMMSAT-A3	-33.5	C	CR/C	3186	2744
114523034	G		UKMMSAT-A_1	-41	C	CR/F	149	2784
114520144	G		UKMMSAT-B	-33.5	C	CR/C	3631	2798
111520236	G		UKMMSAT-B1	31	C	CR/C	2963	2854
113500085	G		UKMMSAT-B1-TTC-C	31	N	PART-IIS		2754
112520205	G		UKMMSAT-B2-TTC-C	33	C	CR/C	3198	2733
114523035	G		UKMMSAT-B_1	-33.5	C	CR/F	150	2784
114520145	G		UKMMSAT-C	31	C	CR/C	3632	2798
116520231	G		UKMMSAT-C0	31.15	C	CR/C	4196	2856
116523066	G		UKMMSAT-C0_1	31.15	C	CR/F	371	2841
112520270	G		UKMMSAT-C2-TTC-C	55	C	CR/E	414	2747
112520270	G		UKMMSAT-C2-TTC-C	55	C	CR/C	3222	2747
114523036	G		UKMMSAT-C_1	31	C	CR/F	151	2784

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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
114520148	G		UKMMSAT-F	61.5	C	CR/C	3635	2798
114523039	G		UKMMSAT-F_1	61.5	C	CR/F	154	2784
117520094	G		UKNETSAT-122.9W	-122.9	C	CR/C	4438	2873
117520095	G		UKNETSAT-124.9W	-124.9	C	CR/C	4439	2873
114520024	G		UKNETSAT-18W	-18	C	CR/C	3549	2815
115523011	G		UKNETSAT-18W_1	-18	C	CR/F	211	2800
114520023	G		UKNETSAT-34.5W	-34.5	C	CR/C	3550	2790
110500164	G		UKSAT-10	-95	N	PART-IIS		2696
115500072	G		UKSAT-14	-107	N	PART-IIS		2812
111520038	G		UKSAT-24	104	C	CR/C	2813	2854
116520413	G		UKSAT-31	-95	C	CR/C	4302	2870
118520086	G		UKSAT-32	97	C	CR/C	4724	2895
118520088	G		UKSAT-33	-91	C	CR/C	4725	2895
119520166	G		UKSAT-34	-93	C	CR/C	5085	2907
115500151	G		UKSAT-KU-4	-76	N	PART-IIS		2885
102500251	GRC		HELLAS-SAT	39	N	PART-IIS		2811
114500122	GRC		HELLAS-SAT-2G	39	N	PART-IIS		2895
118520191	GRC		HELLAS-SAT-C	39	C	CR/C	4817	2900
119520050	HOL		AMSNL-13.8-KA-2	13.8	C	CR/C	4970	2898
115520125	HOL		BSSNET2A-111W	-110.9	C	CR/C	3826	2819
115520124	HOL		BSSNET2A-115W	-115	C	CR/C	3825	2819
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-IIS		2879
92500290	HOL		INTELSAT IBS 319.5E	-40.5	N	PART-IIS		2895
102500108	HOL		INTELSAT K 319.5E	-40.5	N	PART-IIS		2770
92500137	HOL		INTELSAT K 338.5E	-21.5	N	PART-IIS		2366
102500433	HOL		INTELSAT KA 95E	95	N	PART-IIS		2560
92500212	HOL		INTELSAT5 183E	-177	N	PART-IIS		2884
96500436	HOL		INTELSAT5A 183E	-177	N	PART-IIS		2892
92500194	HOL		INTELSAT5A 319.5E	-40.5	N	PART-IIS		2895
93500467	HOL		INTELSAT5A 338.5E	-21.5	N	PART-IIS		2366
101500276	HOL		INTELSAT5A 95E	95	N	PART-IIS		2640
92500181	HOL		INTELSAT5A INDOC2	57	N	PART-IIS		2770
102500289	HOL		INTELSAT7 183E	-177	N	PART-IIS		2839
102500109	HOL		INTELSAT7 319.5E	-40.5	N	PART-IIS		2770
96500508	HOL		INTELSAT7 57E	57	N	PART-IIS		2770
105500699	HOL		INTELSAT7 95E	95	N	PART-IIS		2580
101500408	HOL		INTELSAT8 183E	-177	N	PART-IIS		2824
101500580	HOL		INTELSAT8 319.5E	-40.5	N	PART-IIS		2888
101500411	HOL		INTELSAT8 338.5E	-21.5	N	PART-IIS		2770
101500410	HOL		INTELSAT8 57E	57	N	PART-IIS		2770
102500434	HOL		INTELSAT8 95E	95	N	PART-IIS		2571
106500323	HOL		NSS-16	-22	N	PART-IIS		2818

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106500346	HOL		NSS-18	-40.5	N	PART-IIS		2896
106500362	HOL		NSS-19	-177	N	PART-IIS		2824
107500153	HOL		NSS-31	-20	N	PART-IIS		2673
110500361	HOL		NSS-35	-40.5	N	PART-IIS		2896
109500334	HOL		NSS-36	57	N	PART-IIS		2818
113500115	HOL		NSS-57	-40.5	N	PART-IIS		2896
105500391	HOL		NSS-8	57	N	PART-IIS		2818
114500139	HOL		NSS-83A	-67.5	N	PART-IIS		2882
105500498	HOL		NSS-9	95	N	PART-IIS		2749
114500103	HOL		NSS-BSS 108.2E TTC	108.2	N	PART-IIS		2812
117500353	HOL		NSS-BSS 95E TTC	95	N	PART-IIS		2882
115500157	HOL		NSS-G2-1	-177	N	PART-IIS		2822
117500065	HOL		NSS-G2-11	-22	N	PART-IIS		2892
117500326	HOL		NSS-G2-16	50.5	N	PART-IIS		2882
117500013	HOL		NSS-G2-17	57	N	PART-IIS		2883
115500044	HOL		NSS-G2-18	95	N	PART-IIS		2887
113520072	HOL		NSS-G4-1	-177	C	CR/E	549	2764
113520072	HOL		NSS-G4-1	-177	C	CR/C	3369	2764
113520039	HOL		NSS-G4-10	-85	C	CR/C	3353	2761
113523016	HOL		NSS-G4-10_1	-85	C	CR/F	40	2747
113520040	HOL		NSS-G4-13	-58	C	CR/C	3354	2761
113523017	HOL		NSS-G4-13_1	-58	C	CR/F	41	2747
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
113523030	HOL		NSS-G4-1_1	-177	C	CR/F	50	2751
113520095	HOL		NSS-G4-2	-157	C	CR/C	3378	2766
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
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
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
113523027	HOL		NSS-G4-2_1	-157	C	CR/F	51	2751
114520013	HOL		NSS-G4-32	148	C	CR/C	3539	2788
114523010	HOL		NSS-G4-32_1	148	C	CR/F	123	2774
113520038	HOL		NSS-G4-6	-131	C	CR/C	3352	2761
113523015	HOL		NSS-G4-6_1	-131	C	CR/F	39	2747
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
115520200	HOL		NSS-G5-13	-40.5	C	CR/C	3890	2829
115523049	HOL		NSS-G5-13_1	-40.5	C	CR/F	252	2814
115520230	HOL		NSS-G5-18	57	C	CR/C	3917	2832
115523064	HOL		NSS-G5-18_1	57	C	CR/F	267	2818

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
114523046	HOL		NSS-G5-1_1	-169.5	C	CR/F	202	2795
114520121	HOL		NSS-G5-2	60	C	CR/C	3730	2812
114523081	HOL		NSS-G5-2_1	60	C	CR/F	203	2798
115520003	HOL		NSS-G5-3	-101	C	CR/C	3753	2815
115523006	HOL		NSS-G5-3_1	-101	C	CR/F	212	2800
115520006	HOL		NSS-G5-4	-103	C	CR/C	3754	2815
115523007	HOL		NSS-G5-4_1	-103	C	CR/F	213	2800
115520314	HOL		NSS-G5-5	-177	C	CR/C	4003	2839
115523097	HOL		NSS-G5-5_1	-177	C	CR/F	303	2824
116520014	HOL		NSS-G6-10	-72	C	CR/C	4124	2851
116520147	HOL		NSS-G6-14	-22	C	CR/C	4125	2851
116523032	HOL		NSS-G6-14_1	-22	C	CR/F	348	2834
116520004	HOL		NSS-G6-7	-125	C	CR/C	4123	2851
117520079	HOL		NSS-G7 135W	-135	C	CR/C	4398	2866
117520080	HOL		NSS-G7 137W	-137	C	CR/C	4399	2866
117520082	HOL		NSS-G7 77W	-77	C	CR/C	4397	2866
117520016	HOL		NSS-G7-131W	-131	C	CR/C	4410	2868
117520081	HOL		NSS-G7-50.5E	50.5	C	CR/C	4401	2866
117520083	HOL		NSS-G7-83W	-83	C	CR/C	4400	2866
118520294	HOL		NSS-G8 139W	-139	C	CR/C	4858	2905
118520295	HOL		NSS-G8 157W	-157	C	CR/C	4859	2905
117520474	HOL		NSS-G8-103W	-103	C	CR/C	4645	2888
117520471	HOL		NSS-G8-137W	-137	C	CR/C	4638	2888
117520376	HOL		NSS-G8-176E	176	C	CR/C	4589	2884
117520405	HOL		NSS-G8-95E	95	C	CR/C	4594	2892
118520318	HOL		NSS-G9-177W	-177	C	CR/C	4872	2906
118520319	HOL		NSS-G9-57E	57	C	CR/C	4873	2906
112500098	HOL		NSS-KA41	95	N	PART-IIS		2728
118520152	HOL		NSS-TTC-100E	100	C	CR/E	1837	2892
118520152	HOL		NSS-TTC-100E	100	C	CR/C	4782	2892
116520408	HOL		PESSE-11E-KA	11	C	CR/C	4317	2862
117520020	HOL		PESSE-11E-VB	11	C	CR/E	1478	2863
117520020	HOL		PESSE-11E-VB	11	C	CR/C	4340	2863
116520440	HOL		PESSE-137E-KA	137	C	CR/C	4320	2862
117520023	HOL		PESSE-137E-VB	137	C	CR/E	1481	2863
117520023	HOL		PESSE-137E-VB	137	C	CR/C	4343	2863
117520370	HOL		PESSE-154E	154	C	CR/C	4588	2884
117520481	HOL		PESSE-158E	158	C	CR/C	4649	2888
119520070	HOL		PESSE-159E	159	C	CR/C	4987	2901
119520071	HOL		PESSE-160E	160	C	CR/C	4988	2901
119520072	HOL		PESSE-162E	162	C	CR/C	4989	2901
116520441	HOL		PESSE-17E-KA	17	C	CR/C	4318	2862
117520021	HOL		PESSE-17E-VB	17	C	CR/E	1479	2863
117520021	HOL		PESSE-17E-VB	17	C	CR/C	4341	2863
116520409	HOL		PESSE-20.5E-KA	20.5	C	CR/C	4319	2862
117520022	HOL		PESSE-20.5E-VB	20.5	C	CR/E	1480	2863
117520022	HOL		PESSE-20.5E-VB	20.5	C	CR/C	4342	2863
117520078	HOL		PESSE-23.5E-KA	23.5	C	CR/C	4389	2866
117520473	HOL		PESSE-57E	57	C	CR/C	4639	2888

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117520234	HOL		PESSE-72W	-72.1	C	CR/C	4531	2880
117520479	HOL		PESSE-79W	-79	C	CR/C	4647	2888
117520480	HOL		PESSE-89W	-89	C	CR/C	4648	2888
117520134	HOL		V-RDBS1	-115	C	CR/C	4457	2870
117520135	HOL		V-RDBS2	-110.9	C	CR/C	4458	2870
112520006	I		ALPHASAT TDP5	25	C	CR/E	384	2743
112520006	I		ALPHASAT TDP5	25	C	CR/C	3181	2743
119520077	I		ITASAT-1A	27	C	CR/C	5004	2902
117520475	I		ITASAT-1B	10	C	CR/C	4646	2902
116520110	I		NEWSAT-1A-1E	1	C	CR/C	4146	2873
113520162	I		NEWSAT-1H-68W	-68	C	CR/C	3414	2770
113520163	I		NEWSAT-1I-77.5W	-77.5	C	CR/C	3412	2770
113520164	I		NEWSAT-1L-87W	-87	C	CR/C	3411	2769
102500428	I		SICRAL-2A	16.2	N	PART-IIS		2818
109500089	I		SICRAL-3A	16.2	N	PART-IIS		2883
109500335	I		SICRAL-3H	11.8	N	PART-IIS		2883
112500189	I		SICRAL-4-37E	37	N	PART-IIS		2883
116520119	IND		GSAT-NS(74E)	74	C	CR/E	1232	2845
116520119	IND		GSAT-NS(74E)	74	C	CR/C	4089	2845
116520120	IND		GSAT-NS(83E)	83	C	CR/E	1233	2845
116520120	IND		GSAT-NS(83E)	83	C	CR/C	4090	2845
116520121	IND		GSAT-NS(93.5E)	93.5	C	CR/E	1234	2845
116520121	IND		GSAT-NS(93.5E)	93.5	C	CR/C	4091	2845
115520330	IND		IND-SATS-48E	48	C	CR/C	4022	2840
115520109	IND		IND-SATS-93.5E	93.5	C	CR/C	3819	2842
90500588	IND		INSAT-1B	74	N			
101500482	IND		INSAT-2(48)	48	N	PART-IIS		2620
102500027	IND		INSAT-2(55)	55	N	PART-IIS		2883
90504231	IND		INSAT-2(74)	74	N	PART-IIS		2749
90504228	IND		INSAT-2(83)	83	N	PART-IIS		2795
90504230	IND		INSAT-2(93.5)	93.5	N	PART-IIS		2777
104500369	IND		INSAT-2E74	74	N	PART-IIS		2883
102500028	IND		INSAT-2E83	83	N	PART-IIS		2895
109500566	IND		INSAT-2E93.5	93.5	N	PART-IIS		2679
97500420	IND		INSAT-2K (74)	74	N	PART-IIS		2874
100500088	IND		INSAT-2K (83)	83	N	PART-IIS		2491
97500421	IND		INSAT-2K (93.5)	93.5	N	PART-IIS		2824
106500257	IND		INSAT-2M (48)	48	N	PART-IIS		2629
106500256	IND		INSAT-2M (74)	74	N	PART-IIS		2629
106500315	IND		INSAT-2M (83)	83	N	PART-IIS		2629
106500255	IND		INSAT-2M (93.5)	93.5	N	PART-IIS		2629
106500254	IND		INSAT-2T (48)	48	N	PART-IIS		2586
105500708	IND		INSAT-2T (55)	55	N	PART-IIS		2865
105500707	IND		INSAT-2T (74)	74	N	PART-IIS		2874
105500709	IND		INSAT-2T (93.5)	93.5	N	PART-IIS		2824
117520158	IND		INSAT-C-Y17(97.3E)	97.3	C	CR/C	4479	2871
118520101	IND		INSAT-C17(82.5E)	82.5	C	CR/E	1818	2891
118520101	IND		INSAT-C17(82.5E)	82.5	C	CR/C	4738	2891

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
118520102	IND		INSAT-C17(85.5E)	85.5	C	CR/E	1819	2891
118520102	IND		INSAT-C17(85.5E)	85.5	C	CR/C	4739	2891
117520006	IND		INSAT-EHFL-129.5E	129.5	C	CR/E	1486	2863
117520006	IND		INSAT-EHFL-129.5E	129.5	C	CR/C	4348	2863
117520003	IND		INSAT-EHFL-32.5E	32.5	C	CR/E	1482	2863
117520003	IND		INSAT-EHFL-32.5E	32.5	C	CR/C	4344	2863
117520004	IND		INSAT-EHFL-48E	48	C	CR/E	1483	2863
117520004	IND		INSAT-EHFL-48E	48	C	CR/C	4345	2863
118520174	IND		INSAT-EHFL-55E	55	C	CR/E	1857	2894
118520174	IND		INSAT-EHFL-55E	55	C	CR/C	4803	2894
117520005	IND		INSAT-EHFL-68E	68	C	CR/E	1484	2863
117520005	IND		INSAT-EHFL-68E	68	C	CR/C	4346	2863
117520007	IND		INSAT-EHFL-82.5E	82.5	C	CR/E	1485	2863
117520007	IND		INSAT-EHFL-82.5E	82.5	C	CR/C	4347	2863
110500090	IND		INSAT-EK48	48	N	PART-IIS		2688
108500669	IND		INSAT-EK48R	48	N	PART-IIS		2652
110500097	IND		INSAT-EK55	55	N	PART-IIS		2821
105500128	IND		INSAT-EK55R	55	N	PART-IIS		2652
108500976	IND		INSAT-EK74	74	N	PART-IIS		2652
105500126	IND		INSAT-EK74R	74	N	PART-IIS		2657
108500668	IND		INSAT-EK83	83	N	PART-IIS		2652
108500575	IND		INSAT-EK83R	83	N	PART-IIS		2658
108500577	IND		INSAT-EK93.5	93.5	N	PART-IIS		2652
108500576	IND		INSAT-EK93.5R	93.5	N	PART-IIS		2655
116500101	IND		INSAT-G5(74)	74	N	PART-IIS		2841
116520367	IND		INSAT-KA101E	101	C	CR/C	4280	2860
116520368	IND		INSAT-KA104.5E	104.5	C	CR/C	4281	2860
114520155	IND		INSAT-KA107.5E	107.5	C	CR/C	3642	2860
116520369	IND		INSAT-KA111.5E	111.5	C	CR/C	4282	2860
116520370	IND		INSAT-KA114E	114	C	CR/C	4283	2860
116520371	IND		INSAT-KA117.5E	117.5	C	CR/C	4284	2860
116520357	IND		INSAT-KA41.8E	41.8	C	CR/C	4270	2859
116520358	IND		INSAT-KA44.8E	44.8	C	CR/C	4271	2859
114520151	IND		INSAT-KA48E	48	C	CR/C	3638	2860
116520359	IND		INSAT-KA51.2E	51.2	C	CR/C	4272	2859
114520152	IND		INSAT-KA55E	55	C	CR/C	3639	2860
114520153	IND		INSAT-KA61E	61	C	CR/C	3640	2860
116520360	IND		INSAT-KA64.3E	64.3	C	CR/C	4273	2859
114520154	IND		INSAT-KA68E	68	C	CR/C	3641	2860
114520192	IND		INSAT-KA74E	74	C	CR/C	3659	2860
116520361	IND		INSAT-KA77.1E	77.1	C	CR/C	4274	2859
116520362	IND		INSAT-KA82.5E	82.5	C	CR/C	4275	2864
116520363	IND		INSAT-KA85.5E	85.5	C	CR/C	4276	2859
116520364	IND		INSAT-KA89E	89	C	CR/C	4277	2859
116520365	IND		INSAT-KA93.5E	93.5	C	CR/C	4278	2860
116520366	IND		INSAT-KA97.3E	97.3	C	CR/C	4279	2860
116500046	IND		INSAT-KAUHF (74)	74	N	PART-IIS		2883
110500114	IND		INSAT-KU10(111.5)E	111.5	N	PART-IIS		2716
111500153	IND		INSAT-KU10(55)E	55	N	PART-IIS		2717

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
116500102	IND		INSAT-KU11(55)E	55	N	PART-IIS		2847
115500136	IND		INSAT-KU11(74)E	74	N	PART-IIS		2874
114520070	IND		INSAT-KU12(63)E	63	C	CR/E	782	2789
114520070	IND		INSAT-KU12(63)E	63	C	CR/C	3583	2789
117520233	IND		INSAT-KU17(111.5E)	111.5	C	CR/E	1642	2877
117520233	IND		INSAT-KU17(111.5E)	111.5	C	CR/C	4529	2877
117520228	IND		INSAT-KU17(48E)	48	C	CR/E	1638	2877
117520228	IND		INSAT-KU17(48E)	48	C	CR/C	4525	2877
117520229	IND		INSAT-KU17(55E)	55	C	CR/E	1637	2876
117520229	IND		INSAT-KU17(55E)	55	C	CR/C	4524	2876
117520230	IND		INSAT-KU17(74E)	74	C	CR/E	1639	2877
117520230	IND		INSAT-KU17(74E)	74	C	CR/C	4526	2877
117520231	IND		INSAT-KU17(83E)	83	C	CR/E	1640	2877
117520231	IND		INSAT-KU17(83E)	83	C	CR/C	4527	2877
117520232	IND		INSAT-KU17(93.5E)	93.5	C	CR/E	1641	2877
117520232	IND		INSAT-KU17(93.5E)	93.5	C	CR/C	4528	2877
118520349	IND		INSAT-KU18(62.8E)	62.8	C	CR/E	1938	2907
118520349	IND		INSAT-KU18(62.8E)	62.8	C	CR/C	4897	2907
115520126	IND		INSAT-KU77.1E	77.1	C	CR/E	1013	2817
115520126	IND		INSAT-KU77.1E	77.1	C	CR/C	3824	2817
118520266	IND		INSAT-L-MSS(48E)	48	C	CR/C	4843	2886
114500135	IND		INSAT-MET82E	82	N	PART-IIS		2797
117520130	IND		INSAT-META(74E)	74	C	CR/C	4459	2854
117520132	IND		INSAT-METB(82E)	82	C	CR/C	4460	2854
117520131	IND		INSAT-METC(83E)	83	C	CR/C	4461	2854
117520133	IND		INSAT-METD(93.5E)	93.5	C	CR/C	4462	2854
116500029	IND		INSAT-NAV(55)	55	N	PART-IIS		2834
119500107	IND		INSAT-NAV(93.5)	93.5	N	PART-IIS		2901
112520046	IND		INSAT-NAVR(120.5)	120.5	C	CR/C	3124	2894
112520047	IND		INSAT-NAVR(121.5)	121.5	C	CR/C	3125	2894
112520048	IND		INSAT-NAVR(123.5)	123.5	C	CR/C	3126	2894
112520049	IND		INSAT-NAVR(126.5)	126.5	C	CR/C	3127	2894
112520050	IND		INSAT-NAVR(127.5)	127.5	C	CR/C	3128	2894
112520051	IND		INSAT-NAVR(129.5)	129.5	C	CR/C	3129	2894
119500068	IND		INSAT-NAVR(32.5)	32.5	N	PART-IIS		2909
117500127	IND		INSAT-NAVR(83)	83	N	PART-IIS		2872
114500088	IND		INSAT-TTC(55)E	55	N	PART-IIS		2788
114500089	IND		INSAT-TTC(74)E	74	N	PART-IIS		2845
117500099	IND		INSAT-TTC(82)E	82	N	PART-IIS		2869
114500090	IND		INSAT-TTC(83)E	83	N	PART-IIS		2845
114500091	IND		INSAT-TTC(93.5)E	93.5	N	PART-IIS		2845
105500155	INS		GARUDA-2	123	N	PART-IIS		2894
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-IIS		2808
117500244	INS		INDOSTAR-110E-K	108.2	N	PART-IIS		2875
113520069	INS		INDOSTAR-118XS	118	C	CR/C	3448	2782
116520382	INS		NUSANTARA-A1-A	123	C	CR/C	4316	2862
117520437	INS		NUSANTARA-B1-E	108	C	CR/C	4595	2884

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
116520047	INS		NUSANTARA-B2-F	118	C	CR/E	1329	2852
116520047	INS		NUSANTARA-B2-F	118	C	CR/C	4191	2852
116520067	INS		NUSANTARA-B3-A	95.5	C	CR/C	4204	2856
116520068	INS		NUSANTARA-B4-A	103	C	CR/C	4205	2856
117520105	INS		NUSANTARA-B5-A	157	C	CR/C	4446	2870
116520085	INS		NUSANTARA-H1-A	116.1	C	CR/C	4050	2842
116523001	INS		NUSANTARA-H1-A_1	116.1	C	CR/F	313	2829
117520119	INS		NUSANTARA-H2-A	85.3	C	CR/C	4452	2895
117520120	INS		NUSANTARA-H3-A	159	C	CR/C	4453	2892
117520491	INS		NUSANTARA-NS1-A	113	C	CR/C	4661	2888
118520325	INS		NUSANTARA-PE1-A	146	C	CR/C	4875	2908
118520326	INS		NUSANTARA-TS1-A	108	C	CR/C	4876	2908
119520084	INS		NUSANTARA-WD1-A	119.5	C	CR/C	5005	2902
119520085	INS		NUSANTARA-WD2-A	120	C	CR/C	5006	2902
109500739	INS		PALAPA PAC-C 146E	146	N	PART-IIS		2880
108500599	INS		PALAPA PAC-KU 146E	146	N	PART-IIS		2858
114520215	INS		PALAPA PACIFIC-144E	144	C	CR/E	923	2811
114520215	INS		PALAPA PACIFIC-144E	144	C	CR/C	3729	2811
90500037	INS		PALAPA-B1	108	N	PART-IIS		2890
107500144	INS		PALAPA-B1-EC	108	N	PART-IIS		2890
90500039	INS		PALAPA-B2	113	N	PART-IIS		2258
90500001	INS		PALAPA-B3	118	N	PART-IIS		2865
111500247	INS		PALAPA-B3 TT&C	118	N	PART-IIS		2720
110500157	INS		PALAPA-B3-EC	118	N	PART-IIS		2859
102500197	INS		PALAPA-C1	113	N	PART-IIS		2790
114520142	INS		PALAPA-C1-B	113	C	CR/C	3629	2798
109500631	INS		PALAPA-C1-K	113	N	PART-IIS		2787
103500163	INS		PALAPA-C2	108	N	PART-IIS		2890
107500427	INS		PALAPA-C3	118	N	PART-IIS		2814
109500491	INS		PALAPA-C3-K	118	N	PART-IIS		2894
106500566	INS		PALAPA-C4	150.5	N	PART-IIS		2840
115500133	INS		PALAPA-C4-A	150.5	N	PART-IIS		2840
114520149	INS		PALAPA-C4-B	150.5	C	CR/C	3636	2799
117500167	INS		PALAPA-C4-K	150.5	N	PART-IIS		2896
113520094	INS		PSN-146E	146	C	CR/C	3381	2895
119500061	INS		TELKOM-108E	108	N	PART-IIS		2900
117520369	IRN		IRANDBS4-KA-G2	34	C	CR/C	4585	2868
116520002	IRN		IRANDBS4-KAFL	34	C	CR/E	1235	2845
116520002	IRN		IRANDBS4-KAFL	34	C	CR/C	4092	2845
116520169	IRN		IRANSAT-24.19E	24.19	C	CR/C	4139	2851
112520039	IRN		IRANSAT-43.5E	43.5	C	CR/C	3149	2894
118520297	IRN		IRANSAT-68E	68	C	CR/C	4860	2905
116520170	IRN		IRANSAT-70.5E	70.5	C	CR/C	4140	2851
118520299	IRN		IRANSAT-72E	72	C	CR/C	4861	2905
118520301	IRN		IRANSAT-77.5E	77.5	C	CR/C	4862	2905
118520305	IRN		IRANSAT-87E	87	C	CR/C	4864	2889
117520494	IRN		IRANSAT-B-34E	34	C	CR/C	4662	2888
117520406	IRN		IRANSAT-B-43.5E	43.5	C	CR/C	4599	2884
118520303	IRN		IRANSAT-B-56E	56	C	CR/C	4863	2905

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
117520407	IRN		IRANSAT-B-58E	58	C	CR/C	4598	2884
116520168	IRN		IRANSAT-B-61.8E	61.8	C	CR/C	4285	2860
117520412	IRN		IRANSAT-B-69.5E	69.5	C	CR/C	4603	2884
93500332	IRN		ZOHREH-2	26	N	PART-IIS		2738
99500251	ISR		AMOS 1-B	-4	N	PART-IIS		2742
110500004	ISR		AMOS 2-B	-4	N	PART-IIS		2734
112500100	ISR		AMOS 3-A	-4	N	PART-IIS		2730
114500037	ISR		AMS-4-65E	65	N	PART-IIS		2811
117520101	ISR		AMS-A10-26W	-26	C	CR/C	4444	2870
117520156	ISR		AMS-A11-39.5W	-39.5	C	CR/C	4476	2871
113520145	ISR		AMS-A3-26W	-26	C	CR/C	3403	2768
113520144	ISR		AMS-A3-33W	-33	C	CR/C	3404	2768
115520232	ISR		AMS-A8-33W	-33	C	CR/C	3930	2838
115523098	ISR		AMS-A8-33W_1	-33	C	CR/F	268	2821
118520307	ISR		AMS-B12-7W	-7	C	CR/C	4865	2905
119500178	ISR		AMS-B2-13.8E	13.8	N	PART-IIS		2909
113520183	ISR		AMS-B4-4W	-4	C	CR/C	3430	2772
115520155	ISR		AMS-B7-13.8E	13.8	C	CR/C	3851	2824
115523048	ISR		AMS-B7-13.8E_1	13.8	C	CR/F	251	2810
115520234	ISR		AMS-B8-13.8E	13.8	C	CR/C	3929	2834
115520233	ISR		AMS-B8-4W	-4	C	CR/C	3926	2834
116520245	ISR		AMS-B9-137E	137	C	CR/C	4208	2856
116523067	ISR		AMS-B9-137E_1	137	C	CR/F	374	2841
117520102	ISR		AMS-C10-23E	23	C	CR/C	4443	2870
117520157	ISR		AMS-C11-78E	78	C	CR/C	4477	2871
118520331	ISR		AMS-C12-87E	87	C	CR/C	4880	2908
113520146	ISR		AMS-C3-23E	23	C	CR/C	3398	2768
113523031	ISR		AMS-C3-23E_1	23	C	CR/F	56	2755
113520147	ISR		AMS-C3-43E	43	C	CR/C	3399	2768
113523032	ISR		AMS-C3-43E_1	43	C	CR/F	57	2755
113520148	ISR		AMS-C3-65E	65	C	CR/C	3400	2768
113523033	ISR		AMS-C3-65E_1	65	C	CR/F	58	2755
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
115520240	ISR		AMS-C8-113E	113	C	CR/C	3932	2835
115523111	ISR		AMS-C8-113E_1	113	C	CR/F	272	2821
115520235	ISR		AMS-C8-17E	17	C	CR/C	3931	2838
115523108	ISR		AMS-C8-17E_1	17	C	CR/F	269	2821
115520236	ISR		AMS-C8-43E	43	C	CR/C	3934	2838
115523109	ISR		AMS-C8-43E_1	43	C	CR/F	270	2821
115520237	ISR		AMS-C8-65E	65	C	CR/C	3927	2834
115520238	ISR		AMS-C8-67.25E	67.25	C	CR/C	3928	2834
115520239	ISR		AMS-C8-82.5E	82.5	C	CR/C	3933	2838
115523110	ISR		AMS-C8-82.5E_1	82.5	C	CR/F	271	2821
118500237	ISR		AMS-CK-17E	17	N	PART-IIS		2893
118500018	ISR		AMS-CK-4W	-4	N	PART-IIS		2884
100500188	J		BSAT-109.85	109.85	N	PART-IIS		2893
100500189	J		BSAT-110	110	N	PART-IIS		2893
107500244	J		D-STAR-1	132	N	PART-IIS		2684

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
110500022	J		D-STAR-2	136	N	PART-IIS		2684
115520243	J		DRS-90.75E	90.75	C	CR/C	4000	2839
115520244	J		DRS-92.5E	92.5	C	CR/C	4001	2839
115520245	J		DRS-95.5E	95.5	C	CR/C	4002	2839
105500223	J		DRTS-90.75E	90.75	N	PART-IIS		2874
109500917	J		ETS-8	146	N	PART-IIS		2760
116520410	J		ETS9-A	143	C	CR/C	4298	2860
116520411	J		ETS9-B	141.5	C	CR/C	4299	2860
116520412	J		ETS9-C	146	C	CR/C	4300	2860
117500079	J		HIMAWARI-140E	140.7	N	PART-IIS		2866
116500004	J		HIMAWARI-8-140E	140.7	N	PART-IIS		2866
90500066	J		JCSAT-1	150	N	PART-IIS		2510
103500133	J		JCSAT-1R	150	N	PART-IIS		2769
90500242	J		JCSAT-2	154	N	PART-IIS		2510
103500132	J		JCSAT-2R	154	N	PART-IIS		2721
103500134	J		JCSAT-3A	128	N	PART-IIS		2900
103500135	J		JCSAT-3B	124	N	PART-IIS		2843
109500029	J		JCSAT-FO-124E	124	N	PART-IIS		2666
108501222	J		JCSAT-FO-128E	128	N	PART-IIS		2904
109500028	J		JCSAT-FO-132E	132	N	PART-IIS		2720
108501219	J		JCSAT-FO-136E	136	N	PART-IIS		2899
105500535	J		JCSAT-FO-150E	150	N	PART-IIS		2678
109500011	J		JCSAT-FO-154E	154	N	PART-IIS		2671
110500148	J		JCSAT-T-127.5E	127.5	N	PART-IIS		2880
104500620	J		JMCS-1	144	N	PART-IIS		2790
113520005	J		JMCS-110E	110	C	CR/C	3327	2759
113520006	J		JMCS-144E	144	C	CR/C	3328	2759
118520003	J		JMCS-144X	144	C	CR/C	4665	2888
113520007	J		JMCS-158E	158	C	CR/C	3329	2759
105500335	J		JMCS-1R	144	N	PART-IIS		2790
107500115	J		JMCS-2	110	N	PART-IIS		2896
105500336	J		JMCS-3A	158	N	PART-IIS		2809
105500227	J		JMCS-3B	162	N	PART-IIS		2782
118520333	J		JMCS-5A	158	C	CR/C	4881	2908
118520334	J		JMCS-5D	110	C	CR/C	4882	2908
113500084	J		JMCS-93E	93	N	PART-IIS		2897
119500179	J		JMCS-93E-R	93	N	PART-IIS		2910
113500140	J		JMCS-B4-X	162	N	PART-IIS		2766
108501224	J		JMCS-C2-X	144	N	PART-IIS		2693
113500139	J		JMCS-D2-X	110	N	PART-IIS		2766
106500136	J		MTSAT-B-145E	145	N	PART-IIS		2854
101500489	J		N-SAT-110	110	N	PART-IIS		2853
108501100	J		N-SAT-110E	110	N	PART-IIS		2853
112500026	J		N-SAT-124E	124	N	PART-IIS		2792
106500574	J		N-SAT-127W	-127	N	PART-IIS		2679
101500531	J		N-SAT-128	128	N	PART-IIS		2616
108500022	J		N-SAT-143.72E	143.72	N	PART-IIS		2765
97500365	J		N-SAT-146	144	N	PART-IIS		2777
115500052	J		N-SAT-154E	154	N	PART-IIS		2832

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112500244	J		N-SAT-90.75E	90.75	N	PART-IIS		2874
118500113	J		N-SAT-Y12-110E	110	N	PART-IIS		2886
112520163	J		N-SAT-Y12-144E	144	C	CR/C	3259	2910
118500071	J		N-SAT-Y12-150E	150	N	PART-IIS		2902
113520025	J		N-SAT-Y12-173W	-173	C	CR/C	3376	2766
115520025	J		N-SAT-Y13-110W	-110	C	CR/C	3752	2815
114520017	J		N-SAT-Y13-150.5E	150.5	C	CR/C	3543	2790
115520026	J		N-SAT-Y13-26W	-26	C	CR/C	3751	2815
114520182	J		N-SAT-Y13-82E	82	C	CR/C	3656	2802
115520249	J		N-SAT-Y15-110E	110	C	CR/C	3940	2835
115520250	J		N-SAT-Y15-124E	124	C	CR/C	3942	2835
115520256	J		N-SAT-Y15-127W	-127	C	CR/C	3943	2835
115520251	J		N-SAT-Y15-128E	128	C	CR/C	3936	2835
115520258	J		N-SAT-Y15-132E	132	C	CR/C	3937	2835
115520252	J		N-SAT-Y15-136E	136	C	CR/C	3938	2835
115520257	J		N-SAT-Y15-144E	144	C	CR/C	3944	2835
115520259	J		N-SAT-Y15-150E	150	C	CR/C	3945	2835
115520253	J		N-SAT-Y15-154E	154	C	CR/C	3946	2835
115520254	J		N-SAT-Y15-158E	158	C	CR/C	3947	2835
115520255	J		N-SAT-Y15-162E	162	C	CR/C	3941	2835
115520247	J		N-SAT-Y15-82E	82	C	CR/C	3935	2835
115520248	J		N-SAT-Y15-93E	93	C	CR/C	3939	2835
117520029	J		N-SAT-Y17-50E	50	C	CR/C	4392	2866
117520030	J		N-SAT-Y17-85.15E	85.15	C	CR/C	4393	2866
117520031	J		N-SAT-Y17-88E	88	C	CR/C	4394	2866
117520032	J		N-SAT-Y17-90.75E	90.75	C	CR/C	4395	2866
117520033	J		N-SAT-Y17-98W	-98	C	CR/E	1532	2865
117520033	J		N-SAT-Y17-98W	-98	C	CR/C	4396	2865
118520034	J		N-SAT-Y18-127W	-127	C	CR/C	4677	2888
118520026	J		N-SAT-Y18-128E	128	C	CR/C	4671	2888
118520027	J		N-SAT-Y18-132E	132	C	CR/C	4672	2888
118520028	J		N-SAT-Y18-136E	136	C	CR/C	4673	2888
118520033	J		N-SAT-Y18-143W	-143	C	CR/C	4678	2888
118520029	J		N-SAT-Y18-144E	144	C	CR/C	4674	2888
118520030	J		N-SAT-Y18-150E	150	C	CR/C	4675	2888
118520031	J		N-SAT-Y18-162E	162	C	CR/C	4676	2888
118520032	J		N-SAT-Y18-173W	-173	C	CR/C	4679	2888
118520024	J		N-SAT-Y18-82E	82	C	CR/C	4669	2888
118520025	J		N-SAT-Y18-93E	93	C	CR/C	4670	2888
119520074	J		N-SAT-Y19-152E	152	C	CR/C	4996	2902
119520075	J		N-SAT-Y19-156E	156	C	CR/C	4997	2902
119520107	J		N-SAT-Y19-72E	72	C	CR/C	5020	2903
114500016	J		N-SAT2-162E	162	N	PART-IIS		2896
95500133	J		N-STAR-A	132	N	PART-IIS		2690
109500425	J		N-STAR-A2	132	N	PART-IIS		2691
95500571	J		N-STAR-B	136	N	PART-IIS		2899
105500530	J		N-STAR-B2	136	N	PART-IIS		2899
110500062	J		N-STAR-E	136	N	PART-IIS		2692
110500063	J		N-STAR-F	132	N	PART-IIS		2692

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115520051	J		NBSAT-21AX	110	C	CR/C	3833	2820
115523045	J		NBSAT-21AX_1	110	C	CR/F	248	2807
115520052	J		NBSAT-21BX	109.85	C	CR/C	3834	2820
115523046	J		NBSAT-21BX_1	109.85	C	CR/F	249	2807
115520053	J		NBSAT-21CX	109.65	C	CR/C	3835	2820
115523047	J		NBSAT-21CX_1	109.65	C	CR/F	250	2807
118520075	J		QZSS-GS-A1	90.5	C	CR/C	4715	2892
118520076	J		QZSS-GS-A3	123	C	CR/C	4716	2892
118520077	J		QZSS-GS-A4	127	C	CR/C	4717	2895
118520078	J		QZSS-GS-A5	137	C	CR/C	4718	2895
118520079	J		QZSS-GS-A8	168	C	CR/C	4719	2895
112520495	J		QZSS-GS1	90.5	C	CR/C	3317	2907
112520496	J		QZSS-GS3	123	C	CR/C	3318	2907
117500337	J		QZSS-GS4	127	N	PART-IIS		2878
112520498	J		QZSS-GS5	137	C	CR/C	3320	2907
112520499	J		QZSS-GS8	168	C	CR/C	3321	2907
115520068	J		S-SAT-135E	135	C	CR/C	3785	2816
115520069	J		S-SAT-137E	137	C	CR/C	3786	2816
115520070	J		S-SAT-146.5E	146.5	C	CR/C	3787	2816
101500530	J		SJC-1	124	N	PART-IIS		2798
90500373	J		SUPERBIRD-A	158	N	PART-IIS		2802
104500273	J		SUPERBIRD-A2	158	N	PART-IIS		2823
106500017	J		SUPERBIRD-A2-R	158	N	PART-IIS		2812
90500376	J		SUPERBIRD-B	162	N	PART-IIS		2896
103500226	J		SUPERBIRD-B2	162	N	PART-IIS		2896
103500169	J		SUPERBIRD-C	144	N	PART-IIS		2777
109500410	J		SUPERBIRD-C2	144	N	PART-IIS		2708
108501268	J		TAIKI-109.65	109.65	N	PART-IIS		2893
108501175	J		WINDS-A	143	N	PART-IIS		2655
118520083	JOR		JORSAT-11E	11	C	CR/C	4680	2888
110500356	KAZ		KAZSAT1	58.5	N	PART-IIS		2857
113520125	KAZ		KAZSAT10R	44	C	CR/E	580	2765
113520125	KAZ		KAZSAT10R	44	C	CR/C	3393	2765
114520128	KAZ		KAZSAT12	73	C	CR/C	3637	2799
114523026	KAZ		KAZSAT12_1	73	C	CR/F	155	2785
119520052	KAZ		KAZSAT1A	58.5	C	CR/C	4971	2898
111500122	KAZ		KAZSAT1M	58.5	N	PART-IIS		2857
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-IIS		2854
117520166	KAZ		KAZSAT2A	86.5	C	CR/C	4483	2895
111500125	KAZ		KAZSAT2M	86.5	N	PART-IIS		2851
114520072	KAZ		KAZSAT7S	77.5	C	CR/C	3588	2792
114523021	KAZ		KAZSAT7S_1	77.5	C	CR/F	134	2778
110500112	KOR		COMS-128.2E	128.2	N	PART-IIS		2889
115520089	KOR		GEO-KOMPSAT-2-128.2E	128.2	C	CR/E	990	2815
115520089	KOR		GEO-KOMPSAT-2-128.2E	128.2	C	CR/C	3802	2815
117500287	KOR		GK2-128.2E	128.2	N	PART-IIS		2878
111520370	KOR		HANSAT-113E	113	C	CR/C	3007	2882

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
111520371	KOR		HANSAT-116E	116	C	CR/C	3008	2882
111520372	KOR		HANSAT-128.2E	128.2	C	CR/C	3009	2882
108500797	KOR		INFOSAT-B	113	N	PART-IIS		2689
99500246	KOR		INFOSAT-C	116	N	PART-IIS		2857
95500170	KOR		KOREASAT-1	116	N	PART-IIS		2795
113520194	KOR		KOREASAT-103.2E-MT2	103.2	C	CR/C	3436	2774
106500308	KOR		KOREASAT-113E	113	N	PART-IIS		2661
118500282	KOR		KOREASAT-113K	113	N	PART-IIS		2898
109500906	KOR		KOREASAT-113X	113	N	PART-IIS		2735
113520051	KOR		KOREASAT-114.5K	114.5	C	CR/C	3361	2761
114520131	KOR		KOREASAT-116	116	C	CR/C	3624	2795
119500180	KOR		KOREASAT-116.0E	116	N	PART-IIS		2907
116520403	KOR		KOREASAT-116A	116	C	CR/C	4330	2864
111520382	KOR		KOREASAT-116K	116	C	CR/C	3023	2870
118520087	KOR		KOREASAT-128.2E	128.2	C	CR/C	4726	2895
95500171	KOR		KOREASAT-2	113	N	PART-IIS		2803
118520263	KOR		KOREASAT-93E-MT2	93	C	CR/C	4842	2906
115520212	KOR		KOREASAT-97E-MT2	97	C	CR/C	3900	2830
117520012	KOR		KTSAT-113E	113	C	CR/C	4363	2866
117520011	KOR		KTSAT-114.5E	114.5	C	CR/C	4364	2866
117520010	KOR		KTSAT-116E	116	C	CR/C	4365	2866
114520093	KOR		KTSAT-11E	11	C	CR/C	3603	2793
114520092	KOR		KTSAT-1E	1	C	CR/C	3602	2793
114520091	KOR		KTSAT-36W	-36	C	CR/C	3605	2793
114520094	KOR		KTSAT-41E	41	C	CR/C	3604	2793
117520013	KOR		KTSAT-97E	97	C	CR/C	4362	2866
118500050	LAO		LAOSAT-128.5E	128.5	N	PART-IIS		2887
113520092	LAO		LAOSAT-128.5E-A	128.5	C	CR/E	558	2762
113520092	LAO		LAOSAT-128.5E-A	128.5	C	CR/C	3377	2762
114520001	LAO		LSTAR-126E	126	C	CR/C	3532	2787
90500682	LUX		GDL-6	19.2	N	PART-IIS		2763
101500585	LUX		GDL-7	19.2	N	PART-IIS		2664
107500361	LUX		LUX-24.2E	24.2	N	PART-IIS		2633
107500150	LUX		LUX-28.2E	28.2	N	PART-IIS		2633
118520276	LUX		LUX-G10-108.2E	108.2	C	CR/E	1885	2898
118520276	LUX		LUX-G10-108.2E	108.2	C	CR/C	4845	2898
115520226	LUX		LUX-G10-26	148	C	CR/C	3913	2831
115523063	LUX		LUX-G10-26_1	148	C	CR/F	266	2816
115520320	LUX		LUX-G10-37	-135	C	CR/C	4018	2840
116520022	LUX		LUX-G10-37-A	-135	C	CR/C	4147	2852
115520317	LUX		LUX-G10-5	19.2	C	CR/C	4015	2840
115520203	LUX		LUX-G10-53	-37.5	C	CR/C	3886	2829
115523103	LUX		LUX-G10-5_1	19.2	C	CR/F	306	2825
115520318	LUX		LUX-G10-7	23.5	C	CR/C	4016	2840
115523104	LUX		LUX-G10-7_1	23.5	C	CR/F	307	2825
115520319	LUX		LUX-G10-8	28.2	C	CR/C	4017	2840
115523105	LUX		LUX-G10-8_1	28.2	C	CR/F	308	2825
116520162	LUX		LUX-G11-14	52.2	C	CR/C	4120	2866
116523037	LUX		LUX-G11-14_1	52.2	C	CR/F	347	2833

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
116520158	LUX		LUX-G11-2	5	C	CR/C	4116	2866
116523033	LUX		LUX-G11-2_1	5	C	CR/F	343	2833
116520021	LUX		LUX-G11-45	-87	C	CR/C	4121	2859
116520013	LUX		LUX-G11-49	-67	C	CR/C	4122	2849
117520093	LUX		LUX-G11-49-1	-67	C	CR/C	4431	2869
116520159	LUX		LUX-G11-5	19.2	C	CR/C	4117	2866
116523034	LUX		LUX-G11-5_1	19.2	C	CR/F	344	2833
116520160	LUX		LUX-G11-7	23.5	C	CR/C	4118	2866
116523035	LUX		LUX-G11-7_1	23.5	C	CR/F	345	2833
116520161	LUX		LUX-G11-8	28.2	C	CR/C	4119	2866
116523036	LUX		LUX-G11-8_1	28.2	C	CR/F	346	2833
117520472	LUX		LUX-G12-1	1	C	CR/C	4640	2902
118520350	LUX		LUX-G12-45	-87	C	CR/C	4898	2909
118520351	LUX		LUX-G12-7	23.5	C	CR/C	4899	2909
110500151	LUX		LUX-G3-19.2E	19.2	N	PART-IIS		2820
113500086	LUX		LUX-G3-2	5	N	PART-IIS		2853
110500152	LUX		LUX-G3-24.2E	23.5	N	PART-IIS		2882
111500238	LUX		LUX-G3-28.2E	28.2	N	PART-IIS		2733
111500235	LUX		LUX-G3-4	31	N	PART-IIS		2738
114500038	LUX		LUX-G5-25	108.2	N	PART-IIS		2838
117500052	LUX		LUX-G6-12	43.5	N	PART-IIS		2869
117500155	LUX		LUX-G6-2-E	5	N	PART-IIS		2897
114500150	LUX		LUX-G6-5	19.2	N	PART-IIS		2872
117500258	LUX		LUX-G6-51	-40.5	N	PART-IIS		2875
117500173	LUX		LUX-G6-6	21.5	N	PART-IIS		2894
108520157	LUX		LUX-G6-7	23.5	C	CR/C	2241	2806
116500087	LUX		LUX-G6-8	28.2	N	PART-IIS		2883
114500153	LUX		LUX-G6-9	31.5	N	PART-IIS		2881
117520034	LUX		LUX-G7 105W	-105	C	CR/C	4370	2866
118500258	LUX		LUX-G7-14	55	N	PART-IIS		2893
117500195	LUX		LUX-G7-20	108.2	N	PART-IIS		2873
119500054	LUX		LUX-G7-43	-87	N	PART-IIS		2902
117500174	LUX		LUX-G7-6	21.5	N	PART-IIS		2894
116500178	LUX		LUX-G7-7	23.5	N	PART-IIS		2900
111520428	LUX		LUX-G7-9-E2	31.5	C	CR/C	3062	2733
117500285	LUX		LUX-G8-36	-135	N	PART-IIS		2908
111520394	LUX		LUX-G8-44	-83	C	CR/C	3033	2888
117500267	LUX		LUX-G8-47	-67	N	PART-IIS		2888
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
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
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

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
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
113520308	LUX		LUX-G9-30	176	C	CR/C	3511	2782
113523096	LUX		LUX-G9-30_1	176	C	CR/F	112	2768
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	2818
113520310	LUX		LUX-G9-42	-105	C	CR/C	3513	2782
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
113520222	LUX		LUX-G9-6	21.5	C	CR/C	3455	2777
114520009	LUX		LUX-G9-60	137	C	CR/C	3618	2796
114523022	LUX		LUX-G9-60_1	137	C	CR/F	145	2781
113523077	LUX		LUX-G9-6_1	21.5	C	CR/F	75	2763
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
115520331	MCO		MONASAT-52E	52	C	CR/C	4021	2840
116520148	MCO		MONASAT-52EA	52	C	CR/C	4126	2909
117520167	MCO		MONASAT-52EB	52	C	CR/C	4484	2871
115523112	MCO		MONASAT-52E_1	52	C	CR/F	310	2825
112520405	MEX		MEXSAT 109.2 L	-109.2	C	CR/C	3232	2750
117520002	MEX		MEXSAT 109.2 LR	-109.2	C	CR/C	4349	2864
115520193	MEX		MEXSAT 113 L	-113	C	CR/C	3876	2827
113500015	MEX		MEXSAT 114.9 KU EXT	-114.9	N	PART-IIS		2745
115520194	MEX		MEXSAT 116.8 L	-116.8	C	CR/C	3877	2827
116520174	MEX		MEXSAT-109.2-L-7M	-109.2	C	CR/C	4268	2859
116520175	MEX		MEXSAT-113-L-7M	-113	C	CR/C	4258	2859
110500271	MEX		MEXSAT-114.9 C-KU	-114.9	N	PART-IIS		2752
116520176	MEX		MEXSAT-116.8-L-7M	-116.8	C	CR/C	4259	2859
114500093	MEX		MEXSAT113 L-CEXT-X	-113	N	PART-IIS		2872
113500014	MEX		MEXSAT114.9 L-CEXT-X	-114.9	N	PART-IIS		2745
116500168	MEX		QUETZSAT-77 TTC	-77	N	PART-IIS		2841
109500836	MEX		SATMEX 7	-113	N	PART-IIS		2882
111500124	MEX		SATMEX 8	-116.8	N	PART-IIS		2717
101500478	MEX		SOLIDARIDAD 2M	-113	N	PART-IIS		2846
99500015	MEX		SOLIDARIDAD 2MA	-113	N	PART-IIS		2846
95500480	MLA		MEASAT-1	91.5	N	PART-IIS		2803
104500299	MLA		MEASAT-148E	148	N	PART-IIS		2884
116520303	MLA		MEASAT-1B	91.5	C	CR/C	4225	2858
116523080	MLA		MEASAT-1B_1	91.5	C	CR/F	384	2843
119520055	MLA		MEASAT-1C	91.5	C	CR/C	4974	2900
111500193	MLA		MEASAT-1R	91.5	N	PART-IIS		2713
95500106	MLA		MEASAT-2	148	N	PART-IIS		2884

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116500055	MLA		MEASAT-2A	148	N	PART-IIS		2906
114520015	MLA		MEASAT-2B	148	C	CR/C	3541	2790
114523003	MLA		MEASAT-2B_1	148	C	CR/F	124	2775
116520304	MLA		MEASAT-2C	148	C	CR/C	4226	2858
116523081	MLA		MEASAT-2C_1	148	C	CR/F	386	2843
119520056	MLA		MEASAT-2D	148	C	CR/C	4975	2900
111500096	MLA		MEASAT-2R	148	N	PART-IIS		2731
116520305	MLA		MEASAT-3B	97	C	CR/C	4227	2858
116523082	MLA		MEASAT-3B_1	97	C	CR/F	385	2843
107500633	MLA		MEASAT-46E	46	N	PART-IIS		2842
114500082	MLA		MEASAT-46E-R	46	N	PART-IIS		2885
116520306	MLA		MEASAT-78.5E-C	78.5	C	CR/C	4233	2858
116523083	MLA		MEASAT-78.5E-C_1	78.5	C	CR/F	390	2843
116520307	MLA		MEASAT-87E-B	87	C	CR/C	4234	2858
116523084	MLA		MEASAT-87E-B_1	87	C	CR/F	387	2843
107500241	MLA		MEASAT-91.5E	91.5	N	PART-IIS		2711
104500467	MLA		MEASAT-AK 91.5	91.5	N	PART-IIS		2693
105500148	MLA		MEASAT-IC 91.5	91.5	N	PART-IIS		2693
117520072	MLA		MEASAT-LA1B	-109.2	C	CR/C	4414	2868
116520300	MLA		MEASAT-ROUTE-1C	114.5	C	CR/C	4228	2858
116523077	MLA		MEASAT-ROUTE-1C_1	114.5	C	CR/F	391	2843
117520073	MLA		MEASAT-ROUTE-2D	55.5	C	CR/C	4402	2866
116520301	MLA		MEASAT-ROUTE-3C	-75.5	C	CR/C	4229	2858
116523078	MLA		MEASAT-ROUTE-3C_1	-75.5	C	CR/F	392	2843
117520074	MLA		MEASAT-ROUTE-4C	-91	C	CR/C	4403	2866
116520302	MLA		MEASAT-ROUTE-5C	-41.2	C	CR/C	4230	2858
116523079	MLA		MEASAT-ROUTE-5C_1	-41.2	C	CR/F	393	2843
117520075	MLA		MEASAT-ROUTE-6	83	C	CR/C	4391	2866
119500055	MLA		MEASAT-SA1A	5	N	PART-IIS		2898
114520123	MLA		MEASAT-SA2A	13.4	C	CR/C	3621	2795
114523023	MLA		MEASAT-SA2A_1	13.4	C	CR/F	146	2782
116520308	MLA		MEASAT-SA2B	13.4	C	CR/C	4231	2858
116523085	MLA		MEASAT-SA2B_1	13.4	C	CR/F	388	2843
117520076	MLA		MEASAT-SA3C	-10.5	C	CR/C	4390	2866
115520071	MLA		MEASAT-SA4B	46	C	CR/C	3788	2818
115523022	MLA		MEASAT-SA4B_1	46	C	CR/F	220	2803
116520309	MLA		MEASAT-SA4C	46	C	CR/C	4232	2858
116523086	MLA		MEASAT-SA4C_1	46	C	CR/F	389	2843
116520439	MLD		MVSAT-119.4E	119.5	C	CR/C	4321	2862
117520489	MLD		MVSAT-78.5E	78.5	C	CR/C	4658	2888
113520284	MNG		SANSAR-2	113.6	C	CR/C	3502	2782
113520268	NCG		NICASAT-1	-84.4	C	CR/C	3470	2780
115520163	NCG		NICASAT-1A	-84.4	C	CR/E	1043	2823
115520163	NCG		NICASAT-1A	-84.4	C	CR/C	3863	2823
116520334	NCG		NICASAT-1B	-84.4	C	CR/C	4289	2860
117520015	NCG		NICASAT-1L	-84.4	C	CR/C	4367	2866
117520334	NCG		NICASAT-2A	-166.2	C	CR/C	4577	2884
117500295	NIG		NIGCOMSAT-1R	42.5	N	PART-IIS		2875
117520468	NIG		NIGCOMSAT-2B	-16	C	CR/C	4635	2902

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
117520469	NIG		NIGCOMSAT-2D	-9.5	C	CR/C	4636	2902
117500108	NOR		BIFROST-0.8W-2010	-0.8	N	PART-IIS		2880
117500270	NOR		BIFROST-0.8W-2010-KA	-0.8	N	PART-IIS		2885
116520166	NOR		BIFROST-0.8W-2016	-0.8	C	CR/C	4115	2849
116523043	NOR		BIFROST-0.8W-2016_1	-0.8	C	CR/F	342	2833
113520022	NOR		DUB DUB-5-18W	-18	C	CR/C	3326	2759
116520214	NOR		SE-6-108.5E	108.5	C	CR/E	1309	2852
116520214	NOR		SE-6-108.5E	108.5	C	CR/C	4171	2852
115520168	NOR		SE-6-142W	-142	C	CR/E	1040	2823
115520168	NOR		SE-6-142W	-142	C	CR/C	3860	2823
115520166	NOR		SE-6-143.5E	143.5	C	CR/E	1038	2823
115520166	NOR		SE-6-143.5E	143.5	C	CR/C	3858	2823
116520215	NOR		SE-6-147E	147	C	CR/E	1310	2852
116520215	NOR		SE-6-147E	147	C	CR/C	4172	2852
116520209	NOR		SE-6-147W	-147	C	CR/E	1313	2852
116520209	NOR		SE-6-147W	-147	C	CR/C	4175	2852
115520160	NOR		SE-6-15.5W	-15.5	C	CR/E	1035	2822
115520160	NOR		SE-6-15.5W	-15.5	C	CR/C	3855	2822
116520207	NOR		SE-6-17.5W	-17.5	C	CR/E	1311	2852
116520207	NOR		SE-6-17.5W	-17.5	C	CR/C	4173	2852
116520210	NOR		SE-6-175W	-175	C	CR/E	1314	2852
116520210	NOR		SE-6-175W	-175	C	CR/C	4176	2852
115520167	NOR		SE-6-178E	178	C	CR/E	1039	2823
115520167	NOR		SE-6-178E	178	C	CR/C	3859	2823
116520211	NOR		SE-6-21.5E	21.5	C	CR/E	1306	2852
116520211	NOR		SE-6-21.5E	21.5	C	CR/C	4168	2852
115520157	NOR		SE-6-25E	25	C	CR/E	1033	2822
115520157	NOR		SE-6-25E	25	C	CR/C	3853	2822
115520158	NOR		SE-6-54W	-54	C	CR/E	1036	2822
115520158	NOR		SE-6-54W	-54	C	CR/C	3856	2822
116520208	NOR		SE-6-57W	-57	C	CR/E	1312	2852
116520208	NOR		SE-6-57W	-57	C	CR/C	4174	2852
116520212	NOR		SE-6-58E	58	C	CR/E	1307	2852
116520212	NOR		SE-6-58E	58	C	CR/C	4169	2852
115520159	NOR		SE-6-64E	64	C	CR/E	1034	2822
115520159	NOR		SE-6-64E	64	C	CR/C	3854	2822
116520213	NOR		SE-6-86E	86	C	CR/E	1308	2852
116520213	NOR		SE-6-86E	86	C	CR/C	4170	2852
115520161	NOR		SE-6-98W	-98	C	CR/E	1037	2822
115520161	NOR		SE-6-98W	-98	C	CR/C	3857	2822
119520061	NOR		SE-8-113W	-113	C	CR/C	4977	2900
119520060	NOR		SE-8-131W	-131	C	CR/C	4978	2900
119520065	NOR		SE-8-136E	136	C	CR/C	4981	2900
119520066	NOR		SE-8-138E	138	C	CR/C	4982	2900
119520067	NOR		SE-8-148E	148	C	CR/C	4983	2900
119520063	NOR		SE-8-148W	-148	C	CR/C	4979	2900
119520068	NOR		SE-8-159E	159	C	CR/C	4984	2900
119520059	NOR		SE-8-160W	-160	C	CR/C	4980	2906
119520069	NOR		SE-8-164E	164	C	CR/C	4985	2901

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119520064	NOR		SE-8-41W	-41	C	CR/C	4986	2901
119520062	NOR		SE-8-47W	-47	C	CR/C	4976	2900
114520049	NOR		SE-KA-107E	107	C	CR/C	3564	2791
116520100	NOR		SE-KA-117.5E	117.5	C	CR/C	4066	2842
115520129	NOR		SE-KA-145W	-145	C	CR/C	3820	2819
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	2819
118500186	NOR		SE-KA-180E	180	N	PART-IIS		2890
113520269	NOR		SE-KA-18W	-18	C	CR/C	3471	2780
113520024	NOR		SE-KA-28W	-28	C	CR/C	3342	2760
118500183	NOR		SE-KA-55W	-55	N	PART-IIS		2892
119500047	NOR		SE-KA-56.5E	56.5	N	PART-IIS		2899
118500184	NOR		SE-KA-63E	63	N	PART-IIS		2909
114520048	NOR		SE-KA-72W	-72	C	CR/C	3563	2791
118500185	NOR		SE-KA-83.5E	83.5	N	PART-IIS		2893
119520182	NPL		SAGARMATHASAT-2	123.3	C	CR/C	5087	2907
118520147	OMA		OMANSAT-51E	51	C	CR/E	1832	2892
118520147	OMA		OMANSAT-51E	51	C	CR/C	4776	2892
118520148	OMA		OMANSAT-54E	54	C	CR/E	1833	2892
118520148	OMA		OMANSAT-54E	54	C	CR/C	4777	2892
118520149	OMA		OMANSAT-67E	67	C	CR/E	1834	2892
118520149	OMA		OMANSAT-67E	67	C	CR/C	4778	2892
118520150	OMA		OMANSAT-73.5E	73.5	C	CR/E	1835	2892
118520150	OMA		OMANSAT-73.5E	73.5	C	CR/C	4779	2892
106500372	PAK		PAKSAT-1	38	N	PART-IIS		2827
110500363	PAK		PAKSAT-1R	38	N	PART-IIS		2891
111500072	PAK		PAKSAT-1R1	38	N	PART-IIS		2887
113520316	PAK		PAKSAT-MM1-38.2E	38.2	C	CR/C	3530	2787
117520098	PAK		PAKSAT-MM1-38.2E-KA	38.2	C	CR/C	4441	2908
113523094	PAK		PAKSAT-MM1-38.2E_1	38.2	C	CR/F	120	2772
117500222	PNG		BLUE1	-95	N	PART-IIS		2876
115520329	PNG		MENASAT-2G	8	C	CR/C	4020	2840
116500091	PNG		NEW DAWN 21	60	N	PART-IIS		2865
116500100	PNG		NEW DAWN 22	62	N	PART-IIS		2892
114500129	PNG		NEW DAWN 23	64	N	PART-IIS		2860
111520064	PNG		NEW DAWN 27	68.5	C	CR/C	2894	2870
117500301	PNG		NEW DAWN 34	85	N	PART-IIS		2885
117500330	PNG		NEW DAWN 35	-50	N	PART-IIS		2881
119520134	PNG		NEW DAWN 35-1	-50	C	CR/C	5040	2904
114520018	PNG		NEW DAWN 40	157	C	CR/C	3544	2790
114523004	PNG		NEW DAWN 40_1	157	C	CR/F	125	2776
114520118	PNG		NEW DAWN 43	169	C	CR/C	3614	2794
115520077	PNG		NEW DAWN 44	60	C	CR/C	3794	2818
115523023	PNG		NEW DAWN 44_1	60	C	CR/F	225	2803
115520054	PNG		NEW DAWN 45	62	C	CR/C	3775	2816
115523012	PNG		NEW DAWN 45_1	62	C	CR/F	216	2801
115520055	PNG		NEW DAWN 46	64	C	CR/C	3776	2816
115523013	PNG		NEW DAWN 46_1	64	C	CR/F	214	2801

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115520078	PNG		NEW DAWN 47	157	C	CR/C	3795	2818
115523024	PNG		NEW DAWN 47_1	157	C	CR/F	226	2803
115520079	PNG		NEW DAWN 48	169	C	CR/C	3796	2818
115523027	PNG		NEW DAWN 48_1	169	C	CR/F	227	2803
115520066	PNG		NEW DAWN 49	33	C	CR/C	3783	2816
115523019	PNG		NEW DAWN 49_1	33	C	CR/F	218	2802
115520111	PNG		NYBSS	105	C	CR/C	3901	2830
116500320	PNG		PACIFISAT C/KU-2	159	N	PART-IIS		2883
119500140	PNG		PACIFISAT KA-2 159E	159	N	PART-IIS		2906
116500037	PNG		PACIFISAT KA-75E	75	N	PART-IIS		2907
116500036	PNG		PACIFISAT-1	75	N	PART-IIS		2883
115520019	PNG		PACIFISAT-116.1E	116.1	C	CR/C	3746	2840
119520146	PNG		PACIFISAT-116.1E-2	116.1	C	CR/C	5050	2905
117520436	PNG		PACIFISAT-159E	159	C	CR/C	4607	2884
113520306	PNG		PACIFISAT-16W	-16	C	CR/C	3509	2782
114520130	PNG		PACIFISAT-174.1E	174.1	C	CR/C	3625	2796
115520072	PNG		PACIFISAT-39W	-39	C	CR/E	1068	2828
115520072	PNG		PACIFISAT-39W	-39	C	CR/C	3791	2828
115523020	PNG		PACIFISAT-39W_1	-39	C	CR/F	223	2803
115520197	PNG		PACIFISAT-3W	-3	C	CR/C	3888	2829
116500115	PNG		PACIFISAT-5	61	N	PART-IIS		2906
115520142	PNG		PACIFISAT-53W	-53	C	CR/C	3847	2824
110520057	PNG		PACIFISAT-7	65	C	CR/C	2650	2853
115520182	PNG		PACIFISAT-78E	78	C	CR/C	3865	2827
118500073	PNG		PACIFISAT-8	85.3	N	PART-IIS		2885
117520204	PNG		PACIFISAT-85.3E	85.3	C	CR/C	4511	2873
115520144	PNG		PACIFISAT-88W	-88	C	CR/C	3848	2824
115500012	PNG		PACIFISAT-9	116.1	N	PART-IIS		2904
115520143	PNG		PACIFISAT-92W	-92	C	CR/C	3849	2824
114520010	PNG		PACIFISAT-S-63E	63	C	CR/E	725	2773
114520010	PNG		PACIFISAT-S-63E	63	C	CR/C	3533	2773
113520170	PNG		PACIFISAT-S-75E	75	C	CR/E	970	2813
113520170	PNG		PACIFISAT-S-75E	75	C	CR/C	3420	2813
115520181	PNG		PACIFISAT1-176.1E	176.1	C	CR/C	3866	2827
107500102	PNG		PACSTAR-L4	-121	N	PART-IIS		2680
113520165	PNG		RAGGIANA-18	-117	C	CR/C	3415	2896
118500069	PNG		RAGGIANA-2	-65	N	PART-IIS		2890
115520180	PNG		RAGGIANA-21	119.5	C	CR/C	3869	2847
116523021	PNG		RAGGIANA-21_1	119.5	C	CR/F	341	2832
115520094	PNG		RAGGIANA-25	55	C	CR/C	3815	2826
115523032	PNG		RAGGIANA-25_1	55	C	CR/F	238	2804
115520095	PNG		RAGGIANA-28	11	C	CR/C	3816	2826
115523033	PNG		RAGGIANA-28_1	11	C	CR/F	239	2804
115520096	PNG		RAGGIANA-31	-59	C	CR/C	3812	2818
115523034	PNG		RAGGIANA-31_1	-59	C	CR/F	235	2804
115520097	PNG		RAGGIANA-33	-80	C	CR/C	3813	2818
115523035	PNG		RAGGIANA-33_1	-80	C	CR/F	236	2804
115520098	PNG		RAGGIANA-34	-87	C	CR/C	3814	2818
115523036	PNG		RAGGIANA-34_1	-87	C	CR/F	237	2804

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
119500125	PNG		RAGGIANA-5	-97	N	PART-IIS		2902
117500117	QAT		QATARSAT-6	25.5	N	PART-IIS		2868
114520112	QAT		QATARSAT-AMATEUR	26	C	CR/C	3620	2782
118520336	QAT		QATARSAT-AMATEUR-2	26	C	CR/C	4884	2892
115520137	QAT		QATARSAT-G3-19	73.5	C	CR/C	3830	2820
115523040	QAT		QATARSAT-G3-19_1	73.5	C	CR/F	243	2807
115520138	QAT		QATARSAT-G3-20	77.5	C	CR/C	3831	2820
115523041	QAT		QATARSAT-G3-20_1	77.5	C	CR/F	244	2807
115520139	QAT		QATARSAT-G3-24	99	C	CR/C	3832	2820
115523042	QAT		QATARSAT-G3-24_1	99	C	CR/F	245	2807
116520141	QAT		QATARSAT-G4-0.9E	0.9	C	CR/C	4095	2847
116523022	QAT		QATARSAT-G4-0.9E_1	0.9	C	CR/F	331	2832
116520145	QAT		QATARSAT-G4-14.5E	14.5	C	CR/C	4096	2849
116523031	QAT		QATARSAT-G4-14.5E_1	14.5	C	CR/F	332	2833
116520136	QAT		QATARSAT-G4-19.7E	19.7	C	CR/C	4097	2847
116523026	QAT		QATARSAT-G4-19.7E_1	19.7	C	CR/F	333	2832
116520142	QAT		QATARSAT-G4-20E	20	C	CR/C	4098	2847
116523023	QAT		QATARSAT-G4-20E_1	20	C	CR/F	334	2832
116520137	QAT		QATARSAT-G4-23.3E	23.3	C	CR/C	4099	2847
116523027	QAT		QATARSAT-G4-23.3E_1	23.3	C	CR/F	335	2832
116520138	QAT		QATARSAT-G4-25.9E	25.9	C	CR/C	4100	2847
116523028	QAT		QATARSAT-G4-25.9E_1	25.9	C	CR/F	336	2832
116520333	QAT		QATARSAT-G4-26W	-26	C	CR/C	4237	2858
116523087	QAT		QATARSAT-G4-26W_1	-26	C	CR/F	394	2843
116520139	QAT		QATARSAT-G4-28E	28	C	CR/C	4101	2847
116523029	QAT		QATARSAT-G4-28E_1	28	C	CR/F	337	2832
116520140	QAT		QATARSAT-G4-30.7E	30.7	C	CR/C	4102	2847
116523030	QAT		QATARSAT-G4-30.7E_1	30.7	C	CR/F	338	2832
116520143	QAT		QATARSAT-G4-73.5E	73.5	C	CR/C	4103	2847
116523024	QAT		QATARSAT-G4-73.5E_1	73.5	C	CR/F	339	2832
116520144	QAT		QATARSAT-G4-77.5E	77.5	C	CR/C	4104	2847
116523025	QAT		QATARSAT-G4-77.5E_1	77.5	C	CR/F	340	2832
118520285	QAT		QATARSAT-G5-77E	77	C	CR/C	4855	2905
117520321	RUS	IK	IK-127.5E	127.5	C	CR/C	4566	2881
117520319	RUS	IK	IK-56.5E	56.5	C	CR/C	4564	2881
117520320	RUS	IK	IK-69.5E	69.5	C	CR/C	4565	2881
101500190	RUS	IK	INTERBELAR-2	75	N	PART-IIS		2731
114520074	RUS	IK	INTERSPUTNIK-164E	164	C	CR/C	3584	2792
116500276	RUS	IK	INTERSPUTNIK-16W-2	-16	N	PART-IIS		2900
116500330	RUS	IK	INTERSPUTNIK-16W-4	-16	N	PART-IIS		2910
103500127	RUS	IK	INTERSPUTNIK-17E	17	N	PART-IIS		2823
109500232	RUS	IK	INTERSPUTNIK-17E-CK	17	N	PART-IIS		2823
103500095	RUS	IK	INTERSPUTNIK-3W	-3	N	PART-IIS		2905
112500275	RUS	IK	INTERSPUTNIK-3W-CK	-3	N	PART-IIS		2904
105500292	RUS	IK	INTERSPUTNIK-3W-Q	-3	N	PART-IIS		2905
112500149	RUS	IK	INTERSPUTNIK-75E-CK	75	N	PART-IIS		2732
105500291	RUS	IK	INTERSPUTNIK-75E-Q	75	N	PART-IIS		2675
114520004	RUS		BRASLET-125E	125	C	CR/C	3598	2794
114520005	RUS		BRASLET-149E	149	C	CR/C	3599	2794

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114520003	RUS		BRASLET-59E	59	C	CR/C	3597	2794
119520192	RUS		BV-SAT-128E	128	C	CR/C	5093	2908
119520189	RUS		BV-SAT-12E	12	C	CR/C	5090	2908
119520190	RUS		BV-SAT-45E	45	C	CR/C	5092	2908
119520191	RUS		BV-SAT-70E	70	C	CR/C	5091	2908
90500132	RUS		CSDRN	95	N	PART-IIS		2686
111500243	RUS		CSDRN-M	95	N	PART-IIS		2897
90501087	RUS		CSSRD-2	77	N	PART-IIS		2886
117500312	RUS		ENSAT-12.8E	12.8	N	PART-IIS		2882
117500177	RUS		ENSAT-13.2E	13.2	N	PART-IIS		2906
115500040	RUS		ENSAT-13E	13	N	PART-IIS		2892
115500236	RUS		ENSAT-14.5E	14.5	N	PART-IIS		2896
117520163	RUS		ENSAT-14.5E-A	14.5	C	CR/C	4480	2897
115500231	RUS		ENSAT-23E	23	N	PART-IIS		2895
115520150	RUS		ENSAT-KA-109E	109	C	CR/C	3870	2827
113520297	RUS		ENSAT-KA-112E	112	C	CR/C	3504	2827
112520421	RUS		ENSAT-KA-136E	136	C	CR/C	3267	2752
115520147	RUS		ENSAT-KA-174W	-174	C	CR/C	3873	2827
115520151	RUS		ENSAT-KA-176E	176	C	CR/C	3874	2827
112520419	RUS		ENSAT-KA-42.5E	42.5	C	CR/C	3265	2752
112520420	RUS		ENSAT-KA-67E	67	C	CR/C	3266	2752
113520296	RUS		ENSAT-KA-99E	99	C	CR/C	3503	2827
90500133	RUS		ESDRN	-160	N	PART-IIS		2901
119520115	RUS		ESDRN-M	-160	C	CR/C	5021	2903
100500089	RUS		EXPRESS-10	140	N	PART-IIS		2798
106500057	RUS		EXPRESS-10B	140	N	PART-IIS		2827
112500064	RUS		EXPRESS-10KA	140	N	PART-IIS		2870
100500090	RUS		EXPRESS-11	145	N	PART-IIS		2842
97500285	RUS		EXPRESS-2	-14	N	PART-IIS		2789
106500060	RUS		EXPRESS-2B	-14	N	PART-IIS		2735
97500286	RUS		EXPRESS-3	-11	N	PART-IIS		2835
119520138	RUS		EXPRESS-3B	-11	C	CR/C	5043	2905
98500178	RUS		EXPRESS-4	40	N	PART-IIS		2827
106500059	RUS		EXPRESS-4B	40	N	PART-IIS		2890
98500179	RUS		EXPRESS-5	53	N	PART-IIS		2888
106500050	RUS		EXPRESS-5B	53	N	PART-IIS		2827
112500235	RUS		EXPRESS-5KA	53	N	PART-IIS		2845
97500288	RUS		EXPRESS-6	80	N	PART-IIS		2790
106500056	RUS		EXPRESS-6B	80	N	PART-IIS		2907
112500236	RUS		EXPRESS-6KA	80	N	PART-IIS		2804
100500160	RUS		EXPRESS-7	90	N	PART-IIS		2805
106500099	RUS		EXPRESS-7B	90	N	PART-IIS		2711
112500045	RUS		EXPRESS-7C	90	N	PART-IIS		2746
100500298	RUS		EXPRESS-8	96.5	N	PART-IIS		2660
106500055	RUS		EXPRESS-8B	96.5	N	PART-IIS		2696
100500229	RUS		EXPRESS-9	103	N	PART-IIS		2798
106500058	RUS		EXPRESS-9B	103	N	PART-IIS		2735
117500106	RUS		EXPRESS-B 11W	-11	N	PART-IIS		2869
118520153	RUS		EXPRESS-KA-36E	36	C	CR/C	4783	2898

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
94500364	RUS		FOTON-1	-13.5	N	PART-IIS		2714
92500170	RUS		FOTON-2	80	N	PART-IIS		2714
94500365	RUS		FOTON-3	-168	N	PART-IIS		2714
90500382	RUS		GALS-1	-26.5	N	PART-IIS		2654
90500385	RUS		GALS-10	128	N	PART-IIS		2740
101500486	RUS		GALS-11	-3	N	PART-IIS		2740
101500485	RUS		GALS-12	15	N	PART-IIS		2740
98500183	RUS		GALS-13	49	N	PART-IIS		2654
98500184	RUS		GALS-14	69	N	PART-IIS		2682
101500484	RUS		GALS-15	1	N	PART-IIS		2740
98500185	RUS		GALS-16	70	N	PART-IIS		2760
98500186	RUS		GALS-17	12	N	PART-IIS		2640
90500393	RUS		GALS-2	45	N	PART-IIS		2654
90500394	RUS		GALS-3	85	N	PART-IIS		2871
90500395	RUS		GALS-4	-170	N	PART-IIS		2654
90500397	RUS		GALS-5	130	N	PART-IIS		2654
90500399	RUS		GALS-6	35	N	PART-IIS		2654
101500180	RUS		GALS-7	8	N	PART-IIS		2740
101500487	RUS		GALS-8	23	N	PART-IIS		2740
90500404	RUS		GALS-9	-25	N	PART-IIS		2740
113500039	RUS		GOMS-14.5W	-14.5	N	PART-IIS		2850
117500131	RUS		GOMS-166E	165.8	N	PART-IIS		2904
96500168	RUS		GOMS-1M	-14.5	N	PART-IIS		2808
95500278	RUS		GOMS-M	76	N	PART-IIS		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
118520337	RUS		GT-SAT-86.5E	86.5	C	CR/C	4887	2908
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-IIS		2795
110500081	RUS		KUPON-1M	55	N	PART-IIS		2827
108500042	RUS		KUPON-1S	55	N	PART-IIS		2827
104500545	RUS		KUPON-1T	55	N	PART-IIS		2627
111500211	RUS		KUPON-4M	86.5	N	PART-IIS		2856
90500287	RUS		LOUTCH-3	90	N	PART-IIS		2795
90500593	RUS		POTOK-1	-13.5	N	PART-IIS		2610
90500592	RUS		POTOK-2	80	N	PART-IIS		2583
90500594	RUS		POTOK-3	-168	N	PART-IIS		2610
90500531	RUS		PROGNOZ-1	-24	N	PART-IIS		2856
90500528	RUS		PROGNOZ-2	12	N			
90500529	RUS		PROGNOZ-3	35	N			
90500530	RUS		PROGNOZ-4	80	N	PART-IIS		2518
94500349	RUS		PROGNOZ-5	130	N	PART-IIS		2680
94500350	RUS		PROGNOZ-6	166	N	PART-IIS		2680
94500351	RUS		PROGNOZ-7	-159	N	PART-IIS		2680
102500059	RUS		PROGNOZ-8	98	N	PART-IIS		2740
116520352	RUS		PRSS-117.75E	117.75	C	CR/C	4263	2896
116523090	RUS		PRSS-117.75E_1	117.75	C	CR/F	397	2843
116520353	RUS		PRSS-130E	130	C	CR/C	4264	2859

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116523091	RUS		PRSS-130E_1	130	C	CR/F	398	2843
116520354	RUS		PRSS-151E	151	C	CR/C	4265	2859
116523092	RUS		PRSS-151E_1	151	C	CR/F	399	2843
116520355	RUS		PRSS-23.7E	23.7	C	CR/C	4261	2859
116523089	RUS		PRSS-23.7E_1	23.7	C	CR/F	395	2843
116520356	RUS		PRSS-83.75E	83.75	C	CR/C	4262	2859
116523088	RUS		PRSS-83.75E_1	83.75	C	CR/F	396	2843
102500047	RUS		ROSCOM-4	49	N	PART-IIS		2758
117500235	RUS		RST-1A	36	N	PART-IIS		2893
99500288	RUS		RST-2	56	N	PART-IIS		2522
118500037	RUS		RST-2A	56	N	PART-IIS		2893
119500152	RUS		RUSATCOM-145E	145	N	PART-IIS		2906
108501199	RUS		SADKO-1	85.4	N	PART-IIS		2710
90500475	RUS		STATSIONAR-1	80	N			
90500477	RUS		STATSIONAR-10	-170	N	PART-IIS		2740
101500526	RUS		STATSIONAR-10A	-170	N	PART-IIS		2714
118500081	RUS		STATSIONAR-128E	128	N	PART-IIS		2905
90500216	RUS		STATSIONAR-15	128	N	PART-IIS		2740
101500181	RUS		STATSIONAR-17	-26.5	N	PART-IIS		2740
101500182	RUS		STATSIONAR-18	8	N	PART-IIS		2740
101500183	RUS		STATSIONAR-19	23	N	PART-IIS		2740
90500496	RUS		STATSIONAR-2	35	N	PART-IIS		2740
90500256	RUS		STATSIONAR-20	70	N	PART-IIS		2857
90500220	RUS		STATSIONAR-21	103	N	PART-IIS		2778
90500196	RUS		STATSIONAR-22	1	N	PART-IIS		2740
101500185	RUS		STATSIONAR-23	15	N	PART-IIS		2740
90500199	RUS		STATSIONAR-24	49	N	PART-IIS		2714
91910063	RUS		STATSIONAR-27	12	N	PART-IIS		2714
90500501	RUS		STATSIONAR-3	85	N	PART-IIS		2740
90500482	RUS		STATSIONAR-6	90	N	PART-IIS		2795
90500484	RUS		STATSIONAR-8	-25	N	PART-IIS		2740
90500507	RUS		STATSIONAR-9	45	N	PART-IIS		2778
101500527	RUS		STATSIONAR-9A	45	N	PART-IIS		2714
94500246	RUS		STATSIONAR-D3	35	N	PART-IIS		2732
94500247	RUS		STATSIONAR-D4	45	N	PART-IIS		2732
94500248	RUS		STATSIONAR-D5	85.4	N	PART-IIS		2732
94500249	RUS		STATSIONAR-D6	128	N	PART-IIS		2732
104500019	RUS		STATSIONAR-M2	-3	N	PART-IIS		2605
105500356	RUS		TOR-10M	130	N	PART-IIS		2664
105500357	RUS		TOR-11M	-3	N	PART-IIS		2621
105500358	RUS		TOR-12M	14	N	PART-IIS		2652
105500359	RUS		TOR-13M	58	N	PART-IIS		2621
105500360	RUS		TOR-14M	69	N	PART-IIS		2621
105500448	RUS		TOR-15M	1	N	PART-IIS		2631
105500449	RUS		TOR-16M	49	N	PART-IIS		2631
105500450	RUS		TOR-17M	70	N	PART-IIS		2664
105500451	RUS		TOR-18M	12	N	PART-IIS		2631
105500352	RUS		TOR-1M	-26.5	N	PART-IIS		2620
105500444	RUS		TOR-2M	35	N	PART-IIS		2631

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90500546	RUS		TOR-3	45	N	PART-IIS		2655
90500547	RUS		TOR-4	85	N	PART-IIS		2655
105500445	RUS		TOR-4M	85	N	PART-IIS		2631
90500548	RUS		TOR-5	-170	N	PART-IIS		2655
105500446	RUS		TOR-5M	-170	N	PART-IIS		2631
95500611	RUS		TOR-6	128	N	PART-IIS		2682
105500447	RUS		TOR-6M	128	N	PART-IIS		2631
105500353	RUS		TOR-7M	24	N	PART-IIS		2652
105500354	RUS		TOR-8M	8	N	PART-IIS		2621
105500355	RUS		TOR-9M	-25	N	PART-IIS		2689
101500386	RUS		VOLNA-11	35	N	PART-IIS		2682
101500387	RUS		VOLNA-13	-26.5	N	PART-IIS		2740
101500388	RUS		VOLNA-15	8	N	PART-IIS		2740
101500389	RUS		VOLNA-17	23	N	PART-IIS		2740
101500390	RUS		VOLNA-19	70	N	PART-IIS		2740
95500612	RUS		VOLNA-1A	-25	N	PART-IIS		2740
90500585	RUS		VOLNA-2	-14	N	PART-IIS		2890
101500391	RUS		VOLNA-21	1	N	PART-IIS		2740
101500392	RUS		VOLNA-23	15	N	PART-IIS		2740
101500393	RUS		VOLNA-25	49	N	PART-IIS		2655
101500394	RUS		VOLNA-27	12	N	PART-IIS		2655
90504199	RUS		VOLNA-3	45	N	PART-IIS		2740
114500009	RUS		VOLNA-3R	-11	N	PART-IIS		2773
90500586	RUS		VOLNA-4	53	N			
110500067	RUS		VOLNA-4R	40	N	PART-IIS		2802
90504200	RUS		VOLNA-5	85	N	PART-IIS		2740
114500008	RUS		VOLNA-5R	96.5	N	PART-IIS		2774
90500587	RUS		VOLNA-6	140	N			
110500012	RUS		VOLNA-6R	145	N	PART-IIS		2891
90504201	RUS		VOLNA-7	-170	N	PART-IIS		2740
90504202	RUS		VOLNA-8	90	N	PART-IIS		2720
108500738	RUS		VOLNA-8R	80	N	PART-IIS		2664
101500385	RUS		VOLNA-9	128	N	PART-IIS		2682
90501088	RUS		VSSRD-2	167	N	PART-IIS		2886
112500228	RUS		VSSRD-2M	167	N	PART-IIS		2897
90500134	RUS		WSDRN	-16	N	PART-IIS		2686
111500244	RUS		WSDRN-M	-16	N	PART-IIS		2897
115520050	RUS		YAMAL-183E	-177	C	CR/E	964	2812
115520050	RUS		YAMAL-183E	-177	C	CR/C	3777	2812
112500245	RUS		YAMAL-49E	49	N	PART-IIS		2759
117500031	RUS		YAMAL-55E	55	N	PART-IIS		2862
105500011	RUS		YAMAL-E3	81.75	N	PART-IIS		2630
115520107	RUS		YAMAL-E3M1	81.75	C	CR/C	3875	2827
118500287	RUS		YAMAL-KA1M	49	N	PART-IIS		2910
117520125	RUS		YAMAL-KA2M	90	C	CR/C	4454	2870
90501090	RUS		ZSSRD-2	-16	N	PART-IIS		2886
90500541	S	NOT	TELE-X	5	N	PART-IIS		2662
118520315	S		SIRIUS-16W-1	-16	C	CR/C	4869	2905
104500472	S		SIRIUS-2	4.8	N	PART-IIS		2659

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108501081	S		SIRIUS-3B	5	N	PART-IIS		2652
112500153	S		SIRIUS-5E	5	N	PART-IIS		2814
114500015	S		SIRIUS-5E-2	5	N	PART-IIS		2814
115520010	S		SIRIUS-5E-8	5	C	CR/C	3808	2826
115523010	S		SIRIUS-5E-8_1	5	C	CR/F	234	2804
109500400	S		SIRIUS-P	5	N	PART-IIS		2814
116520165	S		SMMSAT-11	123	C	CR/C	4143	2851
116523044	S		SMMSAT-11_1	123	C	CR/F	354	2836
116520445	S		SMMSAT-2R	-33.5	C	CR/C	4306	2862
116523102	S		SMMSAT-2R_1	-33.5	C	CR/F	407	2847
115520302	S		SMMSAT-2X	-41	C	CR/C	3919	2834
116520446	S		SMMSAT-3R	21.5	C	CR/C	4307	2862
116523103	S		SMMSAT-3R_1	21.5	C	CR/F	408	2847
115520303	S		SMMSAT-3X	-33.5	C	CR/C	3920	2834
116520447	S		SMMSAT-4R	31	C	CR/C	4308	2862
116523104	S		SMMSAT-4R_1	31	C	CR/F	409	2847
115520304	S		SMMSAT-4X	21.5	C	CR/C	3921	2834
116520448	S		SMMSAT-5R	55	C	CR/C	4309	2862
116523105	S		SMMSAT-5R_1	55	C	CR/F	410	2847
115520305	S		SMMSAT-5X	31	C	CR/C	3922	2834
116520449	S		SMMSAT-6R	55.5	C	CR/C	4310	2862
116523106	S		SMMSAT-6R_1	55.5	C	CR/F	411	2847
115520306	S		SMMSAT-6X	39	C	CR/C	3923	2834
115520178	S		SMMSAT-7	55	C	CR/C	3868	2827
116520450	S		SMMSAT-7R	159	C	CR/C	4311	2862
116523107	S		SMMSAT-7R_1	159	C	CR/F	412	2847
115520307	S		SMMSAT-7X	55	C	CR/C	3924	2834
116520451	S		SMMSAT-8R	165	C	CR/C	4312	2862
116523108	S		SMMSAT-8R_1	165	C	CR/F	413	2847
115520308	S		SMMSAT-8X	61.5	C	CR/C	3925	2834
99500056	SNG		ST-1A	88	N	PART-IIS		2821
110500077	SNG		ST-1A-CK	88	N	PART-IIS		2821
116500120	SNG		ST-2A-CK	88	N	PART-IIS		2850
117520201	SUI		INMARSAT-7-107E5	107.5	C	CR/C	4508	2874
117520192	SUI		INMARSAT-7-11W5	-11.5	C	CR/C	4503	2874
117520202	SUI		INMARSAT-7-127E5	127.5	C	CR/C	4509	2874
117520203	SUI		INMARSAT-7-142E5	142.5	C	CR/C	4510	2874
117520193	SUI		INMARSAT-7-18W	-18	C	CR/C	4499	2874
117520279	SUI		INMARSAT-7-1E5	1.5	C	CR/C	4547	2880
117520280	SUI		INMARSAT-7-3E	3	C	CR/C	4548	2880
117520197	SUI		INMARSAT-7-67E5	67.5	C	CR/C	4504	2874
117520194	SUI		INMARSAT-7-72W	-72	C	CR/C	4500	2874
117520198	SUI		INMARSAT-7-73E	73	C	CR/C	4505	2874
117520195	SUI		INMARSAT-7-77W	-77	C	CR/C	4501	2874
117520199	SUI		INMARSAT-7-78E	78	C	CR/C	4506	2874
117520200	SUI		INMARSAT-7-87E5	87.5	C	CR/C	4507	2874
117520196	SUI		INMARSAT-7-87W	-87	C	CR/C	4502	2874
116520416	THA		THAICOM-51	51	C	CR/C	4304	2860
116523109	THA		THAICOM-51_1	51	C	CR/F	405	2846

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106500234	THA		THAICOM-A2B	78.5	N	PART-IIS		2862
101500557	THA		THAICOM-A3	120	N	PART-IIS		2632
106500350	THA		THAICOM-A3B	120	N	PART-IIS		2860
96500002	THA		THAICOM-AK2	78.5	N	PART-IIS		2351
106500348	THA		THAICOM-C1	50.5	N	PART-IIS		2798
109500875	THA		THAICOM-G1K	78.5	N	PART-IIS		2862
109500079	THA		THAICOM-G2K	120	N	PART-IIS		2698
110500358	THA		THAICOM-G3K	142	N	PART-IIS		2700
109500219	THA		THAICOM-IP1	119.5	N	PART-IIS		2693
116520117	THA		THAICOM-LSX2R	78.5	C	CR/C	4086	2845
116523020	THA		THAICOM-LSX2R_1	78.5	C	CR/F	329	2831
116520116	THA		THAICOM-LSX3R	119.5	C	CR/C	4087	2845
116523019	THA		THAICOM-LSX3R_1	119.5	C	CR/F	330	2831
112500242	THA		THAICOM-N1	50.5	N	PART-IIS		2792
112500215	THA		THAICOM-N2	78.5	N	PART-IIS		2862
112500127	THA		THAICOM-N3	120	N	PART-IIS		2804
116520417	THA		THAICOM-N5	142	C	CR/C	4303	2860
116523098	THA		THAICOM-N5_1	142	C	CR/F	404	2846
114520132	THA		THAICOM-P1R	50.5	C	CR/C	3626	2796
112520474	THA		THAICOM-P3	119.5	C	CR/C	3304	2891
115520020	THA		THAICOM-P5	126	C	CR/C	3747	2815
114520086	THA		THAICOM-Q2	78.5	C	CR/C	3589	2792
101500571	TON		TONGASAT AP-2	134	N	PART-IIS		2692
101500573	TON		TONGASAT AP-3	138	N	PART-IIS		2692
93500472	TON		TONGASAT C/KU-2	134	N	PART-IIS		2691
98500226	TON		TONGASAT C/KU-3	138	N	PART-IIS		2691
111500195	TON		TONGASAT-2/134E	134	N	PART-IIS		2718
111500194	TON		TONGASAT-2/138E	138	N	PART-IIS		2718
105500703	TON		TONGASAT-H70	70	N	PART-IIS		2692
115520262	TUR		TURKSAT-12.5E-F	12.5	C	CR/C	3949	2838
115520263	TUR		TURKSAT-18.9E-F	18.9	C	CR/C	3950	2838
95500457	TUR		TURKSAT-1A	42	N	PART-IIS		2639
95500458	TUR		TURKSAT-1B	31	N	PART-IIS		2874
99500054	TUR		TURKSAT-1C	50	N	PART-IIS		2815
100500442	TUR		TURKSAT-1D	42	N	PART-IIS		2639
113520315	TUR		TURKSAT-23W-A	-23	C	CR/C	3521	2785
115520264	TUR		TURKSAT-27.8E-F	27.8	C	CR/C	3951	2838
111500058	TUR		TURKSAT-2B	31	N	PART-IIS		2874
115520260	TUR		TURKSAT-3.7W-F	-3.7	C	CR/C	3948	2838
112500280	TUR		TURKSAT-31E-A	31	N	PART-IIS		2874
117500046	TUR		TURKSAT-31E-B	31	N	PART-IIS		2874
119500076	TUR		TURKSAT-31E-C	31	N	PART-IIS		2898
114520278	TUR		TURKSAT-31E-D	31	C	CR/C	3674	2804
114523089	TUR		TURKSAT-31E-D_1	31	C	CR/F	165	2790
115520265	TUR		TURKSAT-31E-F	31	C	CR/C	3955	2839
112500281	TUR		TURKSAT-42E-A	42	N	PART-IIS		2749
114500196	TUR		TURKSAT-42E-B	42	N	PART-IIS		2885
112520272	TUR		TURKSAT-42E-C	42	C	CR/C	3208	2888

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115520266	TUR		TURKSAT-42E-F	42	C	CR/C	3956	2839
119520137	TUR		TURKSAT-42E-G	42	C	CR/C	5042	2905
112500282	TUR		TURKSAT-50E-A	50	N	PART-IIS		2815
115500041	TUR		TURKSAT-50E-B	50	N	PART-IIS		2903
112520273	TUR		TURKSAT-50E-C	50	C	CR/C	3209	2746
115520267	TUR		TURKSAT-50E-F	50	C	CR/C	3957	2839
115520261	TUR		TURKSAT-8.5E-F	8.5	C	CR/C	3954	2839
115520268	TUR		TURKSAT-81E-F	81	C	CR/C	3952	2838
109500555	TUR		TURKSAT-C50E	50	N	PART-IIS		2815
96500024	TUR		TURKSAT-K1	31	N	PART-IIS		2874
101500035	TUR		TURKSAT-K2	42	N	PART-IIS		2639
109500209	TUR		TURKSAT-K3	50	N	PART-IIS		2815
104500576	TUR		TURKSAT-KX	42	N	PART-IIS		2639
114520194	UAE		EMARSAT-10F	44	C	CR/C	3662	2803
114520211	UAE		EMARSAT-10S	98.5	C	CR/C	3670	2803
115520080	UAE		EMARSAT-11G/M	127	C	CR/C	3797	2818
115520074	UAE		EMARSAT-11X	-73	C	CR/C	3792	2819
116520037	UAE		EMARSAT-12D-M	-130.9	C	CR/C	4032	2841
116520046	UAE		EMARSAT-12F	44	C	CR/C	4043	2841
116520036	UAE		EMARSAT-12Y-M	-9	C	CR/C	4033	2842
116520291	UAE		EMARSAT-13P	123	C	CR/C	4220	2857
116520406	UAE		EMARSAT-13S	98.5	C	CR/C	4293	2860
116520378	UAE		EMARSAT-13V-M	-8	C	CR/C	4260	2859
106500419	UAE		EMARSAT-1F	44	N	PART-IIS		2766
110500260	UAE		EMARSAT-1F/M	44	N	PART-IIS		2766
108500025	UAE		EMARSAT-1G	52.5	N	PART-IIS		2814
111500142	UAE		EMARSAT-4F	44	N	PART-IIS		2721
108501071	UAE		EMARSAT-4S	98.5	N	PART-IIS		2766
113500210	UAE		EMARSAT-5G	52.5	N	PART-IIS		2885
116500094	UAE		EMARSAT-7S	98.5	N	PART-IIS		2837
113520107	UAE		EMARSAT-9Q	137.8	C	CR/C	3383	2897
113520109	UAE		EMARSAT-9X	-73	C	CR/C	3385	2897
113520110	UAE		EMARSAT-9Y	14.6	C	CR/C	3386	2897
116520431	UAE		FUTURA-1	11	C	CR/C	4314	2862
117520049	UAE		FUTURA-2	166	C	CR/C	4413	2868
116520432	UAE		FUTURA-3	14.6	C	CR/C	4315	2862
117520338	UAE		FUTURA-4	44	C	CR/C	4580	2892
118520340	UAE		MADAR-1.5W	-1.5	C	CR/C	4888	2908
115520214	UAE		MADAR-113W	-113	C	CR/C	3905	2831
118520189	UAE		MADAR-113W-2	-113	C	CR/C	4815	2898
115523062	UAE		MADAR-113W_1	-113	C	CR/F	264	2816
115520215	UAE		MADAR-117W	-117	C	CR/C	3906	2831
115523061	UAE		MADAR-117W_1	-117	C	CR/F	265	2816
116520299	UAE		MADAR-123W	-123	C	CR/C	4219	2857
118520190	UAE		MADAR-123W-2	-123	C	CR/C	4816	2898
116523076	UAE		MADAR-123W_1	-123	C	CR/F	379	2842
114520104	UAE		MADAR-124W	-124	C	CR/C	3611	2794
119520199	UAE		MADAR-127E	127	C	CR/C	5104	2910
118520347	UAE		MADAR-14.6E	14.6	C	CR/C	4894	2908

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114520095	UAE		MADAR-142E	142	C	CR/C	3609	2794
116520293	UAE		MADAR-142E-2	142	C	CR/C	4217	2857
116523070	UAE		MADAR-142E-2_1	142	C	CR/F	378	2842
119520200	UAE		MADAR-142E-3	142	C	CR/C	5096	2909
118520344	UAE		MADAR-14W	-14	C	CR/C	4889	2908
118520343	UAE		MADAR-15.5E	15.5	C	CR/C	4890	2908
116520295	UAE		MADAR-15E	15	C	CR/C	4209	2856
116523072	UAE		MADAR-15E_1	15	C	CR/F	375	2841
114520177	UAE		MADAR-160E	160	C	CR/C	3652	2801
116520294	UAE		MADAR-160E-2	160	C	CR/C	4211	2856
116523071	UAE		MADAR-160E-2_1	160	C	CR/F	377	2841
119520204	UAE		MADAR-160E-3	160	C	CR/C	5105	2910
114520178	UAE		MADAR-166E	166	C	CR/C	3653	2801
115520213	UAE		MADAR-16W	-16	C	CR/C	3904	2831
115523059	UAE		MADAR-16W_1	-16	C	CR/F	263	2816
115520208	UAE		MADAR-18W	-18	C	CR/C	3895	2830
115523053	UAE		MADAR-18W_1	-18	C	CR/F	258	2815
116520039	UAE		MADAR-20W	-20	C	CR/C	4035	2841
116520181	UAE		MADAR-20W-2	-20	C	CR/C	4144	2852
116523047	UAE		MADAR-20W-2_1	-20	C	CR/F	355	2837
116523012	UAE		MADAR-20W_1	-20	C	CR/F	312	2828
117520170	UAE		MADAR-27E	27	C	CR/C	4486	2871
119520198	UAE		MADAR-27E-2	27	C	CR/C	5101	2910
114520183	UAE		MADAR-28W-2	-28	C	CR/C	3657	2802
117520404	UAE		MADAR-2E	2	C	CR/C	4597	2884
118520341	UAE		MADAR-2E-2	2	C	CR/C	4891	2908
116520296	UAE		MADAR-33.5E	33.5	C	CR/C	4210	2856
118520342	UAE		MADAR-33.5E-2	33.5	C	CR/C	4892	2908
116523073	UAE		MADAR-33.5E_1	33.5	C	CR/F	376	2841
115520206	UAE		MADAR-33E	33	C	CR/C	3892	2830
116520180	UAE		MADAR-33E-2	33	C	CR/C	4145	2852
116523048	UAE		MADAR-33E-2_1	33	C	CR/F	356	2837
119520194	UAE		MADAR-33E-3	33	C	CR/C	5099	2909
115523055	UAE		MADAR-33E_1	33	C	CR/F	254	2815
117520403	UAE		MADAR-40E	40	C	CR/C	4596	2884
117520169	UAE		MADAR-42E	42	C	CR/C	4487	2871
117520342	UAE		MADAR-43W-2	-43	C	CR/C	4584	2892
119520195	UAE		MADAR-43W-3	-43	C	CR/C	5100	2909
115520204	UAE		MADAR-44.5E	44.5	C	CR/C	3893	2830
115523052	UAE		MADAR-44.5E_1	44.5	C	CR/F	255	2815
119520196	UAE		MADAR-44E	44	C	CR/C	5102	2910
115520047	UAE		MADAR-45W	-45	C	CR/C	3774	2816
118520183	UAE		MADAR-46E-2	46	C	CR/C	4809	2898
112520431	UAE		MADAR-47.5E	47.5	C	CR/C	3275	2907
116520073	UAE		MADAR-47.5E-2	47.5	C	CR/C	4052	2842
116523003	UAE		MADAR-47.5E-2_1	47.5	C	CR/F	314	2829
119520201	UAE		MADAR-47.5E-3	47.5	C	CR/C	5095	2909
115520205	UAE		MADAR-5.5E	5.5	C	CR/C	3891	2830
118520182	UAE		MADAR-5.5E-2	5.5	C	CR/C	4808	2898

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115523056	UAE		MADAR-5.5E_1	5.5	C	CR/F	253	2815
115520075	UAE		MADAR-50.5E-2	50.5	C	CR/C	3779	2816
115520201	UAE		MADAR-50.5E-3	50.5	C	CR/C	3897	2830
115523050	UAE		MADAR-50.5E-3_1	50.5	C	CR/F	260	2815
114520096	UAE		MADAR-50W	-50	C	CR/C	3610	2794
117520411	UAE		MADAR-50W-2	-50	C	CR/C	4602	2884
114520006	UAE		MADAR-52.5E	52.5	C	CR/C	3536	2788
116520070	UAE		MADAR-52.5E-2	52.5	C	CR/C	4053	2842
116523005	UAE		MADAR-52.5E-2_1	52.5	C	CR/F	316	2829
116520297	UAE		MADAR-55E	55	C	CR/C	4215	2857
116523074	UAE		MADAR-55E_1	55	C	CR/F	381	2842
118520184	UAE		MADAR-56E	56	C	CR/C	4810	2898
115520202	UAE		MADAR-57E-2	57	C	CR/C	3894	2830
115523057	UAE		MADAR-57E-2_1	57	C	CR/F	257	2815
115520044	UAE		MADAR-57W	-57	C	CR/C	3771	2816
118520186	UAE		MADAR-57W-2	-57	C	CR/C	4812	2898
114520007	UAE		MADAR-60E	60	C	CR/C	3537	2788
116520071	UAE		MADAR-60E-2	60	C	CR/C	4054	2843
116523006	UAE		MADAR-60E-2_1	60	C	CR/F	317	2829
116520072	UAE		MADAR-63E	63	C	CR/C	4055	2842
116523004	UAE		MADAR-63E_1	63	C	CR/F	315	2829
117520285	UAE		MADAR-67.5E	67.5	C	CR/C	4554	2881
115520059	UAE		MADAR-70W	-70	C	CR/C	3782	2816
114520088	UAE		MADAR-72.5E	72.5	C	CR/C	3608	2794
116520292	UAE		MADAR-72.5E-2	72.5	C	CR/C	4216	2857
116523069	UAE		MADAR-72.5E-2_1	72.5	C	CR/F	380	2842
118520185	UAE		MADAR-72.5E-3	72.5	C	CR/C	4811	2898
115520207	UAE		MADAR-73W	-73	C	CR/C	3896	2830
119520202	UAE		MADAR-73W-2	-73	C	CR/C	5097	2909
115523054	UAE		MADAR-73W_1	-73	C	CR/F	256	2815
117520286	UAE		MADAR-79E	79	C	CR/C	4555	2881
115520045	UAE		MADAR-81W	-81	C	CR/C	3772	2816
118520187	UAE		MADAR-81W-2	-81	C	CR/C	4813	2906
115520216	UAE		MADAR-85E	85	C	CR/C	3902	2831
115523060	UAE		MADAR-85E_1	85	C	CR/F	261	2816
117520168	UAE		MADAR-9.5E	9.5	C	CR/C	4485	2871
118520346	UAE		MADAR-9.5E-2	9.5	C	CR/C	4895	2908
115520217	UAE		MADAR-91.5E	91.5	C	CR/C	3903	2831
115523058	UAE		MADAR-91.5E_1	91.5	C	CR/F	262	2816
116520298	UAE		MADAR-93W	-93	C	CR/C	4218	2857
119520203	UAE		MADAR-93W-2	-93	C	CR/C	5098	2909
116523075	UAE		MADAR-93W_1	-93	C	CR/F	382	2842
115520209	UAE		MADAR-95W	-95	C	CR/C	3898	2830
118520188	UAE		MADAR-95W-2	-95	C	CR/C	4814	2898
115523051	UAE		MADAR-95W_1	-95	C	CR/F	259	2815
119520197	UAE		MADAR-97E	97	C	CR/C	5103	2910
118520345	UAE		MADAR-9W	-9	C	CR/C	4893	2908
113500018	UAE		YAHSAT	52.5	N	PART-IIS		2815
116500163	UAE		YAHSAT-63E	63	N	PART-IIS		2885

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118500205	UAE		YAHSAT-G5-43W	-43	N	PART-IIS		2885
117500192	UAE		YAHSAT-G6-17.5W	-17.5	N	PART-IIS		2906
115500161	UAE		YAHSAT-KA-47.5E	47.5	N	PART-IIS		2885
108520229	UAE		YAHSAT-KA1-52.5E	52.5	C	CR/C	2293	2806
115500070	UAE		YAHSAT-N-20W	-20	N	PART-IIS		2896
115520246	UKR		UKRSAT-KA-45.0E	45	C	CR/C	3990	2839
113520003	UKR		UKRSAT-KA-53.2E	53.2	C	CR/E	577	2765
113520003	UKR		UKRSAT-KA-53.2E	53.2	C	CR/C	3390	2765
109500801	URG		VENESAT-1	-78	N	PART-IIS		2677
102500532	USA		ACS-1	-101	N	PART-IIS		2821
103500278	USA		AFRIBSS	21	N	PART-IIS		2895
90500611	USA		ATS-5	-105	N			
90500525	USA		COMSTAR D-2	-95	N			
90500266	USA		FLTSATCOM E PAC	-100	N	PART-IIS		2892
90500264	USA		FLTSATCOM W PAC	172	N	PART-IIS		2892
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93500633	USA		FLTSATCOM-C E ATL-1	-22.5	N	PART-IIS		2505
93500634	USA		FLTSATCOM-C E ATL-2	-15.5	N	PART-IIS		2497
93500149	USA		FLTSATCOM-C E PAC-1	-105	N	PART-IIS		2442
93500148	USA		FLTSATCOM-C E PAC-2	-100	N	PART-IIS		2481
93500635	USA		FLTSATCOM-C INDOC-1	29	N	PART-IIS		2497
93500636	USA		FLTSATCOM-C INDOC-2	72	N	PART-IIS		2498
93500637	USA		FLTSATCOM-C INDOC-3	75	N	PART-IIS		2500
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93500641	USA		FLTSATCOM-C W PAC-2	-177	N	PART-IIS		2502
93500147	USA		FLTSATCOM-C W PAC-3	-145	N	PART-IIS		2621
112500200	USA		GOES 60W	-60	N	PART-IIS		2755
90500361	USA		GOES EAST	-75	N			
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118520222	USA		GOES-2-128W	-128	C	CR/C	4836	2904
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116520113	USA		GOES-4-105W	-105	C	CR/C	4083	2845
116520112	USA		GOES-4-89.5W	-89.5	C	CR/C	4082	2845
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111500113	USA		GOES-EAST-2	-75	N	PART-IIS		2730
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114520098	USA		GOES-WEST-4	-137	C	CR/C	3607	2805
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106500581	USA		INTELSAT KFOS 85E	85	N	PART-IIS		2872
107500486	USA		INTELSAT10 359E	-1	N	PART-IIS		2683
106500249	USA		INTELSAT5 33E	33	N	PART-IIS		2905
90500677	USA		INTELSAT5 PAC3	180	N	PART-IIS		2713
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92500136	USA		INTELSAT6 325.5E	-34.5	N	PART-IIS		2614
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115520118	USA		P92-9A	110	C	CR/C	3999	2838
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113500184	USA		TDRS 12W-R	-12	N	PART-IIS		2892
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117520486	USA		USASAT-55O-1	-50	C	CR/C	4652	2888
116500267	USA		USASAT-55P	-29.5	N	PART-IIS		2887
111520218	USA		USASAT-55Q	66	C	CR/C	2950	2703
117500340	USA		USASAT-55R	180	N	PART-IIS		2883
118500179	USA		USASAT-55S	-58	N	PART-IIS		2908
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118500094	USA		USASAT-55V	169	N	PART-IIS		2888
113520177	USA		USASAT-55W	-79	C	CR/C	3423	2771
114520011	USA		USASAT-55Y	-76	C	CR/C	3534	2787
118520118	USA		USASAT-60A-1	-137	C	CR/C	4754	2895
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110500254	USA		USASAT-60J	169	N	PART-IIS		2899
111500108	USA		USASAT-60N	33	N	PART-IIS		2853
117500067	USA		USASAT-60P	-31.5	N	PART-IIS		2888
119500117	USA		USASAT-60Q	157	N	PART-IIS		2907
112520423	USA		USASAT-60R	72	C	CR/E	457	2750
112520423	USA		USASAT-60R	72	C	CR/C	3264	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
116520177	USA		USASAT-60V	169	C	CR/C	4151	2852
117520138	USA		USASAT-60W	-34.5	C	CR/E	1590	2869
117520138	USA		USASAT-60W	-34.5	C	CR/C	4471	2869
117520287	USA		USASAT-60X	-31.5	C	CR/C	4553	2881
117520377	USA		USASAT-60Y	172	C	CR/E	1690	2882
117520377	USA		USASAT-60Y	172	C	CR/C	4590	2882
118520316	USA		USASAT-60Z	180	C	CR/E	1904	2904
118520316	USA		USASAT-60Z	180	C	CR/C	4871	2904
119520036	USA		USASAT-61A	62	C	CR/C	4959	2897
119520139	USA		USASAT-61B	-93	C	CR/C	5044	2905
119520035	USA		USASAT-61C	66	C	CR/C	4960	2897
115520001	USA		USASAT-66D	-15	C	CR/C	3733	2812
112500097	USA		USASAT-70O	-95	N	PART-IIS		2734
111500227	USA		USASAT-70V	-99.2	N	PART-IIS		2719

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
111500228	USA		USASAT-70W	-102.8	N	PART-IIS		2719
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/E	574	2764
113520093	USA		USASAT-71N	68.5	C	CR/C	3388	2764
116520414	USA		USASAT-71P	-97	C	CR/C	4305	2860
117520008	USA		USASAT-71Q	-18	C	CR/C	4368	2866
117520326	USA		USASAT-71R	-139	C	CR/C	4568	2881
117520223	USA		USASAT-76E	-95.2	C	CR/C	4517	2903
101500073	USA		USASAT-7D	-101	N	PART-IIS		2895
114520034	USA		USASAT-80A	-50	C	CR/C	3562	2847
116520198	USA		USASAT-80B	60	C	CR/C	4164	2853
117520221	USA		USASAT-80C	-125	C	CR/C	4518	2877
118520107	USA		USASAT-80C-1	-125	C	CR/C	4743	2895
117520222	USA		USASAT-80D	-133	C	CR/C	4519	2877
101500396	USA		USASAT-9A	-91	N	PART-IIS		2690
101500077	USA		USASAT-9C	-85	N	PART-IIS		2720
104500352	USA		USCSID-A1	0	N	PART-IIS		2761
104500353	USA		USCSID-A2	44	N	PART-IIS		2761
104500354	USA		USCSID-A3	75	N	PART-IIS		2761
104500355	USA		USCSID-A4	82	N	PART-IIS		2761
104500356	USA		USCSID-A5	92	N	PART-IIS		2761
104500357	USA		USCSID-A6	110	N	PART-IIS		2761
104500358	USA		USCSID-E1	-10	N	PART-IIS		2761
104500359	USA		USCSID-E2	-13	N	PART-IIS		2761
104500360	USA		USCSID-E3	-24	N	PART-IIS		2761
104500361	USA		USCSID-E4	-30	N	PART-IIS		2761
104500362	USA		USCSID-W1	-141	N	PART-IIS		2761
104500363	USA		USCSID-W2	-144	N	PART-IIS		2761
106500292	USA		USDKH2	-30.4	N	PART-IIS		2667
119520087	USA		USEWSG-1	61.5	C	CR/C	5007	2907
119520088	USA		USEWSG-2	63.5	C	CR/C	5008	2907
104500514	USA		USGAE-1	-90	N	PART-IIS		2633
109500620	USA		USGAE-10R	-150	N	PART-IIS		2680
116520078	USA		USGAE-11A	93	C	CR/C	4059	2842
116500043	USA		USGAE-12M	111	N	PART-IIS		2861
116520079	USA		USGAE-13A	96	C	CR/C	4060	2842
116520080	USA		USGAE-14A	-16.5	C	CR/C	4061	2842
116520081	USA		USGAE-15A	-31.5	C	CR/C	4062	2842
109500625	USA		USGAE-16R	30	N	PART-IIS		2699
109500621	USA		USGAE-17R	-39	N	PART-IIS		2680
116520082	USA		USGAE-18A	-155	C	CR/C	4063	2842
104500515	USA		USGAE-2	4	N	PART-IIS		2634
116500044	USA		USGAE-23M	19	N	PART-IIS		2862
116520172	USA		USGAE-25A	-124.2	C	CR/C	4141	2851
119500184	USA		USGAE-26A	-94.2	N	PART-IIS		2909
116520435	USA		USGAE-28A	137.7	C	CR/C	4297	2860
116520075	USA		USGAE-3A	90	C	CR/C	4056	2842
104500516	USA		USGAE-4	177.5	N	PART-IIS		2634

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
116520076	USA		USGAE-5A	55	C	CR/C	4057	2842
116500040	USA		USGAE-6M	-120	N	PART-IIS		2861
113500214	USA		USGAE-7M	-68	N	PART-IIS		2808
116520077	USA		USGAE-8A	-9	C	CR/C	4058	2856
109500486	USA		USGAE-9R	152	N	PART-IIS		2699
92500208	USA		USGCSS PH3 E PAC-2	-130	N	PART-IIS		2369
93500163	USA		USGCSS PH3 INDOC	60	N	PART-IIS		2140
100500005	USA		USGCSS PH3 INDOC-2	57	N	PART-IIS		2580
96500389	USA		USGCSS PH3 MID-ATL	-42.5	N	PART-IIS		2370
90500067	USA		USGCSS PH3 W PAC	175	N	PART-IIS		2905
96500387	USA		USGCSS PH3 W PAC-2	180	N	PART-IIS		2463
96500392	USA		USGCSS PH3B ATL	-12	N	PART-IIS		2898
92500109	USA		USGCSS PH3B E PAC	-135	N	PART-IIS		2905
96500386	USA		USGCSS PH3B E PAC-2	-130	N	PART-IIS		2511
100500004	USA		USGCSS PH3B INDOC	60	N	PART-IIS		2612
101500466	USA		USGCSS PH3B INDOC-2	57	N	PART-IIS		2612
100500003	USA		USGCSS PH3B MID-ATL	-42.5	N	PART-IIS		2580
96500388	USA		USGCSS PH3B W ATL	-52.5	N	PART-IIS		2510
96500384	USA		USGCSS PH3B W PAC	175	N	PART-IIS		2463
100500086	USA		USGCSS PH3B W PAC-2	180	N	PART-IIS		2580
100500087	USA		USGCSS PH3B W PAC-3	150	N	PART-IIS		2612
104500510	USA		USGGR-11	110	N	PART-IIS		2604
104500507	USA		USGGR-3	-30	N	PART-IIS		2604
104500508	USA		USGGR-4	44	N	PART-IIS		2603
104500509	USA		USGGR-8	82	N	PART-IIS		2603
104500264	USA		USGON-1	70	N	PART-IIS		2822
104500568	USA		USGON-2	8.5	N	PART-IIS		2811
104500569	USA		USGON-3	103	N	PART-IIS		2811
104500570	USA		USGON-4	-165	N	PART-IIS		2811
104500571	USA		USGON-5	-38	N	PART-IIS		2811
104500572	USA		USGON-6	145	N	PART-IIS		2811
104500573	USA		USGON-7	-145	N	PART-IIS		2811
110500139	USA		USGOVSAT-10	60	N	PART-IIS		2814
116500107	USA		USGOVSAT-11R	150	N	PART-IIS		2891
110500130	USA		USGOVSAT-12	175	N	PART-IIS		2814
116520323	USA		USGOVSAT-13A	-121.9	C	CR/C	4242	2858
116520324	USA		USGOVSAT-15A	11	C	CR/C	4243	2858
117500098	USA		USGOVSAT-16R	24	N	PART-IIS		2900
116520325	USA		USGOVSAT-17A	36	C	CR/C	4244	2858
116520326	USA		USGOVSAT-18A	78.5	C	CR/C	4245	2858
116520327	USA		USGOVSAT-19A	86	C	CR/C	4246	2858
117500027	USA		USGOVSAT-1R	180	N	PART-IIS		2906
116500189	USA		USGOVSAT-20R	134	N	PART-IIS		2908
115500014	USA		USGOVSAT-3R	-135	N	PART-IIS		2882
116520319	USA		USGOVSAT-4A	-130	C	CR/C	4238	2858
117500056	USA		USGOVSAT-5R	-112	N	PART-IIS		2890
114500163	USA		USGOVSAT-6R	-52.5	N	PART-IIS		2824
116520321	USA		USGOVSAT-7A	-42.5	C	CR/C	4240	2858
111500009	USA		USGOVSAT-8	-12	N	PART-IIS		2815

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
118500180	USA		USGOVSAT-9A	57	N	PART-IIS		2909
95500286	USA		USLL-ATL	-10	N	PART-IIS		2240
104500333	USA		USLL-ATL2	-12.5	N	PART-IIS		2603
117500216	USA		USLL-ATL3	-30.4	N	PART-IIS		2891
95500289	USA		USLL-PAC	-144	N	PART-IIS		2278
104500334	USA		USLL-PAC2	-141	N	PART-IIS		2602
118500045	USA		USLL-PAC3	92	N	PART-IIS		2901
118500046	USA		USLL-PAC4	100	N	PART-IIS		2900
118500047	USA		USLL-PAC5	110	N	PART-IIS		2900
118500048	USA		USLL-PAC6	-127	N	PART-IIS		2900
118520151	USA		USLL-PAC7	170	C	CR/C	4781	2880
104500339	USA		USMB-1	-61	N	PART-IIS		2761
104500348	USA		USMB-10	75	N	PART-IIS		2761
114520136	USA		USMB-10A	75	C	CR/C	3666	2803
104500349	USA		USMB-11	82	N	PART-IIS		2761
114520137	USA		USMB-11A	82	C	CR/C	3667	2803
104500350	USA		USMB-12	92	N	PART-IIS		2761
114520138	USA		USMB-12A	92	C	CR/C	3668	2803
104500351	USA		USMB-13	106.5	N	PART-IIS		2761
104500340	USA		USMB-2	-30	N	PART-IIS		2761
104500341	USA		USMB-3	-19	N	PART-IIS		2761
104500342	USA		USMB-4	-10	N	PART-IIS		2761
114520134	USA		USMB-4A	-10	C	CR/C	3664	2803
104500343	USA		USMB-5	5	N	PART-IIS		2761
104500344	USA		USMB-6	7	N	PART-IIS		2761
104500345	USA		USMB-7	33	N	PART-IIS		2761
104500346	USA		USMB-8	49	N	PART-IIS		2761
114520135	USA		USMB-8A	49	C	CR/C	3665	2803
104500347	USA		USMB-9	62	N	PART-IIS		2761
116520033	USA		USNN-1	-65	C	CR/C	4029	2840
117520129	USA		USNN-2	53	C	CR/C	4456	2870
112500259	USA		USNN-3	-127	N	PART-IIS		2779
112500260	USA		USNN-4	100	N	PART-IIS		2792
117500282	USA		USNN-5	170	N	PART-IIS		2895
118520126	USA		USOBO-10B	130.6	C	CR/C	4762	2895
118520127	USA		USOBO-11B	139	C	CR/C	4763	2895
118520128	USA		USOBO-12B	51.5	C	CR/C	4764	2895
118520129	USA		USOBO-13B	-165	C	CR/C	4765	2895
118520130	USA		USOBO-14B	-145	C	CR/C	4766	2895
118520131	USA		USOBO-15B	-38	C	CR/C	4767	2895
118520132	USA		USOBO-16B	8.5	C	CR/C	4768	2895
118520133	USA		USOBO-17B	103	C	CR/C	4769	2895
118520134	USA		USOBO-18B	145	C	CR/C	4770	2895
118520308	USA		USOBO-19B	70	C	CR/C	4866	2905
118500067	USA		USOBO-1A	-159.4	N	PART-IIS		2907
106500112	USA		USOBO-2	-96.8	N	PART-IIS		2815
118520119	USA		USOBO-2B	-96.8	C	CR/C	4755	2895
106500113	USA		USOBO-3	-49.4	N	PART-IIS		2815
118520120	USA		USOBO-3B	-49.4	C	CR/C	4756	2895

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
118520121	USA		USOBO-4B	-21.2	C	CR/C	4757	2895
117500329	USA		USOBO-5A	20.6	N	PART-IIS		2906
118520123	USA		USOBO-7B	73	C	CR/E	1887	2901
118520123	USA		USOBO-7B	73	C	CR/C	4759	2901
118520124	USA		USOBO-8B	87.5	C	CR/C	4760	2895
118520125	USA		USOBO-9B	94	C	CR/C	4761	2895
106500269	USA		USTRO-2	-144	N	PART-IIS		2640
106500270	USA		USTRO-3	-141	N	PART-IIS		2640
106500271	USA		USTRO-4	-13	N	PART-IIS		2642
106500272	USA		USTRO-5	-10	N	PART-IIS		2641
106500273	USA		USTRO-6	70	N	PART-IIS		2642
106500274	USA		USTRO-7	90	N	PART-IIS		2641
106500275	USA		USTRO-8	103	N	PART-IIS		2642
106500276	USA		USTRO-9	85	N	PART-IIS		2644
117500064	VTN		VIETSAT-132	131.9	N	PART-IIS		2867
116520234	VTN		VIETSAT132	132	C	CR/C	4197	2856
109500237	VTN		VINASAT-4A2	132	N	PART-IIS		2691
110500104	VTN		VINASAT-4A3	132	N	PART-IIS		2711
111500107	VTN		VINASAT-TTC	132	N	PART-IIS		2709
119500067	VTN		VNSAT-1A3	117.5	N	PART-IIS		2898
114520279	VTN		VNSAT-2A2	97.5	C	CR/C	3731	2812
116520418	VTN		VNSAT-4A12	102.5	C	CR/C	4313	2862
116523097	VTN		VNSAT-4A12_1	102.5	C	CR/F	406	2847
117520413	VTN		VTN129.5	129.5	C	CR/C	4604	2884

ANNEX 1B

Table 1B.1: List of non-geostationary space networks for which information has been communicated to the Bureau up to 31.12.2019 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
114540103	AFS		DYNACUBE		A	API/A	9093	2780
112541105	AFS		ZACUBE-1		A	API/A	8029	2744
117545401	AFS		ZACUBE-2		A	API/A	12068	2875
115545046	ALG		ALSAT-1B		A	API/A	10523	2811
116545152	ALG		ALSAT-1N		A	API/A	11837	2838
108500677	ALG		ALSAT-2		N	PART-IIS		2682
115545087	ARG		ALEPH-1-C		A	API/A	11254	2876
117545425	ARG		ALEPH-1-E		A	API/A	12093	2874
118545249	ARG		ALEPH-3-P		A	API/A	12292	2901
114540175	ARG		BUGSAT-1		A	API/A	9126	2786
113540571	ARG		CUBEBUG-2		A	API/A	8699	2767
117545440	ARG		DIY-1		A	API/A	12107	2876
107500106	ARG		LATINSAT		N	PART-IIS		2742
107540960	ARG		SAC-D		A	API/A	4723	2653
116545274	ARG		SAOCOM-1		A	API/A	11975	2896
109500037	ARS		SAUDISAT-1C		N	PART-IIS		2667
109500038	ARS		SAUDISAT-2		N	PART-IIS		2697
115500118	ARS		SAUDISAT-4		N	PART-IIS		2819
115500119	ARS		SAUDISAT-5		N	PART-IIS		2819
115500120	ARS		SAUDISAT-6		N	PART-IIS		2818
118545053	AUS		ACRUX-1		A	API/A	12151	2884
118520090	AUS		MNSAT		C	CR/C	4735	2895
113520061	AUS		SIRION-1		C	CR/C	3364	2885
112500204	AUT		BRITE		N	PART-IIS		2861
115500081	AZE		AZERSKY		N	PART-IIS		2822
114540699	B		AESP-14		A	API/A	9615	2798
117545352	B		AMAZONIA-1		A	API/A	12037	2865
118545120	B		ITASAT-1		A	API/A	12229	2897
92500233	B		MECB-S1		N	PART-IIS		2744
99500244	B		MECB/SCD-2		N	PART-IIS		2744
114540094	B		NANOSATC-BR1		A	API/A	9086	2781
100500350	B		SACI-1		N	PART-IIS		2744
114540711	B		SERPENS		A	API/A	9626	2799
115545006	B		UBATUBASAT		A	API/A	9960	2805
118545214	B		VCUB1		A	API/A	12261	2898
119545050	BEL		ARTHUR		A	API/A	12344	2908
112500002	BEL		OUFTI-1		N	PART-IIS		2831
117545382	BEL		OUFTI-2		A	API/A	12087	2880

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
114540261	BEL		PACE		A	API/A	9203	2786
114500074	BEL		QB50P		N	PART-IIS		2860
117500085	BEL		QB50_DIOD		N	PART-IIS		2867
117500082	BEL		QB50_DSC		N	PART-IIS		2867
117500039	BEL		QB50_ISS		N	PART-IIS		2896
118520139	BEL		SIMBA		C	CR/C	4773	2895
116545160	BEL		UNICORN-1		A	API/A	11896	2843
111500071	BLR		BKA		N	PART-IIS		2728
118500188	BUL		ENDURO SAT ONE		N	PART-IIS		2901
115520231	CAN		102		C	CR/C	3918	2899
114500168	CAN		ADS		N	PART-IIS		2872
119545142	CAN		ADS-M		A	API/A	12413	2906
117500002	CAN		ADSB-SAT		N	PART-IIS		2858
113540414	CAN		BRITE-CANADA		A	API/A	8704	2767
112520149	CAN		CANPOL		C	CR/C	3180	2863
113520282	CAN		CANPOL-2		C	CR/C	3474	2863
117520106	CAN		CANPOL-3		C	CR/C	4447	2870
116520421	CAN		CANSAT-LEO		C	CR/C	4332	2864
117500310	CAN		CANSAT-LEO-S		N	PART-IIS		2881
117545273	CAN		CANSAT-LEO-V		A	API/A	11973	2856
116545182	CAN		CANSAT-LEO-XKA		A	API/A	11908	2842
105500390	CAN		CANX-2		N	PART-IIS		2879
113540578	CAN		CANX-4-5		A	API/A	8713	2767
116545199	CAN		CANX-7		A	API/A	11921	2844
111500205	CAN		CASSIOPE-1A		N	PART-IIS		2770
112520490	CAN		COMMSTELLATION		C	CR/C	3313	2904
119545112	CAN		DESCENT		A	API/A	12388	2903
119520140	CAN		EV10		C	CR/C	5086	2907
115520156	CAN		EV9		C	CR/C	3852	2824
119545109	CAN		HERON MK II		A	API/A	12386	2902
108540431	CAN		JC2SAT		A	API/A	5274	2640
118520098	CAN		KELYPSIS		C	CR/C	4668	2888
114500014	CAN		M3MSAT		N	PART-IIS		2892
116520415	CAN		MAPLELEAF-1		C	CR/C	4322	2901
116520420	CAN		MULTUS		C	CR/C	4333	2864
113500077	CAN		NEOSSAT-1A		N	PART-IIS		2883
117545345	CAN		NORTHSTAR		A	API/A	12030	2863
103500016	CAN		RADARSAT-2C		N	PART-IIS		2905
119500057	CAN		RADARSAT-3C		N	PART-IIS		2900
112500019	CAN		SAPPHIRE		N	PART-IIS		2744
101500360	CAN		SCISAT-1		N	PART-IIS		2879
118520056	CAN		VGEO-1		C	CR/C	4700	2893
109500900	CHL		SSOT		N	PART-IIS		2714
115500103	CHL		SUCHAI		N	PART-IIS		2855
118500079	CHN		2M8M-SAT		N	PART-IIS		2901
119545008	CHN		5M-SAT		A	API/A	12304	2903
116545251	CHN		8S1		A	API/A	11969	2856

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117520339	CHN		ACONNECT		C	CR/C	4582	2902
119520033	CHN		ACONNECT-B		C	CR/C	4999	2901
117520340	CHN		ACONNECT-T		C	CR/C	4583	2902
117500003	CHN		AIS		N	PART-IIS		2901
118500110	CHN		AOBO		N	PART-IIS		2886
118545071	CHN		BF-1-ABC		A	API/A	12156	2884
105500389	CHN		BLMIT-1		N	PART-IIS		2607
118545106	CHN		BNU1		A	API/A	12176	2889
116545241	CHN		BY70-1		A	API/A	11950	2852
119520048	CHN		C-SAT-LEO		C	CR/C	5001	2901
115545040	CHN		CAS-3		A	API/A	10121	2810
118545206	CHN		CAS-5		A	API/A	12238	2898
119545130	CHN		CAS-7		A	API/A	12403	2905
116545252	CHN		CATON-1		A	API/A	11959	2854
111500094	CHN		CBERS-02C		N	PART-IIS		2720
119545009	CHN		CBERS-04A		A	API/A	12305	2903
102500234	CHN		CBERS-1		N	PART-IIS		2570
111500092	CHN		CBERS-2		N	PART-IIS		2720
111500093	CHN		CBERS-3		N	PART-IIS		2720
107500391	CHN		CE-1		N	PART-IIS		2646
118520162	CHN		CENTISPACE-1		C	CR/C	4801	2898
118520283	CHN		CENTISPACE-2		C	CR/C	4847	2886
117500318	CHN		CFOSAT-1		N	PART-IIS		2881
117545330	CHN		CMARS-1		A	API/A	12069	2878
103500420	CHN		COMPASS-H		N	PART-IIS		2596
118500146	CHN		COMPASS-IGSO		N	PART-IIS		2898
103500421	CHN		COMPASS-M		N	PART-IIS		2596
117500038	CHN		COMPASS-MEO		N	PART-IIS		2891
119545115	CHN		CSAR		A	API/A	12390	2903
117520183	CHN		DES-LEO		C	CR/C	4492	2873
119520122	CHN		DK-1		C	CR/C	5029	2904
118500005	CHN		DSLWP		N	PART-IIS		2885
118520057	CHN		FORTRAN		C	CR/C	4690	2890
117520316	CHN		FORTRAN-2		C	CR/C	4563	2881
118545193	CHN		FORTRAN-2-YZ		A	API/A	12217	2897
118545138	CHN		FORTRAN-C		A	API/A	12222	2894
118520001	CHN		FORTRAN-EN		C	CR/C	4664	2874
100500426	CHN		FY-1		N	PART-IIS		2709
107500440	CHN		FY-3		N	PART-IIS		2645
116500191	CHN		FY-3-A		N	PART-IIS		2887
113500033	CHN		GC-1		N	PART-IIS		2774
119545135	CHN		GC-10		A	API/A	12407	2905
113500090	CHN		GC-2		N	PART-IIS		2855
116500080	CHN		GC-3		N	PART-IIS		2855
119500239	CHN		GC-7		N	PART-IIS		2910
117520097	CHN		GC-8		C	CR/C	4440	2870
117545392	CHN		GC-9		A	API/A	12066	2869

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119520105	CHN		GRID		C	CR/C	5019	2902
119520032	CHN		GW		C	CR/C	4969	2898
119520120	CHN		GW-1		C	CR/C	5041	2905
118500061	CHN		HA-1		N	PART-IIS		2886
108501091	CHN		HJ-1-ABC		N	PART-IIS		2887
118545237	CHN		HJ-2-AB		A	API/A	12281	2900
119545134	CHN		HN-1		A	API/A	12406	2905
117545332	CHN		HT-1		A	API/A	12017	2862
116500266	CHN		HXMT		N	PART-IIS		2852
102500235	CHN		HY-1		N	PART-IIS		2570
119500206	CHN		HY-1CD		N	PART-IIS		2910
111500105	CHN		HY-2		N	PART-IIS		2790
119500205	CHN		HY-2N		N	PART-IIS		2909
119545015	CHN		JILIN-1GF03W-1		A	API/A	12312	2904
119545039	CHN		JILIN-1GF03W-2		A	API/A	12335	2907
119500005	CHN		JILIN-1GPW-1		N	PART-IIS		2897
119500088	CHN		JILIN-1GXW-1		N	PART-IIS		2906
117500181	CHN		JILIN-1SPW-1		N	PART-IIS		2901
118500102	CHN		JILIN-1SPW-2		N	PART-IIS		2888
117500001	CHN		JL-1		N	PART-IIS		2869
118500010	CHN		JUVENILE		N	PART-IIS		2885
118520329	CHN		JUVENILE-5C		C	CR/C	4877	2908
118520332	CHN		JUVENILE-OFO		C	CR/C	4879	2908
118545211	CHN		JZSG		A	API/A	12248	2898
119545060	CHN		KL-A		A	API/A	12354	2909
117520182	CHN		KS-2		C	CR/C	4493	2882
117545365	CHN		LONGSAT-1		A	API/A	12042	2865
119520156	CHN		LS-1		C	CR/C	5069	2906
117545331	CHN		LUNAR CTDRS-1		A	API/A	12019	2866
113500034	CHN		LUNAR LANDER		N	PART-IIS		2855
115545019	CHN		LUNAR ORBITER-A		A	API/A	9955	2804
115545020	CHN		LUNAR ORBITER-B		A	API/A	9956	2804
113500035	CHN		LUNAR ROVER		N	PART-IIS		2855
117545441	CHN		LUNAR S-SAT		A	API/A	12110	2877
115520227	CHN		MCSCS		C	CR/C	3915	2832
119500001	CHN		MN10-1		N	PART-IIS		2900
119545059	CHN		MN200		A	API/A	12353	2909
108500706	CHN		NUAA-1		N	PART-IIS		2752
118520053	CHN		OKSAT		C	CR/C	4695	2903
118500217	CHN		OKW-SAT-01		N	PART-IIS		2892
115545097	CHN		QB50-CN		A	API/A	11315	2826
119500141	CHN		QS1		N	PART-IIS		2903
118520143	CHN		QXSI-LOW-ORBITAL-EX-L		C	CR/C	4799	2898
114540703	CHN		SECM-1		A	API/A	9616	2798
112500178	CHN		SHENZHOU		N	PART-IIS		2749
118520180	CHN		SIGNSAT-NGSO		C	CR/C	4807	2898
112500156	CHN		SJ-9		N	PART-IIS		2850

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119545002	CHN		SKYWALKER		A	API/A	12300	2903
119520117	CHN		SMARTSAT-1		C	CR/C	5027	2904
119545125	CHN		SMILE-S		A	API/A	12400	2904
119545011	CHN		SNEC-NS-1		A	API/A	12307	2903
116545145	CHN		SPACEKEY-1		A	API/A	11840	2838
117500004	CHN		SPACEKEY-2		N	PART-IIS		2871
117520495	CHN		SPACEWAY		C	CR/C	4660	2907
116500237	CHN		SPPOSS-2-01		N	PART-IIS		2841
115500127	CHN		SPPOSS-3-01		N	PART-IIS		2821
116500235	CHN		SPPOSS-4-01		N	PART-IIS		2901
119545122	CHN		SPPOSS-6-01		A	API/A	12397	2904
119545058	CHN		SPPOSS-9-01		A	API/A	12352	2909
115545098	CHN		STAR OF AOXIANG		A	API/A	11316	2826
119500214	CHN		TAURUS-1		N	PART-IIS		2910
118520291	CHN		TFSTAR		C	CR/C	4870	2905
119545007	CHN		TIANGONG		A	API/A	12303	2903
118500274	CHN		TIANQI		N	PART-IIS		2895
119545168	CHN		TIANQIN-1		A	API/A	12432	2909
115500087	CHN		TIANWANG		N	PART-IIS		2890
118545115	CHN		TIANYAN		A	API/A	12200	2893
119500215	CHN		TIANZHI-01		N	PART-IIS		2910
117500184	CHN		TIANZHOU		N	PART-IIS		2874
115520228	CHN		TXIN		C	CR/C	3916	2832
119520011	CHN		TXIN-WB		C	CR/C	4958	2898
116545249	CHN		TY-1		A	API/A	11958	2854
118520213	CHN		TY1-06		C	CR/C	4830	2907
118500030	CHN		TY2		N	PART-IIS		2890
118520215	CHN		TY2D		C	CR/C	4832	2903
118520214	CHN		TY3-04		C	CR/C	4831	2903
118500031	CHN		TY4		N	PART-IIS		2891
118500032	CHN		TY6		N	PART-IIS		2891
119520157	CHN		WL-1		C	CR/C	5070	2906
119500006	CHN		WTI-01		N	PART-IIS		2896
119545177	CHN		X-STAR		A	API/A	12437	2910
116520105	CHN		XINGYUN		C	CR/C	4167	2855
118520216	CHN		XINGYUN-2		C	CR/C	4833	2904
109500242	CHN		XW-1		N	PART-IIS		2667
119545010	CHN		YX-1		A	API/A	12306	2903
118545199	CHN		Z-STAR		A	API/A	12231	2898
118520284	CHN		ZDWT-1		C	CR/C	4846	2886
116500117	CHN		ZH-1		N	PART-IIS		2842
118500122	CHN		ZHOBT-1		N	PART-IIS		2901
111500191	CHN		ZIYUAN-3		N	PART-IIS		2718
116500002	CHN		ZIYUAN-3-02		N	PART-IIS		2831
117500341	CHN		ZJ-1		N	PART-IIS		2883
117545397	CLM		FACSAT		A	API/A	12064	2869
117545294	CTR		IRAZU		A	API/A	11999	2861

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117545370	CYP		ANDROMEDA-A		A	API/A	9198	2866
118500039	CYP		KYPROS-NGSO-1		N	PART-IIS		2886
117545363	CYP		KYPROS-NGSO-2		A	API/A	12058	2868
117545364	CYP		KYPROS-NGSO-3		A	API/A	12059	2868
119520019	CYP		LCSC-NET		C	CR/C	5002	2897
116500176	CZE		LUCKY-7		N	PART-IIS		2841
101500300	D	GLS	GALILEO-NAV-2004		N	PART-IIS		2582
119500200	D		BEESAT		N	PART-IIS		2908
116500073	D		BEESAT-4		N	PART-IIS		2836
118545048	D		BEESAT-X		A	API/A	12147	2884
116500081	D		BIROS AMATEUR		N	PART-IIS		2835
117500150	D		COMPACTSAT		N	PART-IIS		2889
115520119	D		COURIER-3		C	CR/C	3843	2842
118545129	D		CUBEL		A	API/A	12212	2893
113540205	D		CUBESAT-FIRSTMOVE		A	API/A	8370	2766
113540204	D		CUBESAT-UWE		A	API/A	8369	2763
119500126	D		CUBESAT-UWE-4		N	PART-IIS		2903
114540071	D		ENMAP-1		A	API/A	9080	2779
119545041	D		ENMAP-2		A	API/A	12337	2907
116500076	D		FLYING LAPTOP		N	PART-IIS		2857
117545344	D		GOS D-STAR		A	API/A	12029	2897
104500168	D		GRACE		N	PART-IIS		2859
117500020	D		ICARUS		N	PART-IIS		2896
106500286	D		MAGNIFYING GLASS		N	PART-IIS		2889
118545195	D		MOVE 2B AMATEUR		A	API/A	12219	2897
116545130	D		MOVE-II AMATEUR		A	API/A	11831	2837
117500151	D		MOVE2		N	PART-IIS		2879
118545192	D		MOVE2B		A	API/A	12216	2897
116545209	D		NETSAT		A	API/A	11929	2904
119545036	D		QUBE		A	API/A	12331	2906
105500438	D		RAPIDEYE		N	PART-IIS		2637
115545007	D		S-NET		A	API/A	9943	2802
117500303	D		S-NET AMATEUR		N	PART-IIS		2879
118500224	D		S-NET1		N	PART-IIS		2894
116545143	D		SARAH		A	API/A	11841	2903
119545124	D		SOMP-TUD-R		A	API/A	12399	2904
118500202	D		SONATE		N	PART-IIS		2893
116500220	D		TECHNOSAT		N	PART-IIS		2855
116500221	D		TECHNOSAT AMATEUR		N	PART-IIS		2856
108501139	D		TERRASAR		N	PART-IIS		2857
111500037	D		TET-1		N	PART-IIS		2879
116500068	D		TET-X		N	PART-IIS		2900
118545121	D		TRSI		A	API/A	12214	2893
119500201	D		TUBSAT		N	PART-IIS		2908
118545114	D		UNICORN-2A		A	API/A	12191	2892
113540413	D		WREN		A	API/A	8717	2768
116500034	DNK		AAUSAT4		N	PART-IIS		2832

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119500019	DNK		DELPHINI-1		N	PART-IIS		2896
114540099	DNK		DTUSAT-2		A	API/A	9082	2779
114540101	DNK		GOMX-1		A	API/A	9046	2781
114540207	DNK		GOMX-2		A	API/A	9200	2784
114540154	DNK		ROMIT-1		A	API/A	9099	2781
118545112	DNK		STARLING		A	API/A	12190	2891
117500205	DNK		ULLORIAQ		N	PART-IIS		2910
114540401	E		3CAT1		A	API/A	9506	2789
115545093	E		3CAT2		A	API/A	11312	2832
118545042	E		3CAT4		A	API/A	12144	2881
118520281	E		AISTECH		C	CR/C	4850	2909
118500108	E		AISTECHSAT-2		N	PART-IIS		2898
108500678	E		DEIMOS-1		N	PART-IIS		2658
113540649	E		DEIMOS-2		A	API/A	8847	2884
119545024	E		FOSSASAT-1		A	API/A	12319	2905
116545156	E		INGENIO_R		A	API/A	11891	2839
118545046	E		LUME-1		A	API/A	12146	2884
94500335	E		MINISAT-1		N	PART-IIS		2291
105500142	E		NANOSAT-1		N	PART-IIS		2655
112500225	E		OPTOS		N	PART-IIS		2764
115500002	E		PAZ		N	PART-IIS		2902
117500262	E		PAZ_R		N	PART-IIS		2877
114540258	E		POLITECH-1		A	API/A	9257	2786
119545137	E		UPMSAT-2		A	API/A	12408	2905
118545032	EGY		E-STAR-A		A	API/A	12119	2878
117545453	EGY		EGY-EX1		A	API/A	12109	2877
105500097	EGY		MISRSAT-1		N	PART-IIS		2603
118500216	EGY		NARSSCUBE		N	PART-IIS		2900
118500121	EST		TTU100		N	PART-IIS		2887
119545003	EST		TTU101		A	API/A	12301	2903
119545072	ETH		ETRSS-1		A	API/A	12362	2909
115500049	F	ESA	ACES		N	PART-IIS		2831
113500002	F	ESA	ADM-AEOLUS		N	PART-IIS		2881
105500005	F	ESA	ATV		N	PART-IIS		2700
117500012	F	ESA	BC-MPO		N	PART-IIS		2887
115500168	F	ESA	CHEOPS		N	PART-IIS		2823
95500126	F	ESA	CLUSTER 1-5		N	PART-IIS		2888
108500003	F	ESA	CRYOSAT-2		N	PART-IIS		2881
118500009	F	ESA	EARTHCARE		N	PART-IIS		2893
118500189	F	ESA	ESEO		N	PART-IIS		2892
119545123	F	ESA	EUCLID		A	API/A	12398	2904
116500056	F	ESA	EXOMARS SCC		N	PART-IIS		2856
115500010	F	ESA	EXOMARS TGO		N	PART-IIS		2818
111500196	F	ESA	GAIA		N	PART-IIS		2766
99500055	F	ESA	INTEGRAL		N	PART-IIS		2888
101500521	F	ESA	MARS-EXPRESS		N	PART-IIS		2888
100500306	F	ESA	METOP		N	PART-IIS		2882

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116500020	F	ESA	OPS-SAT		N	PART-IIS		2850
99500101	F	ESA	PROBA		N	PART-IIS		2888
105500613	F	ESA	PROBA-2		N	PART-IIS		2888
116500057	F	ESA	PROBA-3		N	PART-IIS		2844
111500020	F	ESA	PROBA-V		N	PART-IIS		2747
111500003	F	ESA	SENTINEL-1		N	PART-IIS		2856
111500004	F	ESA	SENTINEL-2		N	PART-IIS		2802
111500005	F	ESA	SENTINEL-3		N	PART-IIS		2817
113500053	F	ESA	SENTINEL-5P		N	PART-IIS		2859
105500083	F	ESA	SMOS		N	PART-IIS		2881
95500127	F	ESA	SOHO		N	PART-IIS		2574
117500022	F	ESA	SOLAR ORBITER		N	PART-IIS		2888
110500003	F	ESA	SWARM		N	PART-IIS		2760
97500403	F	ESA	XMM		N	PART-IIS		2894
119500116	F	GLS	GALILEO-2		N	PART-IIS		2909
99500144	F	GLS	MSATNAV		N	PART-IIS		2588
100500321	F	GLS	MSATNAV-2		N	PART-IIS		2588
101500014	F	GLS	MSATNAV-3		N	PART-IIS		2588
103500093	F	GLS	MSATNAV-4		N	PART-IIS		2588
118520135	F		A4MSSNG		C	CR/C	4771	2895
118545086	F		A4NG		A	API/A	12161	2910
118520317	F		A4NG-C		C	CR/C	4878	2908
119545018	F		ANGELS-F		A	API/A	12327	2904
117520107	F		ARGOS-4A		C	CR/C	4448	2870
96500523	F		ARGOS-B		N	PART-IIS		2604
108500601	F		ARGOS-SARAL		N	PART-IIS		2789
115520048	F		AST-NG-C-1		C	CR/C	3840	2832
115520171	F		AST-NG-C-2		C	CR/C	3867	2827
116520228	F		AST-NG-C-3		C	CR/C	4149	2852
117520372	F		AST-NG-C-4		C	CR/C	4587	2892
116500054	F		AST-NG-NC-1		N	PART-IIS		2885
114540275	F		AST-NG-NC-BF868		A	API/A	9258	2786
117545323	F		AST-NG-NC-CL1		A	API/A	12011	2862
117545324	F		AST-NG-NC-CL2		A	API/A	12012	2862
117545325	F		AST-NG-NC-CL3		A	API/A	12013	2862
117545326	F		AST-NG-NC-CL4		A	API/A	12014	2862
116545159	F		AST-NG-NC-CS		A	API/A	11895	2839
116545155	F		AST-NG-NC-ES		A	API/A	11890	2839
116545174	F		AST-NG-NC-GI		A	API/A	11903	2841
116545153	F		AST-NG-NC-GL		A	API/A	11888	2839
116545154	F		AST-NG-NC-GS		A	API/A	11889	2839
116545193	F		AST-NG-NC-IS		A	API/A	11918	2844
116545198	F		AST-NG-NC-QV		A	API/A	11923	2845
109500282	F		ASTROTERRA		N	PART-IIS		2763
114500136	F		ASV		N	PART-IIS		2812
118545116	F		BRONET		A	API/A	12196	2891
118500092	F		CELESTA		N	PART-IIS		2895

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117500049	F		CERES		N	PART-IIS		2866
115500096	F		CSO		N	PART-IIS		2815
100500052	F		DORIS-2		N	PART-IIS		2588
117520487	F		EB-SAT-LEO-1		C	CR/C	4657	2888
117545437	F		EB-SAT-LEO-1A		A	API/A	12106	2876
117520492	F		EB-SAT-LEO-1B		C	CR/C	4656	2888
117500152	F		ELISA		N	PART-IIS		2872
115520085	F		ES-SAT-2		C	CR/C	3841	2866
101500326	F		ESSAIM		N	PART-IIS		2549
119500202	F		EYESAT		N	PART-IIS		2908
119520174	F		F-SAT-NG-10		C	CR/C	5088	2907
116545122	F		F-SAT-NG-2		A	API/A	11846	2838
116545123	F		F-SAT-NG-3		A	API/A	11845	2838
116545124	F		F-SAT-NG-4		A	API/A	11844	2838
116545125	F		F-SAT-NG-5		A	API/A	11843	2838
117545313	F		F-SAT-NG-6		A	API/A	12005	2862
118545094	F		F-SAT-NG-7		A	API/A	12173	2889
118545213	F		F-SAT-NG-8		A	API/A	12260	2898
119520121	F		F-SAT-NG-9		C	CR/C	5028	2904
116500249	F		HIBLEO-X		N	PART-IIS		2890
118545235	F		IGOSAT		A	API/A	12279	2900
115500088	F		ISLWE-1		N	PART-IIS		2813
109500002	F		JASON2		N	PART-IIS		2671
112500130	F		JASON3		N	PART-IIS		2888
115545074	F		JFDSAT-LEO-A-C		A	API/A	11126	2843
117500198	F		JFDSAT-LEO-A-QV		N	PART-IIS		2877
115545075	F		JFDSAT-LEO-B-C		A	API/A	11127	2843
117500200	F		JFDSAT-LEO-B-QV		N	PART-IIS		2877
115545076	F		JFDSAT-LEO-C-C		A	API/A	11128	2843
117500202	F		JFDSAT-LEO-C-QV		N	PART-IIS		2877
115545077	F		JFDSAT-MEO-D-C		A	API/A	11129	2843
117500204	F		JFDSAT-MEO-D-QV		N	PART-IIS		2877
114520272	F		MCSAT LEO		C	CR/C	3727	2871
114520267	F		MCSAT-2 HEO		C	CR/C	3728	2891
114520286	F		MCSAT-2 HEO-1		C	CR/C	3724	2909
114520280	F		MCSAT-2 LEO-1		C	CR/C	3722	2884
114520281	F		MCSAT-2 LEO-2		C	CR/C	3723	2884
114520282	F		MCSAT-2 MEO-1		C	CR/C	3725	2898
114520284	F		MCSAT-2 MEO-2		C	CR/C	3726	2884
114500002	F		MICROSCOPE		N	PART-IIS		2823
118500093	F		MT-CUBE		N	PART-IIS		2895
112500047	F		PLEIADES		N	PART-IIS		2732
105500522	F		PROTEUS-OBS		N	PART-IIS		2632
96500559	F		PROTEUS-TPFO		N	PART-IIS		2588
116500058	F		ROBUSTA-1B		N	PART-IIS		2849
93500165	F		SPOT-2		N	PART-IIS		2822
93500166	F		SPOT-3		N	PART-IIS		2575

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
117545288	F		STRIPE		A	API/A	11982	2858
117500324	F		SWOT		N	PART-IIS		2882
118545068	F		TARANIS-A		A	API/A	12155	2884
117545287	F		VALVE		A	API/A	11981	2858
117500206	F		VHR2020		N	PART-IIS		2874
117520136	F		ZIP		C	CR/C	4463	2870
114500032	FIN		AALTO-1		N	PART-IIS		2788
119545014	FIN		FORESAIL-1		A	API/A	12310	2904
119545020	FIN		ICEYE		A	API/A	12315	2905
117500115	FIN		ICEYE-POC		N	PART-IIS		2901
119545117	FIN		NCP-1		A	API/A	12392	2903
117500320	FIN		REAKTOR HELLO WORLD		N	PART-IIS		2881
119545141	FIN		SUNSTORM		A	API/A	12412	2906
117500220	FIN		SUOMI 100		N	PART-IIS		2874
118545100	FIN		W-CUBE		A	API/A	12177	2889
119545025	G		BEESAT-OC-LS		A	API/A	12320	2905
119500081	G		CARBONITE-2		N	PART-IIS		2900
118545202	G		CATAPULT-IOD		A	API/A	12234	2898
118520335	G		CATAPULT-IOD-UP		C	CR/C	4883	2908
119545105	G		CDCSAT-1		A	API/A	12382	2902
102500178	G		DMC1		N	PART-IIS		2740
115500189	G		DMC3		N	PART-IIS		2831
118545134	G		DT1		A	API/A	12311	2899
117545429	G		EDEN		A	API/A	12098	2875
119545052	G		EMPYREAL-B		A	API/A	12346	2908
118545065	G		EN-A		A	API/A	12170	2889
118545238	G		EN-A2		A	API/A	12282	2900
118520099	G		EN-C		C	CR/C	4736	2895
119545106	G		FARADAY-1		A	API/A	12383	2908
107500097	G		ICO-P		N	PART-IIS		2712
119520135	G		JUKEBOX		C	CR/C	5052	2906
113520120	G		L5		C	CR/C	3413	2910
118520204	G		METHERA-A		C	CR/C	4822	2903
118545127	G		METHERA-B		A	API/A	12211	2893
114540576	G		NOVASAR-S1		A	API/A	9514	2909
114500125	G		O3B-A		N	PART-IIS		2841
116500032	G		O3B-B		N	PART-IIS		2897
115520064	G		O3B-C		C	CR/C	3845	2869
115545031	G		O3B-D		A	API/A	9961	2805
117545384	G		REMDEB		A	API/A	12049	2866
119545098	G		SOAR		A	API/A	12377	2904
117545426	G		SPACENET-IOM		A	API/A	12096	2875
116545201	G		SSG-3D		A	API/A	11922	2852
116520381	G		SSG-CSL		C	CR/C	4269	2892
112541112	G		STRAND1		A	API/A	8048	2747
115500028	G		TECHDEMOSAT-1		N	PART-IIS		2816
117520160	G		THEME		C	CR/C	4478	2871

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
116520404	G		THEO		C	CR/C	4301	2901
117545289	G		VANGUARD		A	API/A	11983	2858
117545290	G		VERA		A	API/A	11984	2858
117545398	G		VESTA		A	API/A	12060	2868
117545371	GHA		GHANASAT-1		A	API/A	12162	2886
118545136	GTM		QUETZAL-1		A	API/A	12215	2893
118545227	HNG		ATL-1		A	API/A	12275	2899
109540291	HNG		MASAT-1		A	API/A	5585	2656
116500209	HNG		SMOG-1		N	PART-IIS		2856
118545226	HNG		SMOG-P		A	API/A	12273	2899
107500088	HOL		DELFI-C3		N	PART-IIS		2874
116520386	HOL		DREBBELSAT		C	CR/C	4336	2900
116545239	HOL		DREBBELSAT-1		A	API/A	11946	2852
113500183	HOL		FUNCUBE-1		N	PART-IIS		2865
116520407	HOL		HOL-MG-A006		C	CR/C	4331	2864
116545179	HOL		HOL-MG-ANS-001		A	API/A	11914	2842
118500004	HOL		HOL-MG-ANS-002		N	PART-IIS		2884
114540141	HOL		IMDC		A	API/A	9094	2781
117500024	HOL		IPS		N	PART-IIS		2857
113500182	HOL		TRITON1		N	PART-IIS		2865
103500082	I	GLS	GALILEO-M-NAVSTAR		N	PART-IIS		2639
106500322	I		AGILE		N	PART-IIS		2830
118545132	I		ARGOMOON		A	API/A	12246	2896
104500001	I		COSMO SKYMED		N	PART-IIS		2647
117520001	I		COSMOSKYMED-2		C	CR/C	4421	2905
114540750	I		D-SAT		A	API/A	9631	2799
114540756	I		E-STAR2		A	API/A	9667	2821
115545072	I		EAGLET		A	API/A	10954	2854
117545277	I		FEES		A	API/A	11974	2856
118545108	I		INORBIT NOW MK01		A	API/A	12188	2891
113500107	I		ISS - ARISS		N	PART-IIS		2779
119545013	I		LEDSAT		A	API/A	12309	2903
114540148	I		MAX VALIER SAT		A	API/A	9100	2857
116545129	I		OPTSAT		A	API/A	11753	2833
117545350	I		PRISMA-I1		A	API/A	12034	2864
116500139	I		TU-POD		N	PART-IIS		2837
118545020	I		UHETSAT		A	API/A	12131	2880
115500029	I		UNISAT-6		N	PART-IIS		2905
90504397	IND		ASLV		N			
119500099	IND		ASTROSAT		N	PART-IIS		2900
117545339	IND		CARTOSAT-2S		A	API/A	12025	2863
109500241	IND		CHANDRAYAAN-1		N	PART-IIS		2675
116545146	IND		DSM1		A	API/A	11835	2838
117545413	IND		HYSIS		A	API/A	12080	2872
117545257	IND		INS-1		A	API/A	11964	2855
112500274	IND		INSAT-NAV-A-GS		N	PART-IIS		2744
117520274	IND		INSAT-NAV-GS17		C	CR/C	4544	2880

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
90504414	IND		IRS-1B		N			
99500030	IND		IRS-1C		N	PART-IIS		2446
99500029	IND		IRS-1E		N	PART-IIS		2446
111500233	IND		IRS-CARTOSAT-2		N	PART-IIS		2720
114540391	IND		IRS-NEMO-AM		A	API/A	9331	2787
116545197	IND		IRS-NG14		A	API/A	11920	2844
99500139	IND		IRS-P4		N	PART-IIS		2516
111500232	IND		IRS-P5		N	PART-IIS		2721
116545212	IND		IRS-SCATSAT-1		A	API/A	11936	2849
116545213	IND		IUSAT-H1		A	API/A	11937	2849
117545340	IND		IUSAT-H2		A	API/A	12026	2863
118520100	IND		LMI		C	CR/C	4737	2895
118500088	IND		MEGHA-TROPIQUES		N	PART-IIS		2888
118545234	IND		MICROSAT-R		A	API/A	12278	2900
117545374	IND		MICROSAT-TD-1		A	API/A	12047	2866
114500018	IND		MMI		N	PART-IIS		2775
118545091	IND		NISAR-IND		A	API/A	12172	2889
116500200	IND		OCEANSAT-2		N	PART-IIS		2845
93500010	IND		PSLV		N	PART-IIS		2148
117500240	IND		RESOURCESAT		N	PART-IIS		2876
119500073	IND		RISAT		N	PART-IIS		2897
119545068	IND		RISAT-2B		A	API/A	12361	2909
119545129	IND		RISAT-2BR		A	API/A	12402	2910
90504631	IND		RS-D2		N			
113540611	IND		SARAL		A	API/A	8718	2772
90504633	IND		SEO BHASKARA-1		N			
90504634	IND		SEO BHASKARA-2		N			
119545116	IND		SNI		A	API/A	12391	2903
87500010	IND		SROSS-1		N	PART-IIS		1944
94500357	IND		SROSS-3		N	PART-IIS		2223
113500200	IND		TWSAT		N	PART-IIS		2792
115500111	INS		LAPAN-A3-SAT		N	PART-IIS		2840
117545375	INS		LAPAN-A4-SAT		A	API/A	12091	2874
105500657	INS		LAPAN-TUBSAT		N	PART-IIS		2802
109500036	INS		LAPANSAT		N	PART-IIS		2843
118545187	INS		NUSANTARA-SS1-A		A	API/A	12205	2896
118545098	IRL		EIRSAT-1		A	API/A	12158	2885
117500194	IRN		AUTSAT		N	PART-IIS		2901
118500157	IRN		DOUSTI		N	PART-IIS		2892
119500104	IRN		IRN-ERS-1		N	PART-IIS		2910
115500086	IRN		KHALIJEFARS		N	PART-IIS		2813
115500169	IRN		KIYASAT		N	PART-IIS		2826
101500402	IRN		MESBAH		N	PART-IIS		2632
117500193	IRN		NAHID		N	PART-IIS		2875
108540404	IRN		OMID		A	API/A	5261	2647
114540176	IRN		TOLU1-2		A	API/A	9127	2783
118545013	ISR		CMTRL		A	API/A	12137	2902

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
114540098	ISR		DUCHIFAT1		A	API/A	9041	2778
118545097	ISR		DUCHIFAT3		A	API/A	12181	2889
100500371	ISR		EROS		N	PART-IIS		2824
117520318	ISR		NSL-1		C	CR/C	4567	2901
117545400	ISR		NSL-2		A	API/A	12061	2868
118545024	ISR		SAMSON-1		A	API/A	12132	2880
118520084	ISR		SAMSON-2		C	CR/C	4723	2895
116545256	ISR		SPACEIL		A	API/A	11963	2868
117500087	ISR		VENUS		N	PART-IIS		2880
107500101	J		ALOS		N	PART-IIS		2627
113500030	J		ALOS-2		N	PART-IIS		2808
119520073	J		ALOS-4		C	CR/C	5003	2902
110500173	J		ALOSSAR		N	PART-IIS		2694
116545164	J		AOBA-VELOXIII		A	API/A	11898	2839
117545258	J		AOS		A	API/A	11942	2856
113540001	J		ARTSAT1		A	API/A	8302	2755
112500154	J		ASNARO		N	PART-IIS		2830
118500012	J		ASNARO-2		N	PART-IIS		2887
100500051	J		ASTRO-E		N	PART-IIS		2853
115500180	J		ASTRO-H		N	PART-IIS		2826
118545088	J		AUTCUBE2		A	API/A	12163	2886
118545190	J		BC-MMO		A	API/A	12213	2896
116545238	J		BIRDS		A	API/A	11960	2854
118545034	J		BIRDS-2		A	API/A	12140	2881
118545241	J		BIRDS-3		A	API/A	12285	2901
115500190	J		CE-SAT		N	PART-IIS		2859
118545003	J		CE-SAT-B		A	API/A	12099	2878
115545084	J		CHUBUSAT-2-3		A	API/A	11257	2825
110500109	J		CUTE-I		N	PART-IIS		2693
118545147	J		DREAME SAT 01		A	API/A	12244	2895
116545165	J		ELSA-D		A	API/A	11899	2907
117545295	J		EQUULEUS		A	API/A	11990	2858
116500011	J		ERG		N	PART-IIS		2838
90504408	J		EXOS-D		N	PART-IIS		2643
119545118	J		FUT-SAT		A	API/A	12393	2903
117500054	J		GCOM-C1		N	PART-IIS		2868
112500017	J		GCOM-W1		N	PART-IIS		2724
92500295	J		GEOTAIL		N	PART-IIS		2616
109500024	J		GOSAT		N	PART-IIS		2686
116545228	J		GRUS		A	API/A	11947	2856
119545040	J		HAKUTO-R-L1		A	API/A	12336	2907
114500084	J		HAYABUSA2		N	PART-IIS		2804
115500194	J		HAYABUSA2SN		N	PART-IIS		2834
113500145	J		HODOYOSHI		N	PART-IIS		2891
114500027	J		HODOYOSHI-3-4		N	PART-IIS		2897
115545085	J		HORYU4		A	API/A	11258	2825
117545399	J		HSKSAT		A	API/A	12062	2869

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
109500579	J		HTV-R		N	PART-IIS		2699
119545108	J		HTV-X-GN		A	API/A	12385	2902
119545047	J		HTV/JEM-MISSION		A	API/A	12341	2907
115545089	J		IDEA		A	API/A	11255	2865
109500846	J		IKAROS		N	PART-IIS		2856
105500237	J		INDEX-1		N	PART-IIS		2607
109500008	J		ISS-JEM-ICS-R		N	PART-IIS		2823
109500580	J		ISS-PROX-R		N	PART-IIS		2679
113500188	J		ITF-1		N	PART-IIS		2894
96500425	J		JAS-2		N	PART-IIS		2835
117545275	J		JCUBES-A		A	API/A	11948	2858
108540587	J		JOSHO		A	API/A	5349	2664
107500169	J		MUSES-C		N	PART-IIS		2653
104500548	J		N-SAT-HEO2		N	PART-IIS		2603
113540202	J		NANO-JASMINE1		A	API/A	8503	2764
118545143	J		NEXUS		A	API/A	12227	2897
118545012	J		OMOTENASHI		A	API/A	12120	2899
119545055	J		OPUSAT-II		A	API/A	12349	2908
118545104	J		ORIGAMISAT-1		A	API/A	12185	2890
109500914	J		PLANET-C		N	PART-IIS		2697
109500094	J		PRISM1		N	PART-IIS		2891
111500274	J		PRISM2		N	PART-IIS		2883
114540140	J		PROCYON		A	API/A	9095	2780
118545018	J		PROITERES2		A	API/A	12126	2879
113500123	J		QSAT		N	PART-IIS		2840
116500181	J		QZSS		N	PART-IIS		2851
110500199	J		QZSS-1		N	PART-IIS		2724
118520073	J		QZSS-A		C	CR/C	4720	2901
113540035	J		RISESAT		A	API/A	8276	2754
118545087	J		RSP-00		A	API/A	12164	2887
118545255	J		RSP-01		A	API/A	12297	2901
110500206	J		SERVIS-2		N	PART-IIS		2697
114540695	J		SHIN-EN2		A	API/A	9610	2797
117500042	J		SLATS		N	PART-IIS		2888
114500052	J		SOCRATES		N	PART-IIS		2781
106500327	J		SOLAR-B		N	PART-IIS		2753
113500010	J		SPRINT-A		N	PART-IIS		2757
109500014	J		SPRITE-SAT		N	PART-IIS		2649
109500097	J		STARS		N	PART-IIS		2898
117545387	J		STARS-AO		A	API/A	12053	2868
116545166	J		STARS-C		A	API/A	11913	2842
117545415	J		STARS-ME		A	API/A	12125	2879
119545107	J		STRIX		A	API/A	12384	2902
113540002	J		TEIKYOSAT-3		A	API/A	8303	2755
118545089	J		TEN-KOH		A	API/A	12165	2887
116545136	J		TRICOM-1		A	API/A	11838	2838
118545191	J		TRICOMS		A	API/A	12210	2896

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
113500156	J		TSUBAME		N	PART-IIS		2860
119500157	J		UNIFORM-1		N	PART-IIS		2906
116545102	J		WASEDA-SAT3		A	API/A	11434	2827
111540792	J		WE WISH		A	API/A	7183	2735
107500006	J		WEOS-R		N	PART-IIS		2610
108500625	J		XI-IV		N	PART-IIS		2635
108500626	J		XI-V		N	PART-IIS		2635
119545158	J		Z-SAT		A	API/A	12425	2908
117545314	JOR		JY1SAT		A	API/A	12007	2862
118500147	KAZ		AL-FARABI-2		N	PART-IIS		2896
114500011	KAZ		DZZ-HR		N	PART-IIS		2784
113500147	KAZ		DZZ-MR		N	PART-IIS		2784
117500309	KAZ		KAZSCISAT-1		N	PART-IIS		2896
117500308	KAZ		KAZSTSAT		N	PART-IIS		2895
117500158	KEN		1KUNS-PF		N	PART-IIS		2881
116545133	KOR		CANYVAL		A	API/A	11756	2834
119545034	KOR		CANYVAL-C		A	API/A	12329	2906
118500083	KOR		CAS500-1		N	PART-IIS		2885
119545019	KOR		CAS500-2		A	API/A	12314	2904
116545131	KOR		CNUSAIL-1		A	API/A	11832	2837
118500229	KOR		K2SAT		N	PART-IIS		2893
116545132	KOR		KAUSAT-5		A	API/A	11834	2837
112500193	KOR		KHUSAT-01		N	PART-IIS		2743
100500017	KOR		KOMPSAT-1		N	PART-IIS		2773
106500084	KOR		KOMPSAT-2		N	PART-IIS		2833
111500044	KOR		KOMPSAT-3		N	PART-IIS		2789
113500041	KOR		KOMPSAT-3A		N	PART-IIS		2896
110500283	KOR		KOMPSAT-5		N	PART-IIS		2789
118500279	KOR		KOMPSAT-6		N	PART-IIS		2900
119545033	KOR		KOMPSAT-7		A	API/A	12328	2906
118545110	KOR		KPLO		A	API/A	12189	2892
118500135	KOR		NEXTSAT-1		N	PART-IIS		2894
116545169	KOR		QB50_KR01		A	API/A	11900	2840
115545090	KOR		SIGMA		A	API/A	11311	2826
119545140	KOR		SNIPE		A	API/A	12411	2906
119500003	KOR		SNUGLITE		N	PART-IIS		2905
116545172	KOR		SNUSAT-1		A	API/A	11902	2840
117545285	KOR		SNUSAT-1B		A	API/A	11979	2857
119500002	KOR		SNUSAT-2		N	PART-IIS		2901
115545052	KOR		STEP-1		A	API/A	10640	2813
108501015	KOR		STSAT-2		N	PART-IIS		2853
113500189	KOR		STSAT-3		N	PART-IIS		2892
119500004	KOR		VISIONCUBE		N	PART-IIS		2905
114520266	LIE		3ECOM-1		C	CR/C	3738	2907
114540399	LIE		3ECOM-2		A	API/A	9498	2788
118500195	LIE		3ECOM-3		N	PART-IIS		2895
118545200	LIE		3ECOM-TTC		A	API/A	12232	2898

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
114500045	LTU		LITSAT-1		N	PART-IIS		2901
113500185	LTU		LITUANICASAT-1		N	PART-IIS		2768
116500062	LTU		LITUANICASAT-2		N	PART-IIS		2835
119545166	LTU		LTU-DLX1		A	API/A	12430	2909
119545165	LTU		LTU-UHF1		A	API/A	12429	2909
119500086	LTU		M6P		N	PART-IIS		2900
116520069	LUX		CLEOSAT		C	CR/C	4051	2842
119545182	LUX		JARVIS		A	API/A	12438	2910
119545082	LUX		KSM1		A	API/A	12365	2910
118520040	LUX		LUX-N1-2		C	CR/C	4684	2874
118545240	LUX		LUX-N1-3		A	API/A	12284	2900
115545039	LUX		LUX-NGSO-EESS		A	API/A	10071	2809
117545428	LUX		LUX-NGSO-G2-1		A	API/A	12095	2875
118520039	LUX		MINAS		C	CR/C	4683	2888
119545029	LUX		TRITON-X-LIS		A	API/A	12324	2905
115545064	LVA		VENTA-2		A	API/A	10722	2817
118545236	MAU		MIR-SAT1		A	API/A	12280	2900
119545144	MDA		TUMNANOSAT		A	API/A	12415	2907
118545128	MEX		AZTECHSAT-1		A	API/A	12221	2897
117500210	MEX		PAINANI		N	PART-IIS		2875
118520071	MEX		THUMBSAT-1		C	CR/C	4713	2891
115545054	MEX		ULISES 1		A	API/A	10557	2811
115545025	MLA		ATSBSMALLSAT		A	API/A	10614	2812
119500070	MLA		INNOSAT 2		N	PART-IIS		2898
115500076	MRC		MOHAMMED VI - AB		N	PART-IIS		2866
112540925	NIG		NIGERIASAT-2		A	API/A	7928	2740
112540926	NIG		NIGERIASAT-X		A	API/A	7929	2740
116500098	NOR		ARE-2		N	PART-IIS		2890
117500129	NOR		ARE-3		N	PART-IIS		2893
114520216	NOR		ASK-1		C	CR/C	3675	2871
117545315	NOR		HEIMDALL-1		A	API/A	12008	2880
118545040	NOR		HEIMDALL-1-UHF		A	API/A	12142	2881
119545110	NOR		HYPSO		A	API/A	12387	2902
116500198	NOR		NORSAT-1		N	PART-IIS		2872
116500199	NOR		NORSAT-2		N	PART-IIS		2889
118545144	NOR		NORSAT-30		A	API/A	12230	2897
115520104	NOR		NORSAT-H1		C	CR/C	3864	2899
115545032	NOR		NUTS		A	API/A	9962	2805
116520232	NOR		SE-6-HEO-1		C	CR/C	4194	2900
116520233	NOR		SE-6-HEO-1A		C	CR/C	4195	2900
118520292	NOR		SLEIPNER-1		C	CR/C	5051	2906
119545044	NOR		SLEIPNER-1A		A	API/A	12339	2908
114520273	NOR		STEAM-1		C	CR/C	3739	2884
114520274	NOR		STEAM-2		C	CR/C	3740	2884
117520027	NOR		STEAM-2B		C	CR/C	4422	2868
117545309	NOR		TYVAK-0022		A	API/A	12000	2861
117545310	NOR		TYVAK-0040		A	API/A	12001	2861

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
117545311	NOR		TYVAK-0072		A	API/A	12002	2861
117545312	NOR		TYVAK-0082		A	API/A	12003	2890
118545051	NOR		TYVAK-0092		A	API/A	12150	2904
119545119	NOR		TYVAK-0129		A	API/A	12394	2903
119545169	NOR		TYVAK-0130		A	API/A	12433	2909
119545170	NOR		TYVAK-1005		A	API/A	12434	2909
118545052	NOR		TYVAK-1012		A	API/A	12152	2888
119545131	NOR		TYVAK-182A		A	API/A	12404	2905
116520387	NZL		APOG		C	CR/C	4287	2901
118545239	NZL		APSS		A	API/A	12283	2908
116545227	NZL		ELECTRONNZ		A	API/A	11955	2876
119545043	NZL		ELECTRONNZ-2		A	API/A	12338	2908
119545167	NZL		ELECTRONNZ-3		A	API/A	12431	2909
112540845	NZL		KIWISAT		A	API/A	7925	2739
112540921	PAK		ICUBE-1		A	API/A	7920	2739
118500060	PAK		PAKTES-1		N	PART-IIS		2885
114540582	PAK		PAKTES-1B		A	API/A	9517	2791
115545001	PAK		PNSS-1		A	API/A	9832	2801
118500042	PAK		PRSS-O1R		N	PART-IIS		2885
116500156	PHL		PHL-MICROSAT		N	PART-IIS		2845
118545101	PHL		PHL-MICROSAT2		A	API/A	12186	2891
119520086	PNG		M5L2SAT		C	CR/C	5023	2904
118520082	PNG		MICRONSAT		C	CR/C	4722	2909
113500150	POL		BRITE-PL		N	PART-IIS		2783
118545177	POL		KRAKSAT		A	API/A	12250	2896
116545222	POL		PW-SAT2		A	API/A	11939	2866
119545138	POL		REC		A	API/A	12409	2906
118545122	POL		SWIATOWID		A	API/A	12199	2903
118545176	POL		SWIATOWID 2		A	API/A	12262	2896
119500105	POR		ISTSAT-1		N	PART-IIS		2901
117500122	PRU		PERU-SAT01		N	PART-IIS		2871
111540903	ROU		GOLIAT		A	API/A	7230	2726
116520419	RUS	IK	IK-NGSO-A10K-1		C	CR/C	4337	2901
117520071	RUS	IK	IK-NGSO-A10K-2		C	CR/C	4429	2869
90504874	RUS	IK	MOLNIA-3		N			
115500043	RUS		ARCTICA-M		N	PART-IIS		2871
117545378	RUS		AURIGA		A	API/A	12048	2866
96500536	RUS		COMPARUS-C		N	PART-IIS		2390
96500535	RUS		COMPARUS-E		N	PART-IIS		2385
111500198	RUS		DTRS-ISS		N	PART-IIS		2815
114500033	RUS		DX1		N	PART-IIS		2793
119520049	RUS		EXPRESS-RB		C	CR/C	5000	2901
94500133	RUS		GEO-IK-2		N	PART-IIS		2900
90504410	RUS		GLONASS		N			
97500304	RUS		GLONASS-M		N	PART-IIS		2901
118500003	RUS		GLORES		N	PART-IIS		2885
101500568	RUS		GONETS		N	PART-IIS		2534

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
108500573	RUS		GONETS-M		N	PART-IIS		2688
110500266	RUS		KANOPUS-V		N	PART-IIS		2896
90504426	RUS		KOSPAS		N	PART-IIS		2688
113500173	RUS		LUNA-RESURS		N	PART-IIS		2763
98500013	RUS		METEOR-3M		N	PART-IIS		2652
114540136	RUS		MINI-RSA		A	API/A	9088	2780
90504431	RUS		MOLNIA-1		N			
90504432	RUS		MOLNIA-2		N			
110500001	RUS		PHOBOS-GRUNT		N			2828
114500025	RUS		POTOK-ISS		N	PART-IIS		2894
117520488	RUS		PROGNOZ-N		C	CR/C	4659	2888
90504628	RUS		RADIO-M		N			
108500004	RUS		RESURS-DK1		N	PART-IIS		2896
115545083	RUS		RLB		A	API/A	10952	2910
90504630	RUS		RS		N			
111500091	RUS		SELENA		N	PART-IIS		2721
116520109	RUS		SKY-F		C	CR/C	4085	2899
107540104	RUS		SMOTR		A	API/A	4556	2865
106500006	RUS		SPECTR-R		N	PART-IIS		2742
113500174	RUS		SPECTR-RG		N	PART-IIS		2906
114540754	RUS		TABLETSAT-AURORA		A	API/A	9630	2800
115545086	RUS		TROS		A	API/A	11635	2830
96500453	RUS		TSYKADA		N	PART-IIS		2804
112500163	RUS		UCTS-ISS		N	PART-IIS		2906
117545307	S	NOT	MATS		A	API/A	11994	2858
119545046	S		BEYOND-ATLAS-1		A	API/A	12340	2907
90504425	S		KIRUNA ROCKET		N	PART-IIS		2577
100500389	S		ODIN		N	PART-IIS		2674
109500280	S		PRISMA		N	PART-IIS		2680
115545082	S		QBEE50-LTU-OC		A	API/A	11134	2823
117500254	S		SEAM		N	PART-IIS		2879
119545027	SDN		SUSAT-1		A	API/A	12322	2905
116520442	SLM		SI-SAT-BILIKIKI		C	CR/C	4334	2899
116520443	SLM		SI-SAT-KURUKURU		C	CR/C	4335	2886
118545092	SNG		AOBA VELOX-IV		A	API/A	12168	2888
116500075	SNG		ATHENOXAT		N	PART-IIS		2868
117545336	SNG		COLUGO		A	API/A	12020	2862
117500010	SNG		GALASSIA		N	PART-IIS		2858
119500176	SNG		SPOOQY-1		N	PART-IIS		2906
118500033	SNG		TELEOS-1		N	PART-IIS		2886
116500033	SNG		VELOX-CI		N	PART-IIS		2892
116500074	SNG		VELOX-II		N	PART-IIS		2891
118500034	SNG		X-SAT		N	PART-IIS		2884
118545152	SUI		ACN		A	API/A	12249	2896
118545028	SUI		ACN-0		A	API/A	12130	2880
113540572	SUI		CUBETH		A	API/A	8701	2767
117500028	SUI		S4P		N	PART-IIS		2896

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
110500265	SUI		TISAT-1		N	PART-IIS		2880
117500159	SVK		SKCUBE		N	PART-IIS		2872
116500012	SVN		NEMO-HD		N	PART-IIS		2832
119500059	SVN		TRISAT		N	PART-IIS		2898
117545297	THA		KNACKSAT		A	API/A	11991	2858
106500406	THA		THEOS		N	PART-IIS		2658
119545159	THA		THEOS2		A	API/A	12426	2908
117545407	TUR		ASELSAT		A	API/A	12083	2872
108540251	TUR		RASAT		A	API/A	5136	2638
117545408	TUR		UBAKUSAT		A	API/A	12084	2881
107500094	UAE		DUBAISAT-1		N	PART-IIS		2697
109500632	UAE		DUBAISAT-2		N	PART-IIS		2812
110500065	UAE		DUBAISAT-2B		N	PART-IIS		2829
119545127	UAE		EMM		A	API/A	12418	2904
118520023	UAE		FALAK-1		C	CR/C	4667	2888
119500123	UAE		FALCONEYE		N	PART-IIS		2901
118500214	UAE		KHALIFASAT		N	PART-IIS		2892
119500191	UAE		MEZNSAT		N	PART-IIS		2909
118500040	UAE		MYSAT-1		N	PART-IIS		2901
116500205	UAE		NAYIF-1		N	PART-IIS		2855
119545147	UAE		NSAT01		A	API/A	12416	2907
119545148	UAE		NSAT01.001		A	API/A	12417	2909
118545201	UKR		EAGLE OWL		A	API/A	12233	2898
113540746	UKR		POLYITAN-1		A	API/A	8902	2776
107500013	UKR		SICH-2		N	PART-IIS		2713
119545051	UKR		SICH-2M		A	API/A	12345	2908
106500338	UKR		YAVIR-1		N	PART-IIS		2607
113540209	URG		ANTELSAT		A	API/A	8375	2761
98500190	USA		ACE		N	PART-IIS		2859
114540757	USA		AEROCUBE		A	API/A	9669	2801
119545056	USA		AEROCUBE-10		A	API/A	12350	2908
117545421	USA		AEROCUBE-11		A	API/A	12092	2874
118545083	USA		AEROCUBE-12		A	API/A	12160	2885
116545202	USA		AEROCUBE-8CD		A	API/A	11926	2846
118545246	USA		AETERNITAS		A	API/A	12289	2901
105500022	USA		AIM		N	PART-IIS		2850
94500240	USA		ALEXIS		N	PART-IIS		2163
116545216	USA		ALTAIR PATHFINDER		A	API/A	11930	2862
118545081	USA		ANDESITE		A	API/A	12180	2889
117520109	USA		ANGELS		C	CR/C	4450	2870
118545007	USA		ARMADILLO		A	API/A	12117	2878
118545006	USA		ASGARDIA1		A	API/A	12134	2880
117500043	USA		ASTERIA		N	PART-IIS		2864
119545162	USA		ATHENA		A	API/A	12428	2909
117545301	USA		ATLANTIS		A	API/A	11998	2861
101500081	USA		AURA		N	PART-IIS		2777
97500109	USA		AXAF-1		N	PART-IIS		2789

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
96500413	USA		BLOCK 5D-3		N	PART-IIS		2590
118545252	USA		BRICSAT-2		A	API/A	12294	2902
118545148	USA		BRIO		A	API/A	12274	2897
118545080	USA		CACTUS-1		A	API/A	12184	2890
118545085	USA		CAPE-3		A	API/A	12183	2890
119545057	USA		CAPSAT		A	API/A	12351	2908
118545251	USA		CERES-USA		A	API/A	12332	2902
114540400	USA		CEREX		A	API/A	9499	2788
117545318	USA		CHALLENGER		A	API/A	12006	2862
113540583	USA		CHARGERSAT-1		A	API/A	8901	2774
106500083	USA		CIBOLA		N	PART-IIS		2835
117500283	USA		CICERO		N	PART-IIS		2880
117545300	USA		COLUMBIA		A	API/A	11997	2858
111500006	USA		CONNECT		N	PART-IIS		2866
113540585	USA		COPPER		A	API/A	8843	2773
115500084	USA		COSMIC		N	PART-IIS		2879
117520108	USA		COSMIC-2		C	CR/C	4449	2870
90504402	USA		CRRES		N	PART-IIS		2166
116545226	USA		CSUNSAT-1		A	API/A	11941	2850
118545082	USA		CUBESAIL		A	API/A	12240	2895
118500150	USA		CUCU		N	PART-IIS		2892
118545243	USA		CUPID		A	API/A	12287	2902
118500002	USA		CUSP		N	PART-IIS		2885
117545264	USA		CXBN-2		A	API/A	11970	2856
115500095	USA		CYGNSS		N	PART-IIS		2813
112500001	USA		CYGNUS		N	PART-IIS		2726
117545299	USA		DAVE		A	API/A	11996	2896
114540579	USA		DELLINGR		A	API/A	9600	2792
113540740	USA		DICE		A	API/A	8895	2784
117545291	USA		DISCOVERY		A	API/A	11985	2858
113540068	USA		DOVE1		A	API/A	8327	2759
113540069	USA		DOVE2		A	API/A	8328	2759
113540400	USA		DOVE3		A	API/A	8539	2766
113540401	USA		DOVE4		A	API/A	8541	2766
113540586	USA		DRAGONSAT-1		A	API/A	8844	2773
115545042	USA		DSCOVR		A	API/A	10122	2809
118520219	USA		EAGLE		C	CR/C	4838	2904
117545298	USA		EAGLESAT-1		A	API/A	11995	2858
119545155	USA		EDGECUBE		A	API/A	12423	2908
118545219	USA		ELFIN B		A	API/A	12267	2898
98500032	USA		EMU-SSCS		N	PART-IIS		2767
97500289	USA		EOS AM		N	PART-IIS		2591
99500040	USA		EOS PM		N	PART-IIS		2704
118545058	USA		EQUISAT		A	API/A	12175	2893
118545178	USA		EUROPA CLIPPER		A	API/A	12254	2896
117500266	USA		FALCONSAT		N	PART-IIS		2876
117545305	USA		FOX-1B		A	API/A	11987	2858

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
116545217	USA		FOX-1C		A	API/A	11954	2853
116545218	USA		FOX-1D		A	API/A	11953	2853
118545010	USA		FOX-1E		A	API/A	12121	2879
106500167	USA		GLAST		N	PART-IIS		2627
118520239	USA		GLOBAL		C	CR/C	4840	2904
111500016	USA		GPM		N	PART-IIS		2766
117520019	USA		HARP		C	CR/C	4338	2864
99500079	USA		HESSI		N	PART-IIS		2846
95500672	USA		HIBLEO-2		N	PART-IIS		2823
95500673	USA		HIBLEO-2FL		N	PART-IIS		2591
117500268	USA		HIBLEO-2FL2		N	PART-IIS		2877
99500289	USA		HIBLEO-4		N	PART-IIS		2613
99500160	USA		HIBLEO-4FL		N	PART-IIS		2591
95500674	USA		HIBLEO-5FL-2		N	PART-IIS		2358
113540588	USA		HOOPONOPONO-2		A	API/A	8896	2774
118545137	USA		HSAT		A	API/A	12243	2895
118545257	USA		HSAT-1		A	API/A	12299	2901
107500412	USA		IBEX		N	PART-IIS		2889
114500072	USA		ICESAT-2		N	PART-IIS		2884
115500027	USA		ICON		N	PART-IIS		2806
118545077	USA		INCA		A	API/A	12237	2908
114500041	USA		INSIGHT		N	PART-IIS		2873
114540659	USA		INSPIRE		A	API/A	9574	2793
101500582	USA		INTNL SPACE STATION		N	PART-IIS		2740
96500515	USA		INTNL SPACE STN ACS		N	PART-IIS		2740
96500516	USA		INTNL SPACE STN SGS		N	PART-IIS		2759
118545217	USA		IRVINE02		A	API/A	12265	2899
114540696	USA		ISARA		A	API/A	9611	2797
116545119	USA		ISAT		A	API/A	11631	2832
98500030	USA		ISS SSCS		N	PART-IIS		2766
112500033	USA		ISS-CUCU		N	PART-IIS		2884
111500079	USA		ISS-USOS-RPOD		N	PART-IIS		2789
94500123	USA		ISTP WIND		N	PART-IIS		2789
118500134	USA		IXPE		N	PART-IIS		2893
116520111	USA		JPSS		C	CR/C	4084	2845
109500197	USA		JUNO		N	PART-IIS		2769
115500082	USA		JWST-R		N	PART-IIS		2816
113540582	USA		KYSAT-2		A	API/A	8846	2773
117545259	USA		KYSAT-3		A	API/A	11965	2855
96500415	USA		L-92		N	PART-IIS		2592
118520060	USA		L-92A		C	CR/C	4702	2890
106500335	USA		LANDSAT-7		N	PART-IIS		2899
110500103	USA		LDCM		N	PART-IIS		2881
117500357	USA		LEMUR-2		N	PART-IIS		2879
117520190	USA		LEMUR-2-3		C	CR/C	4498	2873
118545079	USA		LEO		A	API/A	12178	2889
95500068	USA		LEOTELCOM-1		N	PART-IIS		2593

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
101500556	USA		LEOTELCOM-3		N	PART-IIS		2593
118545247	USA		LIBERTAS		A	API/A	12290	2901
118545174	USA		LIGHTSAIL2		A	API/A	12263	2909
107500413	USA		LRO		N	PART-IIS		2905
118545230	USA		LUCY		A	API/A	12277	2899
118545130	USA		LUNAH-MAP		A	API/A	12193	2891
118545131	USA		LUNAR FLASHLIGHT		A	API/A	12194	2891
118520052	USA		LUNAR ICECUBE		C	CR/C	4698	2890
118545059	USA		MAKERSAT-1		A	API/A	12169	2888
115545100	USA		MARCO		A	API/A	11035	2823
101500002	USA		MARS 2001 ORBITER		N	PART-IIS		2830
117500288	USA		mars.20		N	PART-IIS		2874
112500284	USA		MAVEN		N	PART-IIS		2762
118545221	USA		MCNAIR		A	API/A	12269	2899
118545060	USA		MEMSAT-1		A	API/A	12242	2895
113540070	USA		MER-R		A	API/A	8316	2757
118545004	USA		MICROSAT-2		A	API/A	12116	2878
115545070	USA		MINXSS		A	API/A	10747	2821
119545151	USA		MITEE-1		A	API/A	12420	2908
110500294	USA		MMS		N	PART-IIS		2794
119545037	USA		MOMENTUS		A	API/A	12334	2906
104500107	USA		MRO		N	PART-IIS		2584
108500627	USA		MSL		N	PART-IIS		2750
105500120	USA		MTI		N	PART-IIS		2607
118520218	USA		MYCROFT		C	CR/C	4839	2904
117500284	USA		NANOACE		N	PART-IIS		2880
90504609	USA		NAVSTAR GPS		N	PART-IIS		2593
103500110	USA		NAVSTAR GPS-IIRF		N	PART-IIS		2645
117500044	USA		NEA SCOUT		N	PART-IIS		2866
104500003	USA		NEW HORIZONS		N	PART-IIS		2589
112500158	USA		NIRIS		N	PART-IIS		2752
117520478	USA		NISAR		C	CR/C	4641	2888
118545061	USA		NMTSAT		A	API/A	12182	2893
112500015	USA		NOAA N		N	PART-IIS		2880
102500348	USA		NOAA-KLM		N	PART-IIS		2613
119545153	USA		NOOR-1		A	API/A	12422	2908
110500216	USA		NPOESS		N	PART-IIS		2792
105500436	USA		NPP		N	PART-IIS		2734
110500102	USA		NUSTAR		N	PART-IIS		2728
111500081	USA		OCO-2		N	PART-IIS		2777
119545120	USA		ORCA		A	API/A	12395	2903
112500199	USA		ORION		N	PART-IIS		2791
90504613	USA		OSCAR-7		N			
90504614	USA		OSCAR-8		N			
115500085	USA		OSIRIS_REX		N	PART-IIS		2833
108540735	USA		OSTM		A	API/A	5500	2682
98500199	USA		P-197-1		N	PART-IIS		2613

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
95500118	USA		P92-1		N	PART-IIS		2593
117500218	USA		P92-1A		N	PART-IIS		2875
95500119	USA		P92-2		N	PART-IIS		2593
117500219	USA		P92-2A		N	PART-IIS		2876
119500046	USA		PACE-A		N	PART-IIS		2900
90504615	USA		PAM		N	PART-IIS		2573
118545075	USA		PATHFINDER		A	API/A	12257	2896
119545031	USA		PHOENIX CUBESAT		A	API/A	12325	2905
101500267	USA		PICASSO		N	PART-IIS		2594
90504617	USA		PIONEER-10		N	PART-IIS		2580
115500117	USA		PONSFD		N	PART-IIS		2822
115545029	USA		PROMETHEUS-B1		A	API/A	9966	2806
117520025	USA		PROMETHEUS-B2		C	CR/C	4339	2864
118545250	USA		PSAT-2		A	API/A	12293	2902
119545053	USA		PSYCHE		A	API/A	12347	2908
119545152	USA		Q-PACE		A	API/A	12421	2908
118545180	USA		RADIX		A	API/A	12256	2906
118545062	USA		RADSAT-G		A	API/A	12166	2888
117545438	USA		RAINCUBE		A	API/A	12105	2907
117545319	USA		RANGE-A-B		A	API/A	11986	2858
116545208	USA		RAVAN		A	API/A	11928	2852
116545170	USA		RAYTHEON-SEEME		A	API/A	11839	2901
109500198	USA		RBSP		N	PART-IIS		2731
115545048	USA		S-MICRO 1N		A	API/A	10554	2811
118545215	USA		S5		A	API/A	12264	2898
119545028	USA		S5-A		A	API/A	12323	2905
118545248	USA		SAI-1		A	API/A	12291	2901
90504632	USA		SAR		N	PART-IIS		2590
104500335	USA		SDO		N	PART-IIS		2669
118545186	USA		SEAHAWK		A	API/A	12204	2898
102500307	USA		SIRTF		N	PART-IIS		2759
112500032	USA		SMAP		N	PART-IIS		2807
101500186	USA		SORCE		N	PART-IIS		2791
119545150	USA		SPARC-1		A	API/A	12419	2908
99500159	USA		SPOT-4(POAM)		N	PART-IIS		2451
115500101	USA		SPP		N	PART-IIS		2888
90504642	USA		ST		N	PART-IIS		2804
90504858	USA		ST OMNI		N	PART-IIS		2838
104500386	USA		STEREO		N	PART-IIS		2586
116545117	USA		STF-1		A	API/A	11310	2832
118545218	USA		SURFSAT		A	API/A	12266	2898
113540581	USA		SWAMPSAT		A	API/A	8845	2773
101500156	USA		SWIFT		N	PART-IIS		2840
117500217	USA		SWOT-USA		N	PART-IIS		2882
116500106	USA		TESS		N	PART-IIS		2872
118545170	USA		THEA		A	API/A	12251	2896
105500023	USA		THEMIS		N	PART-IIS		2846

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
110500129	USA		THEMIS-LUNAR		N	PART-IIS		2905
98500155	USA		TIMED		N	PART-IIS		2843
113540796	USA		TRAILBLAZER		A	API/A	8904	2776
119545133	USA		TROPICS		A	API/A	12405	2905
119545045	USA		UBIQUITILINK		A	API/A	12288	2906
100500337	USA		USASAT-28C		N	PART-IIS		2633
95500460	USA		USASAT-30A		N	PART-IIS		2905
96500526	USA		USASAT-30B		N	PART-IIS		2613
117500176	USA		USASAT-30E		N	PART-IIS		2876
115500083	USA		USASAT-30F		N	PART-IIS		2884
119545035	USA		USASAT-30G		A	API/A	12330	2906
119545156	USA		USASAT-30J		A	API/A	12424	2908
117520476	USA		USASAT-NGSO-2		C	CR/C	4642	2901
117520087	USA		USASAT-NGSO-3A-R		C	CR/C	4423	2868
117520088	USA		USASAT-NGSO-3B-R		C	CR/C	4424	2868
117520121	USA		USASAT-NGSO-3C		C	CR/C	4425	2868
117520122	USA		USASAT-NGSO-3D		C	CR/C	4426	2868
117520123	USA		USASAT-NGSO-3E		C	CR/C	4427	2868
117520124	USA		USASAT-NGSO-3F		C	CR/C	4428	2868
117545346	USA		USASAT-NGSO-3G		A	API/A	12031	2864
117545347	USA		USASAT-NGSO-3H		A	API/A	12032	2864
117545351	USA		USASAT-NGSO-3I		A	API/A	12033	2864
117545402	USA		USASAT-NGSO-3J		A	API/A	12077	2872
117545403	USA		USASAT-NGSO-3K		A	API/A	12078	2872
117545404	USA		USASAT-NGSO-3L		A	API/A	12079	2872
117520026	USA		USASAT-NGSO-4		C	CR/C	4562	2905
116545242	USA		USASAT-NGSO-4B		A	API/A	11961	2880
118520036	USA		USASAT-NGSO-4C		C	CR/C	4682	2888
118545015	USA		USASAT-NGSO-4D		A	API/A	12122	2879
117545342	USA		USASAT-NGSO-5		A	API/A	12027	2863
117520402	USA		USASAT-NGSO-6		C	CR/C	4586	2882
118520367	USA		USASAT-NGSO-7		C	CR/C	4998	2901
119520089	USA		USASAT-NGSO-8A		C	CR/C	5024	2904
119520098	USA		USASAT-NGSO-8B		C	CR/C	5025	2904
119520091	USA		USASAT-NGSO-8C		C	CR/C	5026	2904
117545385	USA		USASAT-NGSO-ASTC-2		A	API/A	12085	2872
114520172	USA		USCHAMA		C	CR/C	3647	2799
109500487	USA		USCLOUDSAT		N	PART-IIS		2830
105500620	USA		USCP		N	PART-IIS		2660
96500158	USA		USCSID-P		N	PART-IIS		2646
117520161	USA		USCSU		C	CR/C	4482	2870
115545055	USA		USCUBESAT		A	API/A	10558	2812
104500103	USA		USGGR-HEO		N	PART-IIS		2595
104500104	USA		USGGR-LEO		N	PART-IIS		2595
105500621	USA		USKL		N	PART-IIS		2636
118500132	USA		USKL-A		N	PART-IIS		2889
111500097	USA		USKW		N	PART-IIS		2710

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
95500287	USA		USLL-HEO		N	PART-IIS		2596
95500288	USA		USLL-LEO		N	PART-IIS		2596
118520041	USA		USMIG		C	CR/C	4685	2888
115520192	USA		USMSE		C	CR/C	3887	2829
113540040	USA		USOCEAN		A	API/A	8278	2757
118545196	USA		USPOE		A	API/A	12220	2896
115500163	USA		USPOJOAQUE		N	PART-IIS		2829
98500254	USA		USPOL		N	PART-IIS		2596
116500105	USA		USRSR		N	PART-IIS		2867
117520181	USA		USSATCOM-2		C	CR/C	4491	2873
106500268	USA		USTRO-1		N	PART-IIS		2608
117520024	USA		USVRS		C	CR/C	4420	2868
108500600	USA		USYV		N	PART-IIS		2833
113540587	USA		VERMONT LUNAR		A	API/A	8893	2774
90504648	USA		VOYAGER-1		N	PART-IIS		2859
90504649	USA		VOYAGER-2		N	PART-IIS		2859
107500411	USA		WISE		N	PART-IIS		2789
96500376	USA		XTE		N	PART-IIS		2691
112500202	VEN		VRSS-1		N	PART-IIS		2742
117500221	VEN		VRSS-2		N	PART-IIS		2876
117545327	VTN		LOTUSAT-1		A	API/A	12016	2862
116545173	VTN		MICRODRAGON		A	API/A	11901	2898
119545067	VTN		NANODRAGON		A	API/A	12360	2909
113540137	VTN		PICO DRAGON CUBESAT		A	API/A	8366	2759
111500157	VTN		VNREDSAT-1		N	PART-IIS		2859

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
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
116554007	ARS	ARB	ARABSAT-VAS44.5E	44.5
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
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
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
113554010	BGD		BANGSAT-74E-B	74
116552030	BGD		BDSAT-119E-BSS	119.1
116554030	BGD		BDSAT-119E-BSS	119.1
111555008	BOL		BOLSAT BSS	-87.2
113552018	BUL		BULSAT-BSS-1.2W	-1.2
113554018	BUL		BULSAT-BSS-1.2W	-1.2

ntc_id	adm	ntwk_org	sat_name	long_nom
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
103555006	CAN		CAN-BSS6	-72.7
105555004	CAN		CAN-BSS7	-129
96552001	CHN		ASIASAT-ABS	122
115552007	CHN		ASIASAT-BSS-118	118
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
119554001	CHN		CHNBSAT-62E-1	62
103552005	CHN		CHNBSAT-92.2E	92.2
103554005	CHN		CHNBSAT-92.2E	92.2
119552005	CHN		CHNBSAT-92.2E-1	92.2
119554005	CHN		CHNBSAT-92.2E-1	92.2
116552022	CHN		CHNBSAT-92.4E	92.4
116554022	CHN		CHNBSAT-92.4E	92.4
109552020	CYP		KYPROS-SAT-4	39
109554020	CYP		KYPROS-SAT-4	39
112554012	D		EUROPESTAR-45E-BSSA	45
110552005	D		EUROPESTAR-BSS-45E	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
114552015	E		HISPASAT-30A	-36
114554015	E		HISPASAT-30A	-36
114552022	E		HISPASAT-37A	-30

ntc_id	adm	ntwk_org	sat_name	long_nom
114554022	E		HISPASAT-37A	-30
116552031	E		HISPASAT-64A	-10.25
116554031	E		HISPASAT-64A	-10.25
117552017	E		HISPASAT-66A	-26
117554017	E		HISPASAT-66A	-26
117552026	E		HISPASAT-74A	78
117554026	E		HISPASAT-74A	78
118552002	E		HISPASAT-76A	-36
118554002	E		HISPASAT-76A	-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
119552002	EGY		NILESAT-BSS-Z	-7
119554002	EGY		NILESAT-BSS-Z	-7
116552010	ETH		ETHIOSAT-1	58.3
116554010	ETH		ETHIOSAT-1	58.3
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
118555004	F		F-SAT-BSS-100W	-100
118552003	F		F-SAT-BSS-11.5E	11.5
118554003	F		F-SAT-BSS-11.5E	11.5
118555002	F		F-SAT-BSS-113W	-113
117555006	F		F-SAT-BSS-116W	-116
117552014	F		F-SAT-BSS-12.5W	-12.5
117554014	F		F-SAT-BSS-12.5W	-12.5
117552015	F		F-SAT-BSS-127E	127
117554015	F		F-SAT-BSS-127E	127
117552016	F		F-SAT-BSS-136.5E	136.5
117554016	F		F-SAT-BSS-136.5E	136.5
117552023	F		F-SAT-BSS-14.5E	14.5
117554023	F		F-SAT-BSS-14.5E	14.5
119555001	F		F-SAT-BSS-141.5W	-141.5
119552003	F		F-SAT-BSS-143E	143
119554003	F		F-SAT-BSS-143E	143

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118552004	F		F-SAT-BSS-152E	152
118554004	F		F-SAT-BSS-152E	152
118555005	F		F-SAT-BSS-152W	-152
118552005	F		F-SAT-BSS-169E	169
118554005	F		F-SAT-BSS-169E	169
117552006	F		F-SAT-BSS-16E	16
117554006	F		F-SAT-BSS-16E	16
119552004	F		F-SAT-BSS-172E	172
119554004	F		F-SAT-BSS-172E	172
117552025	F		F-SAT-BSS-33E	33
117554025	F		F-SAT-BSS-33E	33
117552011	F		F-SAT-BSS-36E	36
117554011	F		F-SAT-BSS-36E	36
117552012	F		F-SAT-BSS-48E	48
117554012	F		F-SAT-BSS-48E	48
118555006	F		F-SAT-BSS-55.5W	-55.5
116552015	F		F-SAT-BSS-70.5E	70.5
116554015	F		F-SAT-BSS-70.5E	70.5
117552013	F		F-SAT-BSS-80.5E	80.5
117554013	F		F-SAT-BSS-80.5E	80.5
119555002	F		F-SAT-BSS-84W	-84
116552017	F		F-SAT-BSS-88.5E	88.5
116554017	F		F-SAT-BSS-88.5E	88.5
118555003	F		F-SAT-BSS-88W	-88
118555001	F		F-SAT-BSS-94W	-94
117552010	F		F-SAT-BSS-9E	9
117554010	F		F-SAT-BSS-9E	9
114555004	F		F-SAT-E-BSS-100W	-100
109552031	F		F-SAT-E-BSS-12W	-12.5
109554031	F		F-SAT-E-BSS-12W	-12.5
115555001	F		F-SAT-E-BSS-133W	-133
111552010	F		F-SAT-E-BSS-13E	13
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
113552023	F		F-SAT-E-BSS-172E	172
113554023	F		F-SAT-E-BSS-172E	172
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
105552012	F		F-SAT-E-BSS-7W	-7
105554012	F		F-SAT-E-BSS-7W	-7
114552018	F		F-SAT-E-BSS-7W	-7

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109554007	F		F-SAT-E-BSS-80.5E	80.5
113555005	F		F-SAT-E-BSS-84W	-84
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
116552020	F		LB-SAT-BSS-133E	133
116554020	F		LB-SAT-BSS-133E	133
100551034	F		RADIOSAT-5-5A	-7
100551629	F		RADIOSAT-5-5A	-7
97552056	F		RADIOSAT-5C	-7
97554058	F		RADIOSAT-5C	-7
97552010	F	EUT	EUTELSAT B-10E	10
97554010	F	EUT	EUTELSAT B-10E	10
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
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
117555002	G		INTELSAT KUEXT 122.9W	-122.9
117555001	G		INTELSAT KUEXT 127W	-127
117555005	G		INTELSAT KUEXT 133W	-133
96552021	G		INTELSAT KUEXT 157E	157
117555003	G		INTELSAT KUEXT 235.1	-124.9
96555016	G		INTELSAT KUEXT 304.5	-55.5
97555003	G		INTELSAT KUEXT 304.5	-55.5
98555008	G		INTELSAT KUEXT 304.5	-55.5
115555003	G		INTELSAT KUEXT 304.5	-55.5
96552015	G		INTELSAT KUEXT 60E	60

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96552018	G		INTELSAT KUEXT 66E	66
105552013	G		INTELSAT KUEXT 66E	66
115554006	G		INTELSAT KUEXT 66E	66
117555004	G		INTELSAT KUEXT 91W	-91
116555001	G		IOMBSS-98W	-98
111555002	G		IOMSAT-S21	-86.5
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
117552018	G		UKDIGISAT-41W-A	-41
117554018	G		UKDIGISAT-41W-A	-41
107552002	G		UKDIGISAT-4A	-33.5
107554002	G		UKDIGISAT-4A	-33.5
114552017	G		UKDIGISAT-4C	-33.5
116554018	G		UKDIGISAT-4C	-33.5
112552004	G		UKPAC BSS-1	172
113555011	G		USAT-105.5W	-105.5
116552014	G		USAT-108.2E	108.2
116554014	G		USAT-108.2E	108.2
114552014	G		USAT-108.4E	108.4
114554014	G		USAT-108.4E	108.4
112555005	G		USAT-67W	-67
112555004	G		USAT-86.5W	-86.5
114552026	G		USAT-G14 148E	148
114554026	G		USAT-G14 148E	148
106555007	G		USAT-S3 MOD-C	-86.5
106555011	G		USAT-S3 MOD-D	-86.5
107552017	GRC		GRC15002	39
107554017	GRC		GRC15002	39
113555006	HOL		BSSNET3A-95W	-95.15
110552014	HOL		NSS-BSS 100E	100
110554014	HOL		NSS-BSS 100E	100
108552010	HOL		NSS-BSS 108.2E	108.2
108554010	HOL		NSS-BSS 108.2E	108.2
108552013	HOL		NSS-BSS 113.5E	113.5
108554013	HOL		NSS-BSS 113.5E	113.5
116555002	HOL		NSS-BSS 114.5W	-114.5
118555007	HOL		NSS-BSS 169.5W	-169.5
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

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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
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
117552024	HOL		NSS-BSS G2 22W	-22
117554024	HOL		NSS-BSS G2 22W	-22
116555003	HOL		NSS-BSS-G1 125W	-125
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
113552009	HOL		NSS-BSS-G2 95E	95
113554009	HOL		NSS-BSS-G2 95E	95
115552018	I		IBS-9E	9
115554018	I		IBS-9E	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
116552003	IND		INSAT-KUP-BSS(77.1E)	77.1
113552005	IND		INSAT-KUP-BSS(82.5E)	82.5

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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
116552008	INS		NUSANTARA-H1-30	116.1
116554008	INS		NUSANTARA-H1-30A	116.1
115552012	IRN		IRANDBS5	34
115554012	IRN		IRANDBS5	34
117552009	IRN		IRANSAT-BSS-24.19E	24.19
117554009	IRN		IRANSAT-BSS-24.19E	24.19
96552042	IRN		IRNDBS-2	26
96554047	IRN		IRNDBS-2	26
112552028	ISR		AMS-BSS-137E	137
112554028	ISR		AMS-BSS-137E	137
111552031	ISR		AMS-BSS-33W	-33
111554031	ISR		AMS-BSS-33W	-33
111552030	ISR		AMS-BSS-43E	43
111554030	ISR		AMS-BSS-43E	43
111552024	ISR		AMS-BSS-B1-4W	-4
113552022	ISR		AMS-BSS-B2-4W	-4
116554023	ISR		AMS-BSS-B3-4W	-4
117552008	ISR		AMS-BSS-B4-4W	-4
116552001	ISR		AMS-BSS-C1-113E	113
116554001	ISR		AMS-BSS-C1-113E	113
112552013	ISR		AMS-BSS-C1-65E	65
112554013	ISR		AMS-BSS-C1-65E	65
118552001	ISR		AMS-BSS-C2-65E	65
118554001	ISR		AMS-BSS-C2-65E	65
117552001	J		NB-SAT-109.65-HE	109.65
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
117552002	J		NB-SAT-109.85-HE	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
117552003	J		NB-SAT-110-HE	110
113552040	J		NB-SAT-110-OD	110

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115554005	J		NBSAT-110-WB	110
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
116552021	J		NB-SAT-Y16-150E	150
116554021	J		NB-SAT-Y16-150E	150
119552006	J		NB-SAT-Y19-144E	144
119554006	J		NB-SAT-Y19-144E	144
100554048	J		TAIKI-109.65-34.5	109.65
117552004	KAZ		KAZSAT-BSS-30-58.5E	58.5
116552016	KAZ		KAZSAT-BSS-30-86.5E	86.5
117554004	KAZ		KAZSAT-BSS-30A-58.5E	58.5
116554016	KAZ		KAZSAT-BSS-30A-86.5E	86.5
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
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
109552026	LUX		DBL-G4-20W	-20
109554026	LUX		DBL-G4-20W	-20
110552030	LUX		DBL-G5-28.5E	28.5
110554030	LUX		DBL-G5-28.5E	28.5

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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
114552001	LUX		DBL-G9-137E	137
114554001	LUX		DBL-G9-137E	137
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
116552029	MCO		MCO-BSS-52EB	52
116554029	MCO		MCO-BSS-52EB	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
115555004	NCG		NICASAT-1-BSS	-84.4
116552027	NOR		BIFROST-0.8W-BSS2016	-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
116552028	PAK		PAKSAT-MM1-38.2E-BSS	38.2
116554028	PAK		PAKSAT-MM1-38.2E-BSS	38.2
112552003	PNG		AFRISAT BSS-3W	-3
112554003	PNG		AFRISAT BSS-3W	-3

ntc_id	adm	ntwk_org	sat_name	long_nom
112552010	PNG		NEW DAWN BSS-2	60
113554017	PNG		NEW DAWN BSS-2	60
119554007	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
116552011	PNG		NEW DAWN BSS-5	68.5
116554011	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
113552029	PNG		PACIFISAT BSS-176.1E	176.1
113554029	PNG		PACIFISAT BSS-176.1E	176.1
116552013	PNG		PACIFISAT BSS-39W	-39
116554013	PNG		PACIFISAT BSS-39W	-39
110552023	PNG		PACIFISAT BSS-61E	61
116552012	PNG		PACIFISAT BSS-85.3E	85.3
116554012	PNG		PACIFISAT BSS-85.3E	85.3
112552005	PNG		PACIFISAT BSSA-59E	59
112552006	PNG		PACIFISAT BSSA-61E	61
114552008	PNG		PACIFISAT BSSA-63E	63
114554008	PNG		PACIFISAT BSSA-63E	63
111552033	QAT		QATARSAT3-BSS-20E	20
111554033	QAT		QATARSAT3-BSS-20E	20
116554006	QAT		QATARSAT-BSS-0.9E	0.9
113552014	QAT		QATARSAT-BSS-135.5E	135.5
113554014	QAT		QATARSAT-BSS-135.5E	135.5
117552005	QAT		QATARSAT-BSS-20E-G2	20
117554005	QAT		QATARSAT-BSS-20E-G2	20
115554023	QAT		QATARSAT-BSS-25.9E	25.9
116552009	QAT		QATARSAT-BSS-26W_R1	-26
116554009	QAT		QATARSAT-BSS-26W_R1	-26
117552019	QAT		QATARSAT-BSS-64.5E	64.5
117554019	QAT		QATARSAT-BSS-64.5E	64.5
118552008	QAT		QATARSAT-BSS-77E	77
118554008	QAT		QATARSAT-BSS-77E	77
114552019	QAT		QATARSAT-BSS-87E	87
114554019	QAT		QATARSAT-BSS-87E	87
100551016	RUS		RST-1	36

ntc_id	adm	ntwk_org	sat_name	long_nom
100551615	RUS		RST-1	36
108552011	RUS		RST-1A	36
112554026	RUS		RST-1A	36
115552013	RUS		RST-1A	36
108552012	RUS		RST-2A	56
108554012	RUS		RST-2A	56
115552011	RUS		RST-5A	140
115554011	RUS		RST-5A	140
117554007	RUS	IK	IK-16W-B	-16
118552007	RUS	IK	IK-16W-BD	-16
110552018	RUS	IK	INTERSPUTNIK-119E-B	119.1
110554018	RUS	IK	INTERSPUTNIK-119E-B	119.1
109552021	RUS	IK	INTERSPUTNIK-16W-B	-16
108552003	RUS	IK	INTERSPUTNIK-17E-B	17
108554003	RUS	IK	INTERSPUTNIK-17E-B	17
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
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
111554017	S		SIRIUS-7-BSS	4.8
114552021	S		SIRIUS-N-BSS	4.8
115552015	S		SMMSAT-BSS-1	55
115554015	S		SMMSAT-BSS-1	55
115552017	S		SMMSAT-BSS-2	21.5
115554017	S		SMMSAT-BSS-2	21.5
116552019	S		SMMSAT-BSS-3	-33.5
116554019	S		SMMSAT-BSS-3	-33.5
100551024	TUR		TURKSAT-BSS	42
100551619	TUR		TURKSAT-BSS	42
115552010	TUR		TURKSAT-BSS-31E	31
115554010	TUR		TURKSAT-BSS-31E	31
112552030	TUR		TURKSAT-BSS-42E	42
112554030	TUR		TURKSAT-BSS-42E	42
115554022	TUR		TURKSAT-BSS-42E-A	42
116554002	TUR		TURKSAT-BSS-50E-A	50

ntc_id	adm	ntwk_org	sat_name	long_nom
106552004	UAE		EMARSAT-1	52.5
106554004	UAE		EMARSAT-1	52.5
116552025	UAE		YAHSAT-BSS-142E	142
116554025	UAE		YAHSAT-BSS-142E	142
116552026	UAE		YAHSAT-BSS-15E	15
116554026	UAE		YAHSAT-BSS-15E	15
115552019	UAE		YAHSAT-BSS-18W	-18
115554019	UAE		YAHSAT-BSS-18W	-18
113552030	UAE		YAHSAT-BSS2-20W	-20
113554030	UAE		YAHSAT-BSS2-20W	-20
118552009	UAE		YAHSAT-BSS2-33.5E	33.5
118554009	UAE		YAHSAT-BSS2-33.5E	33.5
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
116552024	UAE		YAHSAT-BSS-33.5E	33.5
116554024	UAE		YAHSAT-BSS-33.5E	33.5
115552020	UAE		YAHSAT-BSS3-60E	60
115554020	UAE		YAHSAT-BSS3-60E	60
115552021	UAE		YAHSAT-BSS3-63E	63
115554021	UAE		YAHSAT-BSS3-63E	63
109552030	UAE		YAHSAT-BSS-52.5E	52.5
109554030	UAE		YAHSAT-BSS-52.5E	52.5
108552004	UAE		YAHSAT-BSS-63E	63
108554004	UAE		YAHSAT-BSS-63E	63
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

ntc_id	adm	ntwk_org	sat_name	long_nom
112555002	USA		USABSS-26	-110
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
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
116552004	USA		USABSS-42	60
116554004	USA		USABSS-42	60
116552005	USA		USABSS-43	68.5
116554005	USA		USABSS-43	68.5
118554006	USA		USABSS-48	85
118555008	USA		USABSS-49	-61.65
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	-33.5
112559037	ARM		ARMSAT-30B-71.4E	71.4
99558001	ARM		ARM00000	71.4
112559060	ARS	ARB	ARABSAT-AX26E_KU	26
112559059	ARS	ARB	ARABSAT-AX26E_C	26
105559001	ARS	ARB	ARABSAT-AXB30E	30.9
114559049	ARS	ARB	ARABSAT-AXB-44.5E	44.5
112559057	ARS	ARB	ARABSAT-AXB26E_C	26
112559019	ARS	ARB	ARABSAT-AXB30.5E	30.5
107559033	ARS	ARB	ARABSAT-AXB26E_C	26
112559054	ARS	ARB	ARABSAT-AXB34E	34
105558001	AZE		AZE00000	95.9
112559044	B		B-SAT-3K	-69.45
112559043	B		B-SAT-3R	-65
114559017	B		B-SAT-3R-1	-65
112559042	B		B-SAT-3M	-56.5
112559056	B		B 00011	-65
112559028	B		B-SAT-3I	-63
112559055	B		B 00022	-56.5
117559043	BGD		BDSAT-119E-FSS	119.1
112559030	BGD		BANGSAT-30B-133E-A	133
112559031	BGD		BANGSAT-30B-133E-B	133
110559032	BLR		BLR-FSS-51.5E	51.5
113559019	BLR		BLR-SAT-FSS-64.4E	64.4
106558001	BLR		BLR00000	64.4
114559059	BLR		BLR-FSS2-51.5E	51.5
117559044	BOL		BOLSAT-2	-34.8
114559031	BUL		BALKANSAT AP30B	56.02
114559025	BUL		BULSAT-30B-1.9E	1.9
94559014	CAN		MSAT	-106.5
115559025	CAN		CAN0EASTM	-107.5
107559007	CAN		CANSAT-24X-30B	-111.1
92559006	CAN		MSAT	-106.5
115559026	CAN		CANSAT-67-30B	-107.5
117559020	CAN		CANSAT-68-30B	-109.2
112559002	CHN		ASIASAT-30B-122	122
114559019	CHN		ASIASAT-30B-E3	100.5
112559003	CHN		CHINASAT-30B-87.5E	87.5
112559004	CHN		CHINASAT-30B-110.5E	110.5
114559018	CHN		ASIASAT-30B-C3	105.5
116559041	CHN		CHNSAT-30B-101.4E	101.4

ntc_id	adm	ntwk_org	sat_name	long_nom
112559005	CHN		CHINASAT-30B-115.5E	115.5
112559006	CHN		CHINASAT-30B-125E	125
112559034	CHN		CHINASAT-30B-126E	126
114559041	CHN		COMPASS-30B-58.75E	58.75
116559013	CHN		APSTAR-134E-AP30B	134
114559042	CHN		COMPASS-30B-80E	80
114559043	CHN		COMPASS-30B-84E	84
112559001	CHN		ASIASAT-30B-120	120
114559044	CHN		COMPASS-30B-110.5E	110.5
112559033	CHN		CHINASAT-30B-8.5W	-8.5
114559045	CHN		COMPASS-30B-140E	140
114559046	CHN		COMPASS-30B-144.5E	144.5
114559047	CHN		COMPASS-30B-160E	160
112559012	CHN		ITS-30B-13.5	13.5
105559021	CHN		CHINASAT-FSS3	125
102559002	CTI	RAS	RASCOM-2F	2.9
103559025	CTI	RAS	RASCOM-1F	2.9
109559005	CYP		CYP-30B-59.7E	59.7
114559063	CYP		CYP-30B-59.7E-3	59.7
115559040	CYP		KYPROS-SAT-6	39
110559018	CYP		KYPROS-SAT-3	39
110559005	CYP		CYP-30B-59.7E-2	59.7
108558002	CZE		CZE00000	-31.9
114559038	D		ODYSSEY FSS-166E	166
116559036	D		ODYSSEY FSS-1W	-1
116559039	D		ODYSSEY FSS-43W	-43
117559001	D		ODYSSEY FSS-91W	-91
114559027	D		ODYSSEY FSS-68.5E	68.5
114559032	D		EUROPESTAR FSS-45E	45
116559025	E		HISPASAT-62A	-36
118559018	E		HISPASAT-78A	-74
114559051	E		HISPASAT-34A	-26
116559026	E		HISPASAT-63A	-52.5
113559024	E		HISPASAT-11A	45
118559033	E		HISPASAT-88A	-26
118559030	E		HISPASAT-84A	-36
114559052	E		HISPASAT-35A	-97.5
114559039	E		HISPASAT-30A	-36
119559007	E		HISPASAT-94A	-10.25
114559022	E		HISPASAT-23A	-30
118559029	E		HISPASAT-83A	-52.5
119559002	E		HISPASAT-93A	-30
111559044	E		HISPASAT-1E-M	-30
115559027	E		HISPASAT-40A	-47.5
117559060	E		HISPASAT-71A	174
117559061	E		HISPASAT-72A	78
107559010	E		HISPASAT-1E	-30
116559021	E		HISPASAT-53A	-74
118559001	E		HISPASAT-70A	-61
99559004	E		HISPASAT-1C	-30

ntc_id	adm	ntwk_org	sat_name	long_nom
118559006	E		HISPASAT-77A	-97.5
118559037	E		HISPASAT-89A	-47.5
115559060	E		HISPASAT-45A	-10.25
114559028	E		HISPASAT-24A	-74
116559011	ETH		ETHIOSAT-1	58.3
101559002	F	EUT	EUTELSAT EXB-28.5E	28.5
115559048	F		MR-SAT FSS 44W	-44
114559030	F		LH-SAT FSS 151.5E	151.5
114559054	F		F-SAT-E-30B-100W	-100
101559009	F	EUT	EUTELSAT EXB-64W_C	-61
101559008	F	EUT	EUTELSAT EXB-37.2W	13
114559055	F		F-SAT-E-30B-143E	143
114559035	F		F-SAT-E-30B-7E	7
115559024	F		MR-SAT FSS 53.5W	-53.5
100559012	F	EUT	EUTELSAT EXB-70.5E	70.5
115559001	F		F-SAT-E-30B-133W	-133
99559005	F		TELECOM-30B	-8
100559003	F	EUT	EUTELSAT EXB-7E	7
113559040	F		CD-SAT FSS 123.1W	-123.1
101559001	F	EUT	EUTELSAT EXB-16E	16
97559001	F	EUT	EUTELSAT EXB-13E	13
106559004	F	EUT	EUTELSAT EXB-70.5E	70.5
114559012	F		LH-SAT FSS W102	-102
101559043	F		GEOSAT-30B	-7
103559014	F		F-SAT-30B	9
105559002	F	EUT	EUTELSAT EXB-12.5W	-12.5
112559053	F		F-SAT-E-30B-172E	172
105559003	F	EUT	EUTELSAT EXB-36E	36
105559006	F		F-SAT-E-30B-7W	-7
113559010	F		F-SAT-E-30B-115.9W	-115.9
106559002	F	EUT	EUTELSAT EXB-13E	13
113559015	F		CD-SAT FSS 105.2E	105.2
106559007	F	EUT	EUTELSAT EXB-7E	7
112559029	F		ASAT FSS W090	-90
112559021	F		F-SAT-E-30B-8W	-8
110559013	F		F-SAT-E-30B-70.5E	70.5
111559001	F		F-SAT-E-30B-33E	33
111559011	F		F-SAT-E-30B-13E	13
111559030	F		F-SAT-E-30B-61W	-61
105559027	F		F-SAT-E-30B-21.5E	21.5
113559034	F		F-SAT-E-30B-84W	-84
114559021	F		LH-SAT FSS 2.4W	-2.4
101559014	F	EUT	EUTELSAT EXB-33E	33
101559016	F	EUT	EUTELSAT EXB-48E	48
101559020	F	EUT	EUTELSAT EXB-10E	10
114559014	F		LH-SAT FSS W092	-92
112559039	F		F-SAT-E-30B-16E	16
114559011	F		LH-SAT FSS W094	-94
101559042	F	EUT	EUTELSAT EXB-7E	7
113559039	F		F-SAT-E-30B-88W	-88

ntc_id	adm	ntwk_org	sat_name	long_nom
101559010	F	EUT	EUTELSAT EXB-64W	-61
113559033	F		F-SAT-E-30B-110E	110
113559032	F		F-SAT-E-30B-25.5E	25.5
113559031	F		F-SAT-E-30B-120W	-120
113559030	F		F-SAT-E-30B-9E	9
113559027	F		F-SAT-E-30B-28.5E	28.5
113559025	F		CD-SAT 105.2E REV	105.2
101559022	F	EUT	EUTELSAT EXB-70.5E	70.5
111559015	F		F-SAT-E-30B-48.2E	48
117559013	F		AL-SAT-FSS-22.5W	-22.5
116559015	F		F-SAT-30B-10E	10
117559031	F		F-SAT-30B-87E	87
117559030	F		F-SAT-30B-1.6E	1.6
117559029	F		F-SAT-30B-127E	127
117559028	F		F-SAT-30B-152E	152
117559027	F		F-SAT-30B-94W	-94
117559026	F		F-SAT-30B-28W	-28
117559022	F		F-SAT-30B-83.5E	83.5
117559021	F		F-SAT-30B-14.5E	14.5
117559018	F		F-SAT-30B-152W	-152
117559017	F		F-SAT-30B-136.5E	136.5
117559016	F		F-SAT-30B-16E	16
117559034	F		F-SAT-30B-113W	-113
117559014	F		AL-SAT-FSS-119.9W	-119.9
117559035	F		F-SAT-30B-123.5E	123.5
117559012	F		F-SAT-30B-172E	172
117559011	F		AL-SAT-FSS-55W	-55
117559010	F		F-SAT-30B-53E	53
117559006	F		F-SAT-30B-48E	48
117559005	F		F-SAT-30B-13E	13
116559044	F		F-SAT-30B-33E	33
116559042	F		F-SAT-30B-70.5E	70.5
116559040	F		F-SAT-30B-80.5E	80.5
116559038	F		F-SAT-30B-88.5E	88.5
116559024	F		F-SAT-30B-7W	-7
116559023	F		F-SAT-30B-36E	36
116559022	F		F-SAT-30B-12.5W	-12.5
116559020	F		F-SAT-30B-21.5E	21.5
117559015	F		LH-SAT-FSS-151.5E-G2	151.5
118559002	F		F-SAT-30B-117.4E	117.4
119559004	F		F-SAT-30B-143E	143
119559001	F		F-SAT-30B-84W	-84
118559026	F		F-SAT-30B-178E	178
118559020	F		F-SAT-30B-169E	169
118559019	F		F-SAT-30B-164.1E	164.1
118559017	F		F-SAT-30B-159.5E	159.5
118559016	F		F-SAT-30B-155.9E	155.9
118559013	F		F-SAT-30B-55.5W	-55.5
118559012	F		F-SAT-30B-72W	-72
118559011	F		F-SAT-30B-88W	-88

ntc_id	adm	ntwk_org	sat_name	long_nom
118559010	F		F-SAT-30B-90W	-90
118559009	F		F-SAT-30B-100W	-100
117559032	F		F-SAT-30B-34.5E	34.5
118559005	F		F-SAT-30B-139W	-139
117559019	F		F-SAT-30B-8W	-8
117559064	F		F-SAT-30B-11.5E	11.5
117559063	F		F-SAT-30B-141.5W	-141.5
117559062	F		CD-SAT-FSS-105.2E-G2	105.2
117559059	F		F-SAT-30B-39W	-39
117559055	F		F-SAT-30B-174E	174
117559053	F		EG-SAT-FSS-0.4W	-0.4
117559052	F		F-SAT-30B-168W	-168
117559051	F		F-SAT-30B-165W	-165
117559040	F		F-SAT-30B-7E	7
117559039	F		F-SAT-30B-28.5E	28.5
117559038	F		F-SAT-30B-25.5E	25.5
117559037	F		F-SAT-30B-9E	9
117559036	F		F-SAT-30B-115.9W	-115.9
118559008	F		F-SAT-30B-146W	-146
116559008	F		CD-SAT-FSS-123.1W-G2	-123.1
114559057	G		UKMMSAT-4E	55
112559018	G		UKMMSAT-A4	-33.5
113559041	G		UKFSS-34.5W	-34.5
113559042	G		UKFSS-18W	-18
115559039	G		GIBSAT-FSS 125W	-125
114559040	G		UKFSS-18W-A	-18
113559001	G		IOMSAT-15W-B	-15
117559004	G		UKFSS-122.9W	-122.9
114559061	G		GIBSAT-FSS-G14 129W	-129
114559062	G		GIBSAT-FSS 108.4E	108.4
117559003	G		UKFSS-124.9W	-124.9
117559002	G		UKFSS-127W	-127
115559002	G		GIBSAT-FSS 72W	-72
113559007	G		IOMSAT-63W-B	-63
108559011	GRC		HELLAS-SAT-3G	39
115559056	GRC		HELLAS-SAT-4G	39
97559002	HNG		CERES-1	-4
112559045	HNG		CERES-1	-4
90558100	HNG		HNG00000	-7.5
106559008	HNG		CERES-1	-4
115559023	HNG		CERES-1E	-4
114559004	HOL		NSS-FSS 148E	148
113559037	HOL		NSS-FSS-G2-108.2E	108.2
113559038	HOL		NSS-FSS-G2 77W	-77
113559053	HOL		NSS-FSS-G2 47.5W	-47.5
114559005	HOL		NSS-FSS 135W	-135
114559006	HOL		NSS-FSS 177W	-177
113559052	HOL		NSS-FSS-G2 37.5W	-37.5
117559049	HOL		NSS-FSS 50.5E	50.5
107559030	HOL		NSS-FSS 57E	57

ntc_id	adm	ntwk_org	sat_name	long_nom
108559003	HOL		NSS-FSS 40.5W	-40.5
115559058	HOL		NSS-FSS 58W	-58
117559058	HOL		NSS-FSS-137W	-137
117559057	HOL		NSS-FSS-105W-2	-105
117559056	HOL		NSS-FSS-G3 22W	-22
112559048	HOL		NSS-FSS 37.5W	-37.5
111559033	HOL		NSS-FSS-G2 95E	95
113559004	HOL		NSS-FSS-G2 22W	-22
118559031	HOL		NSS-FSS 135W-1	-135
112559035	HOL		NSS-FSS 105W	-105
113559005	HOL		NSS-FSS-G2 57E	57
118559034	HOL		NSS-FSS 157W	-157
116559053	HOL		NSS-FSS 176E	176
112559049	HOL		NSS-FSS 47.5W	-47.5
113559003	HOL		NSS-FSS 77W	-77
117559050	HOL		NSS-FSS-G3 95E	95
116559018	HOL		NSS-FSS 87W	-87
116559017	HOL		NSS-FSS 101W	-101
116559051	HOL		NSS-FSS 131W	-131
116559050	HOL		NSS-FSS 137W	-137
116559052	HOL		NSS-FSS-G1 105W	-105
116559019	HOL		NSS-FSS 83W	-83
114559065	HOL		NSS-FSS 103W	-103
113559020	IND		INSAT-EXC(82E)	82
113559021	IND		INSAT-EXC(83E)	83
109559006	IND		INSAT-EXK82.5E	82.5
115559010	IND		INSAT-KUP-FSS(68E)	68
113559018	IND		INSAT-EXC55E	55
115559016	IND		INSAT-KUP-FSS(93.5E)	93.5
115559011	IND		INSAT-KUP-FSS(71E)	71
115559012	IND		INSAT-KUP-FSS(74E)	74
115559018	IND		INSAT-KUP-FSS(111.5)	111.5
115559015	IND		INSAT-KUP-FSS(85.5E)	85.5
113559016	IND		INSAT-EXC(48E)	48
115559017	IND		INSAT-KUP-FSS(97.3E)	97.3
118559022	IND		INSAT-EXC(71E)	71
118559021	IND		INSAT-EXC(68E)	68
115559009	IND		INSAT-KUP-FSS(55E)	55
117559033	IND		INSAT-EXC(93.5E)	93.5
114559036	IND		INSAT-PKU63E	63
115559008	IND		INSAT-KUP-FSS(48E)	48
116559005	IND		INSAT-KUP-FSS(63E)	63
118559036	IND		INSAT-KUP-FSS(62.8E)	62.8
118559023	IND		INSAT-EXC(90.5E)	90.5
89559001	IND		INSAT-2A	83
89559003	IND		INSAT-2C	74
118559025	IND		INSAT-EXC(104.4E)	104.4
118559024	IND		INSAT-EXC(97.3E)	97.3
115559014	IND		INSAT-KUP-FSS(82.5E)	82.5
116559007	IND		INSAT-EXC(129.5E)	129.5

ntc_id	adm	ntwk_org	sat_name	long_nom
115559013	IND		INSAT-KUP-FSS(77.1E)	77.1
89559002	IND		INSAT-2B	93.5
117559048	INS		NUSANTARA-K1A-30B	103
117559025	INS		NUSANTARA-B7A-30B	150.5
117559024	INS		NUSANTARA-B6A-30B	140
117559023	INS		NUSANTARA-B2G-30B	118
118559035	INS		NUSANTARA-PS1D-30B	146
115559047	INS		NUSANTARA-H1-30B	116.1
116559001	IRN		IRN-24.19E	24.19
116559003	IRN		IRN-30B-24.19E	24.19
117559054	IRN		IRN-30B-43.5E	43.5
112559027	IRN		IRN-30B-34E	34
113559049	IRQ		IRAQSAT1-30B	65.45
118559003	ISR		AMS-30B-A1-39.5W	-39.5
115559049	ISR		AMS-30B-113E	113
110559024	ISR		AMS-30B-4W	-4
112559051	ISR		AMS-30B-137E	137
95559001	ISR		AMOS-II 4W	-4
117559007	ISR		AMS-30B-A2-26W	-26
115559061	ISR		AMS-30B-A1-33W	-33
117559008	ISR		AMS-30B-B2-137E	137
117559009	ISR		AMS-30B-C2-43E	43
109559008	ISR		AMS-30B-65E	65
115559030	ISR		AMS-30B-67.25E	67.25
115559005	J		NFP-SAT-110W	-110
116559027	J		NFP-SAT-Y16-150E	150
115559006	J		NFP-SAT-26W	-26
114559002	J		NFP-SAT-82E	82
116559035	J		NFP-SAT-Y16-127W	-127
114559003	J		NFP-SAT-128E	128
110559035	KAZ		KAZSAT-30B-58.5E	58.5
115559003	KAZ		KAZSAT-30B-58.5E-2	58.5
104558002	KAZ		KAZ00000	58.5
116559014	KAZ		KAZSAT-30B-86.5E	86.5
97558001	KGZ		KGZ00000	64.6
113559013	LAO		LAOSAT-FSS-128.5E	128.5
113559044	LAO		LSTAR-126E-30B	126
107558001	LTU		LTU00000	-9.3
90558130	LUX		LUX00000	19.2
112559010	LUX		LUX-30B-G5-67W	-67
112559011	LUX		LUX-30B-G5-52.2E	52.2
103559012	LUX		LUX-30B-7	28.2
116559046	LUX		LUX-30B-G5-31.5E	31.5
107559022	LUX		LUX-30B-G4-19.2E	19.2
107559024	LUX		LUX-30B-G4-23.5E	23.5
107559025	LUX		LUX-30B-G4-28.2E	28.2
103559011	LUX		LUX-30B-6	23.5
90558513	LUX		GDL-6	19.2
90559004	LUX		GDL-6	19.2
103559010	LUX		LUX-30B-5	19.2

ntc_id	adm	ntwk_org	sat_name	long_nom
116559009	LUX		LUX-30B-G5-23.5E	23.5
105559004	MCO		MCO-FSS-52E	52
114559010	MCO		MCO-FSS-52EA TTC	52
118559007	MCO		MCO-FSS-52EB	52
110559034	MCO		MCO-FSS-52EA	52
112559032	MCO		MCO-FSS-52EAP	52
112559015	MEX		MEXSAT 109.2 AP30B	-109.2
112559016	MEX		MEXSAT 116.8 AP30B	-116.8
111559041	MEX		MEXSAT 113 AP30B	-113
115559033	MLA		MEASAT-91.5E-30B-A	91.5
113559008	MLA		MEASAT-83.7E-FSS	83.7
111559010	MLA		MEASAT-91.5E-30B	91.5
115559034	MLA		MEASAT-91.5E-30B-B	91.5
113559009	MNE		MNE00000	-36.6
113559046	MNG		SANSAR-1	113.6
113559017	NCG		NICASAT-1-30B	-84.4
117559047	NCG		NICASAT-2-30B	-166.2
102559001	NOR		BIFROST-3-FSS	-0.8
96559009	NOR		BIFROST 2 FSS	-0.8
112559038	NOR		BIFROST-5-FSS	-0.8
119559006	NPL		SAGARMATHASAT-1	123.3
115559059	PAK		PAKSAT-MM1-38.2E-FSS	38.2
90558162	PHL		PHL00000	161
115559022	PNG		PACIFISAT-30B-116.1E	116.1
113559029	PNG		NEW DAWN FSS-5	166
115559028	PNG		NEW DAWN FSS-3	62
112559040	PNG		NEW DAWN FSS-3	62
115559021	PNG		PACIFISAT-FSS-92W	-92
112559041	PNG		NEW DAWN FSS-4	64
116559012	PNG		PACIFISAT-FSS-85.3E	85.3
114559053	PNG		PACIFISAT-FSS-116.1E	116.1
114559037	PNG		NEW DAWN FSS-7	169
112559014	PNG		NEW DAWN FSS-1	-50
113559026	PNG		NEW DAWN FSS-6	157
113559048	PNG		PACIFISAT-PFSS-159E	159
110559023	PNG		AFRISAT 3W-PKU	-3
114559024	PNG		RAGGIANA AP30B-2	-115
114559023	PNG		RAGGIANA AP30B-1	-113
114559007	PNG		NEW DAWN FSS-5	166
114559008	PNG		NEW DAWN FSS-6	157
114559009	PNG		NEW DAWN FSS-7	169
115559037	PNG		PACIFISAT-FSS-39W	-39
115559038	PNG		PACIFISAT-FSS-53W	-53
114559015	PNG		PACIFISAT-FSS-176.1E	176.1
114559016	PNG		PACIFISAT-PFSS-75E	75
112559020	PNG		NEW DAWN FSS-2	60
115559029	PNG		PACIFISAT-FSS-88W	-88
116559043	QAT		QATARSAT-30B-0.9E-G2	0.9
107559034	QAT	ARB	ESHAILSAT-26E-2	26
112559047	QAT		QATARSAT-30B-26E	26

ntc_id	adm	ntwk_org	sat_name	long_nom
113559012	QAT		QATARSAT-30B-135.5E	135.5
113559011	QAT		QATARSAT-30B-14.5E	14.5
115559007	QAT		QATARSAT-30B-87E	87
117559042	QAT		QATARSAT-30B-67.5E	67.5
117559041	QAT		QATARSAT-30B-64.5E	64.5
115559036	QAT		QATARSAT-30B-99E	99
118559032	QAT		QATARSAT-30B-77E	77
116559010	QAT		QATARSAT-30B-26W	-26
112559058	QAT	ARB	ESHAILSAT-26E-3	26
115559035	QAT		QATARSAT-30B-73.5E	73.5
119559003	ROU		ROU00000	30.45
105559069	RUS		VSSRD-2M	167
105559067	RUS		WSDRN-M	-16
101559037	RUS		STATSIONAR-D3	35
105559068	RUS		CSDRN-M	95
94559003	RUS		WSDRN	-16
94559002	RUS		CSDRN	95
94559012	RUS		VSSRD-2	167
101559038	RUS		STATSIONAR-D4	45
89559004	RUS		ZSSRD-2	-16
101559039	RUS		STATSIONAR-D5	85.4
101559040	RUS		STATSIONAR-D6	128
92559001	RUS		FOTON-1	-13.5
92559002	RUS		FOTON-3	-168
118559015	RUS		EXPRESS-9P	103
94559001	RUS		ESDRN	-160
92559005	RUS		FOTON-2	80
94559011	RUS		CSSRD-2	77
115559043	RUS	IK	IK-47.5W-F	-47.5
114559029	RUS		YAMAL-FSS-49E	49
110559015	RUS	IK	INTERSPUTNIK-16W-F	-16
115559046	RUS	IK	IK-26W-F	-26
110559025	RUS	IK	INTERSPUTNIK-119E-F	119.1
115559031	RUS	IK	INTERSPUTNIK-118W-F	-118.1
115559032	RUS	IK	INTERSPUTNIK-107W-F	-107
112559024	RUS	IK	INTERSPUTNIK-98E-F	98
115559044	RUS	IK	IK-16W-F	-16
109559002	RUS		EXPRESS-5P	53
111559020	RUS		YAMAL-FSS-55E	55
111559021	RUS		YAMAL-FSS-90E	90
111559026	RUS		EXPRESS-4P	40
117559046	RUS	IK	IK-103E-F	103
117559045	RUS	IK	IK-127.5E-F	127.5
112559025	RUS	IK	INTERSPUTNIK-103E-F	103
112559013	RUS		EXPRESS-P_KU 146.5	146.5
115559045	RUS	IK	IK-78E-F	78
108559008	RUS		YAMAL-PK4	90
116559016	RUS	IK	IK-156E-F	156
114559048	RUS		EXPRESS-6P	80
116559028	RUS	IK	IK-62.5E-F	62.5

ntc_id	adm	ntwk_org	sat_name	long_nom
108559006	RUS		YAMAL-PK2	55
116559029	RUS	IK	IK-67.8E-F	67.8
114559034	RUS		GT-SAT-30B-93E	93
114559026	RUS		YAMAL-FSS-81.75E	81.75
113559006	RUS	IK	INTERSPUTNIK-159E-F	159
116559045	RUS		GT-SAT-30B-86.5E	86.5
109559001	RUS		EXPRESS-10P	140
115559019	RUS		EXPRESS-8P	96.5
115559042	RUS	IK	IK-87W-F	-87
114559033	RUS		GT-SAT-30B-76.5E	76.5
113559002	S		OHO-30B-86E	86
96559010	S		SIRIUS-30B	5
113559035	S		OHO-30B-95W	-95
116559004	S		SMMSAT-FSS-1	123
114559064	S		OHO-30B-41E	41
105559046	S		SIRIUS-30B-5E-3	5
112559009	S		OHO-30B-177E	177
112559008	S		OHO-30B-67.1W	-67.1
112559007	S		SIRIUS-30B-5E-5	5
107559027	S		SIRIUS-30B-5E-4	5
103559009	S		SIRIUS-30B-5E	5
90558197	SVK		SVK00000	-19.82
116559006	TUR		TURKSAT-42E-FSS-2	42
119559005	TUR		TURKSAT-42E-FSS-3	42
108559010	TUR		TURKSAT-42E-FSS	42
115559050	UAE		YAHSAT-FSS-81W	-81
116559031	UAE		YAHSAT-FSS-93W	-93
116559032	UAE		YAHSAT-FSS-142E	142
116559033	UAE		YAHSAT-FSS-160E	160
115559053	UAE		YAHSAT-FSS2-28W	-28
115559054	UAE		YAHSAT-FSS2-60E	60
115559055	UAE		YAHSAT-FSS3-52.5E	52.5
115559052	UAE		YAHSAT-FSS-63E	63
116559030	UAE		YAHSAT-FSS-95W	-95
113559050	UAE		YAHSAT-FSS-47.5E	47.5
113559047	UAE		YAHSAT-FSS-20W	-20
115559051	UAE		YAHSAT-FSS-18W	-18
118559028	UAE		YAHSAT-FSS4-52.5E	52.5
113559051	UAE		YAHSAT-FSS2-52.5E	52.5
110559006	UAE		YAHSAT-FSS-52.5E	52.5
104559005	USA		USASAT-55E	-43
96559005	USA		USASAT 26G	-58
116559034	USA		USASAT-101E	-18
115559057	USA		USASAT-101C	169
118559014	USA		USASAT-101F	-125
116559002	USA		USASAT-101D	68.5
109559013	USA		MSV-1-30B-A	-101.3
114559060	USA		USASAT-101B	-50
104558001	UZB		UZB00000	110.5
107559019	VEN		VENESAT-30B	-78

ntc_id	adm	ntwk_org	sat_name	long_nom
113559045	VTN		VINASAT-30B-132E	131.8
104559003	VTN		VINASAT-FSS-131E-III	131.8

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
2019	**GSO**	**3298**	15	2038	**1245**
	Non-GSO	**1144**	479	147	**518**
	TOTAL	**4442**	494	2185	**1763**
2018	**GSO**	**3371**	N/A[1]	2152	**1215**
	Non-GSO	**1066**	448	132	**486**
	TOTAL	**4437**	452	2284	**1701**
2017	**GSO**	**3292**	N/A[1]	2148	**1136**
	Non-GSO	**890**	376	89	**425**
	TOTAL	**4182**	384	2237	**1561**
2016	**GSO**	**4971**	1841	2020	**1110**
	non-GSO	**766**	311	56	**399**
	TOTAL	**5737**	2152	2076	**1509**
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**

[1] Following a decision by the World Radiocommunication Conference of 2015 (WRC-15), API have ceased to apply to satellite networks or systems subject to coordination procedure under Section II of Article **9** from 1st January 2017. The number of filings shown from 2017 will therefore be only related to API on satellite networks or systems not subject to coordination procedure under Section II of Article **9**.

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 – **101** administrations

ADM	A	C	N	TOTAL
AFS	3			3
ALG	2	9	1	12
ARG	8	5	3	16
ARM		1		1
ARS/ARB		34	16	50
ARS		2	5	7
AUS	1	16	25	42
AUT			1	1
AZE		5	1	6
B	7	26	31	64
BEL	4	1	7	12
BLR		1	1	2
BOL		1	1	2
BUL		4	2	6
CAN	10	28	36	74
CBG		1		1
CHL			2	2
CHN	45	177	174	396
CLM/ASA			1	1
CLM	1	3		4
CTI/RAS			1	1
CTR	1			1
CYP	3	68	7	78
CZE		4	1	5
D/EUM		4	4	8
D/GLS			1	1
D	22	24	31	77
DNK	5		3	8
E	9	102	22	133
EGY	2	26	5	33
EST	1		1	2
ETH	1	7		8
F/ESA	1		31	32
F/EUT			28	28
F/GLS			5	5
F	34	386	90	510
FIN	5		4	9
G	24	207	73	304
GHA	1			1
GRC		1	2	3

ADM	A	C	N	TOTAL
GTM	1			1
HNG	3		1	4
HOL	3	95	43	141
I/GLS			1	1
I	11	9	9	29
IND	16	77	68	161
INS	2	24	23	49
IRL	1			1
IRN	2	16	8	26
ISR	6	37	9	52
J	45	71	107	223
JOR	1	1		2
KAZ		10	9	19
KEN			1	1
KOR	13	21	25	59
LAO		3	1	4
LIE	2	1	1	4
LTU	2		4	6
LUX	6	69	24	99
LVA	1			1
MAU	1			1
MCO		4		4
MDA	1			1
MEX	2	8	10	20
MLA	1	33	13	47
MLD		2		2
MNG		1		1
MRC			1	1
NCG		6		6
NIG	2	2	1	5
NOR	16	65	11	92
NPL		1		1
NZL	5	1		6
OMA		8		8
PAK	3	3	5	11
PHL	1		1	2
PNG		54	16	70
POL	5		1	6
POR			1	1
PRU			1	1
QAT		31	1	32
ROU	1			1
RUS/IK		6	11	17
RUS	6	41	184	231

ADM	A	C	N	TOTAL
S/NOT	1		1	2
S	2	27	9	38
SDN	1			1
SLM		2		2
SNG	2		10	12
SUI	3	14	2	19
SVK			1	1
SVN			2	2
THA	2	12	14	28
TON			7	7
TUR	3	15	17	35
UAE	3	127	21	151
UKR	3	3	2	8
URG	1		1	2
USA	120	137	461	718
VEN			2	2
VTN	4	5	6	15
TOTAL	**494**	**2185**	**1763**	**4442**

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	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 N-GSO dans le cas d'un réseau non géostationnaire	Nominal longitude of a geostationary space station (degrees) or N-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