



*Bureau des radiocommunications*

## **Rapport annuel sur les services spatiaux (2013) soumis par le Bureau des radiocommunications de l'UIT (BR) au Comité STS-14, sur l'utilisation de l'orbite des satellites géostationnaires (OSG) et d'autres orbites**

Dans le **rapport de la 45ème session du Sous-comité scientifique et technique (STS) du Comité COPUOS**, il est indiqué au § 184 que *le sous-comité a invité l'UIT à élaborer de nouveaux rapports sur sa contribution aux utilisations pacifiques de l'espace extra-atmosphérique, y compris l'utilisation de l'orbite des satellites géostationnaires (OSG) et d'autres orbites.*

En conséquence, veuillez trouver ci-joint les documents suivants:

**ANNEXE 1A** - Liste des réseaux spatiaux géostationnaires pour lesquels des renseignements ont été communiqués au Bureau des radiocommunications de l'UIT **avant le 31.12.2013** en application des dispositions de l'Article 9 (Publication anticipée de renseignements - A ou Demande de coordination - C) et/ou de l'Article 11 (Notification - N) du Règlement des radiocommunications.

**ANNEXE 1B** - Liste des réseaux spatiaux non géostationnaires pour lesquels des renseignements ont été communiqués au Bureau des radiocommunications de l'UIT **avant le 31.12.2013** en application des dispositions de l'Article 9 (Publication anticipée de renseignements - A ou Demande de coordination - C) et/ou de l'Article 11 (Notification - N) du Règlement des radiocommunications.

**ANNEXE 2** - Appendices 30 et 30A du Règlement des radiocommunications – Liste des réseaux a satellite géostationnaire du Service de Radiodiffusion par Satellite (SRS) et de ses liaisons de connexion associées communiqués et publiés en application des dispositions de l'Article 4 des Appendices 30 et 30A.

**ANNEXE 3** - Appendice 30B du Règlement des radiocommunications – Liste des réseaux à satellite géostationnaire du Service Fixe par Satellite (SFS) communiqués et publiés en application des dispositions des Articles 6 et 7 de l'Appendice 30B.

**ANNEXE 4** - Statistiques.

**ANNEXE 5** - Description des colonnes figurant dans la liste.

**Le Rapport annuel sur les services spatiaux soumis par le BR au Comité STS-14, sur l'utilisation de l'orbite des satellites géostationnaires (OSG) et d'autres orbites** est disponible dans les six langues de l'Union au format PDF ou CSV ([Annexe 1 uniquement](#)) et peut être téléchargé à partir de la page web du BR à l'adresse suivante: <http://www.itu.int/ITU-R/space/snl/report/>.

Pour de plus amples informations concernant le *statut* d'un réseau figurant dans la liste, veuillez consulter la **Liste des réseaux spatiaux (SNL)** en ligne à l'adresse suivante: <http://www.itu.int/ITU-R/space/snl/>.

Pour de plus amples informations sur la *description* de la base de données relative aux services spatiaux et les parties connexes ainsi que les sections spéciales, veuillez consulter la **Préface** (Services spatiaux) à l'adresse suivante: <http://www.itu.int/ITU-R/go/space-preface/en>.

ANNEXE 1A

**Tableau 1A.1 – Liste des réseaux spatiaux géostationnaires et non géostationnaires pour lesquels des renseignements ont été communiqués au Bureau des radiocommunications avant le 31.12.2013 en application des dispositions de l'Article 9 (Publication anticipée de renseignements - A ou Demande de coordination - C) et/ou de l'Article 11 (Notification - N) du Règlement des radiocommunications**

(Classement par administration et nom de satellite)

**Note: Chaque réseau à satellite ne figure qu'une fois dans la liste avec son statut réglementaire le plus élevé (N, C ou A)**

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
112541249	ALG		ALCOMSAT-33.5W	-33.50	A	API/A	8115	2739
113520121	ALG		ALCOMSAT-24.8W	-24.80	C	CR/C	3389	2753
112541058	ARG		ARSAT-E	-81.00	A	API/A	8012	2734
110520406	ARG		ARSAT-C	-81.00	C	CR/C	2762	2740
113520066	ARG		ARSAT-D	-81.00	C	CR/C	3365	2759
113520066	ARG		ARSAT-D	-81.00	C	CR/E	544	2759
96500487	ARG		NAHUEL-C	-72.00	N	PART	2	2586
105500330	ARG		P-P-SAT-1	-81.00	N	PART	2	2653
113520013	ARM		ARMSAT1	71.40	C	CR/C	3370	2749
112541380	ARS	ARB	ARABSAT 8I-34E	34.00	A	API/A	8248	2741
113540045	ARS	ARB	ARABSAT 8J-39E	39.00	A	API/A	8259	2744
109520057	ARS	ARB	ARABSAT 5D-17E	17.00	C	CR/C	2388	2648
109520057	ARS	ARB	ARABSAT 5D-17E	17.00	C	CR/E	440	2648
109520112	ARS	ARB	ARABSAT 7A-30.5E	30.50	C	CR/C	2406	2669
109520112	ARS	ARB	ARABSAT 7A-30.5E	30.50	C	CR/E	441	2669
109520113	ARS	ARB	ARABSAT 7B-26E	26.00	C	CR/C	2407	2652
109520113	ARS	ARB	ARABSAT 7B-26E	26.00	C	CR/E	442	2652
109520114	ARS	ARB	ARABSAT 7C-20E	20.00	C	CR/C	2408	2652
109520114	ARS	ARB	ARABSAT 7C-20E	20.00	C	CR/E	443	2652
109520115	ARS	ARB	ARABSAT 7D-7.5E	7.50	C	CR/C	2409	2652
109520115	ARS	ARB	ARABSAT 7D-7.5E	7.50	C	CR/E	444	2652
109520116	ARS	ARB	ARABSAT 7E-34.5E	34.50	C	CR/C	2410	2652
109520116	ARS	ARB	ARABSAT 7E-34.5E	34.50	C	CR/E	445	2652
109520118	ARS	ARB	ARABSAT 7G-11E	11.00	C	CR/C	2412	2652
109520118	ARS	ARB	ARABSAT 7G-11E	11.00	C	CR/E	446	2652
113520014	ARS	ARB	ARABSAT 8A-30.5E	30.50	C	CR/C	3331	2759
113523006	ARS	ARB	ARABSAT 8A-30.5E_1	30.50	C	CR/F	30	2746
113520015	ARS	ARB	ARABSAT 8B-26E	26.00	C	CR/C	3332	2759
113523007	ARS	ARB	ARABSAT 8B-26E_1	26.00	C	CR/F	31	2746
113520016	ARS	ARB	ARABSAT 8C-20E	20.00	C	CR/C	3333	2759
113523008	ARS	ARB	ARABSAT 8C-20E_1	20.00	C	CR/F	32	2746
113520017	ARS	ARB	ARABSAT 8D-7.5E	7.50	C	CR/C	3334	2759
113523009	ARS	ARB	ARABSAT 8D-7.5E_1	7.50	C	CR/F	33	2746
113520018	ARS	ARB	ARABSAT 8E-34.5E	34.50	C	CR/C	3335	2759
113523010	ARS	ARB	ARABSAT 8E-34.5E_1	34.50	C	CR/F	34	2746
113520019	ARS	ARB	ARABSAT 8F-44.5E	44.50	C	CR/C	3336	2759
113523011	ARS	ARB	ARABSAT 8F-44.5E_1	44.50	C	CR/F	35	2746
113520020	ARS	ARB	ARABSAT 8G-11E	11.00	C	CR/C	3337	2759
113523012	ARS	ARB	ARABSAT 8G-11E_1	11.00	C	CR/F	36	2746

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
113520021	ARS	ARB	ARABSAT 8H-17E	17.00	C	CR/C	3338	2759
113523013	ARS	ARB	ARABSAT 8H-17E_1	17.00	C	CR/F	37	2746
90500092	ARS	ARB	ARABSAT 1-B	26.00	N	PART	2	2703
97500434	ARS	ARB	ARABSAT 2-A	30.50	N	PART	2	2735
97500433	ARS	ARB	ARABSAT 2-B	26.00	N	PART	2	2431
102500474	ARS	ARB	ARABSAT 2-C	20.00	N	PART	2	2686
110500040	ARS	ARB	ARABSAT 5A-30.5E	30.50	N	PART	1	2731
111500061	ARS	ARB	ARABSAT 5B-26E	26.00	N	PART	1	2731
111500210	ARS	ARB	ARABSAT 5C-20E	20.00	N	PART	2	2744
111500139	ARS	ARB	ARABSAT 6E-34.5E	34.50	N	PART	1	2731
113500044	ARS	ARB	ARABSAT 7F-44.5E	44.50	N	PART	2	2754
110500087	ARS	ARB	ARABSAT-EXT-C2	26.00	N	PART	2	2735
108501204	ARS	ARB	ARABSAT-KA-26E	26.00	N	PART	2	2735
109500199	ARS	ARB	ARABSAT-KA-30.5E	30.50	N	PART	2	2735
107500526	ARS	ARB	ARABSAT-KU-26E	26.00	N	PART	2	2735
111540098	ARS		SAUDI-FMSS-5-R1	52.00	A	API/A	6750	2693
111540099	ARS		SAUDI-FMSS-6-R1	20.10	A	API/A	6751	2693
111540100	ARS		SAUDI-FMSS-8-R1	41.00	A	API/A	6752	2693
111540101	ARS		STRATSAT-4-R1	29.00	A	API/A	6753	2693
111540102	ARS		STRATSAT-6-R1	73.50	A	API/A	6754	2693
109520338	ARS		SAUDI-FMSS-7-R1	29.00	C	CR/C	2548	2688
109520339	ARS		STRATSAT-5-R1	41.00	C	CR/C	2547	2688
113540606	AUS		AUSSAT F 152E	152.00	A	API/A	8714	2759
113540607	AUS		AUSSAT F 156E	156.00	A	API/A	8715	2759
113540608	AUS		AUSSAT F 160E	160.00	A	API/A	8716	2759
113540549	AUS		AUSSAT F 164E	164.00	A	API/A	8677	2756
108520304	AUS		ADF 152E GOVR	152.00	C	CR/C	2346	2658
108520305	AUS		ADF 160E GOVR	160.00	C	CR/C	2347	2658
108520306	AUS		ADF 164E GOVR	164.00	C	CR/C	2348	2658
111520161	AUS		AUS-NBN-2	135.00	C	CR/C	2924	2720
111520162	AUS		AUS-NBN-3	140.00	C	CR/C	2925	2720
111520163	AUS		AUS-NBN-4	145.00	C	CR/C	2926	2720
111520164	AUS		AUS-NBN-5	150.00	C	CR/C	2939	2726
101520396	AUS		AUSSAT D 160E FSS	160.00	C	CR/C	1005	2679
111520200	AUS		DDSP-1	86.00	C	CR/C	2935	2726
108520295	AUS		DDSP-108.5E	108.50	C	CR/C	2344	2658
111520202	AUS		DDSP-4	95.00	C	CR/C	2937	2726
110520222	AUS		ENDEAVOUR-143E	143.00	C	CR/C	2701	2702
110520223	AUS		ENDEAVOUR-147E	147.00	C	CR/C	2702	2702
110520224	AUS		ENDEAVOUR-166E	166.00	C	CR/C	2703	2702
110520225	AUS		ENDEAVOUR-169E	169.00	C	CR/C	2704	2702
109520075	AUS		KACOMM-1	160.00	C	CR/C	2391	2665
109520076	AUS		KACOMM-2	154.00	C	CR/C	2392	2665
109520077	AUS		KACOMM-3	152.00	C	CR/C	2393	2665
109520078	AUS		KACOMM-4	137.90	C	CR/C	2394	2665
110500203	AUS		ADF 156E GOV	156.00	N	PART	2	2713
112500258	AUS		ADF UHF-2	72.10	N	PART	2	2747
112500276	AUS		ADF WEST-2	88.00	N	PART	2	2744
112500052	AUS		ADF WEST-5	104.00	N	PART	2	2729
99500259	AUS		ASIABSS	105.00	N	PART	2	2521
108500604	AUS		AUSSAT B 152E	152.00	N	PART	1	2747

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
102500305	AUS		AUSSAT B 152E MOB	152.00	N	PART	2	2546
102500306	AUS		AUSSAT B 152E MXL	152.00	N	PART	2	2546
92500025	AUS		AUSSAT B 156E	156.00	N	PART	2	2623
92500026	AUS		AUSSAT B 156E MC	156.00	N	PART	2	2623
100500278	AUS		AUSSAT B 156E MOB	156.00	N	PART	2	2457
102500358	AUS		AUSSAT B 156E MXL	156.00	N	PART	2	2533
92500027	AUS		AUSSAT B 156E NZ	156.00	N	PART	2	2623
94500530	AUS		AUSSAT B 156E R	156.00	N	PART	2	2290
92500028	AUS		AUSSAT B 156E S	156.00	N	PART	2	2197
92500021	AUS		AUSSAT B 160E	160.00	N	PART	2	2744
92500022	AUS		AUSSAT B 160E MC	160.00	N	PART	2	2615
101500008	AUS		AUSSAT B 160E MOB	160.00	N	PART	2	2500
102500359	AUS		AUSSAT B 160E MXL	160.00	N	PART	2	2533
92500023	AUS		AUSSAT B 160E NZ	160.00	N	PART	2	2744
94500531	AUS		AUSSAT B 160E R	160.00	N	PART	2	2290
92500024	AUS		AUSSAT B 160E S	160.00	N	PART	2	2613
100500300	AUS		AUSSAT B 164E	164.00	N	PART	2	2746
103500076	AUS		AUSSAT B 164E MOB	164.00	N	PART	2	2746
99500096	AUS		AUSSAT B 164E MXL	164.00	N	PART	2	2577
104500284	AUS		AUSSAT C 156E FSS	156.00	N	PART	2	2744
104500282	AUS		AUSSAT C 156E GOV	156.00	N	PART	2	2689
112500246	AUS		AUSSAT C 156E GOVR	156.00	N	PART	2	2747
108501261	AUS		AUSSAT D 156E FSS	156.00	N	PART	2	2691
112500096	AUS		DDSP-104E	104.00	N	PART	2	2745
113500110	AUS		DDSP-2	88.00	N	PART	2	2756
104500279	AUS		DEF-R-SAT-1A	82.00	N	PART	2	2634
104500280	AUS		DEF-R-SAT-2A	72.00	N	PART	2	2634
104500281	AUS		DEF-R-SAT-3A	93.00	N	PART	2	2634
104500293	AUS		DEF-R-SAT-4B 121.0E	121.00	N	PART	2	2631
110520152	AZE		AZERSAT 95.9	95.90	C	CR/C	2665	2700
108520283	AZE		AZERSAT A	43.20	C	CR/C	2329	2639
110520123	AZE		AZERSAT A1	43.20	C	CR/C	2638	2695
109520016	AZE		AZERSAT B	58.50	C	CR/C	2366	2643
110520124	AZE		AZERSAT B1	58.50	C	CR/C	2639	2695
111520481	AZE		AZERSAT C	62.00	C	CR/C	3105	2741
111520481	AZE		AZERSAT C	62.00	C	CR/E	290	2741
112520446	AZE		AZERSAT D	44.00	C	CR/C	3284	2755
112520447	AZE		AZERSAT E	38.00	C	CR/C	3290	2755
113540556	B		B-SAT-1I	-63.00	A	API/A	8684	2756
112520279	B		B-SAT-1A-1	-45.00	C	CR/C	3219	2746
112520146	B		B-SAT-1C-1	-70.00	C	CR/C	3176	2744
113520150	B		B-SAT-1F-1	-92.00	C	CR/C	3395	2755
112520281	B		B-SAT-1I-1	-63.00	C	CR/C	3230	2750
109520007	B		B-SAT-1L	-37.00	C	CR/C	2432	2671
112520147	B		B-SAT-1N-1	-84.00	C	CR/C	3177	2744
107520289	B		B-SAT-1O	-10.00	C	CR/C	2139	2636
112520473	B		B-SAT-1R-1	-65.00	C	CR/C	3300	2756
108520268	B		B-SAT-1S	-75.00	C	CR/C	2320	2653
112520282	B		B-SAT-1S-1	-75.00	C	CR/C	3178	2744
112520148	B		B-SAT-1W-1	-48.00	C	CR/C	3179	2744
110520466	B		B-SAT-1Y	-26.00	C	CR/C	2790	2709

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
109520008	B		B-SAT-2D	-77.50	C	CR/C	2434	2671
110520001	B		B-SAT-2E	-87.00	C	CR/C	2620	2692
109520009	B		B-SAT-2F	-92.00	C	CR/C	2435	2671
110520128	B		B-SAT-2J	-68.00	C	CR/C	2644	2696
110520052	B		B-SAT-2N	-84.00	C	CR/C	2640	2696
111520017	B		SISCOMIS-2A	-65.00	C	CR/C	2930	2720
111520018	B		SISCOMIS-3A	-70.00	C	CR/C	2931	2720
111520019	B		SISCOMIS-4A	-75.00	C	CR/C	2932	2720
110520161	B		SISCOMIS-8	-48.00	C	CR/C	2672	2700
102500255	B		B-SAT E	-63.00	N	PART	2	2597
107500035	B		B-SAT I	-63.00	N	PART	2	2686
104500559	B		B-SAT P	-84.00	N	PART	2	2744
110500015	B		B-SAT-1C	-70.00	N	PART	2	2705
110500094	B		B-SAT-1J	-68.00	N	PART	2	2732
113500076	B		B-SAT-1Q	-61.00	N	PART	2	2759
111500083	B		B-SAT-1R	-65.00	N	PART	2	2712
113500050	B		B-SAT-1W	-48.00	N	PART	2	2754
104500485	B		B-SAT-Q	-61.00	N	PART	2	2644
109500279	B		B-SAT-R	-65.00	N	PART	2	2671
107500108	B		B-SAT-S	-75.00	N	PART	2	2674
101500552	B		SBTS B1	-70.00	N	PART	2	2744
101500553	B		SBTS B2	-65.00	N	PART	2	2744
101500554	B		SBTS B3	-61.00	N	PART	2	2712
103500244	B		SBTS B4	-92.00	N	PART	2	2581
106500431	B		SBTS C1	-70.00	N	PART	2	2605
98500054	B		SISCOMIS-2	-65.00	N	PART	2	2744
98500055	B		SISCOMIS-3	-70.00	N	PART	2	2744
108500588	B		SISCOMIS-4	-75.00	N	PART	2	2658
89540035	BEL		SATCOM-4	-18.00	A	AR11/A	342	1985
100540030	BEL		SATCOM-5	-17.80	A	API/A	1330	2451
108501099	BEL		SATCOM-4/10E	10.00	N	PART	2	2659
106500280	BEL		SATCOM-4/20.2W	-20.20	N	PART	2	2670
110520463	BGD		BDSAT	102.00	C	CR/C	2785	2745
112520475	BLR		BTS-2-NP	64.40	C	CR/C	3303	2758
110520208	BOL		TUPAK KATARI-1	-87.20	C	CR/C	2678	2700
112520195	BUL		BULSAT-1.9E	1.90	C	CR/C	3187	2745
112523006	BUL		BULSAT-1.9E_1	1.90	C	CR/F	9	2736
112523011	BUL		BULSAT-22GHZ	45.00	C	CR/F	8	2736
113540082	CAN		CAN-BSS60	-95.00	A	API/A	8297	2745
112540066	CAN		CANSAT (107.3W) - V2	-107.30	A	API/A	7354	2717
112540050	CAN		CANSAT (107.3W)-KA2	-107.30	A	API/A	7338	2717
112540056	CAN		CANSAT (107.3W)-KAV2	-107.30	A	API/A	7344	2717
112540065	CAN		CANSAT (109.2W) - V2	-109.20	A	API/A	7353	2717
112540055	CAN		CANSAT (109.2W)-KAV2	-109.20	A	API/A	7343	2717
112540064	CAN		CANSAT (111.1W) - V2	-111.10	A	API/A	7352	2717
112540054	CAN		CANSAT (111.1W)-KAV2	-111.10	A	API/A	7342	2717
112540063	CAN		CANSAT (114.9W) - V2	-114.90	A	API/A	7351	2717
112540053	CAN		CANSAT (114.9W)-KAV2	-114.90	A	API/A	7341	2717
112540062	CAN		CANSAT (118.7W) - V2	-118.70	A	API/A	7350	2717
112540052	CAN		CANSAT (118.7W)-KAV2	-118.70	A	API/A	7340	2717
112540061	CAN		CANSAT (129W) - V2	-129.00	A	API/A	7349	2717

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
112540051	CAN		CANSAT (129W)-KAV2	-129.00	A	API/A	7339	2717
112540070	CAN		CANSAT (72.5W) - V2	-72.50	A	API/A	7358	2717
112540060	CAN		CANSAT (72.5W)-KAV2	-72.50	A	API/A	7348	2717
112540069	CAN		CANSAT (82W) - V2	-82.00	A	API/A	7357	2717
112540059	CAN		CANSAT (82W)-KAV2	-82.00	A	API/A	7347	2717
112540068	CAN		CANSAT (86.5W) - V2	-86.50	A	API/A	7356	2717
112540058	CAN		CANSAT (86.5W)-KAV2	-86.50	A	API/A	7346	2717
112540049	CAN		CANSAT(129W)-XKA2	-129.00	A	API/A	7337	2717
112540923	CAN		CANSAT-62	-109.20	A	API/A	7926	2732
112540937	CAN		CANSAT-63	-95.50	A	API/A	7961	2732
90500273	CAN		ANIK C-1	-106.80	C	AR11/C	1617	2423
111520060	CAN		ANIK-F2R	-111.10	C	CR/C	2835	2733
111520021	CAN		ANIK-F3R	-118.70	C	CR/C	2796	2716
111520021	CAN		ANIK-F3R	-118.70	C	CR/E	370	2716
108520018	CAN		CAN-BSS24	-72.50	C	CR/C	2173	2641
108520019	CAN		CAN-BSS27	-82.00	C	CR/C	2174	2641
108520020	CAN		CAN-BSS29	-86.50	C	CR/C	2175	2641
108520021	CAN		CAN-BSS31	-91.00	C	CR/C	2176	2641
109520226	CAN		CAN-BSS34	-103.00	C	CR/C	2469	2678
108520022	CAN		CAN-BSS36	-107.30	C	CR/C	2177	2641
108520023	CAN		CAN-BSS40	-118.70	C	CR/C	2178	2641
110520027	CAN		CAN-BSS50 (95W)	-95.00	C	CR/C	2568	2690
110520028	CAN		CAN-BSS51 (99W)	-99.00	C	CR/C	2569	2690
109520111	CAN		CAN-BSS52 (111.1W)	-111.10	C	CR/C	2413	2669
110520029	CAN		CAN-BSS53 (113W)	-113.00	C	CR/C	2570	2690
110520030	CAN		CAN-BSS54 (114.9W)	-114.90	C	CR/C	2571	2690
110520024	CAN		CANSAT (109.2W)-CKU	-109.20	C	CR/C	2567	2690
112520434	CAN		CANSAT (91W)-KAV2	-91.00	C	CR/C	3280	2752
110520190	CAN		CANSAT(103W)-XKA	-103.00	C	CR/C	2691	2701
112520025	CAN		CANSAT(107.3W)-CKUKA	-107.30	C	CR/C	3220	2750
109520139	CAN		CANSAT(107.3W)-L	-107.30	C	CR/C	2448	2674
110520023	CAN		CANSAT(107.3W)-XKA	-107.30	C	CR/C	2566	2690
110520051	CAN		CANSAT(109.2W)-EXTKU	-109.20	C	CR/C	2574	2670
110520191	CAN		CANSAT(113W)-XKA	-113.00	C	CR/C	2692	2701
109520254	CAN		CANSAT(118.7W)-EXTKU	-118.70	C	CR/C	2488	2664
110520192	CAN		CANSAT(118.7W)-XKA	-118.70	C	CR/C	2673	2700
112520070	CAN		CANSAT(82W)-KA	-82.00	C	CR/C	3143	2741
110520148	CAN		CANSAT(87W)-KA	-87.00	C	CR/C	2656	2696
110520022	CAN		CANSAT(91.1W)-XKA	-91.10	C	CR/C	2565	2690
110520149	CAN		CANSAT(93W)-KA	-93.00	C	CR/C	2657	2696
100520280	CAN		CANSAT-2A	-82.00	C	CR/C	519	2483
100520281	CAN		CANSAT-2B	-70.50	C	CR/C	520	2483
108520029	CAN		CANSAT-48	-91.00	C	CR/C	2231	2645
108520030	CAN		CANSAT-49	-109.20	C	CR/C	2232	2645
108520031	CAN		CANSAT-50	-107.30	C	CR/C	2233	2645
108520032	CAN		CANSAT-51	-111.10	C	CR/C	2234	2631
112520440	CAN		CANSAT-61	-15.00	C	CR/C	3287	2755
93500182	CAN		ANIK E-A	-107.30	N	PART	2	2674
93500184	CAN		ANIK E-B	-111.10	N	PART	2	2674
102500408	CAN		ANIK E-D	-118.70	N	PART	2	2564
106500142	CAN		ANIK-F1	-107.30	N	PART	2	2690

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105500032	CAN		ANIK-F2	-111.10	N	PART	2	2750
105500424	CAN		CAN-BSS1 TTAC	-82.00	N	PART	2	2650
112500165	CAN		CAN-BSS19	-103.00	N	PART	2	2740
105500425	CAN		CAN-BSS2 TTAC	-91.10	N	PART	2	2650
113500089	CAN		CAN-BSS7 TTC	-129.00	N	PART	2	2759
112500103	CAN		CAN-BSS9	-86.50	N	PART	2	2735
104500106	CAN		CANSAT KA-3	-82.00	N	PART	2	2604
108501177	CAN		CANSAT KA-4	-111.10	N	PART	2	2667
108501178	CAN		CANSAT KA-5	-118.70	N	PART	2	2661
108500946	CAN		CANSAT KA-5X	-118.70	N	PART	2	2659
110500038	CAN		CANSAT-17	-114.90	N	PART	2	2690
108501202	CAN		CANSAT-18	-118.70	N	PART	2	2665
112500169	CAN		CANSAT-24	-111.10	N	PART	2	2739
113500114	CAN		CANSAT-30	-91.00	N	PART	2	2759
113500049	CAN		CANSAT-31	-82.00	N	PART	2	2751
112500240	CAN		CANSAT-33	-109.20	N	PART	2	2759
113500078	CAN		CANSAT-34	-107.30	N	PART	2	2758
101500597	CAN		MSAT	-106.50	N	PART	2	2559
113540566	CHL		CHILSAT-1	-102.00	A	API/A	8694	2757
112540933	CHN		ASIASAT-100.3T	100.30	A	API/A	7931	2732
112540934	CHN		ASIASAT-100.7T	100.70	A	API/A	7932	2732
112540936	CHN		ASIASAT-105.7T	105.70	A	API/A	7934	2732
101540118	CHN		ASIASAT1-140E-A	140.00	A	API/A	1903	2447
113540563	CHN		ASIASAT-119.1W	-119.10	A	API/A	8691	2756
113540146	CHN		ASIASAT-60T	60.00	A	API/A	8330	2749
111540737	CHN		ASIASAT-80U	80.00	A	API/A	7169	2706
113540561	CHN		ASIASAT-84.2W	-84.20	A	API/A	8689	2756
111540738	CHN		ASIASAT-90U	90.00	A	API/A	7170	2706
113540562	CHN		ASIASAT-96.3W	-96.30	A	API/A	8690	2756
112540382	CHN		CGSAT-A02	-104.00	A	API/A	7534	2721
112540383	CHN		CGSAT-A03	-37.00	A	API/A	7535	2721
112540384	CHN		CGSAT-A04	-23.00	A	API/A	7536	2721
112540385	CHN		CGSAT-A05	-16.00	A	API/A	7537	2721
112540386	CHN		CGSAT-A06	-2.00	A	API/A	7538	2721
112540387	CHN		CGSAT-A07	1.00	A	API/A	7539	2721
112540388	CHN		CGSAT-A08	13.50	A	API/A	7540	2721
112540389	CHN		CGSAT-A09	35.00	A	API/A	7541	2721
112540390	CHN		CGSAT-A10	75.00	A	API/A	7542	2721
112540391	CHN		CGSAT-A11	82.50	A	API/A	7543	2721
112540392	CHN		CGSAT-A12	131.00	A	API/A	7544	2721
112540393	CHN		CGSAT-A13	142.00	A	API/A	7545	2721
112540394	CHN		CGSAT-A14	158.00	A	API/A	7546	2721
101544625	CHN		CHINASAT-71.5E	71.50	A	API/A	1966	2449
112540575	CHN		CHINASAT-C1	-86.30	A	API/A	7706	2724
112540584	CHN		CHINASAT-C10	58.50	A	API/A	7715	2724
112540585	CHN		CHINASAT-C11	71.70	A	API/A	7716	2724
112540586	CHN		CHINASAT-C12	85.00	A	API/A	7717	2724
112540587	CHN		CHINASAT-C13	87.50	A	API/A	7718	2724
112540588	CHN		CHINASAT-C14	92.20	A	API/A	7719	2724
112540589	CHN		CHINASAT-C15	97.50	A	API/A	7720	2724
112540590	CHN		CHINASAT-C16	105.00	A	API/A	7721	2724



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112540591	CHN		CHINASAT-C17	110.50	A	API/A	7722	2724
112540592	CHN		CHINASAT-C18	115.50	A	API/A	7723	2724
112540593	CHN		CHINASAT-C19	125.00	A	API/A	7724	2724
112540576	CHN		CHINASAT-C2	-69.00	A	API/A	7707	2724
112540596	CHN		CHINASAT-C22	142.00	A	API/A	7727	2724
112540597	CHN		CHINASAT-C23	163.00	A	API/A	7728	2724
112540598	CHN		CHINASAT-C24	170.00	A	API/A	7729	2724
112540577	CHN		CHINASAT-C3	-51.50	A	API/A	7708	2724
112540578	CHN		CHINASAT-C4	-40.00	A	API/A	7709	2724
112540579	CHN		CHINASAT-C5	-17.00	A	API/A	7710	2724
112540580	CHN		CHINASAT-C6	-8.50	A	API/A	7711	2724
112540581	CHN		CHINASAT-C7	9.70	A	API/A	7712	2724
112540582	CHN		CHINASAT-C8	46.50	A	API/A	7713	2724
112540583	CHN		CHINASAT-C9	51.50	A	API/A	7714	2724
112540762	CHN		CHNBSAT-G4-1	62.00	A	API/A	7828	2729
112540771	CHN		CHNBSAT-G4-10	115.50	A	API/A	7837	2729
112540772	CHN		CHNBSAT-G4-11	119.00	A	API/A	7838	2729
112540773	CHN		CHNBSAT-G4-12	125.00	A	API/A	7839	2729
112540774	CHN		CHNBSAT-G4-13	129.00	A	API/A	7840	2729
112540775	CHN		CHNBSAT-G4-14	134.00	A	API/A	7841	2729
112540776	CHN		CHNBSAT-G4-15	139.00	A	API/A	7842	2729
112540763	CHN		CHNBSAT-G4-2	71.00	A	API/A	7829	2729
112540764	CHN		CHNBSAT-G4-3	80.00	A	API/A	7830	2729
112540765	CHN		CHNBSAT-G4-4	86.00	A	API/A	7831	2729
112540766	CHN		CHNBSAT-G4-5	92.20	A	API/A	7832	2729
112540767	CHN		CHNBSAT-G4-6	98.00	A	API/A	7833	2729
112540768	CHN		CHNBSAT-G4-7	101.00	A	API/A	7834	2729
112540769	CHN		CHNBSAT-G4-8	108.50	A	API/A	7835	2729
112540770	CHN		CHNBSAT-G4-9	113.20	A	API/A	7836	2729
112540033	CHN		CHNSAT-0E	0.00	A	API/A	7317	2716
112540042	CHN		CHNSAT-108E	108.00	A	API/A	7326	2716
112540024	CHN		CHNSAT-108W	-108.00	A	API/A	7308	2716
112540043	CHN		CHNSAT-120E	120.00	A	API/A	7327	2716
112540023	CHN		CHNSAT-120W	-120.00	A	API/A	7307	2716
112540034	CHN		CHNSAT-12E	12.00	A	API/A	7318	2716
112540032	CHN		CHNSAT-12W	-12.00	A	API/A	7316	2716
112540044	CHN		CHNSAT-132E	132.00	A	API/A	7328	2716
112540022	CHN		CHNSAT-132W	-132.00	A	API/A	7306	2716
112540045	CHN		CHNSAT-144E	144.00	A	API/A	7329	2716
112540021	CHN		CHNSAT-144W	-144.00	A	API/A	7305	2716
112540046	CHN		CHNSAT-156E	156.00	A	API/A	7330	2716
112540020	CHN		CHNSAT-156W	-156.00	A	API/A	7304	2716
112540047	CHN		CHNSAT-168E	168.00	A	API/A	7331	2716
112540019	CHN		CHNSAT-168W	-168.00	A	API/A	7303	2716
112540048	CHN		CHNSAT-180E	180.00	A	API/A	7332	2716
112540035	CHN		CHNSAT-24E	24.00	A	API/A	7319	2716
112540031	CHN		CHNSAT-24W	-24.00	A	API/A	7315	2716
112540036	CHN		CHNSAT-36E	36.00	A	API/A	7320	2716
112540030	CHN		CHNSAT-36W	-36.00	A	API/A	7314	2716
112540037	CHN		CHNSAT-48E	48.00	A	API/A	7321	2716
112540029	CHN		CHNSAT-48W	-48.00	A	API/A	7313	2716

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112540038	CHN		CHNSAT-60E	60.00	A	API/A	7322	2716
112540028	CHN		CHNSAT-60W	-60.00	A	API/A	7312	2716
112540039	CHN		CHNSAT-72E	72.00	A	API/A	7323	2716
112540027	CHN		CHNSAT-72W	-72.00	A	API/A	7311	2716
112540040	CHN		CHNSAT-84E	84.00	A	API/A	7324	2716
112540026	CHN		CHNSAT-84W	-84.00	A	API/A	7310	2716
112540041	CHN		CHNSAT-96E	96.00	A	API/A	7325	2716
112540025	CHN		CHNSAT-96W	-96.00	A	API/A	7309	2716
112541042	CHN		COMPASS-80.3E	80.30	A	API/A	7978	2733
112541244	CHN		CTDRS-2-77E	77.00	A	API/A	8112	2751
112541245	CHN		CTDRS-2-80E	80.00	A	API/A	8113	2751
112540842	CHN		DFH-5-02A	59.00	A	API/A	7890	2729
112540843	CHN		DFH-5-02B	173.00	A	API/A	7891	2729
112540072	CHN		G4SAT-134E	134.00	A	API/A	7360	2717
112540073	CHN		G4SAT-138E	138.00	A	API/A	7361	2717
112541106	CHN		GC-4-106.5E	106.50	A	API/A	8024	2734
112541107	CHN		GC-4-109E	109.00	A	API/A	8025	2734
112540449	CHN		ITS-105E	105.00	A	API/A	7574	2742
112540435	CHN		ITS-105W	-105.00	A	API/A	7560	2742
112540441	CHN		ITS-10W	-10.00	A	API/A	7566	2742
112540450	CHN		ITS-114.5E	114.50	A	API/A	7575	2742
112540451	CHN		ITS-120.5E	120.50	A	API/A	7576	2742
112540443	CHN		ITS-13.5E	13.50	A	API/A	7568	2742
111540547	CHN		ITS-136E	136.00	A	API/A	7037	2704
112540440	CHN		ITS-13W	-13.00	A	API/A	7565	2742
112540444	CHN		ITS-23.5E	23.50	A	API/A	7569	2742
112540445	CHN		ITS-36E	36.00	A	API/A	7570	2742
112540439	CHN		ITS-48.5W	-48.50	A	API/A	7564	2742
112540442	CHN		ITS-6E	6.00	A	API/A	7567	2742
112540446	CHN		ITS-70.5E	70.50	A	API/A	7571	2742
112540447	CHN		ITS-78.5E	78.50	A	API/A	7572	2742
112540438	CHN		ITS-85.5W	-85.50	A	API/A	7563	2742
112540448	CHN		ITS-90.5E	90.50	A	API/A	7573	2742
112540437	CHN		ITS-93W	-93.00	A	API/A	7562	2742
112540436	CHN		ITS-97W	-97.00	A	API/A	7561	2742
109520002	CHN		APSTAR-142E-R	142.00	C	CR/C	2368	2643
109520001	CHN		APSTAR-76E-R	76.50	C	CR/C	2367	2643
112520492	CHN		ASIASAT-100.3U	100.30	C	CR/C	3314	2758
112520493	CHN		ASIASAT-100.7U	100.70	C	CR/C	3315	2758
113520010	CHN		ASIASAT-105.3T	105.30	C	CR/C	3360	2759
113520010	CHN		ASIASAT-105.3T	105.30	C	CR/E	540	2759
110520266	CHN		ASIASAT-120V	120.00	C	CR/C	2720	2703
113520189	CHN		ASIASAT-71U	71.00	C	CR/C	3432	2759
113523038	CHN		ASIASAT-71U_1	71.00	C	CR/F	63	2759
111520126	CHN		ASIASAT-AAA	122.00	C	CR/C	2898	2722
112520399	CHN		ASIASAT-AAB	118.00	C	CR/C	3240	2751
112523019	CHN		ASIASAT-AAB_1	118.00	C	CR/F	20	2740
109520276	CHN		ASIASAT-AKW	122.20	C	CR/C	2503	2684
109520277	CHN		ASIASAT-CKW	105.50	C	CR/C	2504	2684
109520278	CHN		ASIASAT-EKW	100.50	C	CR/C	2505	2684
110520447	CHN		CGSAT-98W	-94.50	C	CR/C	2779	2716

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110520447	CHN		CGSAT-98W	-94.50	C	CR/E	137	2716
109520150	CHN		CHINASAT-A1	9.70	C	CR/C	2442	2673
109520260	CHN		CHINASAT-A5	87.50	C	CR/C	2487	2681
110520008	CHN		CHINASAT-AL1	-8.50	C	CR/C	2553	2689
110520121	CHN		CHINASAT-AL4	-40.00	C	CR/C	2637	2695
110520009	CHN		CHINASAT-AL9	-86.30	C	CR/C	2554	2689
112520471	CHN		CHINASAT-C20	126.00	C	CR/C	3295	2755
112520472	CHN		CHINASAT-C21	136.00	C	CR/C	3296	2756
111520040	CHN		CHINASAT-CL11	163.00	C	CR/C	2816	2706
111520040	CHN		CHINASAT-CL11	163.00	C	CR/E	162	2706
111520039	CHN		CHINASAT-CL2	51.50	C	CR/C	2815	2706
111520039	CHN		CHINASAT-CL2	51.50	C	CR/E	161	2706
111520197	CHN		CHINASAT-DL4	110.50	C	CR/C	2927	2720
111520198	CHN		CHINASAT-DL5	115.50	C	CR/C	2928	2720
111520199	CHN		CHINASAT-DL6	125.00	C	CR/C	2929	2720
107520164	CHN		CHINASAT-ROUTE1	51.50	C	CR/C	2061	2610
107520170	CHN		CHINASAT-ROUTE15	163.00	C	CR/C	2067	2610
107520165	CHN		CHINASAT-ROUTE3	71.70	C	CR/C	2062	2610
107520166	CHN		CHINASAT-ROUTE5	92.20	C	CR/C	2063	2664
107520167	CHN		CHINASAT-ROUTE6	105.00	C	CR/C	2064	2626
107520168	CHN		CHINASAT-ROUTE7	115.50	C	CR/C	2065	2664
107520169	CHN		CHINASAT-ROUTE8	125.00	C	CR/C	2066	2664
111520323	CHN		CHNSAT-103E	103.00	C	CR/C	2990	2725
111520322	CHN		CHNSAT-81.5E	81.50	C	CR/C	2989	2725
111520054	CHN		CHNSAT-98E	98.20	C	CR/C	2828	2711
110520219	CHN		CHNSAT-M-101.4E	101.40	C	CR/C	2698	2702
111520204	CHN		COMPASS-B-144.5E	144.50	C	CR/C	2934	2741
111520203	CHN		COMPASS-B-84E	84.00	C	CR/C	2933	2741
110520238	CHN		CTDRS-2-10.6E	10.60	C	CR/C	2711	2753
107520175	CHN		CTDRS-2-167E	167.00	C	CR/C	2069	2636
107520176	CHN		CTDRS-2-171E	171.00	C	CR/C	2070	2753
110520240	CHN		CTDRS-2-20.4E	20.40	C	CR/C	2713	2702
111520334	CHN		DFH-4-OAF	155.00	C	CR/C	2997	2727
112520199	CHN		DFH-5-01A	94.20	C	CR/C	3188	2745
112520200	CHN		DFH-5-01B	107.50	C	CR/C	3189	2745
111520013	CHN		FYGEOSAT-105E	105.00	C	CR/C	2802	2697
111520014	CHN		FYGEOSAT-112E	112.00	C	CR/C	2803	2697
111520015	CHN		FYGEOSAT-123.5E	123.50	C	CR/C	2804	2697
111520016	CHN		FYGEOSAT-133E	133.00	C	CR/C	2805	2703
111520016	CHN		FYGEOSAT-133E	133.00	C	CR/E	48	2703
111520010	CHN		FYGEOSAT-79E	79.00	C	CR/C	2799	2697
111520011	CHN		FYGEOSAT-86.5E	86.50	C	CR/C	2800	2697
111520012	CHN		FYGEOSAT-99.5E	99.50	C	CR/C	2801	2697
111520127	CHN		G4SAT-1	82.00	C	CR/C	2938	2726
112520134	CHN		ITS-KA-A	83.50	C	CR/C	3162	2750
112520135	CHN		ITS-KA-B	64.50	C	CR/C	3163	2750
112520136	CHN		ITS-KA-D	133.50	C	CR/C	3164	2750
112520137	CHN		ITS-SA-A	-77.20	C	CR/C	3165	2750
112520138	CHN		ITS-SA-B	-63.20	C	CR/C	3166	2750
106520145	CHN		SINOSAT-5	110.50	C	CR/C	1895	2749
105500702	CHN		APSTAR-1	131.00	N	PART	2	2583

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108501242	CHN		APSTAR-142E	142.00	N	PART	2	2649
106500065	CHN		APSTAR-2	134.00	N	PART	2	2622
105500690	CHN		APSTAR-4	76.50	N	PART	2	2579
107500032	CHN		APSTAR-5-KU	138.00	N	PART	2	2609
108501171	CHN		APSTAR-76E	76.50	N	PART	2	2655
108501259	CHN		APSTAR-92E	92.20	N	PART	2	2659
91910135	CHN		ASIASAT-1	105.50	N	PART	2	2714
98500161	CHN		ASIASAT-A	122.00	N	PART	2	2714
99500194	CHN		ASIASAT-AK	122.00	N	PART	2	2714
104500082	CHN		ASIASAT-AK1	122.00	N	PART	2	2714
107500475	CHN		ASIASAT-AKS	122.00	N	PART	2	2714
108500585	CHN		ASIASAT-AKX	122.00	N	PART	2	2714
112500144	CHN		ASIASAT-AKZ	122.20	N	PART	2	2738
98500162	CHN		ASIASAT-B	116.00	N	PART	2	2427
99500281	CHN		ASIASAT-CK	105.50	N	PART	2	2714
100500227	CHN		ASIASAT-CK1	105.50	N	PART	2	2714
107500476	CHN		ASIASAT-CKS	105.50	N	PART	2	2714
108500589	CHN		ASIASAT-CKX	105.50	N	PART	2	2714
112500145	CHN		ASIASAT-CKZ	105.50	N	PART	2	2753
100500365	CHN		ASIASAT-E	100.50	N	PART	2	2714
100500387	CHN		ASIASAT-EK1	100.50	N	PART	2	2714
107500477	CHN		ASIASAT-EKS	100.50	N	PART	2	2714
104500426	CHN		ASIASAT-EKX	100.50	N	PART	2	2714
111500241	CHN		ASIASAT-EKZ	100.50	N	PART	2	2738
107500033	CHN		CHINASAT-1	87.50	N	PART	2	2639
108501257	CHN		CHINASAT-115.5E	115.50	N	PART	1	2678
108501223	CHN		CHINASAT-134E	134.00	N	PART	2	2656
108501103	CHN		CHINASAT-138E	138.00	N	PART	2	2653
108501134	CHN		CHINASAT-163E	163.00	N	PART	1	2689
104500609	CHN		CHINASAT-2	110.50	N	PART	2	2617
102500025	CHN		CHINASAT-22	98.00	N	PART	2	2556
101500502	CHN		CHINASAT-3	98.00	N	PART	2	2575
109500876	CHN		CHINASAT-31	80.00	N	PART	2	2680
109500877	CHN		CHINASAT-32	140.00	N	PART	2	2680
107500478	CHN		CHINASAT-33	110.50	N	PART	2	2680
110500133	CHN		CHINASAT-34A	79.60	N	PART	2	2694
110500134	CHN		CHINASAT-34B	84.00	N	PART	2	2694
110500115	CHN		CHINASAT-35B	140.40	N	PART	2	2693
110500135	CHN		CHINASAT-35C	144.50	N	PART	2	2694
107500125	CHN		CHINASAT-4	130.00	N	PART	2	2686
108501183	CHN		CHINASAT-44	98.00	N	PART	2	2687
108501038	CHN		CHINASAT-45	101.50	N	PART	2	2757
105500289	CHN		CHINASAT-46	105.00	N	PART	2	2654
109500020	CHN		CHINASAT-49	125.00	N	PART	2	2670
109500021	CHN		CHINASAT-51.5E	51.50	N	PART	2	2735
105500221	CHN		CHINASAT-6	110.50	N	PART	2	2554
110500099	CHN		CHINASAT-64	98.00	N	PART	2	2689
110500098	CHN		CHINASAT-65	103.00	N	PART	2	2689
105500478	CHN		CHINASAT-92.2E	92.20	N	PART	1	2681
108501216	CHN		CHINASAT-MSB4	115.50	N	PART	1	2710
108501132	CHN		CHINASAT-MSB5	125.00	N	PART	1	2692

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106500383	CHN		CHNBSAT-92.2E	92.20	N	PART	2	2743
111500204	CHN		CHNSAT-130E	130.00	N	PART	2	2719
112500129	CHN		CHNSAT-2-130E	130.00	N	PART	2	2731
103500418	CHN		COMPASS-110.5E	110.50	N	PART	2	2681
103500419	CHN		COMPASS-140E	140.00	N	PART	2	2684
109500803	CHN		COMPASS-160E	160.00	N	PART	2	2701
103500416	CHN		COMPASS-58.75E	58.75	N	PART	2	2687
103500417	CHN		COMPASS-80E	80.00	N	PART	2	2689
108501265	CHN		CTDRS-1-77E	77.00	N	PART	2	2691
108501266	CHN		CTDRS-1-80E	80.00	N	PART	2	2692
112500234	CHN		CTDRS-2-16.8E	16.80	N	PART	2	2740
111500116	CHN		CTDRS-2-176.8E	176.80	N	PART	2	2722
105500526	CHN		DFH-3A-OB	110.50	N	PART	2	2656
108501200	CHN		DFH-3A-OC	98.00	N	PART	2	2685
110500170	CHN		DFH-3A-OD	130.00	N	PART	2	2693
101500189	CHN		DFH-3-OA	125.00	N	PART	2	2592
101500503	CHN		DFH-3-OB	103.00	N	PART	2	2722
101500500	CHN		DFH-3-OC	87.50	N	PART	2	2625
109500843	CHN		DFH-3-OC M	87.50	N	PART	1	2759
109500013	CHN		DFH-3-OD	115.50	N	PART	2	2697
95500597	CHN		DFH-3-OE	121.00	N	PART	2	2352
105500161	CHN		DFH-4-OA	125.00	N	PART	2	2662
108500967	CHN		DFH-4-OB	103.00	N	PART	2	2649
108501060	CHN		DFH-4-OD	115.50	N	PART	2	2652
108501095	CHN		DFH-5-OD	115.50	N	PART	1	2686
104500597	CHN		FY-2A	105.00	N	PART	2	2626
105500156	CHN		FY-2AS	105.00	N	PART	2	2691
105500157	CHN		FY-2B	86.50	N	PART	2	2691
105500158	CHN		FY-2BS	86.50	N	PART	2	2691
105500159	CHN		FY-2C	123.50	N	PART	2	2691
105500160	CHN		FY-2CS	123.50	N	PART	2	2691
108501255	CHN		SINOSAT-3C	130.00	N	PART	2	2707
108501206	CHN		SINOSAT-92.2E	92.20	N	PART	2	2659
90500007	CHN		STW-1	125.00	N	PART	2	2256
101500504	CHN		STW-2	103.00	N	PART	2	2613
109500101	CLM	ASA	SIMON BOLIVAR 2	-67.00	N	PART	2	2676
109520244	CLM		SATCOL 1B	-70.90	C	CR/C	2472	2678
110520469	CLM		SATCOL 1P	-38.00	C	CR/C	2789	2703
110520469	CLM		SATCOL 1P	-38.00	C	CR/E	41	2703
111520041	CLM		SATCOL 1Q	-131.00	C	CR/C	2814	2710
112540683	CTI	RAS	RASCOM-5G-A	-21.10	A	API/A	7758	2727
112540684	CTI	RAS	RASCOM-5G-B	-15.10	A	API/A	7759	2727
112540685	CTI	RAS	RASCOM-5G-C	-9.10	A	API/A	7760	2727
112540686	CTI	RAS	RASCOM-5G-D	-3.10	A	API/A	7761	2727
112540687	CTI	RAS	RASCOM-5G-E	2.90	A	API/A	7762	2727
112540688	CTI	RAS	RASCOM-5G-F	9.00	A	API/A	7763	2727
112540689	CTI	RAS	RASCOM-5G-G	14.00	A	API/A	7764	2727
112540690	CTI	RAS	RASCOM-5G-H	20.00	A	API/A	7765	2727
112540691	CTI	RAS	RASCOM-5G-I	26.00	A	API/A	7766	2727
112540692	CTI	RAS	RASCOM-5G-J	32.00	A	API/A	7767	2727
112540693	CTI	RAS	RASCOM-5G-K	38.00	A	API/A	7768	2727

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112540694	CTI	RAS	RASCOM-5G-L	44.00	A	API/A	7769	2727
112540695	CTI	RAS	RASCOM-5G-M	50.00	A	API/A	7770	2727
110520076	CTI	RAS	RASCOM-3G-D	1.00	C	CR/C	2586	2691
110520077	CTI	RAS	RASCOM-3G-E	2.90	C	CR/C	2587	2691
110520078	CTI	RAS	RASCOM-3G-F	14.00	C	CR/C	2588	2691
110520079	CTI	RAS	RASCOM-3G-G	17.00	C	CR/C	2589	2691
110520080	CTI	RAS	RASCOM-3G-H	23.50	C	CR/C	2590	2691
110520081	CTI	RAS	RASCOM-3G-J	31.00	C	CR/C	2591	2691
110520082	CTI	RAS	RASCOM-3G-K	38.00	C	CR/C	2592	2691
109500221	CTI	RAS	RASCOM-C	5.50	N	PART	2	2667
113540046	CYP		JUPITER-1A	28.00	A	API/A	8260	2744
113540047	CYP		JUPITER-1B	40.00	A	API/A	8261	2744
113540048	CYP		JUPITER-1C	55.50	A	API/A	8262	2754
113540049	CYP		JUPITER-2A	-68.00	A	API/A	8263	2744
113540050	CYP		JUPITER-2B	-80.00	A	API/A	8264	2744
113540051	CYP		JUPITER-2C	-92.00	A	API/A	8265	2744
113540052	CYP		JUPITER-3A	148.00	A	API/A	8266	2744
113540053	CYP		JUPITER-3B	160.00	A	API/A	8267	2744
113540054	CYP		JUPITER-3C	172.00	A	API/A	8268	2744
111540110	CYP		KYPROS-AEGAEON	-12.50	A	API/A	6761	2694
111540084	CYP		KYPROS-CAERUS	114.00	A	API/A	6736	2694
111540063	CYP		KYPROS-CRONOS	-26.00	A	API/A	6722	2694
111540111	CYP		KYPROS-ELPIS	-123.00	A	API/A	6762	2694
111540112	CYP		KYPROS-HEBE	-101.00	A	API/A	6763	2694
111540086	CYP		KYPROS-HEMERA	103.00	A	API/A	6738	2694
111540087	CYP		KYPROS-HERACLES	150.00	A	API/A	6739	2694
111540064	CYP		KYPROS-IRIS	-34.00	A	API/A	6723	2694
111540113	CYP		KYPROS-KRATOS	-79.00	A	API/A	6764	2694
111540065	CYP		KYPROS-ODYSSEUS	-134.00	A	API/A	6724	2694
111540068	CYP		KYPROS-PLUTONAS	-149.00	A	API/A	6727	2694
111540090	CYP		KYPROS-SELENE	76.00	A	API/A	6742	2694
111540069	CYP		KYPROS-TITANOS	-42.00	A	API/A	6728	2694
111540114	CYP		KYPROS-ZEPHYRUS	32.00	A	API/A	6765	2694
113540222	CYP		OLYMPUS-1A	33.50	A	API/A	8423	2753
113540223	CYP		OLYMPUS-1B	36.00	A	API/A	8424	2753
113540224	CYP		OLYMPUS-1C	41.00	A	API/A	8425	2753
113540225	CYP		OLYMPUS-1D	42.50	A	API/A	8426	2753
113540226	CYP		OLYMPUS-1E	43.50	A	API/A	8427	2753
113540227	CYP		OLYMPUS-1F	45.50	A	API/A	8428	2753
113540228	CYP		OLYMPUS-1G	46.50	A	API/A	8429	2753
111520240	CYP		KYPROS-ACHILLEAS	174.00	C	CR/C	2970	2724
111520244	CYP		KYPROS-AETHER	-2.00	C	CR/C	2976	2725
108520196	CYP		KYPROS-APHRODITE	90.00	C	CR/C	2279	2650
111520150	CYP		KYPROS-APHRODITE-2	90.00	C	CR/C	2901	2719
110520263	CYP		KYPROS-APOLLO	-56.00	C	CR/C	2719	2703
109520238	CYP		KYPROS-ARES	89.50	C	CR/C	2473	2716
109520238	CYP		KYPROS-ARES	89.50	C	CR/E	72	2716
108520253	CYP		KYPROS-ARTEMIS	-174.50	C	CR/C	2298	2652
111520151	CYP		KYPROS-ARTEMIS-2	-174.50	C	CR/C	2902	2718
111520245	CYP		KYPROS-ASTERIA	61.00	C	CR/C	2972	2725
108520197	CYP		KYPROS-ATHENA	22.50	C	CR/C	2280	2650

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111520193	CYP		KYPROS-ATHENA-2	22.50	C	CR/C	2903	2719
111520246	CYP		KYPROS-ATLAS	123.00	C	CR/C	2975	2724
111520247	CYP		KYPROS-EUROPA	16.50	C	CR/C	2977	2725
110520264	CYP		KYPROS-HERA	107.50	C	CR/C	2718	2703
111520194	CYP		KYPROS-HERMES-2	57.00	C	CR/C	2904	2719
111520241	CYP		KYPROS-OKEANOS	-161.00	C	CR/C	2971	2724
113520031	CYP		KYPROS-ORION	89.50	C	CR/C	3340	2758
113520031	CYP		KYPROS-ORION	89.50	C	CR/E	521	2758
111520242	CYP		KYPROS-PERSEUS	-50.50	C	CR/C	2969	2725
108520198	CYP		KYPROS-POSEIDON	-52.50	C	CR/C	2281	2650
111520195	CYP		KYPROS-POSEIDON-2	-52.50	C	CR/C	2905	2719
111520248	CYP		KYPROS-PROMETHEUS	134.00	C	CR/C	2974	2724
111520128	CYP		KYPROS-SAT-5	39.00	C	CR/C	2899	2749
111520249	CYP		KYPROS-THALASSA	47.00	C	CR/C	2973	2725
113520032	CYP		KYPROS-THEMIS	54.50	C	CR/C	3339	2758
113520032	CYP		KYPROS-THEMIS	54.50	C	CR/E	520	2758
111520243	CYP		KYPROS-URANUS	-172.50	C	CR/C	2968	2724
108520199	CYP		KYPROS-ZEUS	54.00	C	CR/C	2282	2650
111520196	CYP		KYPROS-ZEUS-2	54.00	C	CR/C	2906	2719
108501035	CYP		KYPROS-SAT-C	39.00	N	PART	2	2652
108501096	CYP		KYPROS-SAT-L4	39.00	N	PART	2	2652
111540487	CZE		CESASAT-2-1	14.00	A	API/A	7013	2703
111540488	CZE		CESASAT-2-2	18.00	A	API/A	7014	2703
111540489	CZE		CESASAT-2-3	22.50	A	API/A	7015	2703
111540490	CZE		CESASAT-2-4	27.00	A	API/A	7016	2703
111540491	CZE		CESASAT-2-5	32.00	A	API/A	7017	2703
111540492	CZE		CESASAT-2-6	37.50	A	API/A	7018	2703
111540493	CZE		CESASAT-2-7	43.50	A	API/A	7019	2703
111540494	CZE		CESASAT-2-8	48.50	A	API/A	7020	2703
113540230	CZE		PEKASAT-1	-2.00	A	API/A	8432	2753
113540239	CZE		PEKASAT-10	34.50	A	API/A	8441	2753
113540240	CZE		PEKASAT-11	37.50	A	API/A	8442	2753
113540241	CZE		PEKASAT-12	43.50	A	API/A	8443	2753
113540231	CZE		PEKASAT-2	1.00	A	API/A	8433	2753
113540232	CZE		PEKASAT-3	8.00	A	API/A	8434	2753
113540233	CZE		PEKASAT-4	11.50	A	API/A	8435	2753
113540234	CZE		PEKASAT-5	14.50	A	API/A	8436	2753
113540235	CZE		PEKASAT-6	18.00	A	API/A	8437	2753
113540236	CZE		PEKASAT-7	22.50	A	API/A	8438	2753
113540237	CZE		PEKASAT-8	27.00	A	API/A	8439	2753
113540238	CZE		PEKASAT-9	29.50	A	API/A	8440	2753
107520286	CZE		CESASAT-2	18.00	C	CR/C	2124	2637
109520010	CZE		CESASAT-7	46.00	C	CR/C	2364	2659
107520307	D	EUM	METEOSAT IODC_67.5E	67.50	C	CR/C	2129	2669
112520034	D	EUM	MSG-3.5E	3.50	C	CR/C	3116	2723
110520422	D	EUM	MTG-D1_0E	0.00	C	CR/C	2776	2708
110520423	D	EUM	MTG-D1_3.4W	-3.40	C	CR/C	2783	2708
110520424	D	EUM	MTG-D1_9.5E	9.50	C	CR/C	2777	2708
111500206	D	EUM	METEOSAT IODC_57.5E	57.50	N	PART	2	2730
113540151	D		GENESIS-13	-37.00	A	API/A	8361	2750
113540152	D		GENESIS-14	13.00	A	API/A	8362	2750

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113540153	D		GENESIS-15	63.00	A	API/A	8363	2750
113540147	D		GESACOM-1	-19.00	A	API/A	8357	2750
113540148	D		GESACOM-2	40.00	A	API/A	8358	2750
113540149	D		GESACOM-3	43.50	A	API/A	8359	2750
113540150	D		GESACOM-4	79.00	A	API/A	8360	2750
108520025	D		EUROPE*STAR-47.5E-A	47.50	C	CR/C	2225	2629
106520112	D		EUROPESTAR-45E	45.00	C	CR/C	1889	2749
111520232	D		EUROPESTAR-45E-KA	45.00	C	CR/C	2957	2722
106520113	D		EUROPESTAR-47.5E	47.50	C	CR/C	1890	2749
111520233	D		EUROPESTAR-47.5E-KA	47.50	C	CR/C	2958	2722
108520034	D		GENESIS-10	-37.00	C	CR/C	2149	2638
108520036	D		GENESIS-12	63.00	C	CR/C	2151	2638
113520182	D		H2SAT-0.5E	0.50	C	CR/C	3428	2759
112520485	D		H2SAT-11.5E	11.50	C	CR/C	3309	2758
112520486	D		H2SAT-17.6E	17.60	C	CR/C	3310	2758
112520487	D		H2SAT-43.5E	43.50	C	CR/C	3311	2758
107500643	D		DFS II-1	23.50	N	PART	2	2666
107500494	D		DFS II-2	28.50	N	PART	2	2638
92500176	D		DFS-1	23.50	N	PART	1	2678
92500177	D		DFS-2	28.50	N	PART	1	2678
104500143	D		EUROPE*STAR-1	45.00	N	PART	2	2606
104500144	D		EUROPE*STAR-3	47.50	N	PART	2	2602
111500246	D		GENESIS-11	13.00	N	PART	2	2720
109500171	D		GENESIS-8	13.00	N	PART	2	2735
109500420	D		GENESIS-9	63.00	N	PART	2	2712
113540071	E		HISPASAT-14A	-74.00	A	API/A	8286	2745
113540072	E		HISPASAT-15A	-58.50	A	API/A	8287	2755
113540090	E		HISPASAT-16A	-36.00	A	API/A	8306	2746
113540398	E		HISPASAT-17A	-65.00	A	API/A	8537	2754
113540595	E		HISPASAT-18A	-47.50	A	API/A	8705	2759
109520110	E		HISPASAT 2A 36W	-36.00	C	CR/C	2416	2670
113520004	E		HISPASAT-10A	-30.00	C	CR/C	3324	2759
113523003	E		HISPASAT-10A_1	-30.00	C	CR/F	29	2745
113520090	E		HISPASAT-11A	45.00	C	CR/C	3380	2751
113523029	E		HISPASAT-11A_1	45.00	C	CR/F	53	2751
113520171	E		HISPASAT-12A	-52.50	C	CR/C	3421	2758
113523035	E		HISPASAT-12A_1	-52.50	C	CR/F	60	2758
113520172	E		HISPASAT-13A	-26.00	C	CR/C	3422	2758
113523036	E		HISPASAT-13A_1	-26.00	C	CR/F	61	2758
110520014	E		HISPASAT-3A	-30.00	C	CR/C	2564	2689
112520215	E		HISPASAT-4A	-65.00	C	CR/C	3217	2746
111520124	E		HISPASAT-5A	-47.50	C	CR/C	2900	2722
111520213	E		HISPASAT-6A	-26.00	C	CR/C	2956	2722
112520072	E		HISPASAT-7A	-36.00	C	CR/C	3173	2744
112523004	E		HISPASAT-7A_1	-36.00	C	CR/F	6	2736
113520011	E		HISPASAT-9A	-79.00	C	CR/C	3323	2759
113523002	E		HISPASAT-9A_1	-79.00	C	CR/F	28	2745
107520271	E		SECOMSAT B1_41E	41.00	C	CR/C	2117	2635
108520126	E		SECOMSAT B1_47W	-47.00	C	CR/C	2215	2643
112520422	E		SECOMSAT-29E	29.00	C	CR/C	3271	2752
113520124	E		SECOMSAT-50E	50.00	C	CR/C	3391	2754



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113520123	E		SECOMSAT-78E	78.00	C	CR/C	3392	2754
111520030	E		SECOMSAT-B1_22E	22.00	C	CR/C	2834	2731
108520282	E		SECOMSAT-B1_29E	29.00	C	CR/C	2321	2638
110520031	E		SECOMSAT-B1-36E	36.00	C	CR/C	2572	2713
110520032	E		SECOMSAT-B1-50E	50.00	C	CR/C	2573	2713
112520035	E		SECOMSAT-B1-R_41E	41.00	C	CR/C	3117	2741
113520052	E		SECOMSAT-B1-R_47W	-47.00	C	CR/C	3363	2747
113520052	E		SECOMSAT-B1-R_47W	-47.00	C	CR/E	543	2747
92500108	E		HISPASAT-1	-30.00	N	PART	2	2645
106500012	E		HISPASAT-1D KU	-30.00	N	PART	2	2636
102500409	E		HISPASAT-2A KU	-30.00	N	PART	2	2548
105500025	E		HISPASAT-2A X	-30.00	N	PART	2	2634
105500092	E		HISPASAT-2AKA	-30.00	N	PART	2	2745
105500093	E		HISPASAT-2B 30KA	-30.00	N	PART	2	2632
100500226	E		HISPASAT-2B KU	-30.00	N	PART	2	2745
100500225	E		HISPASAT-2C3 KU	-30.00	N	PART	2	2745
104500108	E		HISPASAT-2D KU	-30.00	N	PART	2	2589
105500624	E		SECOMSAT B29E	29.00	N	PART	2	2678
112540949	EGY		EGJAN10A	35.00	A	API/A	7944	2754
112540961	EGY		EGJAN10B	40.00	A	API/A	7956	2732
112540950	EGY		EGJAN11A	40.00	A	API/A	7945	2754
112540962	EGY		EGJAN11B	46.00	A	API/A	7957	2732
112540951	EGY		EGJAN12A	45.00	A	API/A	7946	2754
112540963	EGY		EGJAN12B	52.00	A	API/A	7958	2732
112540964	EGY		EGJAN13B	58.00	A	API/A	7959	2732
112540965	EGY		EGJAN14B	64.00	A	API/A	7960	2732
112540940	EGY		EGJAN1A	-7.00	A	API/A	7935	2754
112540952	EGY		EGJAN1B	-14.00	A	API/A	7947	2732
112540941	EGY		EGJAN2A	-3.00	A	API/A	7936	2754
112540953	EGY		EGJAN2B	-8.00	A	API/A	7948	2732
112540942	EGY		EGJAN3A	1.00	A	API/A	7937	2754
112540954	EGY		EGJAN3B	-2.00	A	API/A	7949	2732
112540943	EGY		EGJAN4A	5.00	A	API/A	7938	2754
112540955	EGY		EGJAN4B	4.00	A	API/A	7950	2732
112540944	EGY		EGJAN5A	10.00	A	API/A	7939	2754
112540956	EGY		EGJAN5B	10.00	A	API/A	7951	2732
112540945	EGY		EGJAN6A	15.00	A	API/A	7940	2754
112540957	EGY		EGJAN6B	16.00	A	API/A	7952	2732
112540946	EGY		EGJAN7A	20.00	A	API/A	7941	2754
112540958	EGY		EGJAN7B	22.00	A	API/A	7953	2732
112540947	EGY		EGJAN8A	25.00	A	API/A	7942	2754
112540959	EGY		EGJAN8B	28.00	A	API/A	7954	2732
112540948	EGY		EGJAN9A	30.00	A	API/A	7943	2754
112540960	EGY		EGJAN9B	34.00	A	API/A	7955	2732
109520317	EGY		NAVISAT-11A	28.25	C	CR/C	2533	2686
109520318	EGY		NAVISAT-12A	35.50	C	CR/C	2534	2686
109520319	EGY		NAVISAT-14A	44.00	C	CR/C	2535	2686
109520315	EGY		NAVISAT-2A	21.00	C	CR/C	2531	2686
110520449	EGY		NAVISAT-7A	1.00	C	CR/C	2780	2716
110520449	EGY		NAVISAT-7A	1.00	C	CR/E	34	2716
109520316	EGY		NAVISAT-9A	14.00	C	CR/C	2532	2686

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109520031	EGY		NILESAT-301-7W	-7.00	C	CR/C	2376	2644
113500037	EGY		NILESAT-103	-7.00	N	PART	2	2751
101500511	F	ESA	MSG	0.00	N	PART	2	2548
101500512	F	ESA	MSG-S1	10.00	N	PART	2	2694
101500510	F	ESA	MSG-S2	-10.00	N	PART	2	2684
95540336	F	EUT	EUTELSAT-KA-48E	48.00	A	AR11/A	1471	2306
90500631	F	EUT	EUTELSAT 1-3	7.00	N	PART	1	2702
92500311	F	EUT	EUTELSAT 1-5	21.50	N	PART	2	2684
101500027	F	EUT	EUTELSAT 1-8	25.50	N	PART	2	2561
92500315	F	EUT	EUTELSAT 2-10E	10.00	N	PART	2	2553
92500313	F	EUT	EUTELSAT 2-13E	13.00	N	PART	2	2552
92500314	F	EUT	EUTELSAT 2-16E	16.00	N	PART	2	2468
95500111	F	EUT	EUTELSAT 2-21.5E	21.50	N	PART	2	2561
95500112	F	EUT	EUTELSAT 2-33E	33.00	N	PART	1	2608
92500316	F	EUT	EUTELSAT 2-36E	36.00	N	PART	2	2552
101500079	F	EUT	EUTELSAT 2-4E	4.00	N	PART	2	2734
92500312	F	EUT	EUTELSAT 2-7E	7.00	N	PART	2	2553
103500286	F	EUT	EUTELSAT 3-10E	10.00	N	PART	2	2616
99500228	F	EUT	EUTELSAT 3-12.5W	-12.50	N	PART	2	2617
103500287	F	EUT	EUTELSAT 3-13E	13.00	N	PART	2	2617
103500288	F	EUT	EUTELSAT 3-16E	16.00	N	PART	2	2617
103500312	F	EUT	EUTELSAT 3-21.5E	21.50	N	PART	2	2627
108500798	F	EUT	EUTELSAT 3-25.5E	25.50	N	PART	2	2692
103500313	F	EUT	EUTELSAT 3-33E	33.00	N	PART	2	2608
103500314	F	EUT	EUTELSAT 3-36E	36.00	N	PART	2	2608
103500327	F	EUT	EUTELSAT 3-4E	4.00	N	PART	2	2734
103500277	F	EUT	EUTELSAT 3-70.5E	70.50	N	PART	2	2682
103500280	F	EUT	EUTELSAT 3-7E	7.00	N	PART	2	2606
107500525	F	EUT	EUTELSAT-B1-13E	13.00	N	PART	2	2633
107500234	F	EUT	EUTELSAT-B1-16E	16.00	N	PART	2	2711
107500232	F	EUT	EUTELSAT-B1-7E	7.00	N	PART	2	2690
103500079	F	EUT	EUTELSAT-E-70.5E	70.50	N	PART	2	2604
105500069	F	EUT	EUTELSAT-KA-13E	13.00	N	PART	2	2640
105500068	F	EUT	EUTELSAT-KA-16E	16.00	N	PART	2	2711
108500581	F	EUT	EUTELSAT-KA-33E	33.00	N	PART	2	2707
108500578	F	EUT	EUTELSAT-KA-36E	36.00	N	PART	2	2708
105500071	F	EUT	EUTELSAT-KA-7E	7.00	N	PART	2	2634
109540453	F		AST-108W	-108.00	A	API/A	5701	2705
111540010	F		AST-2-0E	0.00	A	API/A	6694	2705
111540019	F		AST-2-108E	108.00	A	API/A	6703	2705
111540020	F		AST-2-120E	120.00	A	API/A	6704	2705
111540030	F		AST-2-120W	-120.00	A	API/A	6684	2705
111540011	F		AST-2-12E	12.00	A	API/A	6695	2705
111540039	F		AST-2-12W	-12.00	A	API/A	6693	2705
111540021	F		AST-2-132E	132.00	A	API/A	6705	2705
111540029	F		AST-2-132W	-132.00	A	API/A	6683	2705
111540022	F		AST-2-144E	144.00	A	API/A	6706	2705
111540028	F		AST-2-144W	-144.00	A	API/A	6682	2705
111540023	F		AST-2-156E	156.00	A	API/A	6707	2705
111540027	F		AST-2-156W	-156.00	A	API/A	6681	2705
111540024	F		AST-2-168E	168.00	A	API/A	6708	2705

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111540026	F		AST-2-168W	-168.00	A	API/A	6680	2705
111540025	F		AST-2-180E	180.00	A	API/A	6709	2691
111540012	F		AST-2-24E	24.00	A	API/A	6696	2705
111540038	F		AST-2-24W	-24.00	A	API/A	6692	2705
111540013	F		AST-2-36E	36.00	A	API/A	6697	2705
111540037	F		AST-2-36W	-36.00	A	API/A	6691	2705
111540014	F		AST-2-48E	48.00	A	API/A	6698	2705
111540036	F		AST-2-48W	-48.00	A	API/A	6690	2705
111540015	F		AST-2-60E	60.00	A	API/A	6699	2705
111540035	F		AST-2-60W	-60.00	A	API/A	6689	2705
111540016	F		AST-2-72E	72.00	A	API/A	6700	2705
111540034	F		AST-2-72W	-72.00	A	API/A	6688	2705
111540017	F		AST-2-84E	84.00	A	API/A	6701	2705
111540033	F		AST-2-84W	-84.00	A	API/A	6687	2705
111540018	F		AST-2-96E	96.00	A	API/A	6702	2705
111540032	F		AST-2-96W	-96.00	A	API/A	6686	2705
112541074	F		AST-3-0E	0.00	A	API/A	7994	2734
112541083	F		AST-3-108E	108.00	A	API/A	8003	2734
112541065	F		AST-3-108W	-108.00	A	API/A	7985	2734
112541084	F		AST-3-120E	120.00	A	API/A	8004	2734
112541064	F		AST-3-120W	-120.00	A	API/A	7984	2734
112541075	F		AST-3-12E	12.00	A	API/A	7995	2734
112541073	F		AST-3-12W	-12.00	A	API/A	7993	2734
112541085	F		AST-3-132E	132.00	A	API/A	8005	2734
112541063	F		AST-3-132W	-132.00	A	API/A	7983	2734
112541086	F		AST-3-144E	144.00	A	API/A	8006	2734
112541062	F		AST-3-144W	-144.00	A	API/A	7982	2734
112541087	F		AST-3-156E	156.00	A	API/A	8007	2734
112541061	F		AST-3-156W	-156.00	A	API/A	7981	2734
112541088	F		AST-3-168E	168.00	A	API/A	8008	2734
112541060	F		AST-3-168W	-168.00	A	API/A	7980	2734
112541089	F		AST-3-180E	180.00	A	API/A	8009	2734
112541076	F		AST-3-24E	24.00	A	API/A	7996	2734
112541072	F		AST-3-24W	-24.00	A	API/A	7992	2734
112541077	F		AST-3-36E	36.00	A	API/A	7997	2734
112541071	F		AST-3-36W	-36.00	A	API/A	7991	2734
112541078	F		AST-3-48E	48.00	A	API/A	7998	2734
112541070	F		AST-3-48W	-48.00	A	API/A	7990	2734
112541079	F		AST-3-60E	60.00	A	API/A	7999	2734
112541069	F		AST-3-60W	-60.00	A	API/A	7989	2734
112541080	F		AST-3-72E	72.00	A	API/A	8000	2734
112541068	F		AST-3-72W	-72.00	A	API/A	7988	2734
112541081	F		AST-3-84E	84.00	A	API/A	8001	2734
112541067	F		AST-3-84W	-84.00	A	API/A	7987	2734
112541082	F		AST-3-96E	96.00	A	API/A	8002	2734
112541066	F		AST-3-96W	-96.00	A	API/A	7986	2734
112540170	F		AST-W-115W	-115.00	A	API/A	7446	2719
112540169	F		AST-W-121W	-121.00	A	API/A	7445	2719
112540168	F		AST-W-127W	-127.00	A	API/A	7444	2719
112540167	F		AST-W-132W	-132.00	A	API/A	7443	2719
112540166	F		AST-W-135W	-135.00	A	API/A	7442	2719

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113540548	F		AST-W2-115W	-115.00	A	API/A	8674	2756
113540547	F		AST-W2-121W	-121.00	A	API/A	8673	2756
113540546	F		AST-W2-127W	-127.00	A	API/A	8672	2756
113540545	F		AST-W2-132W	-132.00	A	API/A	8671	2756
113540544	F		AST-W2-135W	-135.00	A	API/A	8670	2756
112540556	F		ATHENA-FIDUS-36.5E	36.50	A	API/A	7693	2723
111540695	F		BASAT E000	0.00	A	API/A	7127	2721
111540696	F		BASAT E006	6.00	A	API/A	7128	2721
111540697	F		BASAT E012	12.00	A	API/A	7129	2721
111540698	F		BASAT E018	18.00	A	API/A	7130	2721
111540699	F		BASAT E024	24.00	A	API/A	7131	2721
111540700	F		BASAT E030	30.00	A	API/A	7132	2721
111540701	F		BASAT E036	36.00	A	API/A	7133	2721
111540702	F		BASAT E042	42.00	A	API/A	7134	2721
111540703	F		BASAT E048	48.00	A	API/A	7135	2721
111540704	F		BASAT E054	54.00	A	API/A	7136	2721
111540706	F		BASAT E066	66.00	A	API/A	7138	2721
111540707	F		BASAT E072	72.00	A	API/A	7139	2721
111540708	F		BASAT E078	78.00	A	API/A	7140	2721
111540709	F		BASAT E084	84.00	A	API/A	7141	2721
111540710	F		BASAT E090	90.00	A	API/A	7142	2721
111540711	F		BASAT E096	96.00	A	API/A	7143	2721
111540712	F		BASAT E102	102.00	A	API/A	7144	2721
111540713	F		BASAT E108	108.00	A	API/A	7145	2721
111540714	F		BASAT E114	114.00	A	API/A	7146	2721
111540715	F		BASAT E120	120.00	A	API/A	7147	2721
111540716	F		BASAT E126	126.00	A	API/A	7148	2721
111540717	F		BASAT E132	132.00	A	API/A	7149	2721
111540718	F		BASAT E138	138.00	A	API/A	7150	2721
111540719	F		BASAT E144	144.00	A	API/A	7151	2721
111540720	F		BASAT E150	150.00	A	API/A	7152	2721
111540721	F		BASAT E156	156.00	A	API/A	7153	2721
111540722	F		BASAT E162	162.00	A	API/A	7154	2721
111540723	F		BASAT E168	168.00	A	API/A	7155	2721
111540724	F		BASAT E174	174.00	A	API/A	7156	2721
111540725	F		BASAT E180	180.00	A	API/A	7157	2735
111540694	F		BASAT W006	-6.00	A	API/A	7126	2721
111540693	F		BASAT W012	-12.00	A	API/A	7125	2721
111540692	F		BASAT W018	-18.00	A	API/A	7124	2721
111540691	F		BASAT W024	-24.00	A	API/A	7123	2721
111540690	F		BASAT W030	-30.00	A	API/A	7122	2735
111540689	F		BASAT W036	-36.00	A	API/A	7121	2721
111540688	F		BASAT W042	-42.00	A	API/A	7120	2721
111540687	F		BASAT W048	-48.00	A	API/A	7119	2721
111540686	F		BASAT W054	-54.00	A	API/A	7118	2721
111540685	F		BASAT W060	-60.00	A	API/A	7117	2721
111540684	F		BASAT W066	-66.00	A	API/A	7116	2721
111540683	F		BASAT W072	-72.00	A	API/A	7115	2721
111540682	F		BASAT W078	-78.00	A	API/A	7114	2721
111540681	F		BASAT W084	-84.00	A	API/A	7113	2721
111540680	F		BASAT W090	-90.00	A	API/A	7112	2721

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111540679	F		BASAT W096	-96.00	A	API/A	7111	2721
111540678	F		BASAT W102	-102.00	A	API/A	7110	2721
111540677	F		BASAT W108	-108.00	A	API/A	7109	2721
111540676	F		BASAT W114	-114.00	A	API/A	7108	2721
111540675	F		BASAT W120	-120.00	A	API/A	7107	2721
111540674	F		BASAT W126	-126.00	A	API/A	7106	2735
111540673	F		BASAT W132	-132.00	A	API/A	7105	2721
111540672	F		BASAT W138	-138.00	A	API/A	7104	2721
111540671	F		BASAT W144	-144.00	A	API/A	7103	2721
111540670	F		BASAT W150	-150.00	A	API/A	7102	2721
111540669	F		BASAT W156	-156.00	A	API/A	7101	2721
111540668	F		BASAT W162	-162.00	A	API/A	7100	2721
111540667	F		BASAT W168	-168.00	A	API/A	7099	2721
111540666	F		BASAT W174	-174.00	A	API/A	7098	2735
112541342	F		CD-SAT 148E	148.00	A	API/A	8208	2754
112541343	F		CD-SAT 152E	152.00	A	API/A	8209	2754
111540584	F		EDRS-10	-39.00	A	API/A	7068	2705
111540151	F		EDRS-2	3.00	A	API/A	6775	2702
111540152	F		EDRS-3	-5.00	A	API/A	6776	2702
111540578	F		EDRS-4	-15.00	A	API/A	7062	2705
111540579	F		EDRS-5	-19.00	A	API/A	7063	2705
111540580	F		EDRS-6	-23.00	A	API/A	7064	2705
111540581	F		EDRS-7	-27.00	A	API/A	7065	2705
111540582	F		EDRS-8	-31.00	A	API/A	7066	2705
111540583	F		EDRS-9	-35.00	A	API/A	7067	2705
112540866	F		ESP-19.2E	19.20	A	API/A	7909	2729
112540867	F		ESP-23.5E	23.50	A	API/A	7910	2729
112540868	F		ESP-28.2E	28.20	A	API/A	7911	2729
113540553	F		F-MILSATCOM2-25E	25.00	A	API/A	8681	2756
113540552	F		F-MILSATCOM2-3E	3.00	A	API/A	8680	2756
113540554	F		F-MILSATCOM2-45E	45.00	A	API/A	8682	2756
113540555	F		F-MILSATCOM2-47E	47.00	A	API/A	8683	2756
113540550	F		F-MILSATCOM2-5W	-5.00	A	API/A	8678	2756
113540551	F		F-MILSATCOM2-8W	-8.00	A	API/A	8679	2756
112540710	F		F-SAT-N2-100W	-100.00	A	API/A	7785	2727
112540565	F		F-SAT-N2-142W	-142.00	A	API/A	7702	2723
112540564	F		F-SAT-N2-144W	-144.00	A	API/A	7701	2723
112540563	F		F-SAT-N2-146W	-146.00	A	API/A	7700	2723
112540562	F		F-SAT-N2-148W	-148.00	A	API/A	7699	2723
112540561	F		F-SAT-N2-150W	-150.00	A	API/A	7698	2723
112540560	F		F-SAT-N2-152W	-152.00	A	API/A	7697	2723
112540559	F		F-SAT-N2-154W	-154.00	A	API/A	7696	2723
112540558	F		F-SAT-N2-156W	-156.00	A	API/A	7695	2723
112540557	F		F-SAT-N2-158W	-158.00	A	API/A	7694	2723
112540189	F		F-SAT-N2-21W	-21.00	A	API/A	7462	2719
112540188	F		F-SAT-N2-24W	-24.00	A	API/A	7461	2719
112540173	F		F-SAT-N2-26W	-26.00	A	API/A	7441	2718
112540187	F		F-SAT-N2-28W	-28.00	A	API/A	7460	2719
112540186	F		F-SAT-N2-32W	-32.00	A	API/A	7459	2719
112540185	F		F-SAT-N2-34W	-34.00	A	API/A	7458	2719
112540184	F		F-SAT-N2-36W	-36.00	A	API/A	7457	2719

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112540183	F		F-SAT-N2-39W	-39.00	A	API/A	7456	2719
112540182	F		F-SAT-N2-42.5W	-42.50	A	API/A	7455	2719
112540181	F		F-SAT-N2-47W	-47.00	A	API/A	7454	2719
112540180	F		F-SAT-N2-48W	-48.00	A	API/A	7453	2719
112540179	F		F-SAT-N2-49.5W	-49.50	A	API/A	7452	2719
112540178	F		F-SAT-N2-51.5W	-51.50	A	API/A	7451	2719
112540177	F		F-SAT-N2-52W	-52.00	A	API/A	7450	2719
112540176	F		F-SAT-N2-54W	-54.00	A	API/A	7449	2719
112540175	F		F-SAT-N2-56.5W	-56.50	A	API/A	7448	2719
112540174	F		F-SAT-N2-57W	-57.00	A	API/A	7447	2719
112540697	F		F-SAT-N2-59.5W	-59.50	A	API/A	7772	2727
112540698	F		F-SAT-N2-63.2W	-63.20	A	API/A	7773	2727
112540699	F		F-SAT-N2-66.5W	-66.50	A	API/A	7774	2727
112540700	F		F-SAT-N2-72W	-72.00	A	API/A	7775	2727
112540701	F		F-SAT-N2-74.75W	-74.75	A	API/A	7776	2727
112540702	F		F-SAT-N2-77W	-77.00	A	API/A	7777	2727
112540703	F		F-SAT-N2-80W	-80.00	A	API/A	7778	2727
112540704	F		F-SAT-N2-81W	-81.00	A	API/A	7779	2727
112540705	F		F-SAT-N2-86W	-86.00	A	API/A	7780	2727
112540706	F		F-SAT-N2-90W	-90.00	A	API/A	7781	2727
112540707	F		F-SAT-N2-94W	-94.00	A	API/A	7782	2727
112540708	F		F-SAT-N2-96W	-96.00	A	API/A	7783	2727
112540709	F		F-SAT-N2-97W	-97.00	A	API/A	7784	2727
113540161	F		F-SAT-N3-1.6E	1.60	A	API/A	8336	2750
113540334	F		F-SAT-N3-100W	-100.00	A	API/A	8485	2754
113540166	F		F-SAT-N3-10E	10.00	A	API/A	8341	2750
113540167	F		F-SAT-N3-11.5E	11.50	A	API/A	8342	2750
113540157	F		F-SAT-N3-12.5W	-12.50	A	API/A	8332	2750
113540340	F		F-SAT-N3-133.5E	133.50	A	API/A	8491	2754
113540341	F		F-SAT-N3-136E	136.00	A	API/A	8492	2754
113540168	F		F-SAT-N3-13E	13.00	A	API/A	8343	2750
113540169	F		F-SAT-N3-14.5E	14.50	A	API/A	8344	2750
113540156	F		F-SAT-N3-14.8W	-14.80	A	API/A	8331	2750
113540342	F		F-SAT-N3-155.9E	155.90	A	API/A	8493	2754
113540343	F		F-SAT-N3-169E	169.00	A	API/A	8494	2754
113540170	F		F-SAT-N3-16E	16.00	A	API/A	8345	2750
113540171	F		F-SAT-N3-21.5E	21.50	A	API/A	8346	2750
113540172	F		F-SAT-N3-25.5E	25.50	A	API/A	8347	2750
113540173	F		F-SAT-N3-28.5E	28.50	A	API/A	8348	2750
113540174	F		F-SAT-N3-33E	33.00	A	API/A	8349	2750
113540175	F		F-SAT-N3-34.5E	34.50	A	API/A	8350	2750
113540176	F		F-SAT-N3-36E	36.00	A	API/A	8351	2750
113540339	F		F-SAT-N3-36W	-36.00	A	API/A	8490	2754
113540177	F		F-SAT-N3-37.5E	37.50	A	API/A	8352	2750
113540338	F		F-SAT-N3-39W	-39.00	A	API/A	8489	2754
113540162	F		F-SAT-N3-3E	3.00	A	API/A	8337	2750
113540178	F		F-SAT-N3-48E	48.00	A	API/A	8353	2750
113540163	F		F-SAT-N3-4E	4.00	A	API/A	8338	2750
113540337	F		F-SAT-N3-51.5W	-51.50	A	API/A	8488	2754
113540242	F		F-SAT-N3-55.2W	-55.20	A	API/A	8444	2753
113540179	F		F-SAT-N3-58.45E	58.45	A	API/A	8354	2750

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113540160	F		F-SAT-N3-5W	-5.00	A	API/A	8335	2750
113540180	F		F-SAT-N3-70.5E	70.50	A	API/A	8355	2750
113540181	F		F-SAT-N3-73.5E	73.50	A	API/A	8356	2750
113540164	F		F-SAT-N3-7E	7.00	A	API/A	8339	2750
113540159	F		F-SAT-N3-7W	-7.00	A	API/A	8334	2750
113540336	F		F-SAT-N3-86W	-86.00	A	API/A	8487	2754
113540158	F		F-SAT-N3-8W	-8.00	A	API/A	8333	2750
113540335	F		F-SAT-N3-90W	-90.00	A	API/A	8486	2754
113540165	F		F-SAT-N3-9E	9.00	A	API/A	8340	2750
112540200	F		F-SAT-N-A-1.6E	1.60	A	API/A	7473	2719
112540207	F		F-SAT-N-A-10E	10.00	A	API/A	7479	2719
112540208	F		F-SAT-N-A-11.5E	11.50	A	API/A	7480	2719
112540192	F		F-SAT-N-A-11W	-11.00	A	API/A	7465	2719
112540191	F		F-SAT-N-A-12.5W	-12.50	A	API/A	7464	2719
112540231	F		F-SAT-N-A-133.5E	133.50	A	API/A	7503	2719
112540232	F		F-SAT-N-A-137E	137.00	A	API/A	7504	2719
112540210	F		F-SAT-N-A-14.5E	14.50	A	API/A	7482	2719
112540190	F		F-SAT-N-A-14.8W	-14.80	A	API/A	7463	2719
112540233	F		F-SAT-N-A-155.9E	155.90	A	API/A	7505	2719
112540234	F		F-SAT-N-A-163.5E	163.50	A	API/A	7506	2719
112540235	F		F-SAT-N-A-164.1E	164.10	A	API/A	7507	2719
112540236	F		F-SAT-N-A-169E	169.00	A	API/A	7508	2719
112540212	F		F-SAT-N-A-17.5E	17.50	A	API/A	7484	2719
112540237	F		F-SAT-N-A-170.5E	170.50	A	API/A	7509	2719
112540199	F		F-SAT-N-A-1E	1.00	A	API/A	7472	2719
112540213	F		F-SAT-N-A-21.5E	21.50	A	API/A	7485	2719
112540215	F		F-SAT-N-A-27E	27.00	A	API/A	7487	2719
112540217	F		F-SAT-N-A-33E	33.00	A	API/A	7489	2719
112540218	F		F-SAT-N-A-34.5E	34.50	A	API/A	7490	2719
112540220	F		F-SAT-N-A-37.5E	37.50	A	API/A	7492	2719
112540201	F		F-SAT-N-A-3E	3.00	A	API/A	7474	2719
112540198	F		F-SAT-N-A-3W	-3.00	A	API/A	7471	2719
112540221	F		F-SAT-N-A-40E	40.00	A	API/A	7493	2719
112540202	F		F-SAT-N-A-4E	4.00	A	API/A	7475	2719
112540203	F		F-SAT-N-A-5.5E	5.50	A	API/A	7514	2719
112540223	F		F-SAT-N-A-58.45E	58.45	A	API/A	7495	2719
112540196	F		F-SAT-N-A-6W	-6.00	A	API/A	7469	2719
112540224	F		F-SAT-N-A-70.5E	70.50	A	API/A	7496	2719
112540225	F		F-SAT-N-A-73.5E	73.50	A	API/A	7497	2719
112540226	F		F-SAT-N-A-76E	76.00	A	API/A	7498	2719
112540205	F		F-SAT-N-A-8.5E	8.50	A	API/A	7477	2719
112540227	F		F-SAT-N-A-80.5E	80.50	A	API/A	7499	2719
112540228	F		F-SAT-N-A-83.5E	83.50	A	API/A	7500	2719
112540229	F		F-SAT-N-A-88.5E	88.50	A	API/A	7501	2719
112540193	F		F-SAT-N-A-9.5W	-9.50	A	API/A	7466	2719
112540230	F		F-SAT-N-A-96E	96.00	A	API/A	7502	2719
113540094	F		GEONAVSAT-A	-8.00	A	API/A	8310	2746
113540095	F		GEONAVSAT-B	4.00	A	API/A	8311	2746
113540096	F		GEONAVSAT-C	16.00	A	API/A	8312	2746
113540596	F		HORIZONSAT-1	-1.00	A	API/A	8706	2759
113540597	F		HORIZONSAT-2	48.00	A	API/A	8707	2759

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113540598	F		HORIZONSAT-3	14.00	A	API/A	8708	2759
113540599	F		HORIZONSAT-4	36.00	A	API/A	8709	2759
112541318	F		MCSAT E000	0.00	A	API/A	8184	2741
112541319	F		MCSAT E006	6.00	A	API/A	8185	2741
112541320	F		MCSAT E012	12.00	A	API/A	8186	2741
112541321	F		MCSAT E018	18.00	A	API/A	8187	2741
112541322	F		MCSAT E024	24.00	A	API/A	8188	2741
112541323	F		MCSAT E030	30.00	A	API/A	8189	2741
112541324	F		MCSAT E036	36.00	A	API/A	8190	2741
112541325	F		MCSAT E042	42.00	A	API/A	8191	2741
112541326	F		MCSAT E048	48.00	A	API/A	8192	2741
112541327	F		MCSAT E054	54.00	A	API/A	8193	2741
112541328	F		MCSAT E060	60.00	A	API/A	8194	2741
112541329	F		MCSAT E066	66.00	A	API/A	8195	2741
112541330	F		MCSAT E072	72.00	A	API/A	8196	2741
112541331	F		MCSAT E078	78.00	A	API/A	8197	2741
112541332	F		MCSAT E084	84.00	A	API/A	8198	2741
112541333	F		MCSAT E090	90.00	A	API/A	8199	2741
112541334	F		MCSAT E096	96.00	A	API/A	8200	2741
112541335	F		MCSAT E102	102.00	A	API/A	8201	2741
112541336	F		MCSAT E108	108.00	A	API/A	8202	2741
112541337	F		MCSAT E114	114.00	A	API/A	8203	2741
112541338	F		MCSAT E120	120.00	A	API/A	8204	2741
112541339	F		MCSAT E126	126.00	A	API/A	8205	2741
112541340	F		MCSAT E132	132.00	A	API/A	8206	2741
112541341	F		MCSAT E138	138.00	A	API/A	8207	2741
112541344	F		MCSAT E156	156.00	A	API/A	8210	2741
112541345	F		MCSAT E162	162.00	A	API/A	8211	2741
112541346	F		MCSAT E168	168.00	A	API/A	8212	2741
112541347	F		MCSAT E174	174.00	A	API/A	8213	2741
112541348	F		MCSAT E180	180.00	A	API/A	8214	2741
112541349	F		MCSAT W006	-6.00	A	API/A	8215	2741
112541350	F		MCSAT W012	-12.00	A	API/A	8216	2741
112541351	F		MCSAT W018	-18.00	A	API/A	8217	2741
112541352	F		MCSAT W024	-24.00	A	API/A	8218	2741
112541353	F		MCSAT W030	-30.00	A	API/A	8219	2741
112541354	F		MCSAT W036	-36.00	A	API/A	8220	2741
112541355	F		MCSAT W042	-42.00	A	API/A	8221	2741
112541356	F		MCSAT W048	-48.00	A	API/A	8222	2741
112541357	F		MCSAT W054	-54.00	A	API/A	8223	2741
112541358	F		MCSAT W060	-60.00	A	API/A	8224	2741
112541359	F		MCSAT W066	-66.00	A	API/A	8225	2741
112541360	F		MCSAT W072	-72.00	A	API/A	8226	2741
112541361	F		MCSAT W078	-78.00	A	API/A	8227	2741
112541362	F		MCSAT W084	-84.00	A	API/A	8228	2741
112541363	F		MCSAT W090	-90.00	A	API/A	8229	2741
112541364	F		MCSAT W096	-96.00	A	API/A	8230	2741
112541365	F		MCSAT W102	-102.00	A	API/A	8231	2741
112541366	F		MCSAT W108	-108.00	A	API/A	8232	2741
112541367	F		MCSAT W114	-114.00	A	API/A	8233	2741
112541368	F		MCSAT W120	-120.00	A	API/A	8234	2741



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112541370	F		MCSAT W132	-132.00	A	API/A	8236	2741
112541371	F		MCSAT W138	-138.00	A	API/A	8237	2741
112541372	F		MCSAT W144	-144.00	A	API/A	8238	2741
112541373	F		MCSAT W150	-150.00	A	API/A	8239	2741
112541374	F		MCSAT W156	-156.00	A	API/A	8240	2741
112541375	F		MCSAT W162	-162.00	A	API/A	8241	2741
112541376	F		MCSAT W168	-168.00	A	API/A	8242	2741
112541378	F		MCSAT W174	-174.00	A	API/A	8243	2741
93540106	F		RADIOSAT-5	-7.00	A	AR11/A	942	2082
99543555	F		VIDEOSAT-5	-7.00	A	API/A	888	2399
111520125	F		ASAT W026	-26.00	C	CR/C	2895	2700
111520227	F		ASAT-P1B	-2.80	C	CR/C	2953	2722
111520228	F		ASAT-P2B	25.00	C	CR/C	2954	2722
111520229	F		ASAT-P3B	31.20	C	CR/C	2955	2722
111520306	F		AST-102W	-102.00	C	CR/C	2986	2741
111520153	F		AST-17.5W	-17.50	C	CR/C	2916	2718
109520081	F		ATHENA-FIDUS-23.7E	23.70	C	CR/C	2395	2665
108520320	F		ATHENA-FIDUS-25E	25.00	C	CR/C	2362	2659
109520082	F		ATHENA-FIDUS-31E	31.00	C	CR/C	2396	2665
109520083	F		ATHENA-FIDUS-38E	38.00	C	CR/C	2397	2665
109520084	F		ATHENA-FIDUS-49E	49.00	C	CR/C	2398	2665
107520290	F		ATM-17	1.00	C	CR/C	2130	2637
107520291	F		ATM-21	32.00	C	CR/C	2131	2637
108520039	F		ATM-27	93.50	C	CR/C	2155	2640
108520046	F		ATM-29	123.00	C	CR/C	2156	2640
113520185	F		CD-SAT 123.1W	-123.10	C	CR/C	3429	2759
109520090	F		CP 125.2E	125.20	C	CR/C	2402	2667
112520145	F		CP 60.75E G2	60.75	C	CR/C	3175	2744
112523003	F		CP 60.75E G2_1	60.75	C	CR/F	7	2731
107520228	F		DRN-D1	-2.80	C	CR/C	2087	2636
107520227	F		DRN-D2	-80.00	C	CR/C	2088	2636
107520226	F		DRN-D3	-164.00	C	CR/C	2089	2636
107520229	F		DRN-D4	98.50	C	CR/C	2090	2636
108520188	F		DRN-P1B	-48.00	C	CR/C	2273	2646
108520189	F		DRN-P2B	21.50	C	CR/C	2274	2646
108520190	F		DRN-P3B	31.00	C	CR/C	2275	2646
108520191	F		DRN-P4B	36.50	C	CR/C	2276	2646
109520269	F		DUNIA-2	8.00	C	CR/C	2497	2684
112520438	F		EDRS-31E	31.00	C	CR/C	3285	2753
112520056	F		F-MILSATCOM-25E	25.00	C	CR/C	3132	2741
112520055	F		F-MILSATCOM-3E	3.00	C	CR/C	3131	2741
112520057	F		F-MILSATCOM-45E	45.00	C	CR/C	3133	2741
112520058	F		F-MILSATCOM-47E	47.00	C	CR/C	3134	2741
112520054	F		F-MILSATCOM-5W	-5.00	C	CR/C	3135	2741
112520053	F		F-MILSATCOM-8W	-8.00	C	CR/C	3136	2741
109520017	F		F-SAT-B1-E-3E	3.00	C	CR/C	2370	2643
107520264	F		F-SAT-B1-E-9E	9.00	C	CR/C	2112	2616
110520069	F		F-SAT-E-133.5E	133.50	C	CR/C	2579	2691
110520070	F		F-SAT-E-137E	137.00	C	CR/C	2580	2691
110520071	F		F-SAT-E-155.9E	155.90	C	CR/C	2581	2691
110520073	F		F-SAT-E-163.5E	163.50	C	CR/C	2582	2691

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110520072	F		F-SAT-E-164.1E	164.10	C	CR/C	2583	2691
110520074	F		F-SAT-E-170.5E	170.50	C	CR/C	2584	2691
110520068	F		F-SAT-E-58.45E	58.45	C	CR/C	2578	2691
110520153	F		F-SAT-E-DRS-3E	3.00	C	CR/C	2663	2678
110520154	F		F-SAT-E-DRS-9E	9.00	C	CR/C	2664	2678
107520051	F		F-SAT-KA-E-1.6E	1.60	C	CR/C	1999	2618
109520212	F		F-SAT-KA-E-3E	3.00	C	CR/C	2454	2677
109520056	F		F-SAT-KA-E-76E	76.00	C	CR/C	2387	2665
109520211	F		F-SAT-KB1-E-7W	-7.00	C	CR/C	2453	2751
112523013	F		F-SAT-KB1-E-7W_1	-7.00	C	CR/F	23	2743
108520288	F		F-SAT-K-E-11W	-11.00	C	CR/C	2331	2657
108520289	F		F-SAT-K-E-3W	-3.00	C	CR/C	2330	2657
108520290	F		F-SAT-K-E-40E	40.00	C	CR/C	2332	2657
108520291	F		F-SAT-K-E-80.5E	80.50	C	CR/C	2336	2658
108520292	F		F-SAT-K-E-83.5E	83.50	C	CR/C	2337	2658
108520293	F		F-SAT-K-E-88.5E	88.50	C	CR/C	2338	2658
110520468	F		F-SAT-KM-33E	33.00	C	CR/C	2792	2703
110520468	F		F-SAT-KM-33E	33.00	C	CR/E	44	2703
110520467	F		F-SAT-KM-9E	9.00	C	CR/C	2791	2703
110520467	F		F-SAT-KM-9E	9.00	C	CR/E	43	2703
107520096	F		F-SAT-KU-E-7W	-7.00	C	CR/C	2018	2621
111520077	F		F-SAT-N-11.5E	11.50	C	CR/C	2843	2716
111520077	F		F-SAT-N-11.5E	11.50	C	CR/E	78	2716
111520086	F		F-SAT-N1-1.6E	1.60	C	CR/C	2858	2719
111520091	F		F-SAT-N1-10E	10.00	C	CR/C	2863	2698
111520091	F		F-SAT-N1-10E	10.00	C	CR/E	335	2698
111520105	F		F-SAT-N1-11W	-11.00	C	CR/C	2877	2720
111520100	F		F-SAT-N1-12.5W	-12.50	C	CR/C	2872	2698
111520100	F		F-SAT-N1-12.5W	-12.50	C	CR/E	341	2698
111520118	F		F-SAT-N1-133.5E	133.50	C	CR/C	2891	2720
111520134	F		F-SAT-N1-137E	137.00	C	CR/C	2908	2718
111520092	F		F-SAT-N1-13E	13.00	C	CR/C	2864	2710
111520092	F		F-SAT-N1-13E	13.00	C	CR/E	336	2710
111520133	F		F-SAT-N1-14.8W	-14.80	C	CR/C	2907	2719
111520135	F		F-SAT-N1-155.9E	155.90	C	CR/C	2909	2718
111520136	F		F-SAT-N1-163.5E	163.50	C	CR/C	2910	2718
111520137	F		F-SAT-N1-164.1E	164.10	C	CR/C	2911	2718
111520138	F		F-SAT-N1-169E	169.00	C	CR/C	2912	2718
111520093	F		F-SAT-N1-16E	16.00	C	CR/C	2865	2698
111520093	F		F-SAT-N1-16E	16.00	C	CR/E	337	2698
111520139	F		F-SAT-N1-170.5E	170.50	C	CR/C	2913	2718
111520094	F		F-SAT-N1-21.5E	21.50	C	CR/C	2866	2728
111520095	F		F-SAT-N1-25.5E	25.50	C	CR/C	2867	2728
111520104	F		F-SAT-N1-28.5E	28.50	C	CR/C	2878	2728
111520106	F		F-SAT-N1-33E	33.00	C	CR/C	2879	2728
111520107	F		F-SAT-N1-36E	36.00	C	CR/C	2880	2728
111520087	F		F-SAT-N1-3E	3.00	C	CR/C	2859	2719
111520087	F		F-SAT-N1-3E	3.00	C	CR/E	332	2719
111520096	F		F-SAT-N1-3W	-3.00	C	CR/C	2868	2719
111520078	F		F-SAT-N-14.5E	14.50	C	CR/C	2844	2716
111520078	F		F-SAT-N-14.5E	14.50	C	CR/E	79	2716

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111520108	F		F-SAT-N1-40E	40.00	C	CR/C	2881	2720
111520109	F		F-SAT-N1-48E	48.00	C	CR/C	2882	2728
111520088	F		F-SAT-N1-4E	4.00	C	CR/C	2860	2719
111520110	F		F-SAT-N1-58.45E	58.45	C	CR/C	2883	2720
111520097	F		F-SAT-N1-5W	-5.00	C	CR/C	2869	2710
111520097	F		F-SAT-N1-5W	-5.00	C	CR/E	338	2710
111520079	F		F-SAT-N-17.5E	17.50	C	CR/C	2852	2719
111520111	F		F-SAT-N1-70.5E	70.50	C	CR/C	2884	2728
113520060	F		F-SAT-N-172E	172.00	C	CR/C	3368	2755
113523026	F		F-SAT-N-172E_1	172.00	C	CR/F	49	2750
111520112	F		F-SAT-N1-73.5E	73.50	C	CR/C	2885	2720
111520113	F		F-SAT-N1-76E	76.00	C	CR/C	2886	2728
111520089	F		F-SAT-N1-7E	7.00	C	CR/C	2861	2698
111520089	F		F-SAT-N1-7E	7.00	C	CR/E	333	2698
111520098	F		F-SAT-N1-7W	-7.00	C	CR/C	2870	2710
111520098	F		F-SAT-N1-7W	-7.00	C	CR/E	339	2710
111520114	F		F-SAT-N1-80.5E	80.50	C	CR/C	2887	2720
111520115	F		F-SAT-N1-83.5E	83.50	C	CR/C	2888	2699
111520115	F		F-SAT-N1-83.5E	83.50	C	CR/E	342	2699
111520116	F		F-SAT-N1-88.5E	88.50	C	CR/C	2889	2720
111520099	F		F-SAT-N1-8W	-8.00	C	CR/C	2871	2710
111520099	F		F-SAT-N1-8W	-8.00	C	CR/E	340	2710
111520117	F		F-SAT-N1-96E	96.00	C	CR/C	2890	2711
111520117	F		F-SAT-N1-96E	96.00	C	CR/E	343	2711
111520090	F		F-SAT-N1-9E	9.00	C	CR/C	2862	2716
111520090	F		F-SAT-N1-9E	9.00	C	CR/E	334	2716
111520074	F		F-SAT-N-1E	1.00	C	CR/C	2845	2716
111520074	F		F-SAT-N-1E	1.00	C	CR/E	80	2716
112520396	F		F-SAT-N2-140E	140.00	C	CR/C	3239	2751
112523018	F		F-SAT-N2-140E_1	140.00	C	CR/F	18	2740
112520395	F		F-SAT-N2-39E	39.00	C	CR/C	3238	2751
112523017	F		F-SAT-N2-39E_1	39.00	C	CR/F	19	2740
111520080	F		F-SAT-N-27E	27.00	C	CR/C	2846	2716
111520080	F		F-SAT-N-27E	27.00	C	CR/E	81	2716
111520081	F		F-SAT-N-34.5E	34.50	C	CR/C	2847	2716
111520081	F		F-SAT-N-34.5E	34.50	C	CR/E	331	2716
111520082	F		F-SAT-N-37.5E	37.50	C	CR/C	2853	2719
111520075	F		F-SAT-N-5.5E	5.50	C	CR/C	2850	2719
111520072	F		F-SAT-N-6W	-6.00	C	CR/C	2848	2719
112520491	F		F-SAT-N-7W	-7.00	C	CR/C	3316	2758
112523026	F		F-SAT-N-7W_1	-7.00	C	CR/F	24	2745
111520076	F		F-SAT-N-8.5E	8.50	C	CR/C	2851	2719
111520073	F		F-SAT-N-9.5W	-9.50	C	CR/C	2849	2719
112520413	F		F-SAT-N-A-13E	13.00	C	CR/C	3244	2737
112520414	F		F-SAT-N-A-16E	16.00	C	CR/C	3245	2737
112520415	F		F-SAT-N-A-25.5E	25.50	C	CR/C	3246	2737
112520416	F		F-SAT-N-A-28.5E	28.50	C	CR/C	3247	2737
112520417	F		F-SAT-N-A-36E	36.00	C	CR/C	3248	2737
112520418	F		F-SAT-N-A-48E	48.00	C	CR/C	3249	2737
112520410	F		F-SAT-N-A-5W	-5.00	C	CR/C	3250	2749
112520410	F		F-SAT-N-A-5W	-5.00	C	CR/E	438	2749

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112520411	F		F-SAT-N-A-7E	7.00	C	CR/C	3242	2749
112520411	F		F-SAT-N-A-7E	7.00	C	CR/E	436	2749
112520409	F		F-SAT-N-A-7W	-7.00	C	CR/C	3251	2737
112520408	F		F-SAT-N-A-8W	-8.00	C	CR/C	3252	2737
112520412	F		F-SAT-N-A-9E	9.00	C	CR/C	3243	2749
112520412	F		F-SAT-N-A-9E	9.00	C	CR/E	437	2749
109520291	F		F-SAT-N-E-10E	10.00	C	CR/C	2511	2685
109520285	F		F-SAT-N-E-12.5W	-12.50	C	CR/C	2525	2685
110520211	F		F-SAT-N-E-133.5E	133.50	C	CR/C	2682	2680
110520212	F		F-SAT-N-E-137E	137.00	C	CR/C	2683	2680
109520292	F		F-SAT-N-E-13E	13.00	C	CR/C	2512	2685
109520284	F		F-SAT-N-E-14.8W	-14.80	C	CR/C	2526	2685
110520213	F		F-SAT-N-E-155.9E	155.90	C	CR/C	2684	2680
110520214	F		F-SAT-N-E-163.5E	163.50	C	CR/C	2685	2680
110520215	F		F-SAT-N-E-164.1E	164.10	C	CR/C	2686	2680
110520216	F		F-SAT-N-E-169E	169.00	C	CR/C	2687	2700
109520293	F		F-SAT-N-E-16E	16.00	C	CR/C	2513	2685
110520217	F		F-SAT-N-E-170.5E	170.50	C	CR/C	2688	2680
109520294	F		F-SAT-N-E-21.5E	21.50	C	CR/C	2514	2685
109520295	F		F-SAT-N-E-25.5E	25.50	C	CR/C	2515	2685
109520296	F		F-SAT-N-E-28.5E	28.50	C	CR/C	2516	2685
109520297	F		F-SAT-N-E-33E	33.00	C	CR/C	2517	2685
109520298	F		F-SAT-N-E-36E	36.00	C	CR/C	2518	2685
109520287	F		F-SAT-N-E-3E	3.00	C	CR/C	2508	2685
109520299	F		F-SAT-N-E-48E	48.00	C	CR/C	2519	2685
109520288	F		F-SAT-N-E-4E	4.00	C	CR/C	2509	2685
110520210	F		F-SAT-N-E-58.45E	58.45	C	CR/C	2681	2680
109520286	F		F-SAT-N-E-5W	-5.00	C	CR/C	2523	2685
109520300	F		F-SAT-N-E-70.5E	70.50	C	CR/C	2520	2685
109520301	F		F-SAT-N-E-73.5E	73.50	C	CR/C	2521	2685
109520302	F		F-SAT-N-E-76E	76.00	C	CR/C	2522	2685
109520289	F		F-SAT-N-E-7E	7.00	C	CR/C	2510	2685
109520290	F		F-SAT-N-E-8W	-8.00	C	CR/C	2524	2685
109520275	F		MM 008W	-8.00	C	CR/C	2506	2684
110520221	F		MM 10.25W	-10.25	C	CR/C	2700	2702
109520243	F		MM 55.2W	-55.20	C	CR/C	2480	2680
110520218	F		MM 74.75W	-74.75	C	CR/C	2689	2701
110500239	F		3GSAT-G17R	10.00	N	PART	2	2697
112500217	F		CP 60.75E	60.75	N	PART	1	2750
113500064	F		EDRS-1	9.00	N	PART	2	2755
110500280	F		F-SAT-C-E-10E	10.00	N	PART	2	2697
110500034	F		F-SAT-KA-E-13E	13.00	N	PART	2	2704
111500056	F		F-SAT-KA-E-7E	7.00	N	PART	2	2704
112500078	F		F-SAT-KA-E-9E	9.00	N	PART	2	2751
111500029	F		F-SAT-KU2-E-10E	10.00	N	PART	2	2701
111500030	F		F-SAT-KU2-E-12.5W	-12.50	N	PART	2	2701
111500031	F		F-SAT-KU2-E-13E	13.00	N	PART	2	2702
111500032	F		F-SAT-KU2-E-16E	16.00	N	PART	2	2701
111500027	F		F-SAT-KU2-E-4E	4.00	N	PART	2	2728
111500028	F		F-SAT-KU2-E-7E	7.00	N	PART	2	2701
111500055	F		F-SAT-KU3-E-25.5E	25.50	N	PART	2	2704

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111500054	F		F-SAT-KU3-E-33E	33.00	N	PART	2	2705
111500074	F		F-SAT-KU3-E-36E	36.00	N	PART	2	2735
111500033	F		F-SAT-KU3-E-70.5E	70.50	N	PART	2	2702
106500340	F		F-SAT-KU-E-5W	-5.00	N	PART	2	2668
107500250	F		F-SAT-KU-E-8W	-8.00	N	PART	2	2670
112500206	F		F-SAT-S-E-10E	10.00	N	PART	2	2742
110500276	F		GEOSAT-3E	3.00	N	PART	2	2697
106500331	F		SYRACUSE-31C	-8.00	N	PART	2	2746
106500332	F		SYRACUSE-31E	-5.00	N	PART	2	2667
106500333	F		SYRACUSE-31F	3.00	N	PART	2	2668
106500334	F		SYRACUSE-31H	47.00	N	PART	2	2668
103500371	F		SYRACUSE-3C	-8.00	N	PART	2	2746
103500372	F		SYRACUSE-3E	-5.00	N	PART	2	2616
103500373	F		SYRACUSE-3F	3.00	N	PART	2	2620
103500370	F		SYRACUSE-3H	47.00	N	PART	2	2619
112500243	F		SYRACUSE-4E	-5.00	N	PART	2	2747
112500227	F		SYRACUSE-4H	47.00	N	PART	2	2744
92500046	F		TELECOM-2A	-8.00	N	PART	2	2746
92500047	F		TELECOM-2B	-5.00	N	PART	2	2581
92500048	F		TELECOM-2C	3.00	N	PART	2	2583
106500317	F		TELECOM-3A	-8.00	N	PART	2	2746
106500351	F		TELECOM-3B	-5.00	N	PART	2	2606
106500316	F		TELECOM-3C	3.00	N	PART	2	2604
107500300	F		TELECOM-4A	-8.00	N	PART	2	2746
107500336	F		TELECOM-4B	-5.00	N	PART	2	2626
109500885	F		TELECOM-4C	3.00	N	PART	2	2682
101500513	F		VIDEOSAT-6	-8.00	N	PART	2	2693
107500524	F		VIDEOSAT-6-KA	-8.00	N	PART	2	2647
100500161	F		VIDEOSAT-7	-5.00	N	PART	1	2674
107500382	F		VIDEOSAT-7-KA	-5.00	N	PART	2	2622
107500417	F		VIDEOSAT-8-KU-C	3.00	N	PART	1	2648
112541116	G		GBSAT-KA01	33.00	A	API/A	8041	2736
113540091	G		GBSAT-KA-02	95.00	A	API/A	8307	2746
113540092	G		GBSAT-KA-03	107.50	A	API/A	8308	2746
113540093	G		GBSAT-KA-04	45.00	A	API/A	8309	2746
113540097	G		HMG-SAT-01	95.00	A	API/A	8313	2746
113540098	G		HMG-SAT-02	107.50	A	API/A	8314	2746
112540015	G		INMARSAT-2 POR WEST2	107.00	A	API/A	7300	2716
111540166	G		INMARSAT-KA 174E	174.00	A	API/A	6789	2695
111540158	G		INMARSAT-KA 53W	-53.00	A	API/A	6781	2695
111540159	G		INMARSAT-KA 54E	54.00	A	API/A	6782	2695
111540157	G		INMARSAT-KA 59W	-59.00	A	API/A	6780	2695
111540156	G		INMARSAT-KA 65W	-65.00	A	API/A	6779	2695
111540161	G		INMARSAT-KA 69E	69.00	A	API/A	6784	2695
111540162	G		INMARSAT-KA 71E	71.00	A	API/A	6785	2695
111540164	G		INMARSAT-KA 86E	86.00	A	API/A	6787	2695
113540099	G		IOMSAT-138E	138.00	A	API/A	8315	2746
111540393	G		IOMSAT-5A2	-37.55	A	API/A	6961	2700
113540062	G		IOMSAT-63W	-63.00	A	API/A	8283	2745
112540974	G		UKDRS-A10	-61.00	A	API/A	7972	
112540968	G		UKDRS-A4	33.00	A	API/A	7966	2732

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112540969	G		UKDRS-A5	55.00	A	API/A	7967	2732
112540971	G		UKDRS-A7	78.00	A	API/A	7969	2732
112540973	G		UKDRS-A9	-41.00	A	API/A	7971	2732
112540603	G		UKDSAT-B3	39.00	A	API/A	7734	2727
112540850	G		UKDSAT-D3	33.00	A	API/A	7900	2729
113540344	G		UKJKSAT-2	27.00	A	API/A	8495	2754
112541124	G		UK-KA-10	-117.00	A	API/A	8036	2736
112541125	G		UK-KA-11	-123.00	A	API/A	8037	2736
112541120	G		UK-KA-6	-38.00	A	API/A	8032	2736
112541122	G		UK-KA-8	-93.00	A	API/A	8034	2736
112541123	G		UK-KA-9	-113.00	A	API/A	8035	2736
112540466	G		UKMMSAT-E1-TTC-C	30.00	A	API/A	7606	2722
112540467	G		UKMMSAT-E2-TTC-C	35.00	A	API/A	7607	2722
112540468	G		UKMMSAT-E3-TTC-C	45.00	A	API/A	7608	2722
112540469	G		UKMMSAT-E4-TTC-C	58.00	A	API/A	7609	2722
112540470	G		UKMMSAT-E5-TTC-C	70.00	A	API/A	7610	2722
113540543	G		UKNETSAT-18W	-18.00	A	API/A	8676	2756
113540542	G		UKNETSAT-34.5W	-34.50	A	API/A	8675	2756
112540160	G		UKPAC-3	-179.00	A	API/A	7437	2718
111540071	G		UKSAT-25	-91.00	A	API/A	6730	2692
111540072	G		UKSAT-26	-77.30	A	API/A	6731	2692
111540073	G		UKSAT-27	-73.00	A	API/A	6732	2692
103540620	G		UKSAT-7	-99.00	A	API/A	2891	2505
103540621	G		UKSAT-8	-101.00	A	API/A	2892	2505
103540622	G		UKSAT-9	-103.00	A	API/A	2893	2505
108520121	G		AM-SAT-108.2E-G	108.20	C	CR/C	2214	2643
111520296	G		DFSAT120E	120.00	C	CR/C	2983	2724
113520079	G		DFSAT15.4W	-15.40	C	CR/C	3371	2750
111520025	G		DFSAT44W	-44.00	C	CR/C	2797	2716
111520025	G		DFSAT44W	-44.00	C	CR/E	138	2716
107520036	G		ESAT 1	25.00	C	CR/C	1938	2759
108520260	G		ESAT-3	9.50	C	CR/C	2305	2636
108520261	G		ESAT-4	19.00	C	CR/C	2306	2636
108520262	G		ESAT-5	33.00	C	CR/C	2307	2708
108520263	G		ESAT-6	38.00	C	CR/C	2308	2636
110520353	G		ESAT-7	9.00	C	CR/C	2750	2687
112520400	G		GIBSAT-108.2E	108.20	C	CR/C	3241	2751
112523020	G		GIBSAT-108.2E_1	108.20	C	CR/F	21	2740
110520226	G		GIBSAT-113W	-113.00	C	CR/C	2705	2702
110520010	G		GIBSAT-125W	-125.00	C	CR/C	2555	2689
110520011	G		GIBSAT-129W	-129.00	C	CR/C	2556	2689
111520453	G		GIBSAT-129W-B	-129.00	C	CR/C	3067	2734
111520376	G		GIBSAT-137W	-137.00	C	CR/C	3019	2728
110520015	G		GIBSAT-139W	-139.00	C	CR/C	2563	2689
111520456	G		GIBSAT-47.5W	-47.50	C	CR/C	3070	2734
111520455	G		GIBSAT-68.5W	-68.50	C	CR/C	3073	2734
111520383	G		GIBSAT-72.5W	-72.50	C	CR/C	3024	2728
110520007	G		GIBSAT-77W	-77.00	C	CR/C	2552	2692
112520442	G		GIBSAT-G12-1	-113.00	C	CR/C	3288	2755
112520443	G		GIBSAT-G12-2	-116.80	C	CR/C	3289	2755
107520300	G		INMARSAT-4A 143.5E	143.50	C	CR/C	2134	2649

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107520302	G		INMARSAT-4A 15.5W	-15.50	C	CR/C	2136	2635
107520301	G		INMARSAT-4A 178E	178.00	C	CR/C	2135	2649
107520298	G		INMARSAT-4A 25E	25.00	C	CR/C	2132	2641
107520303	G		INMARSAT-4A 53W	-53.00	C	CR/C	2137	2635
107520299	G		INMARSAT-4A 64E	64.00	C	CR/C	2133	2649
107520304	G		INMARSAT-4A 98W	-98.00	C	CR/C	2138	2635
110520017	G		INMARSAT-KA 107W	-107.00	C	CR/C	2560	2689
110520021	G		INMARSAT-KA 148E	148.00	C	CR/C	2561	2689
111520048	G		INMARSAT-KA 151E	151.00	C	CR/C	2822	2710
111520049	G		INMARSAT-KA 171E	171.00	C	CR/C	2823	2710
111520384	G		INMARSAT-KA 174W	-174.00	C	CR/C	3026	2728
110520016	G		INMARSAT-KA 178W	-178.00	C	CR/C	2562	2689
111520050	G		INMARSAT-KA 180E	180.00	C	CR/C	2824	2710
110520018	G		INMARSAT-KA 23E	23.00	C	CR/C	2557	2689
111520042	G		INMARSAT-KA 35E	35.00	C	CR/C	2818	2710
110520020	G		INMARSAT-KA 55W	-55.00	C	CR/C	2558	2689
111520043	G		INMARSAT-KA 56.5E	56.50	C	CR/C	2821	2710
111520044	G		INMARSAT-KA 56W	-56.00	C	CR/C	2825	2710
111520391	G		INMARSAT-KA 63E	63.00	C	CR/C	2998	2727
111520045	G		INMARSAT-KA 63W	-63.00	C	CR/C	2826	2710
110520019	G		INMARSAT-KA 64E	64.00	C	CR/C	2559	2689
111520392	G		INMARSAT-KA 67E	67.00	C	CR/C	2999	2727
111520046	G		INMARSAT-KA 68.5E	68.50	C	CR/C	2819	2710
111520047	G		INMARSAT-KA 72E	72.00	C	CR/C	2820	2710
111520385	G		INMARSAT-KA 76.5E	76.50	C	CR/C	3025	2728
111520393	G		INMARSAT-KA 83.5E	83.50	C	CR/C	3000	2727
111520214	G		INMARSAT-KA 87.5E	87.50	C	CR/C	2949	2720
111520386	G		INMARSAT-KA 93E	93.00	C	CR/C	3027	2728
110520354	G		INMARSAT-KA 97W	-97.00	C	CR/C	2751	2706
105520320	G		INMARSAT-S1	8.50	C	CR/C	1722	2740
111520083	G		INMARSAT-S1-R	8.50	C	CR/C	2854	2719
111520084	G		INMARSAT-S2-R	31.00	C	CR/C	2855	2719
111520085	G		INMARSAT-S3-R	61.50	C	CR/C	2856	2719
112520022	G		IOMESAT-1	-121.00	C	CR/C	3115	2737
112520042	G		IOMSAT-2A2	-15.00	C	CR/C	3130	2739
112520402	G		IOMSAT-B12R-2	-109.20	C	CR/C	3286	2755
107520097	G		IOMSAT-KA-1	-72.50	C	CR/C	2019	2707
112520427	G		IOMSAT-KA-138E	138.00	C	CR/C	3253	2751
112520206	G		IOMSAT-KA-1R	-72.50	C	CR/C	3229	2750
109520018	G		IOMSAT-KA-63W	-63.00	C	CR/C	2372	2707
113520001	G		IOMSAT-KA-63W-R	-63.00	C	CR/C	3359	2759
113520001	G		IOMSAT-KA-63W-R	-63.00	C	CR/E	539	2759
112520154	G		IOMSAT-R1	154.00	C	CR/C	3197	2746
111520255	G		IOMSAT-S23	-86.90	C	CR/C	2979	2724
111520256	G		IOMSAT-S24	-75.00	C	CR/C	2980	2724
111520257	G		IOMSAT-S25	-76.80	C	CR/C	2981	2724
111520258	G		IOMSAT-S26	-65.00	C	CR/C	2982	2724
109520146	G		MSV-42A	42.00	C	CR/C	2455	2677
109520147	G		MSV-42B	42.00	C	CR/C	2456	2677
108520176	G		MSV-46A	46.00	C	CR/C	2262	2648
108520177	G		MSV-46B	46.00	C	CR/C	2263	2668

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109520044	G		SKYNET-5A-KA	-34.00	C	CR/C	2378	2645
113520027	G		SKYNET-5A-KA2	-34.00	C	CR/C	3344	2758
113520027	G		SKYNET-5A-KA2	-34.00	C	CR/E	525	2758
109520045	G		SKYNET-5B-KA	-1.00	C	CR/C	2379	2645
113520081	G		SKYNET-5B-KA2	-1.00	C	CR/C	3345	2758
113520081	G		SKYNET-5B-KA2	-1.00	C	CR/E	526	2758
109520046	G		SKYNET-5C-KA	6.00	C	CR/C	2380	2645
113520080	G		SKYNET-5C-KA2	6.00	C	CR/C	3346	2758
113520080	G		SKYNET-5C-KA2	6.00	C	CR/E	527	2758
109520047	G		SKYNET-5D-KA	53.00	C	CR/C	2381	2645
113520028	G		SKYNET-5D-KA2	53.00	C	CR/C	3347	2758
113520028	G		SKYNET-5D-KA2	53.00	C	CR/E	528	2758
113520029	G		SKYNET-5E-KA2	-17.80	C	CR/C	3348	2758
113520029	G		SKYNET-5E-KA2	-17.80	C	CR/E	529	2758
108520259	G		SKYNET-5F	35.50	C	CR/C	2304	2652
110520421	G		SKYNET-5G	20.60	C	CR/C	2775	2708
112520150	G		UKDRS-A1	22.50	C	CR/C	3182	2732
112520151	G		UKDRS-A2	31.00	C	CR/C	3183	2732
112520152	G		UKDRS-A3	39.00	C	CR/C	3184	2732
113520035	G		UKDRS-A6	61.50	C	CR/C	3350	2746
113520036	G		UKDRS-A8	-33.50	C	CR/C	3351	2746
113520178	G		UKDSAT-A1	-61.00	C	CR/C	3425	2758
112520064	G		UKDSAT-A2	-33.50	C	CR/C	3137	2736
112520064	G		UKDSAT-A2	-33.50	C	CR/E	316	2736
112520065	G		UKDSAT-B1	31.00	C	CR/C	3138	2736
112520065	G		UKDSAT-B1	31.00	C	CR/E	317	2736
112520066	G		UKDSAT-B2	39.00	C	CR/C	3139	2736
112520066	G		UKDSAT-B2	39.00	C	CR/E	318	2736
112520067	G		UKDSAT-C1	61.50	C	CR/C	3140	2736
112520067	G		UKDSAT-C1	61.50	C	CR/E	319	2736
112520068	G		UKDSAT-C2	55.00	C	CR/C	3141	2736
112520068	G		UKDSAT-C2	55.00	C	CR/E	320	2736
113520180	G		UKDSAT-D1	165.00	C	CR/C	3426	2758
113520181	G		UKDSAT-D2	159.00	C	CR/C	3427	2758
111520140	G		UK-KA-1	-70.00	C	CR/C	2915	2718
113520155	G		UK-KA-12	-125.00	C	CR/C	3408	2755
113520156	G		UK-KA-13	-133.00	C	CR/C	3409	2755
112520436	G		UK-KA-2	-79.30	C	CR/C	3278	2752
112520437	G		UK-KA-3	-109.10	C	CR/C	3279	2752
113520152	G		UK-KA-4	-12.00	C	CR/C	3405	2755
113520153	G		UK-KA-5	-24.00	C	CR/C	3406	2755
113520154	G		UK-KA-7	-79.00	C	CR/C	3407	2755
111520234	G		UKMMSAT-A1	-41.00	C	CR/C	2961	2722
111520307	G		UKMMSAT-A1-TTC-C	-33.50	C	CR/C	3001	2722
111520307	G		UKMMSAT-A1-TTC-C	-33.50	C	CR/E	214	2722
111520235	G		UKMMSAT-A2	-33.50	C	CR/C	2962	2722
112520269	G		UKMMSAT-A2-TTC-C	-41.00	C	CR/C	3221	2747
112520269	G		UKMMSAT-A2-TTC-C	-41.00	C	CR/E	413	2747
112520178	G		UKMMSAT-A3	-33.50	C	CR/C	3186	2744
111520236	G		UKMMSAT-B1	31.00	C	CR/C	2963	2722
111520237	G		UKMMSAT-B2	39.00	C	CR/C	2964	2722



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112520205	G		UKMMSAT-B2-TTC-C	33.00	C	CR/C	3198	2733
113520179	G		UKMMSAT-B3	31.00	C	CR/C	3424	2758
113523037	G		UKMMSAT-B3_1	31.00	C	CR/F	62	2758
111520238	G		UKMMSAT-C1	55.00	C	CR/C	2965	2722
111520309	G		UKMMSAT-C1-TTC-C	61.50	C	CR/C	3031	2726
111520309	G		UKMMSAT-C1-TTC-C	61.50	C	CR/E	240	2726
111520239	G		UKMMSAT-C2	61.50	C	CR/C	2966	2722
112520270	G		UKMMSAT-C2-TTC-C	55.00	C	CR/C	3222	2747
112520270	G		UKMMSAT-C2-TTC-C	55.00	C	CR/E	414	2747
111520251	G		UKPAC-1	174.00	C	CR/C	2978	2724
112520484	G		UKPAC-2	172.00	C	CR/C	3307	2758
107520279	G		UKSAT-13	-97.00	C	CR/C	2118	2635
107520280	G		UKSAT-14	-107.00	C	CR/C	2119	2635
107520281	G		UKSAT-15	-91.00	C	CR/C	2120	2635
107520282	G		UKSAT-16	-109.00	C	CR/C	2121	2635
107520283	G		UKSAT-17	-95.00	C	CR/C	2122	2635
111520035	G		UKSAT-18	-18.00	C	CR/C	2810	2710
111520036	G		UKSAT-19	-6.80	C	CR/C	2811	2710
111520037	G		UKSAT-21	67.00	C	CR/C	2812	2710
111520038	G		UKSAT-24	104.00	C	CR/C	2813	2716
111520038	G		UKSAT-24	104.00	C	CR/E	53	2716
108520063	G		UKSAT-KU-4	-76.00	C	CR/C	2165	2640
108520064	G		UKSAT-KU-5	-84.00	C	CR/C	2166	2640
108520065	G		UKSAT-KU-6	-86.00	C	CR/C	2167	2640
111500188	G		AM-SAT 125W	-125.00	N	PART	2	2718
109500405	G		AM-SAT A4	108.20	N	PART	2	2658
102500435	G		ARTEMIS-21.5E-DR	21.50	N	PART	2	2740
106500361	G		ARTEMIS-21.5E-LM	21.50	N	PART	2	2740
108500574	G		ARTEMIS-21.5E-NAV	21.50	N	PART	2	2658
103500150	G		DJCF-1A	39.50	N	PART	2	2612
104500480	G		DJCF-1B	46.00	N	PART	2	2635
103500151	G		DJCF-2A	-39.00	N	PART	2	2603
104500319	G		DJCF-2B	-26.00	N	PART	2	2626
109500200	G		GIBSAT A1	-105.00	N	PART	2	2666
112500009	G		GIBSAT-8B	-47.00	N	PART	2	2722
111500151	G		ICO-G	-93.00	N	PART	2	2731
106500143	G		INMARSAT GSO-2H	65.00	N	PART	2	2658
109500253	G		INMARSAT GSO-2J	-54.00	N	PART	2	2668
108501009	G		INMARSAT GSO-2L	-53.00	N	PART	2	2686
109500230	G		INMARSAT GSO-2N	64.00	N	PART	2	2696
92500069	G		INMARSAT-2 AOR EAST	-15.50	N	PART	2	2638
95500665	G		INMARSAT-2 AOR WEST	-55.00	N	PART	2	2638
92500070	G		INMARSAT-2 IOR 1	64.50	N	PART	2	2638
106500289	G		INMARSAT-2 POR EAST	-142.00	N	PART	2	2667
97500292	G		INMARSAT-3 AOR EAST	-15.50	N	PART	2	2746
97500291	G		INMARSAT-3 AOR WEST2	-54.00	N	PART	2	2578
107500118	G		INMARSAT-3 AOR WEST3	-98.00	N	PART	2	2669
103500320	G		INMARSAT-3 IOR WEST	25.00	N	PART	2	2670
96500418	G		INMARSAT-3 IOR-1	64.00	N	PART	2	2736
106500290	G		INMARSAT-3 POR EAST	-142.00	N	PART	2	2660
103500319	G		INMARSAT-3 POR WEST	109.00	N	PART	2	2746

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97500253	G		INMARSAT-3 POR-2	178.00	N	PART	2	2580
108501205	G		INMARSAT-3 POR-3	143.50	N	PART	2	2653
112500010	G		INMARSAT-4 143.5E	143.50	N	PART	2	2725
110500192	G		INMARSAT-4 25E	25.00	N	PART	2	2723
110500194	G		INMARSAT-4 98W	-98.00	N	PART	2	2710
112500148	G		INTELSAT N KA 11.5E	11.50	N	PART	2	2740
112500005	G		IOMSAT-11A	-115.00	N	PART	2	2749
95500617	G		SKYNET-4A	-1.00	N	PART	2	2329
92500068	G		SKYNET-4B	6.00	N	PART	2	2251
95500150	G		SKYNET-4C	53.00	N	PART	2	2251
98500171	G		SKYNET-4D	-34.00	N	PART	2	2421
104500381	G		SKYNET-4J	-1.00	N	PART	2	2630
104500383	G		SKYNET-4K	6.00	N	PART	2	2642
104500384	G		SKYNET-4L	53.00	N	PART	2	2627
104500382	G		SKYNET-4M	-34.00	N	PART	2	2627
108501023	G		SKYNET-5A	-34.00	N	PART	2	2695
108501024	G		SKYNET-5B	-1.00	N	PART	2	2693
108501025	G		SKYNET-5C	6.00	N	PART	2	2693
108501026	G		SKYNET-5D	53.00	N	PART	2	2695
111500099	G		SKYNET-5E	-17.80	N	PART	2	2733
111500087	G		UKDIGISAT-3	-33.50	N	PART	2	2722
112500065	G		UKDIGISAT-4A TT&C	-33.50	N	PART	2	2730
112500279	G		UKJKSAT-1	31.00	N	PART	1	2757
113500085	G		UKMMSAT-B1-TTC-C	31.00	N	PART	2	2754
110500164	G		UKSAT-10	-95.00	N	PART	2	2696
108520033	GRC		HELLAS-SAT-2G	39.00	C	CR/C	2168	2640
102500251	GRC		HELLAS-SAT	39.00	N	PART	2	2586
112540787	HOL		NSS-G4-11	-72.00	A	API/A	7857	2729
112540788	HOL		NSS-G4-12	-68.70	A	API/A	7858	2729
112540790	HOL		NSS-G4-14	-47.50	A	API/A	7860	2729
112540791	HOL		NSS-G4-15	-40.50	A	API/A	7861	2729
112540792	HOL		NSS-G4-16	-37.50	A	API/A	7862	2729
112540794	HOL		NSS-G4-18	-20.00	A	API/A	7864	2729
112540795	HOL		NSS-G4-19	1.00	A	API/A	7865	2729
112540796	HOL		NSS-G4-20	35.50	A	API/A	7866	2729
112540797	HOL		NSS-G4-21	42.50	A	API/A	7867	2729
112540800	HOL		NSS-G4-24	65.00	A	API/A	7870	2729
112540801	HOL		NSS-G4-25	85.20	A	API/A	7871	2756
112540804	HOL		NSS-G4-28	113.50	A	API/A	7874	2729
112540805	HOL		NSS-G4-29	124.00	A	API/A	7875	2729
112540779	HOL		NSS-G4-3	-148.00	A	API/A	7849	2729
112540806	HOL		NSS-G4-30	130.00	A	API/A	7876	2729
112540807	HOL		NSS-G4-31	142.00	A	API/A	7877	2729
112540808	HOL		NSS-G4-32	148.00	A	API/A	7878	2729
112540809	HOL		NSS-G4-33	155.00	A	API/A	7879	2729
112540810	HOL		NSS-G4-34	175.00	A	API/A	7880	2729
112540780	HOL		NSS-G4-4	-143.00	A	API/A	7850	2729
112540781	HOL		NSS-G4-5	-137.00	A	API/A	7851	2729
112540783	HOL		NSS-G4-7	-105.00	A	API/A	7853	2729
112540784	HOL		NSS-G4-8	-101.00	A	API/A	7854	2729
107520248	HOL		BSSNET2-103W	-103.00	C	CR/C	2102	2632

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107520249	HOL		BSSNET2-107W	-107.00	C	CR/C	2103	2632
107520250	HOL		BSSNET2-111W	-111.00	C	CR/C	2104	2632
107520251	HOL		BSSNET2-115W	-115.00	C	CR/C	2105	2632
107520252	HOL		BSSNET2-119W	-119.00	C	CR/C	2106	2632
107520246	HOL		BSSNET2-95W	-95.00	C	CR/C	2100	2632
107520247	HOL		BSSNET2-99W	-99.00	C	CR/C	2101	2632
113520167	HOL		BSSNET2A-119W	-119.25	C	CR/C	3418	2757
113520168	HOL		BSSNET2A-95W	-95.15	C	CR/C	3417	2757
113520169	HOL		BSSNET4-95W	-95.15	C	CR/C	3419	2757
108520269	HOL		NSS-79	50.75	C	CR/C	2316	2653
107520142	HOL		NSS-81	98.50	C	CR/C	2039	2623
108520178	HOL		NSS-83A	-67.50	C	CR/C	2264	2648
109520124	HOL		NSS-G2-1	-177.00	C	CR/C	2422	2688
109520125	HOL		NSS-G2-11	-22.00	C	CR/C	2423	2688
109520126	HOL		NSS-G2-12	-20.00	C	CR/C	2424	2688
109520340	HOL		NSS-G2-13	1.00	C	CR/C	2546	2688
109520127	HOL		NSS-G2-15	42.50	C	CR/C	2419	2670
110520075	HOL		NSS-G2-16	50.50	C	CR/C	2585	2691
109520128	HOL		NSS-G2-17	57.00	C	CR/C	2420	2670
109520129	HOL		NSS-G2-18	95.00	C	CR/C	2421	2670
109520341	HOL		NSS-G2-19	107.70	C	CR/C	2545	2688
110520151	HOL		NSS-G2-20	142.00	C	CR/C	2661	2700
109520230	HOL		NSS-G2-7	-68.70	C	CR/C	2470	2678
109520231	HOL		NSS-G2-8	-58.00	C	CR/C	2471	2678
112520023	HOL		NSS-G3-12	-20.00	C	CR/C	3111	2737
112523001	HOL		NSS-G3-12_1	-20.00	C	CR/F	4	2730
111520427	HOL		NSS-G3-21	108.20	C	CR/C	3061	2730
111520427	HOL		NSS-G3-21	108.20	C	CR/E	272	2730
110520464	HOL		NSS-G3-8	-47.50	C	CR/C	2786	2716
110520464	HOL		NSS-G3-8	-47.50	C	CR/E	39	2716
110520465	HOL		NSS-G3-9	-40.50	C	CR/C	2787	2716
110520465	HOL		NSS-G3-9	-40.50	C	CR/E	40	2716
113520072	HOL		NSS-G4-1	-177.00	C	CR/C	3369	2749
113523030	HOL		NSS-G4-1_1	-177.00	C	CR/F	50	2751
113520039	HOL		NSS-G4-10	-85.00	C	CR/C	3353	2759
113520039	HOL		NSS-G4-10	-85.00	C	CR/E	533	2759
113523016	HOL		NSS-G4-10_1	-85.00	C	CR/F	40	2747
113520040	HOL		NSS-G4-13	-58.00	C	CR/C	3354	2759
113520040	HOL		NSS-G4-13	-58.00	C	CR/E	534	2759
113523017	HOL		NSS-G4-13_1	-58.00	C	CR/F	41	2747
113520041	HOL		NSS-G4-17	-22.00	C	CR/C	3355	2759
113520041	HOL		NSS-G4-17	-22.00	C	CR/E	535	2759
113523018	HOL		NSS-G4-17_1	-22.00	C	CR/F	42	2747
113520095	HOL		NSS-G4-2	-157.00	C	CR/C	3378	2751
113523027	HOL		NSS-G4-2_1	-157.00	C	CR/F	51	2751
113520042	HOL		NSS-G4-22	50.50	C	CR/C	3356	2759
113520042	HOL		NSS-G4-22	50.50	C	CR/E	536	2759
113523019	HOL		NSS-G4-22_1	50.50	C	CR/F	43	2747
113520043	HOL		NSS-G4-23	57.00	C	CR/C	3357	2747
113520043	HOL		NSS-G4-23	57.00	C	CR/E	537	2747
113523020	HOL		NSS-G4-23_1	57.00	C	CR/F	44	2747

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113520044	HOL		NSS-G4-26	95.00	C	CR/C	3358	2747
113520044	HOL		NSS-G4-26	95.00	C	CR/E	538	2747
113523021	HOL		NSS-G4-26_1	95.00	C	CR/F	45	2747
113520002	HOL		NSS-G4-27	108.20	C	CR/C	3325	2759
113523001	HOL		NSS-G4-27_1	108.20	C	CR/F	46	2747
113520038	HOL		NSS-G4-6	-131.00	C	CR/C	3352	2759
113520038	HOL		NSS-G4-6	-131.00	C	CR/E	532	2759
113523015	HOL		NSS-G4-6_1	-131.00	C	CR/F	39	2747
113520096	HOL		NSS-G4-9	-86.50	C	CR/C	3379	2751
113523028	HOL		NSS-G4-9_1	-86.50	C	CR/F	52	2751
108520277	HOL		OSAT GE	29.60	C	CR/C	2317	2656
108520278	HOL		OSAT GW	-10.20	C	CR/C	2318	2656
98500068	HOL		INTELSAT IBS 183E	-177.00	N	PART	2	2464
92500290	HOL		INTELSAT IBS 319.5E	-40.50	N	PART	2	
102500108	HOL		INTELSAT K 319.5E	-40.50	N	PART	2	2541
92500137	HOL		INTELSAT K 338.5E	-21.50	N	PART	2	2366
102500433	HOL		INTELSAT KA 95E	95.00	N	PART	2	2560
92500212	HOL		INTELSAT5 183E	-177.00	N	PART	2	2366
96500436	HOL		INTELSAT5A 183E	-177.00	N	PART	2	2480
92500194	HOL		INTELSAT5A 319.5E	-40.50	N	PART	2	2366
93500467	HOL		INTELSAT5A 338.5E	-21.50	N	PART	2	2366
101500276	HOL		INTELSAT5A 95E	95.00	N	PART	1	2640
92500181	HOL		INTELSAT5A INDOC2	57.00	N	PART	2	2366
102500289	HOL		INTELSAT7 183E	-177.00	N	PART	2	2616
102500109	HOL		INTELSAT7 319.5E	-40.50	N	PART	2	2563
102500110	HOL		INTELSAT7 338.5E	-21.50	N	PART	2	2564
96500508	HOL		INTELSAT7 57E	57.00	N	PART	2	2545
105500699	HOL		INTELSAT7 95E	95.00	N	PART	2	2580
101500408	HOL		INTELSAT8 183E	-177.00	N	PART	2	2565
101500580	HOL		INTELSAT8 319.5E	-40.50	N	PART	2	2603
101500411	HOL		INTELSAT8 338.5E	-21.50	N	PART	2	2543
101500410	HOL		INTELSAT8 57E	57.00	N	PART	2	2579
102500434	HOL		INTELSAT8 95E	95.00	N	PART	2	2571
106500323	HOL		NSS-16	-22.00	N	PART	2	2643
106500346	HOL		NSS-18	-40.50	N	PART	2	2669
106500362	HOL		NSS-19	-177.00	N	PART	2	2667
109500235	HOL		NSS-20	2.00	N	PART	2	2670
107500153	HOL		NSS-31	-20.00	N	PART	2	2673
110500361	HOL		NSS-35	-40.50	N	PART	2	2712
109500334	HOL		NSS-36	57.00	N	PART	2	2699
113500115	HOL		NSS-57	-40.50	N	PART	2	2759
105500391	HOL		NSS-8	57.00	N	PART	2	2652
105500498	HOL		NSS-9	95.00	N	PART	2	2749
112500098	HOL		NSS-KA41	95.00	N	PART	2	2728
112540939	I		IDF-UHF	-55.50	A	API/A	7963	2740
103540011	I		SICRAL-3D	-16.50	A	API/A	2600	2526
103540012	I		SICRAL-3E	-10.50	A	API/A	2601	2526
112520006	I		ALPHASAT TDP5	25.00	C	CR/C	3181	2743
112520006	I		ALPHASAT TDP5	25.00	C	CR/E	384	2743
110520003	I		INTERACT-KA	9.00	C	CR/C	2550	2688
110520097	I		NEWSAT-1A	1.00	C	CR/C	2619	2692

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111520206	I		NEWSAT-1C-27W	-27.00	C	CR/C	2940	2756
111520207	I		NEWSAT-1D-41E	41.00	C	CR/C	2941	2720
111520208	I		NEWSAT-1E-46E	46.00	C	CR/C	2942	2720
112520119	I		NEWSAT-1F-38W	-38.00	C	CR/C	3157	2756
112520120	I		NEWSAT-1G-48W	-48.00	C	CR/C	3158	2756
113520162	I		NEWSAT-1H-68W	-68.00	C	CR/C	3414	2757
113520163	I		NEWSAT-1I-77.5W	-77.50	C	CR/C	3412	2757
113520164	I		NEWSAT-1L-87W	-87.00	C	CR/C	3411	2756
108520057	I		SICRAL-4-21.8E	21.80	C	CR/C	2295	2652
107520137	I		SICRAL-4-37E	37.00	C	CR/C	2040	2623
102500428	I		SICRAL-2A	16.20	N	PART	2	2754
109500089	I		SICRAL-3A	16.20	N	PART	2	2706
109500335	I		SICRAL-3H	11.80	N	PART	2	2719
111540544	IND		INSAT-KA104	104.00	A	API/A	7034	2704
111540545	IND		INSAT-KA107	107.00	A	API/A	7035	2704
113540136	IND		INSAT-KA107.5E	107.50	A	API/A	8325	2748
111540546	IND		INSAT-KA120	120.00	A	API/A	7036	2704
113540132	IND		INSAT-KA48E	48.00	A	API/A	8321	2748
111540540	IND		INSAT-KA51	51.00	A	API/A	7030	2704
113540133	IND		INSAT-KA55E	55.00	A	API/A	8322	2748
113540134	IND		INSAT-KA61E	61.00	A	API/A	8323	2748
113540135	IND		INSAT-KA66E	66.00	A	API/A	8324	2748
111540541	IND		INSAT-KA68	68.00	A	API/A	7031	2704
111540542	IND		INSAT-KA78	78.00	A	API/A	7032	2704
111540543	IND		INSAT-KA85.5	85.50	A	API/A	7033	2704
113540396	IND		INSAT-KU12(63)E	63.00	A	API/A	8499	2754
113540397	IND		INSAT-KU12(83)E	83.00	A	API/A	8500	2754
113540394	IND		INSAT-KU78	78.00	A	API/A	8501	2754
113540395	IND		INSAT-KU88	88.00	A	API/A	8502	2754
112540966	IND		INSAT-NAV(93.5)	93.50	A	API/A	7965	2732
111540561	IND		INSAT-NAVR(124.5)	124.50	A	API/A	7049	2705
111540562	IND		INSAT-NAVR(125.5)	125.50	A	API/A	7050	2705
111540565	IND		INSAT-NAVR(128.5)	128.50	A	API/A	7053	2705
111540567	IND		INSAT-NAVR(130.5)	130.50	A	API/A	7055	2705
108520136	IND		ESSELSAT-1	98.50	C	CR/C	2228	2629
95520201	IND		INSAT-2E82	82.00	C	CR/C	1989	2598
109520043	IND		INSAT-C/KU(86)	86.00	C	CR/C	2383	2646
109520320	IND		INSAT-G5(55)	55.00	C	CR/C	2536	2667
109520321	IND		INSAT-G5(74)	74.00	C	CR/C	2537	2667
109520322	IND		INSAT-G5(82)	82.00	C	CR/C	2538	2667
109520323	IND		INSAT-G5(93.5)	93.50	C	CR/C	2539	2667
108520040	IND		INSAT-KA82	82.00	C	CR/C	2200	2625
108520317	IND		INSAT-KAUHF (74)	74.00	C	CR/C	2358	2659
108520318	IND		INSAT-KAUHF (83)	83.00	C	CR/C	2359	2659
108520319	IND		INSAT-KAUHF (93.5)	93.50	C	CR/C	2360	2659
111520059	IND		INSAT-KU11(111.5)E	111.50	C	CR/C	2833	2706
111520059	IND		INSAT-KU11(111.5)E	111.50	C	CR/E	70	2706
111520055	IND		INSAT-KU11(48)E	48.00	C	CR/C	2829	2706
111520055	IND		INSAT-KU11(48)E	48.00	C	CR/E	66	2706
109520202	IND		INSAT-KU11(55)E	55.00	C	CR/C	2450	2658
111520056	IND		INSAT-KU11(74)E	74.00	C	CR/C	2830	2706

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111520056	IND		INSAT-KU11(74)E	74.00	C	CR/E	67	2706
111520057	IND		INSAT-KU11(83)E	83.00	C	CR/C	2831	2750
111520058	IND		INSAT-KU11(93.5)E	93.50	C	CR/C	2832	2706
111520058	IND		INSAT-KU11(93.5)E	93.50	C	CR/E	69	2706
108520076	IND		INSAT-KU113.5	113.50	C	CR/C	2301	2636
108520077	IND		INSAT-KU117.5	117.50	C	CR/C	2302	2636
108520078	IND		INSAT-KU123.5	123.50	C	CR/C	2303	2636
110520230	IND		INSAT-MET74E	74.00	C	CR/C	2706	2683
110520231	IND		INSAT-MET81.5E	81.50	C	CR/C	2707	2683
110520232	IND		INSAT-MET82E	82.00	C	CR/C	2708	2683
110520233	IND		INSAT-MET83E	83.00	C	CR/C	2709	2683
110520234	IND		INSAT-MET93.5E	93.50	C	CR/C	2710	2683
108520016	IND		INSAT-MSS-NG(111.5)	111.50	C	CR/C	2207	2652
108520011	IND		INSAT-MSS-NG(48)	48.00	C	CR/C	2217	2644
108520012	IND		INSAT-MSS-NG(55)	55.00	C	CR/C	2218	2644
108520013	IND		INSAT-MSS-NG(74)	74.00	C	CR/C	2219	2644
108520014	IND		INSAT-MSS-NG(83)	83.00	C	CR/C	2205	2652
108520015	IND		INSAT-MSS-NG(93.5)	93.50	C	CR/C	2206	2652
108520070	IND		INSAT-NAV(131.5)	131.50	C	CR/C	2204	2674
107520285	IND		INSAT-NAV(55)	55.00	C	CR/C	2123	2635
108520075	IND		INSAT-NAV-A(132)	132.00	C	CR/C	2198	2642
108520073	IND		INSAT-NAV-A(34)	34.00	C	CR/C	2196	2674
108520074	IND		INSAT-NAV-A(83)	83.00	C	CR/C	2197	2674
112520046	IND		INSAT-NAVR(120.5)	120.50	C	CR/C	3124	2741
112520047	IND		INSAT-NAVR(121.5)	121.50	C	CR/C	3125	2741
112520048	IND		INSAT-NAVR(123.5)	123.50	C	CR/C	3126	2741
112520049	IND		INSAT-NAVR(126.5)	126.50	C	CR/C	3127	2741
112520050	IND		INSAT-NAVR(127.5)	127.50	C	CR/C	3128	2741
112520051	IND		INSAT-NAVR(129.5)	129.50	C	CR/C	3129	2741
112520044	IND		INSAT-NAVR(32.5)	32.50	C	CR/C	3122	2741
112520045	IND		INSAT-NAVR(83)	83.00	C	CR/C	3123	2739
112520045	IND		INSAT-NAVR(83)	83.00	C	CR/E	530	2739
107520111	IND		INSAT-TTC(55)E	55.00	C	CR/C	2028	2635
107520112	IND		INSAT-TTC(74)E	74.00	C	CR/C	2029	2635
110520002	IND		INSAT-TTC(81.5)E	81.50	C	CR/C	2636	2675
109520051	IND		INSAT-TTC(82)E	82.00	C	CR/C	2449	2658
107520113	IND		INSAT-TTC(83)E	83.00	C	CR/C	2030	2635
107520114	IND		INSAT-TTC(93.5)E	93.50	C	CR/C	2031	2635
90500588	IND		INSAT-1B	74.00	N	PART	2	
101500482	IND		INSAT-2(48)	48.00	N	PART	2	2620
102500027	IND		INSAT-2(55)	55.00	N	PART	2	2583
90504231	IND		INSAT-2(74)	74.00	N	PART	2	2749
90504228	IND		INSAT-2(83)	83.00	N	PART	2	2721
90504230	IND		INSAT-2(93.5)	93.50	N	PART	2	2164
104500369	IND		INSAT-2E74	74.00	N	PART	2	2653
102500028	IND		INSAT-2E83	83.00	N	PART	2	2573
109500566	IND		INSAT-2E93.5	93.50	N	PART	2	2679
97500420	IND		INSAT-2K (74)	74.00	N	PART	2	2412
100500088	IND		INSAT-2K (83)	83.00	N	PART	2	2491
97500421	IND		INSAT-2K (93.5)	93.50	N	PART	2	2412
106500257	IND		INSAT-2M (48)	48.00	N	PART	2	2629

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106500256	IND		INSAT-2M (74)	74.00	N	PART	2	2629
106500315	IND		INSAT-2M (83)	83.00	N	PART	2	2629
106500255	IND		INSAT-2M (93.5)	93.50	N	PART	2	2629
106500254	IND		INSAT-2T (48)	48.00	N	PART	2	2586
105500708	IND		INSAT-2T (55)	55.00	N	PART	2	2583
105500707	IND		INSAT-2T (74)	74.00	N	PART	2	2583
105500709	IND		INSAT-2T (93.5)	93.50	N	PART	2	2583
110500090	IND		INSAT-EK48	48.00	N	PART	2	2688
108500669	IND		INSAT-EK48R	48.00	N	PART	2	2652
110500097	IND		INSAT-EK55	55.00	N	PART	2	2689
105500128	IND		INSAT-EK55R	55.00	N	PART	2	2652
108500976	IND		INSAT-EK74	74.00	N	PART	2	2652
105500126	IND		INSAT-EK74R	74.00	N	PART	2	2657
108500668	IND		INSAT-EK83	83.00	N	PART	2	2652
108500575	IND		INSAT-EK83R	83.00	N	PART	2	2658
108500577	IND		INSAT-EK93.5	93.50	N	PART	2	2652
108500576	IND		INSAT-EK93.5R	93.50	N	PART	2	2655
110500114	IND		INSAT-KU10(111.5)E	111.50	N	PART	2	2716
111500153	IND		INSAT-KU10(55)E	55.00	N	PART	2	2717
113540083	INS		CSM-137	137.90	A	API/A	8298	2745
113540084	INS		INDOSTAR-107.7XS	107.70	A	API/A	8299	2745
113540085	INS		INDOSTAR-108.2XS	108.20	A	API/A	8300	2745
113540086	INS		INDOSTAR-118XS	118.00	A	API/A	8301	2745
112540870	INS		PALAPA-C1-B	113.00	A	API/A	7915	2729
112540871	INS		PALAPA-C4-B	150.50	A	API/A	7916	2729
112520347	INS		CSM-106	106.00	C	CR/C	3234	2751
112520348	INS		CSM-111	111.00	C	CR/C	3235	2751
112520349	INS		CSM-120	120.50	C	CR/C	3236	2751
94520235	INS		GARUDA-1	118.00	C	AR11/C	2526	2444
94520235	INS		GARUDA-1	118.00	C	RES46/C	153	2444
107520011	INS		INDOSTAR-107.7E	107.70	C	CR/C	1940	2662
107520143	INS		INDOSTAR-107.7E-K	107.70	C	CR/C	2043	2606
107520260	INS		INDOSTAR-110E	108.20	C	CR/C	2110	2707
108520042	INS		INDOSTAR-110E-K	108.20	C	CR/C	2283	2700
108520042	INS		INDOSTAR-110E-K	108.20	C	CR/E	23	2700
107520012	INS		INDOSTAR-118E	118.00	C	CR/C	1941	2662
107520158	INS		PALAPA PAC-3R	144.00	C	CR/C	2072	2621
109520091	INS		PALAPA-C4-A	150.50	C	CR/C	2403	2649
109520283	INS		PALAPA-C4-K	150.50	C	CR/C	2529	2667
113520094	INS		PSN-146E	146.00	C	CR/C	3381	2752
111520005	INS		TELKOM-108E	108.00	C	CR/C	2839	2716
111520005	INS		TELKOM-108E	108.00	C	CR/E	76	2716
108520068	INS		TELKOM-3EK	118.00	C	CR/C	2296	2635
105500155	INS		GARUDA-2	123.00	N	PART	2	2653
99500073	INS		INDOSTAR-1	107.70	N	PART	2	2646
112500247	INS		INDOSTAR-1A	107.70	N	PART	2	2746
109500739	INS		PALAPA PAC-C 146E	146.00	N	PART	2	2744
108500599	INS		PALAPA PAC-KU 146E	146.00	N	PART	2	2744
90500037	INS		PALAPA-B1	108.00	N	PART	2	2709
107500144	INS		PALAPA-B1-EC	108.00	N	PART	2	2674
90500039	INS		PALAPA-B2	113.00	N	PART	2	2258

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90500001	INS		PALAPA-B3	118.00	N	PART	2	2758
111500247	INS		PALAPA-B3 TT&C	118.00	N	PART	2	2720
110500157	INS		PALAPA-B3-EC	118.00	N	PART	2	2757
102500197	INS		PALAPA-C1	113.00	N	PART	2	2692
109500631	INS		PALAPA-C1-K	113.00	N	PART	2	2681
103500163	INS		PALAPA-C2	108.00	N	PART	2	2648
107500427	INS		PALAPA-C3	118.00	N	PART	2	2681
109500491	INS		PALAPA-C3-K	118.00	N	PART	2	2757
106500321	INS		PALAPA-C3-X	118.00	N	PART	2	2668
106500566	INS		PALAPA-C4	150.50	N	PART	2	2693
112523005	IRN		IRANDBS4-KA	34.00	C	CR/F	1	2728
112520024	IRN		IRANSAT-12.5E	12.50	C	CR/C	3228	2750
112520001	IRN		IRANSAT-26.5E	26.50	C	CR/C	3154	2741
112520038	IRN		IRANSAT-27.2E	27.20	C	CR/C	3147	2741
112520037	IRN		IRANSAT-27E	27.00	C	CR/C	3146	2741
112520002	IRN		IRANSAT-34E	34.00	C	CR/C	3155	2758
112520019	IRN		IRANSAT-41.5E	41.50	C	CR/C	3148	2741
112520039	IRN		IRANSAT-43.5E	43.50	C	CR/C	3149	2741
112520060	IRN		IRANSAT-53.5E	53.50	C	CR/C	3150	2741
112520040	IRN		IRANSAT-56E	56.00	C	CR/C	3145	2741
112520020	IRN		IRANSAT-58E	58.00	C	CR/C	3151	2741
112520021	IRN		IRANSAT-61.5E	61.50	C	CR/C	3152	2741
112520061	IRN		IRANSAT-61.8E	61.80	C	CR/C	3153	2741
112520036	IRN		IRANSAT-81E	81.00	C	CR/C	3156	2741
112520059	IRN		IRNDBS-KA	34.00	C	CR/C	3174	2744
93500332	IRN		ZOHREH-2	26.00	N	PART	2	2738
112540158	IRQ		SUMER-2	50.00	A	API/A	7435	2718
112520483	IRQ		SUMER-1	65.45	C	CR/C	3308	2756
112523029	IRQ		SUMER-1_1	65.45	C	CR/F	27	2745
111540325	ISR		AMS-A1-18W	-18.00	A	API/A	6899	2720
111540327	ISR		AMS-A1-24W	-24.00	A	API/A	6906	2720
111540328	ISR		AMS-A1-30W	-30.00	A	API/A	6905	2720
111540330	ISR		AMS-A1-42W	-42.00	A	API/A	6903	2720
111540331	ISR		AMS-A1-48W	-48.00	A	API/A	6902	2720
111540332	ISR		AMS-A1-54W	-54.00	A	API/A	6901	2720
111540333	ISR		AMS-A1-60W	-60.00	A	API/A	6900	2720
112540720	ISR		AMS-A2-18W	-18.00	A	API/A	7795	2727
112540718	ISR		AMS-A2-26W	-26.00	A	API/A	7793	2727
112540717	ISR		AMS-A2-30W	-30.00	A	API/A	7792	2727
112540716	ISR		AMS-A2-33W	-33.00	A	API/A	7791	2727
112540715	ISR		AMS-A2-36W	-36.00	A	API/A	7790	2727
112540714	ISR		AMS-A2-42W	-42.00	A	API/A	7789	2727
112540713	ISR		AMS-A2-48W	-48.00	A	API/A	7788	2727
112540712	ISR		AMS-A2-54W	-54.00	A	API/A	7787	2727
112540711	ISR		AMS-A2-60W	-60.00	A	API/A	7786	2727
112541278	ISR		AMS-A3-18W	-18.00	A	API/A	8144	2741
112541277	ISR		AMS-A3-21W	-21.00	A	API/A	8143	2741
112541276	ISR		AMS-A3-24W	-24.00	A	API/A	8142	2741
112541274	ISR		AMS-A3-30W	-30.00	A	API/A	8140	2741
112541272	ISR		AMS-A3-36W	-36.00	A	API/A	8138	2741
112541271	ISR		AMS-A3-42W	-42.00	A	API/A	8137	2741



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112541270	ISR		AMS-A3-48W	-48.00	A	API/A	8136	2741
112541269	ISR		AMS-A3-54W	-54.00	A	API/A	8135	2741
112541268	ISR		AMS-A3-60W	-60.00	A	API/A	8134	2741
113540253	ISR		AMS-A4-18W	-18.00	A	API/A	8386	2753
113540252	ISR		AMS-A4-21W	-21.00	A	API/A	8385	2753
113540251	ISR		AMS-A4-24W	-24.00	A	API/A	8384	2753
113540250	ISR		AMS-A4-26W	-26.00	A	API/A	8383	2753
113540249	ISR		AMS-A4-30W	-30.00	A	API/A	8382	2753
113540248	ISR		AMS-A4-33W	-33.00	A	API/A	8381	2753
113540247	ISR		AMS-A4-36W	-36.00	A	API/A	8380	2753
113540246	ISR		AMS-A4-42W	-42.00	A	API/A	8379	2753
113540245	ISR		AMS-A4-48W	-48.00	A	API/A	8378	2753
113540244	ISR		AMS-A4-54W	-54.00	A	API/A	8377	2753
113540243	ISR		AMS-A4-60W	-60.00	A	API/A	8376	2753
111540337	ISR		AMS-B1-0E	0.00	A	API/A	6912	2720
111540336	ISR		AMS-B1-12E	12.00	A	API/A	6909	2720
111540339	ISR		AMS-B1-12W	-12.00	A	API/A	6910	2720
111540335	ISR		AMS-B1-6E	6.00	A	API/A	6908	2720
111540338	ISR		AMS-B1-6W	-6.00	A	API/A	6911	2720
112540724	ISR		AMS-B2-0E	0.00	A	API/A	7799	2727
112540721	ISR		AMS-B2-12W	-12.00	A	API/A	7796	2727
112540723	ISR		AMS-B2-4W	-4.00	A	API/A	7798	2727
112540725	ISR		AMS-B2-6E	6.00	A	API/A	7800	2727
112540722	ISR		AMS-B2-6W	-6.00	A	API/A	7797	2727
112541282	ISR		AMS-B3-0E	0.00	A	API/A	8148	2741
112541310	ISR		AMS-B3-126E	126.00	A	API/A	8176	2741
112541284	ISR		AMS-B3-12E	12.00	A	API/A	8150	2741
112541279	ISR		AMS-B3-12W	-12.00	A	API/A	8145	2741
112541311	ISR		AMS-B3-132E	132.00	A	API/A	8177	2741
112541312	ISR		AMS-B3-137E	137.00	A	API/A	8178	2741
112541313	ISR		AMS-B3-138E	138.00	A	API/A	8179	2741
112541314	ISR		AMS-B3-140E	140.00	A	API/A	8180	2741
112541281	ISR		AMS-B3-4W	-4.00	A	API/A	8147	2741
112541283	ISR		AMS-B3-6E	6.00	A	API/A	8149	2741
112541280	ISR		AMS-B3-6W	-6.00	A	API/A	8146	2741
113540256	ISR		AMS-B4-0E	0.00	A	API/A	8389	2753
113540260	ISR		AMS-B4-126E	126.00	A	API/A	8418	2753
113540258	ISR		AMS-B4-12E	12.00	A	API/A	8391	2753
113540254	ISR		AMS-B4-12W	-12.00	A	API/A	8387	2753
113540259	ISR		AMS-B4-13.8E	13.80	A	API/A	8392	2753
113540261	ISR		AMS-B4-132E	132.00	A	API/A	8419	2753
113540262	ISR		AMS-B4-137E	137.00	A	API/A	8420	2753
113540263	ISR		AMS-B4-138E	138.00	A	API/A	8421	2753
113540264	ISR		AMS-B4-140E	140.00	A	API/A	8422	2753
113540257	ISR		AMS-B4-6E	6.00	A	API/A	8390	2753
113540255	ISR		AMS-B4-6W	-6.00	A	API/A	8388	2753
111540357	ISR		AMS-C1-102E	102.00	A	API/A	6930	2720
111540358	ISR		AMS-C1-108E	108.00	A	API/A	6931	2720
111540359	ISR		AMS-C1-114E	114.00	A	API/A	6932	2720
111540360	ISR		AMS-C1-120E	120.00	A	API/A	6933	2720
111540930	ISR		AMS-C1-126E	126.00	A	API/A	7235	2719

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111540931	ISR		AMS-C1-132E	132.00	A	API/A	7236	2719
111540343	ISR		AMS-C1-18E	18.00	A	API/A	6916	2720
111540345	ISR		AMS-C1-24E	24.00	A	API/A	6918	2720
111540346	ISR		AMS-C1-30E	30.00	A	API/A	6919	2720
111540347	ISR		AMS-C1-36E	36.00	A	API/A	6920	2720
111540349	ISR		AMS-C1-48E	48.00	A	API/A	6922	2720
111540344	ISR		AMS-C1-54E	54.00	A	API/A	6917	2720
111540350	ISR		AMS-C1-60E	60.00	A	API/A	6923	2720
111540352	ISR		AMS-C1-72E	72.00	A	API/A	6925	2720
111540353	ISR		AMS-C1-78E	78.00	A	API/A	6926	2720
111540355	ISR		AMS-C1-90E	90.00	A	API/A	6928	2720
111540356	ISR		AMS-C1-96E	96.00	A	API/A	6929	2720
112540746	ISR		AMS-C2-102E	102.00	A	API/A	7821	2727
112540747	ISR		AMS-C2-108E	108.00	A	API/A	7822	2727
112540748	ISR		AMS-C2-114E	114.00	A	API/A	7823	2727
112540749	ISR		AMS-C2-120E	120.00	A	API/A	7824	2727
112540750	ISR		AMS-C2-126E	126.00	A	API/A	7825	2727
112540751	ISR		AMS-C2-132E	132.00	A	API/A	7826	2727
112540752	ISR		AMS-C2-138E	138.00	A	API/A	7827	2727
112540727	ISR		AMS-C2-17E	17.00	A	API/A	7802	2727
112540728	ISR		AMS-C2-18E	18.00	A	API/A	7803	2727
112540729	ISR		AMS-C2-23E	23.00	A	API/A	7804	2727
112540730	ISR		AMS-C2-24E	24.00	A	API/A	7805	2727
112540731	ISR		AMS-C2-30E	30.00	A	API/A	7806	2727
112540733	ISR		AMS-C2-42E	42.00	A	API/A	7808	2727
112540734	ISR		AMS-C2-43E	43.00	A	API/A	7809	2727
112540735	ISR		AMS-C2-48E	48.00	A	API/A	7810	2727
112540736	ISR		AMS-C2-54E	54.00	A	API/A	7811	2727
112540737	ISR		AMS-C2-60E	60.00	A	API/A	7812	2727
112540738	ISR		AMS-C2-65E	65.00	A	API/A	7813	2727
112540739	ISR		AMS-C2-66E	66.00	A	API/A	7814	2727
112540740	ISR		AMS-C2-72E	72.00	A	API/A	7815	2727
112540741	ISR		AMS-C2-78E	78.00	A	API/A	7816	2727
112540742	ISR		AMS-C2-82.5E	82.50	A	API/A	7817	2727
112540743	ISR		AMS-C2-84E	84.00	A	API/A	7818	2727
112540744	ISR		AMS-C2-90E	90.00	A	API/A	7819	2727
112540745	ISR		AMS-C2-96E	96.00	A	API/A	7820	2727
112541306	ISR		AMS-C3-102E	102.00	A	API/A	8172	2741
112541307	ISR		AMS-C3-108E	108.00	A	API/A	8173	2741
112541308	ISR		AMS-C3-114E	114.00	A	API/A	8174	2741
112541309	ISR		AMS-C3-120E	120.00	A	API/A	8175	2741
112541285	ISR		AMS-C3-17E	17.00	A	API/A	8151	2741
112541286	ISR		AMS-C3-18E	18.00	A	API/A	8152	2741
112541288	ISR		AMS-C3-24E	24.00	A	API/A	8154	2741
112541289	ISR		AMS-C3-30E	30.00	A	API/A	8155	2741
112541290	ISR		AMS-C3-36E	36.00	A	API/A	8156	2741
112541291	ISR		AMS-C3-39.2E	39.20	A	API/A	8157	2741
112541292	ISR		AMS-C3-42E	42.00	A	API/A	8158	2741
112541294	ISR		AMS-C3-48E	48.00	A	API/A	8160	2741
112541295	ISR		AMS-C3-54E	54.00	A	API/A	8161	2741
112541296	ISR		AMS-C3-60E	60.00	A	API/A	8162	2741

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112541298	ISR		AMS-C3-66E	66.00	A	API/A	8164	2741
112541299	ISR		AMS-C3-67.25E	67.25	A	API/A	8165	2741
112541300	ISR		AMS-C3-72E	72.00	A	API/A	8166	2741
112541301	ISR		AMS-C3-78E	78.00	A	API/A	8167	2741
112541303	ISR		AMS-C3-84E	84.00	A	API/A	8169	2741
112541304	ISR		AMS-C3-90E	90.00	A	API/A	8170	2741
112541305	ISR		AMS-C3-96E	96.00	A	API/A	8171	2741
113540286	ISR		AMS-C4-102E	102.00	A	API/A	8414	2753
113540287	ISR		AMS-C4-108E	108.00	A	API/A	8415	2753
113540288	ISR		AMS-C4-114E	114.00	A	API/A	8416	2753
113540289	ISR		AMS-C4-120E	120.00	A	API/A	8417	2753
113540265	ISR		AMS-C4-17E	17.00	A	API/A	8393	2753
113540266	ISR		AMS-C4-18E	18.00	A	API/A	8394	2753
113540267	ISR		AMS-C4-23E	23.00	A	API/A	8395	2753
113540268	ISR		AMS-C4-24E	24.00	A	API/A	8396	2753
113540269	ISR		AMS-C4-30E	30.00	A	API/A	8397	2753
113540270	ISR		AMS-C4-36E	36.00	A	API/A	8398	2753
113540271	ISR		AMS-C4-39.2E	39.20	A	API/A	8399	2753
113540272	ISR		AMS-C4-42E	42.00	A	API/A	8400	2753
113540273	ISR		AMS-C4-43E	43.00	A	API/A	8401	2753
113540274	ISR		AMS-C4-48E	48.00	A	API/A	8402	2753
113540275	ISR		AMS-C4-54E	54.00	A	API/A	8403	2753
113540276	ISR		AMS-C4-60E	60.00	A	API/A	8404	2753
113540277	ISR		AMS-C4-65E	65.00	A	API/A	8405	2753
113540278	ISR		AMS-C4-66E	66.00	A	API/A	8406	2753
113540279	ISR		AMS-C4-67.25E	67.25	A	API/A	8407	2753
113540280	ISR		AMS-C4-72E	72.00	A	API/A	8408	2753
113540281	ISR		AMS-C4-78E	78.00	A	API/A	8409	2753
113540282	ISR		AMS-C4-82.5E	82.50	A	API/A	8410	2753
113540283	ISR		AMS-C4-84E	84.00	A	API/A	8411	2753
113540284	ISR		AMS-C4-90E	90.00	A	API/A	8412	2753
113540285	ISR		AMS-C4-96E	96.00	A	API/A	8413	2753
107520263	ISR		AMS-4-65E	65.00	C	CR/C	2109	2756
108520027	ISR		AMS-4-67.25E	67.25	C	CR/C	2147	2638
112520208	ISR		AMS-A1-26W	-26.00	C	CR/C	3205	2744
112520208	ISR		AMS-A1-26W	-26.00	C	CR/E	397	2744
112520207	ISR		AMS-A1-33W	-33.00	C	CR/C	3206	2744
112520207	ISR		AMS-A1-33W	-33.00	C	CR/E	398	2744
112520481	ISR		AMS-A2-21W	-21.00	C	CR/C	3306	2756
112523027	ISR		AMS-A2-21W_1	-21.00	C	CR/F	25	2745
113520145	ISR		AMS-A3-26W	-26.00	C	CR/C	3403	2755
113520144	ISR		AMS-A3-33W	-33.00	C	CR/C	3404	2755
112520209	ISR		AMS-B1-4W	-4.00	C	CR/C	3199	2744
112520209	ISR		AMS-B1-4W	-4.00	C	CR/E	396	2744
113520047	ISR		AMS-B2-13.8E	13.80	C	CR/C	3349	2746
113520047	ISR		AMS-B2-13.8E	13.80	C	CR/E	531	2746
113523014	ISR		AMS-B2-13.8E_1	13.80	C	CR/F	38	2746
113520183	ISR		AMS-B4-4W	-4.00	C	CR/C	3430	2759
112520425	ISR		AMS-C1-137E	137.00	C	CR/C	3233	2755
112523012	ISR		AMS-C1-137E_1	137.00	C	CR/F	17	2739
112520210	ISR		AMS-C1-17E	17.00	C	CR/C	3200	2733

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112520211	ISR		AMS-C1-23E	23.00	C	CR/C	3201	2733
112520212	ISR		AMS-C1-43E	43.00	C	CR/C	3202	2737
112520213	ISR		AMS-C1-65E	65.00	C	CR/C	3203	2737
112520435	ISR		AMS-C1-67.25E	67.25	C	CR/C	3281	2756
112523021	ISR		AMS-C1-67.25E_1	67.25	C	CR/F	22	2740
112520214	ISR		AMS-C1-82.5E	82.50	C	CR/C	3204	2737
112520482	ISR		AMS-C2-39.2E	39.20	C	CR/C	3305	2756
112523028	ISR		AMS-C2-39.2E_1	39.20	C	CR/F	26	2745
113520146	ISR		AMS-C3-23E	23.00	C	CR/C	3398	2755
113523031	ISR		AMS-C3-23E_1	23.00	C	CR/F	56	2755
113520147	ISR		AMS-C3-43E	43.00	C	CR/C	3399	2755
113523032	ISR		AMS-C3-43E_1	43.00	C	CR/F	57	2755
113520148	ISR		AMS-C3-65E	65.00	C	CR/C	3400	2755
113523033	ISR		AMS-C3-65E_1	65.00	C	CR/F	58	2755
113520149	ISR		AMS-C3-82.5E	82.50	C	CR/C	3401	2755
113523034	ISR		AMS-C3-82.5E_1	82.50	C	CR/F	59	2755
110520450	ISR		AMS-CK-17E	17.00	C	CR/C	2782	2716
110520450	ISR		AMS-CK-17E	17.00	C	CR/E	425	2716
109520132	ISR		AMS-CK-22.75E	22.75	C	CR/C	2429	2688
111520120	ISR		AMS-CK-23E	23.00	C	CR/C	2841	2716
111520120	ISR		AMS-CK-23E	23.00	C	CR/E	426	2716
111520119	ISR		AMS-CK-26W	-26.00	C	CR/C	2840	2716
111520119	ISR		AMS-CK-26W	-26.00	C	CR/E	77	2716
111520387	ISR		AMS-CK-33W	-33.00	C	CR/C	3028	2731
111520388	ISR		AMS-CK-43E	43.00	C	CR/C	3029	2731
110520366	ISR		AMS-CK-4W	-4.00	C	CR/C	2761	2700
110520366	ISR		AMS-CK-4W	-4.00	C	CR/E	424	2700
111520121	ISR		AMS-CK-65E	65.00	C	CR/C	2842	2716
111520121	ISR		AMS-CK-65E	65.00	C	CR/E	143	2716
111520468	ISR		AMS-CK-82.5E	82.50	C	CR/C	3074	2734
109520252	ISR		SPARTAN II	-123.00	C	CR/C	2486	2681
99500251	ISR		AMOS 1-B	-4.00	N	PART	2	2742
110500004	ISR		AMOS 2-B	-4.00	N	PART	2	2734
112500100	ISR		AMOS 3-A	-4.00	N	PART	2	2730
113540480	J		JMCS-93E-R2	93.00	A	API/A	8667	2755
111540954	J		N-SAT2-72E	72.00	A	API/A	7284	2716
112540917	J		N-SAT-Y12-82.3E	82.30	A	API/A	7917	2729
112540918	J		N-SAT-Y12-82.5E	82.50	A	API/A	7918	2729
112540919	J		N-SAT-Y12-82.7E	82.70	A	API/A	7919	2729
113540510	J		N-SAT-Y13-0E	0.00	A	API/A	8634	2755
113540527	J		N-SAT-Y13-102E	102.00	A	API/A	8651	2755
113540493	J		N-SAT-Y13-102W	-102.00	A	API/A	8617	2755
113540528	J		N-SAT-Y13-108E	108.00	A	API/A	8652	2755
113540492	J		N-SAT-Y13-108W	-108.00	A	API/A	8616	2755
113540529	J		N-SAT-Y13-114E	114.00	A	API/A	8653	2755
113540491	J		N-SAT-Y13-114W	-114.00	A	API/A	8615	2755
113540530	J		N-SAT-Y13-120E	120.00	A	API/A	8654	2755
113540490	J		N-SAT-Y13-120W	-120.00	A	API/A	8614	2755
113540531	J		N-SAT-Y13-126E	126.00	A	API/A	8655	2755
113540489	J		N-SAT-Y13-126W	-126.00	A	API/A	8613	2755
113540512	J		N-SAT-Y13-12E	12.00	A	API/A	8636	2755

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113540532	J		N-SAT-Y13-132E	132.00	A	API/A	8656	2755
113540488	J		N-SAT-Y13-132W	-132.00	A	API/A	8612	2755
113540533	J		N-SAT-Y13-138E	138.00	A	API/A	8657	2755
113540487	J		N-SAT-Y13-138W	-138.00	A	API/A	8611	2755
113540534	J		N-SAT-Y13-144E	144.00	A	API/A	8658	2755
113540486	J		N-SAT-Y13-144W	-144.00	A	API/A	8610	2755
113540535	J		N-SAT-Y13-150E	150.00	A	API/A	8659	2755
113540485	J		N-SAT-Y13-150W	-150.00	A	API/A	8609	2755
113540536	J		N-SAT-Y13-156E	156.00	A	API/A	8660	2755
113540484	J		N-SAT-Y13-156W	-156.00	A	API/A	8608	2755
113540537	J		N-SAT-Y13-162E	162.00	A	API/A	8661	2755
113540483	J		N-SAT-Y13-162W	-162.00	A	API/A	8607	2755
113540538	J		N-SAT-Y13-168E	168.00	A	API/A	8662	2755
113540482	J		N-SAT-Y13-168W	-168.00	A	API/A	8606	2755
113540539	J		N-SAT-Y13-174E	174.00	A	API/A	8663	2755
113540481	J		N-SAT-Y13-174W	-174.00	A	API/A	8605	2755
113540540	J		N-SAT-Y13-180E	180.00	A	API/A	8664	2755
113540513	J		N-SAT-Y13-18E	18.00	A	API/A	8637	2755
113540507	J		N-SAT-Y13-18W	-18.00	A	API/A	8631	2755
113540514	J		N-SAT-Y13-24E	24.00	A	API/A	8638	2755
113540506	J		N-SAT-Y13-24W	-24.00	A	API/A	8630	2755
113540515	J		N-SAT-Y13-30E	30.00	A	API/A	8639	2755
113540505	J		N-SAT-Y13-30W	-30.00	A	API/A	8629	2755
113540516	J		N-SAT-Y13-36E	36.00	A	API/A	8640	2755
113540504	J		N-SAT-Y13-36W	-36.00	A	API/A	8628	2755
113540517	J		N-SAT-Y13-42E	42.00	A	API/A	8641	2755
113540503	J		N-SAT-Y13-42W	-42.00	A	API/A	8627	2755
113540518	J		N-SAT-Y13-48E	48.00	A	API/A	8642	2755
113540502	J		N-SAT-Y13-48W	-48.00	A	API/A	8626	2755
113540519	J		N-SAT-Y13-54E	54.00	A	API/A	8643	2755
113540501	J		N-SAT-Y13-54W	-54.00	A	API/A	8625	2755
113540520	J		N-SAT-Y13-60E	60.00	A	API/A	8644	2755
113540500	J		N-SAT-Y13-60W	-60.00	A	API/A	8624	2755
113540521	J		N-SAT-Y13-66E	66.00	A	API/A	8645	2755
113540499	J		N-SAT-Y13-66W	-66.00	A	API/A	8623	2755
113540511	J		N-SAT-Y13-6E	6.00	A	API/A	8635	2755
113540509	J		N-SAT-Y13-6W	-6.00	A	API/A	8633	2755
113540522	J		N-SAT-Y13-72E	72.00	A	API/A	8646	2755
113540498	J		N-SAT-Y13-72W	-72.00	A	API/A	8622	2755
113540523	J		N-SAT-Y13-78E	78.00	A	API/A	8647	2755
113540497	J		N-SAT-Y13-78W	-78.00	A	API/A	8621	2755
113540524	J		N-SAT-Y13-84E	84.00	A	API/A	8648	2755
113540496	J		N-SAT-Y13-84W	-84.00	A	API/A	8620	2755
113540541	J		N-SAT-Y13-90.75E	90.75	A	API/A	8665	2755
113540525	J		N-SAT-Y13-90E	90.00	A	API/A	8649	2755
113540495	J		N-SAT-Y13-90W	-90.00	A	API/A	8619	2755
113540526	J		N-SAT-Y13-96E	96.00	A	API/A	8650	2755
113540494	J		N-SAT-Y13-96W	-96.00	A	API/A	8618	2755
112540401	J		QZSS-GS2	108.00	A	API/A	7596	2722
112540405	J		QZSS-GS6	146.00	A	API/A	7600	2722

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112540406	J		QZSS-GS7	157.00	A	API/A	7601	2722
110520053	J		BBISS-2A	143.00	C	CR/C	2693	2702
110520054	J		BBISS-2C	146.00	C	CR/C	2694	2702
110520055	J		BBISS-2D	52.50	C	CR/C	2695	2724
110520056	J		BBISS-2E	87.00	C	CR/C	2696	2724
112520004	J		HIMAWARI-140E	140.70	C	CR/C	3112	2734
112520004	J		HIMAWARI-140E	140.70	C	CR/E	297	2734
112520005	J		HIMAWARI-143E	143.30	C	CR/C	3113	2734
112520005	J		HIMAWARI-143E	143.30	C	CR/E	298	2734
109520232	J		HIMAWARI-8-140E	140.70	C	CR/C	2484	2664
109520233	J		HIMAWARI-8-143E	143.30	C	CR/C	2485	2664
113520005	J		JMCS-110E	110.00	C	CR/C	3327	2759
113520006	J		JMCS-144E	144.00	C	CR/C	3328	2759
113520007	J		JMCS-158E	158.00	C	CR/C	3329	2759
113520008	J		JMCS-162E	162.00	C	CR/C	3330	2759
111520297	J		JMCS-72E-R	72.00	C	CR/C	3004	2727
111520298	J		JMCS-82E-R	82.00	C	CR/C	3005	2727
111520299	J		JMCS-93E-R	93.00	C	CR/C	3006	2754
108520005	J		JMCS-A4-X	158.00	C	CR/C	2152	2638
108520006	J		JMCS-B4-X	162.00	C	CR/C	2153	2638
108520007	J		JMCS-D2-X	110.00	C	CR/C	2154	2638
110520048	J		NBSAT-21A	110.00	C	CR/C	2575	2690
110520049	J		NBSAT-21B	109.85	C	CR/C	2576	2690
110520050	J		NBSAT-21C	109.65	C	CR/C	2577	2690
107520016	J		N-SAT-120	120.00	C	CR/C	1984	2700
109520032	J		N-SAT-150.5E	150.50	C	CR/C	2443	2674
109520033	J		N-SAT-154E	154.00	C	CR/C	2444	2674
108520175	J		N-SAT2-110E	110.00	C	CR/C	2361	2659
110520451	J		N-SAT2-120E	120.00	C	CR/C	2784	2716
110520451	J		N-SAT2-120E	120.00	C	CR/E	37	2716
112520159	J		N-SAT2-127W	-127.00	C	CR/C	3212	2746
109520034	J		N-SAT2-144E	144.00	C	CR/C	2445	2674
109520035	J		N-SAT2-158E	158.00	C	CR/C	2446	2674
109520036	J		N-SAT2-162E	162.00	C	CR/C	2447	2674
112520155	J		N-SAT2-82E	82.00	C	CR/C	3210	2746
112520156	J		N-SAT2-88E	88.00	C	CR/C	3216	2746
112520157	J		N-SAT2-93E	93.00	C	CR/C	3213	2746
112520158	J		N-SAT2-98.5E	98.50	C	CR/C	3211	2746
109520325	J		N-SAT-A-114.9W	-114.90	C	CR/C	2541	2686
109520267	J		N-SAT-A-1E	1.00	C	CR/C	2491	2684
109520265	J		N-SAT-A-28.5E	28.50	C	CR/C	2493	2684
109520264	J		N-SAT-A-47.5W	-47.50	C	CR/C	2494	2684
109520263	J		N-SAT-A-67.5W	-67.50	C	CR/C	2495	2684
109520262	J		N-SAT-A-81W	-81.00	C	CR/C	2496	2684
109520266	J		N-SAT-A-8W	-8.00	C	CR/C	2492	2684
107520195	J		N-SAT-M-136E	136.00	C	CR/C	2078	2645
107520017	J		N-SAT-T-126.4E	126.40	C	CR/C	2034	2604
112520397	J		N-SAT-Y12-110E	110.00	C	CR/C	3254	2752
112520160	J		N-SAT-Y12-124E	124.00	C	CR/C	3255	2752
112520161	J		N-SAT-Y12-128E	128.00	C	CR/C	3256	2752
112520162	J		N-SAT-Y12-132E	132.00	C	CR/C	3257	2752

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112520163	J		N-SAT-Y12-144E	144.00	C	CR/C	3259	2752
112520164	J		N-SAT-Y12-150E	150.00	C	CR/C	3260	2752
112520165	J		N-SAT-Y12-154E	154.00	C	CR/C	3261	2752
112520166	J		N-SAT-Y12-158E	158.00	C	CR/C	3262	2752
112520167	J		N-SAT-Y12-162E	162.00	C	CR/C	3263	2752
113520025	J		N-SAT-Y12-173W	-173.00	C	CR/C	3376	2751
112520495	J		QZSS-GS1	90.50	C	CR/C	3317	2758
112520496	J		QZSS-GS3	123.00	C	CR/C	3318	2758
112520497	J		QZSS-GS4	127.00	C	CR/C	3319	2758
112520498	J		QZSS-GS5	137.00	C	CR/C	3320	2758
112520499	J		QZSS-GS8	168.00	C	CR/C	3321	2758
90500073	J		BS-3	110.00	N	PART	2	2691
103500094	J		BS-3N	109.85	N	PART	2	2607
100500188	J		BSAT-109.85	109.85	N	PART	1	2747
100500189	J		BSAT-110	110.00	N	PART	2	2696
105500223	J		DRTS-90.75E	90.75	N	PART	2	2755
107500244	J		D-STAR-1	132.00	N	PART	2	2684
110500022	J		D-STAR-2	136.00	N	PART	2	2684
109500917	J		ETS-8	146.00	N	PART	2	2721
95500020	J		GMS-140E	140.00	N	PART	2	2715
90500066	J		JCSAT-1	150.00	N	PART	2	2510
103500133	J		JCSAT-1R	150.00	N	PART	2	2667
90500242	J		JCSAT-2	154.00	N	PART	2	2510
103500132	J		JCSAT-2R	154.00	N	PART	2	2721
103500134	J		JCSAT-3A	128.00	N	PART	2	2728
103500135	J		JCSAT-3B	124.00	N	PART	2	2668
109500029	J		JCSAT-FO-124E	124.00	N	PART	2	2666
108501222	J		JCSAT-FO-128E	128.00	N	PART	2	2655
109500028	J		JCSAT-FO-132E	132.00	N	PART	1	2720
108501219	J		JCSAT-FO-136E	136.00	N	PART	1	2720
105500535	J		JCSAT-FO-150E	150.00	N	PART	2	2678
109500011	J		JCSAT-FO-154E	154.00	N	PART	2	2671
110500148	J		JCSAT-T-127.5E	127.50	N	PART	2	2694
104500620	J		JMCS-1	144.00	N	PART	2	2612
105500335	J		JMCS-1R	144.00	N	PART	2	2653
107500115	J		JMCS-2	110.00	N	PART	2	2743
105500336	J		JMCS-3A	158.00	N	PART	2	2745
105500227	J		JMCS-3B	162.00	N	PART	2	2746
113500084	J		JMCS-93E	93.00	N	PART	2	2755
108501224	J		JMCS-C2-X	144.00	N	PART	2	2693
105500039	J		MTSAT-140E	140.00	N	PART	2	2694
108501129	J		MTSAT-B-140E	140.00	N	PART	2	2697
106500136	J		MTSAT-B-145E	145.00	N	PART	2	2705
110500016	J		MTSAT-C-140E	140.00	N	PART	2	2755
110500017	J		MTSAT-C-145E	145.00	N	PART	2	2755
101500489	J		N-SAT-110	110.00	N	PART	2	2635
108501100	J		N-SAT-110E	110.00	N	PART	2	2652
112500026	J		N-SAT-124E	124.00	N	PART	2	2743
106500574	J		N-SAT-127W	-127.00	N	PART	2	2679
101500531	J		N-SAT-128	128.00	N	PART	2	2616

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112500027	J		N-SAT-128E	128.00	N	PART	2	2743
108500022	J		N-SAT-143.72E	143.72	N	PART	2	2693
97500365	J		N-SAT-146	144.00	N	PART	2	2698
111500229	J		N-SAT-162E	162.00	N	PART	2	2741
112500006	J		N-SAT-82E	82.00	N	PART	1	2752
112500244	J		N-SAT-90.75E	90.75	N	PART	2	2745
113500113	J		N-SAT-93E	93.00	N	PART	2	2759
112500028	J		N-SAT-M-132E	132.00	N	PART	2	2755
112500231	J		N-SAT-M-150E	150.00	N	PART	2	2744
95500133	J		N-STAR-A	132.00	N	PART	2	2690
109500425	J		N-STAR-A2	132.00	N	PART	1	2691
95500571	J		N-STAR-B	136.00	N	PART	2	2690
105500530	J		N-STAR-B2	136.00	N	PART	1	2691
110500062	J		N-STAR-E	136.00	N	PART	2	2692
110500063	J		N-STAR-F	132.00	N	PART	2	2692
101500530	J		SJC-1	124.00	N	PART	2	2702
90500373	J		SUPERBIRD-A	158.00	N	PART	1	2747
104500273	J		SUPERBIRD-A2	158.00	N	PART	2	2745
106500017	J		SUPERBIRD-A2-R	158.00	N	PART	1	2747
90500376	J		SUPERBIRD-B	162.00	N	PART	2	2656
103500226	J		SUPERBIRD-B2	162.00	N	PART	2	2616
106500434	J		SUPERBIRD-B2-KA	162.00	N	PART	2	2649
109500623	J		SUPERBIRD-B2-R	162.00	N	PART	2	2704
103500169	J		SUPERBIRD-C	144.00	N	PART	2	2607
109500410	J		SUPERBIRD-C2	144.00	N	PART	2	2708
108501268	J		TAIKI-109.65	109.65	N	PART	2	2709
108501175	J		WINDS-A	143.00	N	PART	2	2655
112541259	KAZ		KAZSAT11R	98.50	A	API/A	8124	2740
113540567	KAZ		KAZSAT1S	58.50	A	API/A	8695	2757
113540568	KAZ		KAZSAT7S	77.50	A	API/A	8696	2757
112541257	KAZ		KAZSAT9R	34.30	A	API/A	8122	2740
108520315	KAZ		KAZSAT10	44.00	C	CR/C	2356	2659
113520125	KAZ		KAZSAT10R	44.00	C	CR/C	3393	2754
108520316	KAZ		KAZSAT11	98.50	C	CR/C	2357	2659
111520415	KAZ		KAZSAT1R	58.50	C	CR/C	3060	2731
112520009	KAZ		KAZSAT2R	86.50	C	CR/C	3193	2745
112523007	KAZ		KAZSAT2R_1	86.50	C	CR/F	10	2739
107520193	KAZ		KAZSAT3M	55.00	C	CR/C	2076	2630
112520010	KAZ		KAZSAT3R	55.00	C	CR/C	3194	2745
112523008	KAZ		KAZSAT3R_1	55.00	C	CR/F	11	2739
108520312	KAZ		KAZSAT5	49.30	C	CR/C	2353	2673
112520011	KAZ		KAZSAT5R	49.30	C	CR/C	3195	2745
112523009	KAZ		KAZSAT5R_1	49.30	C	CR/F	12	2739
112520012	KAZ		KAZSAT7R	77.50	C	CR/C	3196	2745
112523010	KAZ		KAZSAT7R_1	77.50	C	CR/F	13	2739
108520314	KAZ		KAZSAT9	34.30	C	CR/C	2355	2659
110500356	KAZ		KAZSAT1	58.50	N	PART	1	2746
111500122	KAZ		KAZSAT1M	58.50	N	PART	2	2726
110500357	KAZ		KAZSAT2	86.50	N	PART	1	2748
111500125	KAZ		KAZSAT2M	86.50	N	PART	2	2717
111500126	KAZ		KAZSAT7	77.50	N	PART	2	2712



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111540142	KOR		HANSAT-144E	144.00	A	API/A	6771	2694
111540143	KOR		HANSAT-158E	158.00	A	API/A	6772	2694
111540138	KOR		HANSAT-98E	98.00	A	API/A	6767	2694
112541250	KOR		KOREASAT-103.2E-MT2	103.20	A	API/A	8116	2739
102540322	KOR		KOREASAT-113	113.00	A	API/A	2430	2594
113540622	KOR		KTSAT-10E	10.00	A	API/A	8729	2759
113540619	KOR		KTSAT-19W	-19.00	A	API/A	8726	2759
113540621	KOR		KTSAT-1E	1.00	A	API/A	8728	2759
113540618	KOR		KTSAT-21W	-21.00	A	API/A	8725	2759
113540623	KOR		KTSAT-27E	27.00	A	API/A	8730	2759
113540617	KOR		KTSAT-28.5W	-28.50	A	API/A	8724	2759
113540620	KOR		KTSAT-2W	-2.00	A	API/A	8727	2759
113540624	KOR		KTSAT-36E	36.00	A	API/A	8731	2759
113540616	KOR		KTSAT-36W	-36.00	A	API/A	8723	2759
113540625	KOR		KTSAT-41E	41.00	A	API/A	8732	2759
113540615	KOR		KTSAT-42W	-42.00	A	API/A	8722	2759
113540614	KOR		KTSAT-44W	-44.00	A	API/A	8721	2759
113540613	KOR		KTSAT-48.5W	-48.50	A	API/A	8720	2759
113540626	KOR		KTSAT-81.5E	81.50	A	API/A	8733	2759
112520468	KOR		GK2-116.2E	116.20	C	CR/C	3293	2739
112520468	KOR		GK2-116.2E	116.20	C	CR/E	484	2739
112520469	KOR		GK2-128.2E	128.20	C	CR/C	3294	2739
112520469	KOR		GK2-128.2E	128.20	C	CR/E	485	2739
111520370	KOR		HANSAT-113E	113.00	C	CR/C	3007	2727
111520371	KOR		HANSAT-116E	116.00	C	CR/C	3008	2727
111520372	KOR		HANSAT-128.2E	128.20	C	CR/C	3009	2727
107520230	KOR		KORBSAT-113E	113.00	C	CR/C	2097	2631
107520231	KOR		KORBSAT-116E	116.00	C	CR/C	2098	2631
107520232	KOR		KORBSAT-128.2E	128.20	C	CR/C	2099	2631
107520223	KOR		KOREASAT-103.2E	103.20	C	CR/C	2127	2637
111520381	KOR		KOREASAT-113K	113.00	C	CR/C	3022	2725
111520381	KOR		KOREASAT-113K	113.00	C	CR/E	230	2725
113520051	KOR		KOREASAT-114.5K	114.50	C	CR/C	3361	2759
113520051	KOR		KOREASAT-114.5K	114.50	C	CR/E	541	2759
110520358	KOR		KOREASAT-116.0E	116.00	C	CR/C	2755	2706
111520382	KOR		KOREASAT-116K	116.00	C	CR/C	3023	2728
111520379	KOR		KOREASAT-93E	93.00	C	CR/C	3066	2734
110520006	KOR		KOREASAT-97E	97.00	C	CR/C	2551	2688
111520380	KOR		KOREASAT-97K	97.00	C	CR/C	3021	2728
110500111	KOR		COMS-116.2E	116.20	N	PART	1	2711
110500112	KOR		COMS-128.2E	128.20	N	PART	2	2711
108500797	KOR		INFOSAT-B	113.00	N	PART	2	2689
99500246	KOR		INFOSAT-C	116.00	N	PART	2	2557
95500170	KOR		KOREASAT-1	116.00	N	PART	2	2677
106500308	KOR		KOREASAT-113E	113.00	N	PART	2	2661
109500906	KOR		KOREASAT-113X	113.00	N	PART	2	2735
95500171	KOR		KOREASAT-2	113.00	N	PART	2	2670
113540348	LAO		LSTAR-126E	126.00	A	API/A	8498	2754
108520236	LAO		LAOSAT-128.5E	128.50	C	CR/C	2326	2638
113520092	LAO		LAOSAT-128.5E-A	128.50	C	CR/C	3377	2751
111540952	LTU		LIETUVA-23E	23.20	A	API/A	7294	2716

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112540696	LTU		LIETUVA-9W	-9.30	A	API/A	7771	2727
111540212	LUX		LUX-G8-1	1.00	A	API/A	6823	2698
111540221	LUX		LUX-G8-10	38.50	A	API/A	6832	2698
111540222	LUX		LUX-G8-11	42.00	A	API/A	6833	2698
111540223	LUX		LUX-G8-12	45.00	A	API/A	6834	2698
111540224	LUX		LUX-G8-13	51.00	A	API/A	6835	2698
111540226	LUX		LUX-G8-15	63.00	A	API/A	6837	2698
111540227	LUX		LUX-G8-16	69.00	A	API/A	6838	2698
111540231	LUX		LUX-G8-20	108.20	A	API/A	6842	2698
111540232	LUX		LUX-G8-21	114.00	A	API/A	6843	2698
111540233	LUX		LUX-G8-22	120.00	A	API/A	6844	2698
111540234	LUX		LUX-G8-23	126.00	A	API/A	6845	2698
111540235	LUX		LUX-G8-24	132.00	A	API/A	6846	2698
111540236	LUX		LUX-G8-25	150.00	A	API/A	6847	2698
111540237	LUX		LUX-G8-26	156.00	A	API/A	6848	2698
111540238	LUX		LUX-G8-27	162.00	A	API/A	6849	2698
111540239	LUX		LUX-G8-28	168.00	A	API/A	6850	2698
111540240	LUX		LUX-G8-29	174.00	A	API/A	6851	2698
111540214	LUX		LUX-G8-3	9.00	A	API/A	6825	2698
111540241	LUX		LUX-G8-30	-178.00	A	API/A	6852	2698
111540242	LUX		LUX-G8-31	-172.00	A	API/A	6853	2698
111540243	LUX		LUX-G8-32	-166.00	A	API/A	6854	2698
111540244	LUX		LUX-G8-33	-160.00	A	API/A	6855	2698
111540245	LUX		LUX-G8-34	-154.00	A	API/A	6856	2698
111540246	LUX		LUX-G8-35	-147.60	A	API/A	6857	2698
111540248	LUX		LUX-G8-37	-131.00	A	API/A	6859	2698
111540249	LUX		LUX-G8-38	-123.00	A	API/A	6860	2698
111540215	LUX		LUX-G8-4	13.00	A	API/A	6826	2698
111540251	LUX		LUX-G8-40	-109.20	A	API/A	6862	2698
111540253	LUX		LUX-G8-42	-95.00	A	API/A	6864	2698
111540256	LUX		LUX-G8-45	-79.00	A	API/A	6867	2698
111540257	LUX		LUX-G8-46	-72.00	A	API/A	6868	2698
111540259	LUX		LUX-G8-48	-61.90	A	API/A	6870	2698
111540260	LUX		LUX-G8-49	-55.00	A	API/A	6871	2698
111540261	LUX		LUX-G8-50	-49.00	A	API/A	6872	2698
111540263	LUX		LUX-G8-52	-30.00	A	API/A	6874	2698
111540264	LUX		LUX-G8-53	-25.00	A	API/A	6875	2698
111540265	LUX		LUX-G8-54	-19.00	A	API/A	6876	2698
111540266	LUX		LUX-G8-55	-13.00	A	API/A	6877	2698
111540267	LUX		LUX-G8-56	-7.00	A	API/A	6878	2698
111540268	LUX		LUX-G8-57	-3.00	A	API/A	6879	2698
112541180	LUX		LUX-G9-1	1.00	A	API/A	8052	2738
112541189	LUX		LUX-G9-10	31.50	A	API/A	8061	2758
112541190	LUX		LUX-G9-11	39.00	A	API/A	8062	2738
112541191	LUX		LUX-G9-12	43.50	A	API/A	8063	2738
112541192	LUX		LUX-G9-13	48.00	A	API/A	8064	2738
112541193	LUX		LUX-G9-14	52.00	A	API/A	8065	2738
112541194	LUX		LUX-G9-15	55.00	A	API/A	8066	2738
112541195	LUX		LUX-G9-16	63.00	A	API/A	8067	2738
112541196	LUX		LUX-G9-17	69.00	A	API/A	8068	2738
112541197	LUX		LUX-G9-18	74.00	A	API/A	8069	2738

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112541198	LUX		LUX-G9-19	83.00	A	API/A	8070	2738
112541181	LUX		LUX-G9-2	5.00	A	API/A	8053	2738
112541199	LUX		LUX-G9-20	93.50	A	API/A	8071	2738
112541200	LUX		LUX-G9-21	108.20	A	API/A	8072	2738
112541201	LUX		LUX-G9-22	113.20	A	API/A	8073	2758
112541202	LUX		LUX-G9-23	120.00	A	API/A	8074	2738
112541203	LUX		LUX-G9-24	126.00	A	API/A	8075	2738
112541204	LUX		LUX-G9-25	133.50	A	API/A	8076	2756
112541205	LUX		LUX-G9-26	150.20	A	API/A	8077	2758
112541206	LUX		LUX-G9-27	153.50	A	API/A	8078	2756
112541207	LUX		LUX-G9-28	162.00	A	API/A	8079	2738
112541208	LUX		LUX-G9-29	168.00	A	API/A	8080	2738
112541182	LUX		LUX-G9-3	9.00	A	API/A	8054	2738
112541209	LUX		LUX-G9-30	174.00	A	API/A	8081	2738
112541210	LUX		LUX-G9-31	-178.00	A	API/A	8082	2738
112541211	LUX		LUX-G9-32	-172.00	A	API/A	8083	2738
112541212	LUX		LUX-G9-33	-166.00	A	API/A	8084	2738
112541213	LUX		LUX-G9-34	-160.00	A	API/A	8085	2738
112541214	LUX		LUX-G9-35	-154.00	A	API/A	8086	2738
112541215	LUX		LUX-G9-36	-147.60	A	API/A	8087	2738
112541216	LUX		LUX-G9-37	-135.00	A	API/A	8088	2738
112541217	LUX		LUX-G9-38	-131.00	A	API/A	8089	2738
112541218	LUX		LUX-G9-39	-123.00	A	API/A	8090	2738
112541183	LUX		LUX-G9-4	13.00	A	API/A	8055	2738
112541219	LUX		LUX-G9-40	-117.00	A	API/A	8091	2738
112541220	LUX		LUX-G9-41	-109.00	A	API/A	8092	2738
112541221	LUX		LUX-G9-42	-105.00	A	API/A	8093	2738
112541222	LUX		LUX-G9-43	-103.00	A	API/A	8094	2738
112541223	LUX		LUX-G9-44	-95.00	A	API/A	8095	2738
112541224	LUX		LUX-G9-45	-87.00	A	API/A	8096	2738
112541225	LUX		LUX-G9-46	-83.00	A	API/A	8097	2738
112541226	LUX		LUX-G9-47	-79.00	A	API/A	8098	2738
112541227	LUX		LUX-G9-48	-72.00	A	API/A	8099	2738
112541228	LUX		LUX-G9-49	-67.00	A	API/A	8100	2738
112541184	LUX		LUX-G9-5	19.20	A	API/A	8056	2738
112541229	LUX		LUX-G9-50	-62.00	A	API/A	8101	2738
112541230	LUX		LUX-G9-51	-55.00	A	API/A	8102	2738
112541231	LUX		LUX-G9-52	-49.00	A	API/A	8103	2738
112541232	LUX		LUX-G9-53	-37.50	A	API/A	8104	2738
112541233	LUX		LUX-G9-54	-30.00	A	API/A	8105	2738
112541234	LUX		LUX-G9-55	-25.00	A	API/A	8106	2738
112541235	LUX		LUX-G9-56	-19.00	A	API/A	8107	2738
112541236	LUX		LUX-G9-57	-13.00	A	API/A	8108	2738
112541237	LUX		LUX-G9-58	-7.00	A	API/A	8109	2738
112541238	LUX		LUX-G9-59	-3.00	A	API/A	8110	2738
112541185	LUX		LUX-G9-6	21.50	A	API/A	8057	2738
112541186	LUX		LUX-G9-7	23.50	A	API/A	8058	2738
112541187	LUX		LUX-G9-8	28.20	A	API/A	8059	2738
112541188	LUX		LUX-G9-9	31.00	A	API/A	8060	2758
107520136	LUX		LUX-G5-25	108.20	C	CR/C	2035	2759
108520152	LUX		LUX-G6-1	1.80	C	CR/C	2236	2650

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108520160	LUX		LUX-G6-11	38.80	C	CR/C	2244	2650
108520161	LUX		LUX-G6-12	43.50	C	CR/C	2245	2650
108520162	LUX		LUX-G6-13	51.00	C	CR/C	2246	2650
108520153	LUX		LUX-G6-2	5.00	C	CR/C	2237	2650
108520254	LUX		LUX-G6-21	113.50	C	CR/C	2299	2659
109520247	LUX		LUX-G6-2-E	5.00	C	CR/C	2483	2683
108520154	LUX		LUX-G6-3	8.50	C	CR/C	2238	2650
108520141	LUX		LUX-G6-38	-119.00	C	CR/C	2248	2648
108520142	LUX		LUX-G6-39	-115.00	C	CR/C	2249	2648
109520279	LUX		LUX-G6-4	7.00	C	CR/C	2507	2684
108520143	LUX		LUX-G6-40	-111.10	C	CR/C	2250	2648
108520144	LUX		LUX-G6-41	-103.00	C	CR/C	2251	2648
108520145	LUX		LUX-G6-42	-91.00	C	CR/C	2252	2648
108520146	LUX		LUX-G6-43	-87.00	C	CR/C	2253	2648
108520147	LUX		LUX-G6-44	-83.00	C	CR/C	2254	2648
108520148	LUX		LUX-G6-45	-79.00	C	CR/C	2255	2648
108520149	LUX		LUX-G6-46	-71.00	C	CR/C	2256	2648
108520150	LUX		LUX-G6-48	-62.00	C	CR/C	2257	2648
108520151	LUX		LUX-G6-49	-59.00	C	CR/C	2258	2648
108520155	LUX		LUX-G6-5	19.20	C	CR/C	2239	2650
108520163	LUX		LUX-G6-51	-40.50	C	CR/C	2259	2665
108520164	LUX		LUX-G6-53	-24.00	C	CR/C	2260	2648
108520165	LUX		LUX-G6-57	-3.00	C	CR/C	2261	2648
108520156	LUX		LUX-G6-6	21.50	C	CR/C	2240	2650
108520157	LUX		LUX-G6-7	23.50	C	CR/C	2241	2650
108520158	LUX		LUX-G6-8	28.20	C	CR/C	2242	2650
108520159	LUX		LUX-G6-9	31.50	C	CR/C	2243	2650
110520106	LUX		LUX-G7-1	2.00	C	CR/C	2627	2694
110520108	LUX		LUX-G7-10	31.00	C	CR/C	2722	2703
110520109	LUX		LUX-G7-11	38.50	C	CR/C	2629	2694
110520110	LUX		LUX-G7-12	46.00	C	CR/C	2630	2694
110520111	LUX		LUX-G7-13	50.00	C	CR/C	2631	2694
110520112	LUX		LUX-G7-14	55.00	C	CR/C	2632	2694
111520122	LUX		LUX-G7-19	95.00	C	CR/C	2892	2722
110520094	LUX		LUX-G7-20	108.20	C	CR/C	2613	2692
110520095	LUX		LUX-G7-24	130.00	C	CR/C	2614	2692
110520096	LUX		LUX-G7-25	148.00	C	CR/C	2615	2692
110520107	LUX		LUX-G7-3	5.00	C	CR/C	2628	2694
111520123	LUX		LUX-G7-30	-177.00	C	CR/C	2893	2722
110520033	LUX		LUX-G7-38	-123.00	C	CR/C	2599	2693
110520034	LUX		LUX-G7-38B	-115.00	C	CR/C	2623	2694
110520035	LUX		LUX-G7-38C	-117.00	C	CR/C	2651	2696
110520036	LUX		LUX-G7-39	-111.10	C	CR/C	2600	2693
110520037	LUX		LUX-G7-40	-109.20	C	CR/C	2601	2694
110520038	LUX		LUX-G7-40B	-101.00	C	CR/C	2624	2694
110520039	LUX		LUX-G7-41	-99.00	C	CR/C	2602	2693
110520040	LUX		LUX-G7-42	-93.00	C	CR/C	2603	2693
110520041	LUX		LUX-G7-42B	-91.00	C	CR/C	2652	2677
110520042	LUX		LUX-G7-43	-87.00	C	CR/C	2604	2693
110520043	LUX		LUX-G7-43B	-86.00	C	CR/C	2625	2694
110520044	LUX		LUX-G7-44	-85.00	C	CR/C	2605	2694

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110520045	LUX		LUX-G7-45	-79.00	C	CR/C	2606	2694
110520046	LUX		LUX-G7-46	-74.00	C	CR/C	2607	2672
110520047	LUX		LUX-G7-47	-72.00	C	CR/C	2608	2693
110520220	LUX		LUX-G7-48	-67.00	C	CR/C	2699	2702
110520085	LUX		LUX-G7-5	19.20	C	CR/C	2594	2693
110520258	LUX		LUX-G7-50	-47.00	C	CR/C	2717	2702
110520113	LUX		LUX-G7-53	-24.00	C	CR/C	2633	2694
110520209	LUX		LUX-G7-55	-7.00	C	CR/C	2680	2700
110520196	LUX		LUX-G7-56	-4.00	C	CR/C	2677	2700
110520114	LUX		LUX-G7-57	1.00	C	CR/C	2634	2694
110520086	LUX		LUX-G7-6	21.50	C	CR/C	2595	2693
110520087	LUX		LUX-G7-7	23.50	C	CR/C	2596	2693
110520088	LUX		LUX-G7-8	28.20	C	CR/C	2597	2693
110520089	LUX		LUX-G7-9	31.50	C	CR/C	2598	2693
111520428	LUX		LUX-G7-9-E2	31.50	C	CR/C	3062	2733
111520414	LUX		LUX-G8-14	52.20	C	CR/C	3041	2741
112520276	LUX		LUX-G8-17	74.00	C	CR/C	3225	2750
112523014	LUX		LUX-G8-17_1	74.00	C	CR/F	14	2739
112520277	LUX		LUX-G8-18	83.00	C	CR/C	3226	2750
112523015	LUX		LUX-G8-18_1	83.00	C	CR/F	15	2739
112520278	LUX		LUX-G8-19	93.50	C	CR/C	3227	2750
112523016	LUX		LUX-G8-19_1	93.50	C	CR/F	16	2739
111520421	LUX		LUX-G8-2	5.00	C	CR/C	3035	2741
111520529	LUX		LUX-G8-36	-135.00	C	CR/C	3075	2740
111520378	LUX		LUX-G8-39	-116.80	C	CR/C	3020	2728
111520530	LUX		LUX-G8-41	-105.00	C	CR/C	3076	2740
112520424	LUX		LUX-G8-41A	-103.00	C	CR/C	3312	2758
111520531	LUX		LUX-G8-43	-87.00	C	CR/C	3077	2740
111520394	LUX		LUX-G8-44	-83.00	C	CR/C	3033	2741
111520532	LUX		LUX-G8-47	-67.00	C	CR/C	3078	2742
111520422	LUX		LUX-G8-5	19.20	C	CR/C	3036	2741
112520143	LUX		LUX-G8-51	-37.50	C	CR/C	3172	2744
111520423	LUX		LUX-G8-6	23.50	C	CR/C	3037	2741
111520424	LUX		LUX-G8-7	28.20	C	CR/C	3038	2741
111520425	LUX		LUX-G8-8	31.00	C	CR/C	3039	2741
111520426	LUX		LUX-G8-9	31.50	C	CR/C	3040	2741
90500682	LUX		GDL-6	19.20	N	PART	1	2686
101500585	LUX		GDL-7	19.20	N	PART	2	2664
107500361	LUX		LUX-24.2E	24.20	N	PART	2	2633
107500150	LUX		LUX-28.2E	28.20	N	PART	2	2633
110500151	LUX		LUX-G3-19.2E	19.20	N	PART	2	2738
113500086	LUX		LUX-G3-2	5.00	N	PART	2	2758
110500152	LUX		LUX-G3-24.2E	23.50	N	PART	1	2759
111500238	LUX		LUX-G3-28.2E	28.20	N	PART	2	2733
111500235	LUX		LUX-G3-4	31.00	N	PART	2	2738
104500543	LUX		LUX-KA-19E	19.00	N	PART	1	2728
112540566	MAU		REDSAT-4A	-31.00	A	API/A	7703	2723
110520122	MAU		REDSAT-1A	24.00	C	CR/C	2645	2676
111520062	MAU		REDSAT-3A	51.50	C	CR/C	2857	2717
112540396	MEX		KA 114.9W MEX	-114.90	A	API/A	7579	2721
112540397	MEX		KA 116.8W MEX	-116.80	A	API/A	7580	2721

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112540310	MEX		MEXSAT 109.2 KA	-109.20	A	API/A	7547	2721
112540314	MEX		MEXSAT 109.2 KA1	-109.20	A	API/A	7551	2721
112540318	MEX		MEXSAT 109.2 KA2	-109.20	A	API/A	7556	2721
112541260	MEX		MEXSAT 109.2A CEXT	-109.20	A	API/A	8127	2743
112541263	MEX		MEXSAT 109.2A KUEXT	-109.20	A	API/A	8128	2743
112540311	MEX		MEXSAT 113 KA	-113.00	A	API/A	7548	2721
112540315	MEX		MEXSAT 113 KA1	-113.00	A	API/A	7552	2721
112540319	MEX		MEXSAT 113 KA2	-113.00	A	API/A	7557	2721
112541261	MEX		MEXSAT 113A CEXT	-113.00	A	API/A	8129	2743
112541264	MEX		MEXSAT 113A KUEXT	-113.00	A	API/A	8130	2743
112540312	MEX		MEXSAT 114.9 KA	-114.90	A	API/A	7549	2721
112540316	MEX		MEXSAT 114.9 KA1	-114.90	A	API/A	7553	2721
112540320	MEX		MEXSAT 114.9 KA2	-114.90	A	API/A	7558	2721
112540313	MEX		MEXSAT 116.8 KA	-116.80	A	API/A	7533	2721
112540317	MEX		MEXSAT 116.8 KA1	-116.80	A	API/A	7554	2721
112540321	MEX		MEXSAT 116.8 KA2	-116.80	A	API/A	7559	2721
112541262	MEX		MEXSAT 116.8A CEXT	-116.80	A	API/A	8131	2743
112541265	MEX		MEXSAT 116.8A KUEXT	-116.80	A	API/A	8132	2743
113520190	MEX		KA 113.0W MEX	-113.00	C	CR/C	3433	2759
112520405	MEX		MEXSAT 109.2 L	-109.20	C	CR/C	3232	2750
110520118	MEX		MEXSAT113 L-CEXT-X	-113.00	C	CR/C	2635	2745
111520029	MEX		MEXSAT116.8 L-CEXT-X	-116.80	C	CR/C	2798	2745
113500072	MEX		MEXSAT 113 KU EXT	-113.00	N	PART	2	2758
113500015	MEX		MEXSAT 114.9 KU EXT	-114.90	N	PART	2	2745
113500074	MEX		MEXSAT 116.8 KU EXT	-116.80	N	PART	2	2757
110500271	MEX		MEXSAT-114.9 C-KU	-114.90	N	PART	2	2752
113500014	MEX		MEXSAT114.9 L-CEXT-X	-114.90	N	PART	2	2745
90501083	MEX		MORELOS 1	-113.50	N	PART	2	
90501085	MEX		MORELOS 2	-116.80	N	PART	2	2576
109500836	MEX		SATMEX 7	-113.00	N	PART	2	2721
111500124	MEX		SATMEX 8	-116.80	N	PART	2	2717
101500478	MEX		SOLIDARIDAD 2M	-113.00	N	PART	2	2637
99500015	MEX		SOLIDARIDAD 2MA	-113.00	N	PART	2	2637
97500441	MEX		SOLIDARIDAD-2	-113.00	N	PART	2	2617
113540064	MLA		MEASAT-2B	148.00	A	API/A	8285	2745
92540002	MLA		MEASAT-3	95.00	A	API/A	35	2551
94540173	MLA		MEASAT-1K 91.5E	91.50	A	API/A	575	2435
94540007	MLA		MEASAT-SA2	9.00	A	API/A	604	2551
113540063	MLA		MEASAT-SA2A	13.40	A	API/A	8284	2745
94540008	MLA		MEASAT-SA3	37.00	A	API/A	605	2551
94540009	MLA		MEASAT-SA4	46.00	A	API/A	606	2551
108520342	MLA		MEASAT-13.4E	13.40	C	CR/C	2363	2659
110520332	MLA		MEASAT-1A	91.50	C	CR/C	2737	2712
109520245	MLA		MEASAT-2A	148.00	C	CR/C	2479	2680
110520335	MLA		MEASAT-3A	97.00	C	CR/C	2743	2698
110520335	MLA		MEASAT-3A	97.00	C	CR/E	139	2698
107520058	MLA		MEASAT-46E-R	46.00	C	CR/C	2012	2659
110520340	MLA		MEASAT-4B	79.50	C	CR/C	2747	2706
109520246	MLA		MEASAT-5.7E-R	5.70	C	CR/C	2482	2680
111520008	MLA		MEASAT-78.5E-B	78.50	C	CR/C	2873	2720
110520337	MLA		MEASAT-87E-A	87.00	C	CR/C	2745	2705

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110520352	MLA		MEASAT-LA1A	-95.50	C	CR/C	2742	2705
110520333	MLA		MEASAT-ROUTE-1B	114.50	C	CR/C	2738	2705
110520338	MLA		MEASAT-ROUTE-2C	32.50	C	CR/C	2746	2705
110520339	MLA		MEASAT-ROUTE-3B	-75.50	C	CR/C	2741	2705
110520336	MLA		MEASAT-ROUTE-4B	-97.20	C	CR/C	2744	2705
110520341	MLA		MEASAT-ROUTE-5B	-41.20	C	CR/C	2748	2706
111520390	MLA		MEASAT-SA1A	5.00	C	CR/C	3032	2731
110520342	MLA		MEASAT-SA3B	23.00	C	CR/C	2749	2706
110520334	MLA		MEASAT-SA4A	46.00	C	CR/C	2739	2705
95500480	MLA		MEASAT-1	91.50	N	PART	2	2748
104500299	MLA		MEASAT-148E	148.00	N	PART	2	2707
111500193	MLA		MEASAT-1R	91.50	N	PART	2	2713
95500106	MLA		MEASAT-2	148.00	N	PART	2	2735
111500096	MLA		MEASAT-2R	148.00	N	PART	2	2731
107500633	MLA		MEASAT-46E	46.00	N	PART	2	2690
107500241	MLA		MEASAT-91.5E	91.50	N	PART	2	2711
104500467	MLA		MEASAT-AK 91.5	91.50	N	PART	2	2693
105500148	MLA		MEASAT-IC 91.5	91.50	N	PART	2	2693
112541425	MNG		SANSAR-2	113.60	A	API/A	8258	2742
112541151	NCG		NICASAT-1	-84.40	A	API/A	8043	2736
109520079	NIG		NIGCOMSAT-1A	-19.20	C	CR/C	2399	2667
109520080	NIG		NIGCOMSAT-1D	22.00	C	CR/C	2400	2649
109520005	NIG		NIGCOMSAT-1R	42.50	C	CR/C	2425	2688
113540055	NOR		NORBIRD-1A	-2.00	A	API/A	8269	2745
113540056	NOR		NORBIRD-1B	10.00	A	API/A	8270	2745
113540057	NOR		NORBIRD-1C	22.00	A	API/A	8271	2745
113540058	NOR		NORBIRD-32.5E	32.50	A	API/A	8272	2753
113540124	NOR		NORBIRD-38.5E	38.50	A	API/A	8318	2753
113540059	NOR		NORBIRD-41E	41.00	A	API/A	8273	2753
113540558	NOR		SE-KA-107E	107.00	A	API/A	8687	2756
113540565	NOR		SE-KA-145W	-145.00	A	API/A	8693	2757
113540346	NOR		SE-KA-148E	148.00	A	API/A	8496	2754
113540560	NOR		SE-KA-148W	-148.00	A	API/A	8688	2756
113540347	NOR		SE-KA-151E	151.00	A	API/A	8497	2754
111540363	NOR		SE-KA-168W	-168.00	A	API/A	6938	2700
111540382	NOR		SE-KA-172E	172.00	A	API/A	6957	2700
111540383	NOR		SE-KA-176E	176.00	A	API/A	6958	2700
112540824	NOR		SE-KA-18W	-18.00	A	API/A	7893	2759
113540061	NOR		SE-KA-44W	-44.00	A	API/A	8274	2745
111540370	NOR		SE-KA-53E	53.00	A	API/A	6945	2700
111540366	NOR		SE-KA-59W	-59.00	A	API/A	6941	2700
111540364	NOR		SE-KA-65W	-65.00	A	API/A	6939	2700
112540164	NOR		SE-KA-66E	66.00	A	API/A	7512	2720
113540559	NOR		SE-KA-72W	-72.00	A	API/A	8686	2756
111520065	NOR		BIFROST-0.8W-2010	-0.80	C	CR/C	2838	2716
111520065	NOR		BIFROST-0.8W-2010	-0.80	C	CR/E	353	2716
110520155	NOR		BIFROST-0.8W-2010-KA	-0.80	C	CR/C	2662	2700
109520237	NOR		BIFROST-2E-FSS-2009	2.00	C	CR/C	2477	2701
109520236	NOR		BIFROST-4W-FSS-2009	-4.00	C	CR/C	2478	2701
110520241	NOR		DUB DUB 1	46.00	C	CR/C	2714	2702
110520242	NOR		DUB DUB 2	50.20	C	CR/C	2715	2702

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111520305	NOR		DUB DUB-3-28.8W	-28.80	C	CR/C	3003	2727
112520401	NOR		DUB DUB-4-7.7W	-7.70	C	CR/C	3270	2752
113520022	NOR		DUB DUB-5-18W	-18.00	C	CR/C	3326	2759
113520023	NOR		DUB DUB-6-15.5W	-15.50	C	CR/C	3343	2758
113520023	NOR		DUB DUB-6-15.5W	-15.50	C	CR/E	524	2758
111520412	NOR		SE-KA-174W	-174.00	C	CR/C	3057	2731
111520413	NOR		SE-KA-178W	-178.00	C	CR/C	3058	2731
111520408	NOR		SE-KA-180E	180.00	C	CR/C	3053	2731
113520030	NOR		SE-KA-20W	-20.00	C	CR/C	3341	2758
113520030	NOR		SE-KA-20W	-20.00	C	CR/E	522	2758
113520024	NOR		SE-KA-28W	-28.00	C	CR/C	3342	2758
113520024	NOR		SE-KA-28W	-28.00	C	CR/E	523	2758
113520054	NOR		SE-KA-50W	-50.00	C	CR/C	3362	2759
113520054	NOR		SE-KA-50W	-50.00	C	CR/E	542	2759
111520409	NOR		SE-KA-55W	-55.00	C	CR/C	3054	2731
111520397	NOR		SE-KA-56.5E	56.50	C	CR/C	3042	2731
111520410	NOR		SE-KA-56W	-56.00	C	CR/C	3055	2731
111520398	NOR		SE-KA-61.5E	61.50	C	CR/C	3043	2731
111520399	NOR		SE-KA-63E	63.00	C	CR/C	3044	2731
111520411	NOR		SE-KA-63W	-63.00	C	CR/C	3056	2731
111520400	NOR		SE-KA-64E	64.00	C	CR/C	3045	2731
111520401	NOR		SE-KA-67E	67.00	C	CR/C	3046	2731
111520402	NOR		SE-KA-68.5E	68.50	C	CR/C	3047	2731
111520403	NOR		SE-KA-72E	72.00	C	CR/C	3048	2731
111520404	NOR		SE-KA-76.5E	76.50	C	CR/C	3049	2731
111520405	NOR		SE-KA-83.5E	83.50	C	CR/C	3050	2731
111520406	NOR		SE-KA-87.5E	87.50	C	CR/C	3051	2731
111520407	NOR		SE-KA-93E	93.00	C	CR/C	3052	2731
108520129	NRU		SWANSAT-1A	-100.00	C	CR/C	2220	2646
109520020	NRU		SWANSAT-2A	30.00	C	CR/C	2371	2660
110520357	NRU		SWANSAT-3A2	150.00	C	CR/C	2754	2706
108520311	NZL		NZLSAT-2R	158.00	C	CR/C	2349	2641
93540117	PAK		PAKSAT-2	41.00	A	API/A	654	2641
112541254	PAK		PAKSAT-MM1-38.2E	38.20	A	API/A	8119	2740
109520274	PAK		PAKSAT-2R1	41.00	C	CR/C	2502	2684
106500372	PAK		PAKSAT-1	38.00	N	PART	2	2660
110500363	PAK		PAKSAT-1R	38.00	N	PART	2	2738
111500072	PAK		PAKSAT-1R1	38.00	N	PART	2	2742
113540478	PNG		NEW DAWN 40	157.00	A	API/A	8666	2755
113540564	PNG		NEW DAWN 41	157.00	A	API/A	8692	2759
111540996	PNG		PACIFISAT KA-65E	65.00	A	API/A	7295	2716
111540548	PNG		PACIFISAT-10	150.50	A	API/A	7038	2705
113540088	PNG		PACIFISAT-12W	-12.00	A	API/A	8305	2746
113540569	PNG		PACIFISAT-176.1E	176.10	A	API/A	8697	2757
113540087	PNG		PACIFISAT-39W	-39.00	A	API/A	8304	2746
112540552	PNG		PACIFISAT-S-116.1E	116.10	A	API/A	7689	2723
112540553	PNG		PACIFISAT-S-146.1E	146.10	A	API/A	7690	2723
112540554	PNG		PACIFISAT-S-148.1E	148.10	A	API/A	7691	2723
112540555	PNG		PACIFISAT-S-150.5E	150.50	A	API/A	7692	2723
112540471	PNG		PACIFISAT-S-156E	156.00	A	API/A	7611	2722
112540472	PNG		PACIFISAT-S-159E	159.00	A	API/A	7612	2722



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113540408	PNG		PACIFISAT-S-63E	63.00	A	API/A	8540	2755
112540549	PNG		PACIFISAT-S-70E	70.00	A	API/A	7686	2723
112540551	PNG		PACIFISAT-S-85.3E	85.30	A	API/A	7688	2723
111540730	PNG		RAGGIANA-14	-63.00	A	API/A	7162	2706
111540731	PNG		RAGGIANA-15	-71.00	A	API/A	7163	2706
111540732	PNG		RAGGIANA-16	-79.00	A	API/A	7164	2706
111540733	PNG		RAGGIANA-17	-91.00	A	API/A	7165	2706
111540168	PNG		RAGGIANA-9	78.50	A	API/A	6791	2695
110520119	PNG		AFRISAT-3W	-3.00	C	CR/C	2679	2725
111520063	PNG		BLUE1	-95.00	C	CR/C	2945	2720
112520403	PNG		MENASAT	8.00	C	CR/C	3282	2753
112520403	PNG		MENASAT	8.00	C	CR/E	474	2753
109520052	PNG		NEW DAWN 20	50.75	C	CR/C	2384	2665
110520133	PNG		NEW DAWN 21	60.00	C	CR/C	2653	2677
110520133	PNG		NEW DAWN 21	60.00	C	CR/E	185	2677
110520125	PNG		NEW DAWN 22	62.00	C	CR/C	2641	2676
110520125	PNG		NEW DAWN 22	62.00	C	CR/E	183	2676
110520126	PNG		NEW DAWN 23	64.00	C	CR/C	2642	2676
110520126	PNG		NEW DAWN 23	64.00	C	CR/E	184	2676
110520127	PNG		NEW DAWN 24	66.00	C	CR/C	2643	2676
110520127	PNG		NEW DAWN 24	66.00	C	CR/E	157	2676
110520355	PNG		NEW DAWN 25	-50.00	C	CR/C	2752	2706
110520356	PNG		NEW DAWN 26	-55.50	C	CR/C	2753	2706
111520064	PNG		NEW DAWN 27	68.50	C	CR/C	2894	2722
111520154	PNG		NEW DAWN 28	72.00	C	CR/C	2917	2718
111520155	PNG		NEW DAWN 29	-45.00	C	CR/C	2918	2719
111520156	PNG		NEW DAWN 30	-53.00	C	CR/C	2919	2719
111520157	PNG		NEW DAWN 31	-58.00	C	CR/C	2920	2719
111520158	PNG		NEW DAWN 32	-43.00	C	CR/C	2921	2719
111520159	PNG		NEW DAWN 33	33.00	C	CR/C	2922	2718
111520160	PNG		NEW DAWN 34	85.00	C	CR/C	2923	2718
111520215	PNG		NEW DAWN 35	-50.00	C	CR/C	2946	2721
111520216	PNG		NEW DAWN 36	-55.50	C	CR/C	2947	2721
111520295	PNG		NEW DAWN 37	-99.00	C	CR/C	2984	2718
111520295	PNG		NEW DAWN 37	-99.00	C	CR/E	356	2718
108520226	PNG		NEW DAWN-17	-131.00	C	CR/C	2284	2650
108520227	PNG		NEW DAWN-18	-133.00	C	CR/C	2285	2650
109520227	PNG		PACIFISAT C/KU-1	156.00	C	CR/C	2499	2684
109520228	PNG		PACIFISAT C/KU-2	159.00	C	CR/C	2500	2684
110520260	PNG		PACIFISAT C/KU-3	176.10	C	CR/C	2734	2712
110520261	PNG		PACIFISAT C/KU-4	146.10	C	CR/C	2735	2712
110520262	PNG		PACIFISAT C/KU-5	148.10	C	CR/C	2736	2712
112520179	PNG		PACIFISAT KA-1 156E	156.00	C	CR/C	3191	2745
112520180	PNG		PACIFISAT KA-2 159E	159.00	C	CR/C	3192	2748
112520274	PNG		PACIFISAT KA-67E	67.00	C	CR/C	3223	2750
112520275	PNG		PACIFISAT KA-70E	70.00	C	CR/C	3224	2750
112520073	PNG		PACIFISAT KA-75E	75.00	C	CR/C	3144	2741
109520145	PNG		PACIFISAT-1	75.00	C	CR/C	2440	2678
109520239	PNG		PACIFISAT-2	70.00	C	CR/C	2475	2663
109520240	PNG		PACIFISAT-3	67.00	C	CR/C	2476	2663
110520058	PNG		PACIFISAT-4	59.00	C	CR/C	2647	2727

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110520059	PNG		PACIFISAT-5	61.00	C	CR/C	2648	2727
110520060	PNG		PACIFISAT-6	63.00	C	CR/C	2649	2727
110520057	PNG		PACIFISAT-7	65.00	C	CR/C	2650	2745
111520061	PNG		PACIFISAT-8	85.30	C	CR/C	2837	2716
111520061	PNG		PACIFISAT-8	85.30	C	CR/E	74	2716
112520008	PNG		PACIFISAT-9	116.10	C	CR/C	3114	2737
113520170	PNG		PACIFISAT-S-75E	75.00	C	CR/C	3420	2757
110520275	PNG		RAGGIANA-1	-59.00	C	CR/C	2723	2703
111520291	PNG		RAGGIANA-10	88.00	C	CR/C	3014	2728
111520292	PNG		RAGGIANA-11	134.00	C	CR/C	2992	2725
111520293	PNG		RAGGIANA-12	97.50	C	CR/C	2993	2725
111520294	PNG		RAGGIANA-13	108.00	C	CR/C	2994	2725
113520165	PNG		RAGGIANA-18	-117.00	C	CR/C	3415	2757
110520276	PNG		RAGGIANA-2	-65.00	C	CR/C	2724	2703
110520277	PNG		RAGGIANA-3	-75.00	C	CR/C	2725	2744
110520278	PNG		RAGGIANA-5	-97.00	C	CR/C	2726	2744
110520279	PNG		RAGGIANA-6	-113.00	C	CR/C	2727	2744
111520289	PNG		RAGGIANA-7	37.00	C	CR/C	2991	2725
111520290	PNG		RAGGIANA-8	55.00	C	CR/C	3013	2728
107500102	PNG		PACSTAR-L4	-121.00	N	PART	2	2680
111540274	QAT		QATARSAT-10	25.50	A	API/A	6883	2699
111540275	QAT		QATARSAT-11	45.00	A	API/A	6884	2699
111540276	QAT		QATARSAT-12	91.50	A	API/A	6885	2699
111540277	QAT		QATARSAT-13	100.50	A	API/A	6886	2699
111540278	QAT		QATARSAT-14	105.50	A	API/A	6887	2699
111540271	QAT		QATARSAT-7	-7.00	A	API/A	6880	2699
111540272	QAT		QATARSAT-8	-3.00	A	API/A	6881	2699
112540076	QAT		QATARSAT-G2-1	0.00	A	API/A	7364	2717
112540085	QAT		QATARSAT-G2-10	45.00	A	API/A	7373	2717
112540086	QAT		QATARSAT-G2-11	47.50	A	API/A	7374	2717
112540087	QAT		QATARSAT-G2-12	48.00	A	API/A	7375	2717
112540088	QAT		QATARSAT-G2-13	52.20	A	API/A	7376	2717
112540089	QAT		QATARSAT-G2-14	54.00	A	API/A	7377	2717
112540090	QAT		QATARSAT-G2-15	60.00	A	API/A	7378	2717
112540091	QAT		QATARSAT-G2-16	66.00	A	API/A	7379	2717
112540092	QAT		QATARSAT-G2-17	72.00	A	API/A	7380	2717
112540093	QAT		QATARSAT-G2-18	78.00	A	API/A	7381	2717
112540094	QAT		QATARSAT-G2-19	84.00	A	API/A	7382	2717
112540077	QAT		QATARSAT-G2-2	6.00	A	API/A	7365	2717
112540095	QAT		QATARSAT-G2-20	90.00	A	API/A	7383	2717
112540096	QAT		QATARSAT-G2-21	96.00	A	API/A	7384	2717
112540097	QAT		QATARSAT-G2-22	100.50	A	API/A	7385	2717
112540098	QAT		QATARSAT-G2-23	102.00	A	API/A	7386	2717
112540099	QAT		QATARSAT-G2-24	105.50	A	API/A	7387	2717
112540100	QAT		QATARSAT-G2-25	108.00	A	API/A	7388	2717
112540101	QAT		QATARSAT-G2-26	114.00	A	API/A	7389	2717
112540102	QAT		QATARSAT-G2-27	120.00	A	API/A	7390	2717
112540103	QAT		QATARSAT-G2-28	126.00	A	API/A	7391	2717
112540104	QAT		QATARSAT-G2-29	132.00	A	API/A	7392	2717
112540106	QAT		QATARSAT-G2-31	144.00	A	API/A	7394	2717
112540107	QAT		QATARSAT-G2-32	150.00	A	API/A	7395	2717

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112540108	QAT		QATARSAT-G2-33	156.00	A	API/A	7396	2717
112540109	QAT		QATARSAT-G2-34	162.00	A	API/A	7397	2717
112540110	QAT		QATARSAT-G2-35	168.00	A	API/A	7398	2717
112540111	QAT		QATARSAT-G2-36	174.00	A	API/A	7399	2717
112540112	QAT		QATARSAT-G2-37	180.00	A	API/A	7400	2717
112540113	QAT		QATARSAT-G2-38	-3.00	A	API/A	7401	2717
112540114	QAT		QATARSAT-G2-39	-9.50	A	API/A	7402	2717
112540079	QAT		QATARSAT-G2-4	18.00	A	API/A	7367	2717
112540115	QAT		QATARSAT-G2-40	-7.00	A	API/A	7403	2717
112540116	QAT		QATARSAT-G2-41	-12.00	A	API/A	7404	2717
112540117	QAT		QATARSAT-G2-42	-18.00	A	API/A	7405	2717
112540118	QAT		QATARSAT-G2-43	-24.00	A	API/A	7406	2717
112540119	QAT		QATARSAT-G2-44	-30.00	A	API/A	7407	2717
112540120	QAT		QATARSAT-G2-45	-36.00	A	API/A	7408	2717
112540121	QAT		QATARSAT-G2-46	-42.00	A	API/A	7409	2717
112540122	QAT		QATARSAT-G2-47	-48.00	A	API/A	7410	2717
112540123	QAT		QATARSAT-G2-48	-54.00	A	API/A	7411	2717
112540124	QAT		QATARSAT-G2-49	-60.00	A	API/A	7412	2717
112540080	QAT		QATARSAT-G2-5	24.00	A	API/A	7368	2717
112540125	QAT		QATARSAT-G2-50	-66.00	A	API/A	7413	2717
112540126	QAT		QATARSAT-G2-51	-72.00	A	API/A	7414	2717
112540127	QAT		QATARSAT-G2-52	-78.00	A	API/A	7415	2717
112540128	QAT		QATARSAT-G2-53	-84.00	A	API/A	7416	2717
112540129	QAT		QATARSAT-G2-54	-90.00	A	API/A	7417	2717
112540130	QAT		QATARSAT-G2-55	-96.00	A	API/A	7418	2717
112540131	QAT		QATARSAT-G2-56	-102.00	A	API/A	7419	2717
112540132	QAT		QATARSAT-G2-57	-108.00	A	API/A	7420	2717
112540133	QAT		QATARSAT-G2-58	-114.00	A	API/A	7421	2717
112540134	QAT		QATARSAT-G2-59	-120.00	A	API/A	7422	2717
112540135	QAT		QATARSAT-G2-60	-126.00	A	API/A	7423	2717
112540136	QAT		QATARSAT-G2-61	-132.00	A	API/A	7424	2717
112540137	QAT		QATARSAT-G2-62	-138.00	A	API/A	7425	2717
112540138	QAT		QATARSAT-G2-63	-144.00	A	API/A	7426	2717
112540139	QAT		QATARSAT-G2-64	-150.00	A	API/A	7427	2717
112540140	QAT		QATARSAT-G2-65	-156.00	A	API/A	7428	2717
112540141	QAT		QATARSAT-G2-66	-162.00	A	API/A	7429	2717
112540142	QAT		QATARSAT-G2-67	-168.00	A	API/A	7430	2717
112540143	QAT		QATARSAT-G2-68	-174.00	A	API/A	7431	2717
112540144	QAT		QATARSAT-G2-69	-179.00	A	API/A	7432	2717
112540083	QAT		QATARSAT-G2-8	36.00	A	API/A	7371	2717
112540084	QAT		QATARSAT-G2-9	42.00	A	API/A	7372	2717
110520281	QAT		QATARSAT-2	41.00	C	CR/C	2730	2705
110520282	QAT		QATARSAT-3	46.00	C	CR/C	2731	2705
110520283	QAT		QATARSAT-4	54.50	C	CR/C	2732	2705
110520284	QAT		QATARSAT-5	61.00	C	CR/C	2733	2705
110520207	QAT		QATARSAT-6	25.50	C	CR/C	2690	2681
110520207	QAT		QATARSAT-6	25.50	C	CR/E	208	2681
111520333	QAT		QATARSAT-9	21.50	C	CR/C	3034	2753
113520062	QAT		QATARSAT-G2-3	14.50	C	CR/C	3366	2749
113523022	QAT		QATARSAT-G2-3_1	14.50	C	CR/F	47	2750
113520065	QAT		QATARSAT-G2-30	135.50	C	CR/C	3367	2749

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113523025	QAT		QATARSAT-G2-30_1	135.50	C	CR/F	48	2750
113520063	QAT		QATARSAT-G2-6	25.50	C	CR/C	3396	2754
113523023	QAT		QATARSAT-G2-6_1	25.50	C	CR/F	54	2754
113520064	QAT		QATARSAT-G2-7	26.00	C	CR/C	3397	2754
113523024	QAT		QATARSAT-G2-7_1	26.00	C	CR/F	55	2754
113540367	RUS	IK	INTERSPUTNIK-102E	102.00	A	API/A	8510	2754
113540368	RUS	IK	INTERSPUTNIK-105E	105.00	A	API/A	8511	2754
113540369	RUS	IK	INTERSPUTNIK-108E	108.00	A	API/A	8512	2754
113540370	RUS	IK	INTERSPUTNIK-111E	111.00	A	API/A	8513	2754
113540371	RUS	IK	INTERSPUTNIK-114E	114.00	A	API/A	8514	2754
113540372	RUS	IK	INTERSPUTNIK-117E	117.00	A	API/A	8515	2754
113540373	RUS	IK	INTERSPUTNIK-120E	120.00	A	API/A	8516	2754
113540374	RUS	IK	INTERSPUTNIK-123E	123.00	A	API/A	8517	2754
113540375	RUS	IK	INTERSPUTNIK-126E	126.00	A	API/A	8518	2754
113540376	RUS	IK	INTERSPUTNIK-129E	129.00	A	API/A	8519	2754
113540377	RUS	IK	INTERSPUTNIK-132E	132.00	A	API/A	8520	2754
113540378	RUS	IK	INTERSPUTNIK-135E	135.00	A	API/A	8521	2754
113540379	RUS	IK	INTERSPUTNIK-138E	138.00	A	API/A	8522	2754
113540380	RUS	IK	INTERSPUTNIK-141E	141.00	A	API/A	8523	2754
113540381	RUS	IK	INTERSPUTNIK-144E	144.00	A	API/A	8524	2754
113540382	RUS	IK	INTERSPUTNIK-147E	147.00	A	API/A	8525	2754
113540383	RUS	IK	INTERSPUTNIK-150E	150.00	A	API/A	8526	2754
113540384	RUS	IK	INTERSPUTNIK-153E	153.00	A	API/A	8527	2754
113540385	RUS	IK	INTERSPUTNIK-156E	156.00	A	API/A	8528	2754
113540386	RUS	IK	INTERSPUTNIK-159E	159.00	A	API/A	8529	2754
113540387	RUS	IK	INTERSPUTNIK-162E	162.00	A	API/A	8530	2754
113540388	RUS	IK	INTERSPUTNIK-165E	165.00	A	API/A	8531	2754
113540389	RUS	IK	INTERSPUTNIK-168E	168.00	A	API/A	8532	2754
112540618	RUS	IK	INTERSPUTNIK-16W-5	-16.00	A	API/A	7749	2724
113540390	RUS	IK	INTERSPUTNIK-171E	171.00	A	API/A	8533	2754
113540391	RUS	IK	INTERSPUTNIK-174E	174.00	A	API/A	8534	2754
113540392	RUS	IK	INTERSPUTNIK-177E	177.00	A	API/A	8535	2754
112540621	RUS	IK	INTERSPUTNIK-18.5E-1	18.50	A	API/A	7752	2724
113540393	RUS	IK	INTERSPUTNIK-180E	180.00	A	API/A	8536	2754
112540617	RUS	IK	INTERSPUTNIK-26W-1	-26.00	A	API/A	7748	2724
112540622	RUS	IK	INTERSPUTNIK-29.5E-1	29.50	A	API/A	7753	2724
112540616	RUS	IK	INTERSPUTNIK-35W-1	-35.00	A	API/A	7747	2724
112540619	RUS	IK	INTERSPUTNIK-3W-5	-3.00	A	API/A	7750	2724
112540623	RUS	IK	INTERSPUTNIK-41E-1	41.00	A	API/A	7754	2724
112540615	RUS	IK	INTERSPUTNIK-47W	-47.00	A	API/A	7746	2724
112540624	RUS	IK	INTERSPUTNIK-51.5E-1	51.50	A	API/A	7755	2724
112540614	RUS	IK	INTERSPUTNIK-59W	-59.00	A	API/A	7745	2724
112540625	RUS	IK	INTERSPUTNIK-68.5E	68.50	A	API/A	7756	2724
112540613	RUS	IK	INTERSPUTNIK-71W	-71.00	A	API/A	7744	2724
112540626	RUS	IK	INTERSPUTNIK-75E	75.00	A	API/A	7757	2724
113540361	RUS	IK	INTERSPUTNIK-84E	84.00	A	API/A	8504	2754
113540362	RUS	IK	INTERSPUTNIK-87E	87.00	A	API/A	8505	2754
112540620	RUS	IK	INTERSPUTNIK-8E-1	8.00	A	API/A	7751	2724
113540363	RUS	IK	INTERSPUTNIK-90E	90.00	A	API/A	8506	2754
113540364	RUS	IK	INTERSPUTNIK-93E	93.00	A	API/A	8507	2754
111540576	RUS	IK	INTERSPUTNIK-94.1W	-94.10	A	API/A	7078	2705

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113540365	RUS	IK	INTERSPUTNIK-96E	96.00	A	API/A	8508	2754
113540366	RUS	IK	INTERSPUTNIK-99E	99.00	A	API/A	8509	2754
112520125	RUS	IK	INTERSPUTNIK-113W	-113.00	C	CR/C	3161	2750
110520063	RUS	IK	INTERSPUTNIK-16W-2	-16.00	C	CR/C	2610	2693
112520069	RUS	IK	INTERSPUTNIK-16W-4	-16.00	C	CR/C	3142	2741
112523002	RUS	IK	INTERSPUTNIK-16W-4_1	-16.00	C	CR/F	5	2730
109520131	RUS	IK	INTERSPUTNIK-17E-2	17.00	C	CR/C	2426	2654
111520101	RUS	IK	INTERSPUTNIK-26W	-26.00	C	CR/C	2874	2720
108520257	RUS	IK	INTERSPUTNIK-47.5W	-47.50	C	CR/C	2309	2681
108520258	RUS	IK	INTERSPUTNIK-50.5E	50.50	C	CR/C	2310	2652
110520061	RUS	IK	INTERSPUTNIK-52.5W	-52.50	C	CR/C	2611	2693
111520102	RUS	IK	INTERSPUTNIK-62.5E	62.50	C	CR/C	2875	2720
111520103	RUS	IK	INTERSPUTNIK-67.4E	67.40	C	CR/C	2876	2720
110520064	RUS	IK	INTERSPUTNIK-78E	78.00	C	CR/C	2612	2693
112520127	RUS	IK	INTERSPUTNIK-87W	-87.00	C	CR/C	3159	2750
110520062	RUS	IK	INTERSPUTNIK-9.5W	-9.50	C	CR/C	2609	2693
112520126	RUS	IK	INTERSPUTNIK-97.8W	-97.80	C	CR/C	3160	2750
101500190	RUS	IK	INTERBELAR-2	75.00	N	PART	2	2731
103500127	RUS	IK	INTERSPUTNIK-17E	17.00	N	PART	2	2619
109500232	RUS	IK	INTERSPUTNIK-17E-CK	17.00	N	PART	2	2701
103500095	RUS	IK	INTERSPUTNIK-3W	-3.00	N	PART	2	2710
112500275	RUS	IK	INTERSPUTNIK-3W-CK	-3.00	N	PART	2	2744
105500292	RUS	IK	INTERSPUTNIK-3W-Q	-3.00	N	PART	2	2710
112500149	RUS	IK	INTERSPUTNIK-75E-CK	75.00	N	PART	2	2732
105500291	RUS	IK	INTERSPUTNIK-75E-Q	75.00	N	PART	2	2675
113540601	RUS		BRASLET-125E	125.00	A	API/A	8711	2759
113540602	RUS		BRASLET-149E	149.00	A	API/A	8712	2759
113540600	RUS		BRASLET-59E	59.00	A	API/A	8710	2759
113540033	RUS		ENSAT-KA-112E	112.00	A	API/A	8256	2744
113540034	RUS		ENSAT-KA1-56.5E	56.50	A	API/A	8257	2744
111540865	RUS		ENSAT-KA-31E	31.00	A	API/A	7213	2711
111540866	RUS		ENSAT-KA-37.5E	37.50	A	API/A	7214	2711
111540868	RUS		ENSAT-KA-50E	50.00	A	API/A	7216	2711
111540869	RUS		ENSAT-KA-56.5E	56.50	A	API/A	7217	2711
111540870	RUS		ENSAT-KA-64E	64.00	A	API/A	7218	2711
111540872	RUS		ENSAT-KA-74E	74.00	A	API/A	7220	2711
113540032	RUS		ENSAT-KA-99E	99.00	A	API/A	8255	2744
111540947	RUS		PEGAS-5EAST	5.00	A	API/A	7292	2716
113540125	RUS		RUSATCOM-145E	145.00	A	API/A	8319	2751
113540612	RUS		YAMAL-KA1M	49.00	A	API/A	8719	2759
110520362	RUS		AMG-106W	-106.00	C	CR/C	2760	2707
110520365	RUS		AMG-159.5E	159.50	C	CR/C	2759	2707
111520129	RUS		AMG-23E	23.00	C	CR/C	2896	2722
110520364	RUS		AMG-36W	-36.00	C	CR/C	2758	2707
111520223	RUS		AMG-3W	-3.00	C	CR/C	2952	2721
111520130	RUS		AMG-49E	49.00	C	CR/C	2897	2722
110520363	RUS		AMG-65.5W	-65.50	C	CR/C	2757	2707
111520325	RUS		AMG-76.5E	76.50	C	CR/C	2987	2725
111520219	RUS		ENSAT-13E	13.00	C	CR/C	3015	2728
111520220	RUS		ENSAT-14.5E	14.50	C	CR/C	3016	2728
111520221	RUS		ENSAT-23E	23.00	C	CR/C	3017	2728

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112520421	RUS		ENSAT-KA-136E	136.00	C	CR/C	3267	2752
112520419	RUS		ENSAT-KA-42.5E	42.50	C	CR/C	3265	2752
111520222	RUS		ENSAT-KA-61E	61.00	C	CR/C	3018	2728
112520420	RUS		ENSAT-KA-67E	67.00	C	CR/C	3266	2752
109520314	RUS		EXPRESS-B 11W	-11.00	C	CR/C	2549	2668
109520123	RUS		EXPRESS-B 14.5E	14.50	C	CR/C	2418	2653
112520153	RUS		GOMS-166E	165.80	C	CR/C	3190	2745
110520134	RUS		MARAFON-M2	90.50	C	CR/C	2654	2696
111520518	RUS		RSS-VSD-104E	104.00	C	CR/C	3109	2737
111520519	RUS		RSS-VSD-133E	133.00	C	CR/C	3110	2737
111520515	RUS		RSS-VSD-60E	60.00	C	CR/C	3106	2737
111520516	RUS		RSS-VSD-71E	71.00	C	CR/C	3107	2737
111520517	RUS		RSS-VSD-85E	85.00	C	CR/C	3108	2737
107520034	RUS		VOLNA-3R	-11.00	C	CR/C	2025	2621
107520035	RUS		VOLNA-5R	96.50	C	CR/C	2026	2621
111520152	RUS		YAMAL-55E	55.00	C	CR/C	2948	2716
111520152	RUS		YAMAL-55E	55.00	C	CR/E	149	2716
112520216	RUS		YAMAL-E3M	81.75	C	CR/C	3214	2745
112520216	RUS		YAMAL-E3M	81.75	C	CR/E	406	2745
112520217	RUS		YAMAL-E5M	163.50	C	CR/C	3215	2745
112520217	RUS		YAMAL-E5M	163.50	C	CR/E	407	2745
111520131	RUS		YAMAL-KA1	49.00	C	CR/C	2943	2703
111520132	RUS		YAMAL-KA2	90.00	C	CR/C	2944	2716
111520132	RUS		YAMAL-KA2	90.00	C	CR/E	146	2716
90500132	RUS		CSDRN	95.00	N	PART	1	2686
111500243	RUS		CSDRN-M	95.00	N	PART	2	2746
90501087	RUS		CSSRD-2	77.00	N	PART	1	2714
90500133	RUS		ESDRN	-160.00	N	PART	1	2686
100500089	RUS		EXPRESS-10	140.00	N	PART	2	2662
106500057	RUS		EXPRESS-10B	140.00	N	PART	2	2735
112500064	RUS		EXPRESS-10KA	140.00	N	PART	2	2743
100500090	RUS		EXPRESS-11	145.00	N	PART	2	2660
97500285	RUS		EXPRESS-2	-14.00	N	PART	2	2661
106500060	RUS		EXPRESS-2B	-14.00	N	PART	2	2735
97500286	RUS		EXPRESS-3	-11.00	N	PART	2	2691
98500178	RUS		EXPRESS-4	40.00	N	PART	2	2755
106500059	RUS		EXPRESS-4B	40.00	N	PART	2	2755
98500179	RUS		EXPRESS-5	53.00	N	PART	2	2735
106500050	RUS		EXPRESS-5B	53.00	N	PART	2	2735
112500235	RUS		EXPRESS-5KA	53.00	N	PART	2	2756
97500288	RUS		EXPRESS-6	80.00	N	PART	2	2658
106500056	RUS		EXPRESS-6B	80.00	N	PART	2	2718
112500236	RUS		EXPRESS-6KA	80.00	N	PART	2	2756
100500160	RUS		EXPRESS-7	90.00	N	PART	2	2693
106500099	RUS		EXPRESS-7B	90.00	N	PART	2	2711
112500045	RUS		EXPRESS-7C	90.00	N	PART	2	2746
100500298	RUS		EXPRESS-8	96.50	N	PART	2	2660
106500055	RUS		EXPRESS-8B	96.50	N	PART	2	2696
100500229	RUS		EXPRESS-9	103.00	N	PART	2	2646
106500058	RUS		EXPRESS-9B	103.00	N	PART	2	2735
94500364	RUS		FOTON-1	-13.50	N	PART	1	2714

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92500170	RUS		FOTON-2	80.00	N	PART	1	2714
94500365	RUS		FOTON-3	-168.00	N	PART	1	2714
90500382	RUS		GALS-1	-26.50	N	PART	2	2654
90500385	RUS		GALS-10	128.00	N	PART	2	2740
101500486	RUS		GALS-11	-3.00	N	PART	2	2740
101500485	RUS		GALS-12	15.00	N	PART	2	2740
98500183	RUS		GALS-13	49.00	N	PART	2	2654
98500184	RUS		GALS-14	69.00	N	PART	2	2682
101500484	RUS		GALS-15	1.00	N	PART	2	2740
98500185	RUS		GALS-16	70.00	N	PART	2	2654
98500186	RUS		GALS-17	12.00	N	PART	2	2640
90500393	RUS		GALS-2	45.00	N	PART	2	2654
90500394	RUS		GALS-3	85.00	N	PART	2	2654
90500395	RUS		GALS-4	-170.00	N	PART	2	2654
90500397	RUS		GALS-5	130.00	N	PART	2	2654
90500399	RUS		GALS-6	35.00	N	PART	2	2654
101500180	RUS		GALS-7	8.00	N	PART	2	2740
101500487	RUS		GALS-8	23.00	N	PART	2	2740
90500404	RUS		GALS-9	-25.00	N	PART	2	2740
113500039	RUS		GOMS-14.5W	-14.50	N	PART	2	2753
96500168	RUS		GOMS-1M	-14.50	N	PART	2	2645
95500278	RUS		GOMS-M	76.00	N	PART	2	2702
100500233	RUS		KUPON-1	55.00	N	PART	2	2430
110500081	RUS		KUPON-1M	55.00	N	PART	2	2735
108500042	RUS		KUPON-1S	55.00	N	PART	2	2647
104500545	RUS		KUPON-1T	55.00	N	PART	2	2627
102500309	RUS		KUPON-3	-9.50	N	PART	2	2534
111500211	RUS		KUPON-4M	86.50	N	PART	2	2717
101500488	RUS		LOUTCH-10	145.00	N	PART	2	2554
90500287	RUS		LOUTCH-3	90.00	N	PART	2	2554
90500288	RUS		LOUTCH-4	140.00	N	PART	2	2554
90500290	RUS		LOUTCH-5	103.00	N	PART	2	2554
99500020	RUS		LOUTCH-7	40.00	N	PART	2	2754
90500297	RUS		LOUTCH-9	96.50	N	PART	2	2554
90500593	RUS		POTOK-1	-13.50	N	PART	2	2610
90500592	RUS		POTOK-2	80.00	N	PART	2	2583
90500594	RUS		POTOK-3	-168.00	N	PART	2	2610
90500531	RUS		PROGNOZ-1	-24.00	N	PART	2	
90500528	RUS		PROGNOZ-2	12.00	N	PART	2	
90500529	RUS		PROGNOZ-3	35.00	N	PART	2	
90500530	RUS		PROGNOZ-4	80.00	N	PART	2	2518
94500349	RUS		PROGNOZ-5	130.00	N	PART	2	2680
94500350	RUS		PROGNOZ-6	166.00	N	PART	2	2680
94500351	RUS		PROGNOZ-7	-159.00	N	PART	2	2680
102500059	RUS		PROGNOZ-8	98.00	N	PART	2	2740
102500047	RUS		ROSCOM-4	49.00	N	PART	1	2758
99500287	RUS		RST-1	36.00	N	PART	2	2522
99500288	RUS		RST-2	56.00	N	PART	2	2522
108501199	RUS		SADKO-1	85.40	N	PART	2	2710
90500475	RUS		STATIONAR-1	80.00	N	PART	2	
90500477	RUS		STATIONAR-10	-170.00	N	PART	2	2740

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101500526	RUS		STATIONAR-10A	-170.00	N	PART	2	2714
90500193	RUS		STATIONAR-14	96.50	N	PART	2	2554
90500216	RUS		STATIONAR-15	128.00	N	PART	2	2740
90500185	RUS		STATIONAR-16	145.00	N	PART	2	2569
101500181	RUS		STATIONAR-17	-26.50	N	PART	2	2740
101500182	RUS		STATIONAR-18	8.00	N	PART	2	2740
101500183	RUS		STATIONAR-19	23.00	N	PART	2	2740
90500496	RUS		STATIONAR-2	35.00	N	PART	2	2740
90500256	RUS		STATIONAR-20	70.00	N	PART	2	2714
90500220	RUS		STATIONAR-21	103.00	N	PART	2	2554
90500196	RUS		STATIONAR-22	1.00	N	PART	2	2740
101500185	RUS		STATIONAR-23	15.00	N	PART	2	2740
90500199	RUS		STATIONAR-24	49.00	N	PART	2	2714
91910063	RUS		STATIONAR-27	12.00	N	PART	2	2714
90500501	RUS		STATIONAR-3	85.00	N	PART	2	2740
90500482	RUS		STATIONAR-6	90.00	N	PART	2	2554
90500483	RUS		STATIONAR-7	140.00	N	PART	2	2554
90500484	RUS		STATIONAR-8	-25.00	N	PART	2	2740
90500507	RUS		STATIONAR-9	45.00	N	PART	2	2649
101500527	RUS		STATIONAR-9A	45.00	N	PART	2	2714
94500244	RUS		STATIONAR-D1	-26.50	N	PART	2	
94500245	RUS		STATIONAR-D2	-170.00	N	PART	2	
94500246	RUS		STATIONAR-D3	35.00	N	PART	2	2732
94500247	RUS		STATIONAR-D4	45.00	N	PART	2	2732
94500248	RUS		STATIONAR-D5	85.40	N	PART	2	2732
94500249	RUS		STATIONAR-D6	128.00	N	PART	2	2732
104500019	RUS		STATIONAR-M2	-3.00	N	PART	2	2605
90500508	RUS		STATIONAR-T	99.00	N	PART	2	2597
90500509	RUS		STATIONAR-T2	99.00	N	PART	2	2597
105500356	RUS		TOR-10M	130.00	N	PART	2	2664
105500357	RUS		TOR-11M	-3.00	N	PART	2	2621
105500358	RUS		TOR-12M	14.00	N	PART	2	2652
105500359	RUS		TOR-13M	58.00	N	PART	2	2621
105500360	RUS		TOR-14M	69.00	N	PART	2	2621
105500448	RUS		TOR-15M	1.00	N	PART	2	2631
105500449	RUS		TOR-16M	49.00	N	PART	2	2631
105500450	RUS		TOR-17M	70.00	N	PART	2	2664
105500451	RUS		TOR-18M	12.00	N	PART	2	2631
105500352	RUS		TOR-1M	-26.50	N	PART	2	2620
105500444	RUS		TOR-2M	35.00	N	PART	2	2631
90500546	RUS		TOR-3	45.00	N	PART	2	2655
90500547	RUS		TOR-4	85.00	N	PART	2	2655
105500445	RUS		TOR-4M	85.00	N	PART	2	2631
90500548	RUS		TOR-5	-170.00	N	PART	2	2655
105500446	RUS		TOR-5M	-170.00	N	PART	2	2631
95500611	RUS		TOR-6	128.00	N	PART	2	2682
105500447	RUS		TOR-6M	128.00	N	PART	2	2631
105500353	RUS		TOR-7M	24.00	N	PART	2	2652
105500354	RUS		TOR-8M	8.00	N	PART	2	2621
105500355	RUS		TOR-9M	-25.00	N	PART	2	2689
101500386	RUS		VOLNA-11	35.00	N	PART	2	2682



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101500387	RUS		VOLNA-13	-26.50	N	PART	2	2740
101500388	RUS		VOLNA-15	8.00	N	PART	2	2740
101500389	RUS		VOLNA-17	23.00	N	PART	2	2740
101500390	RUS		VOLNA-19	70.00	N	PART	2	2740
95500612	RUS		VOLNA-1A	-25.00	N	PART	2	2740
90500585	RUS		VOLNA-2	-14.00	N	PART	2	
101500391	RUS		VOLNA-21	1.00	N	PART	2	2740
101500392	RUS		VOLNA-23	15.00	N	PART	2	2740
101500393	RUS		VOLNA-25	49.00	N	PART	2	2655
101500394	RUS		VOLNA-27	12.00	N	PART	2	2655
90504199	RUS		VOLNA-3	45.00	N	PART	2	2740
90500586	RUS		VOLNA-4	53.00	N	PART	2	
110500067	RUS		VOLNA-4R	40.00	N	PART	2	2754
90504200	RUS		VOLNA-5	85.00	N	PART	2	2740
90500587	RUS		VOLNA-6	140.00	N	PART	2	
110500012	RUS		VOLNA-6R	145.00	N	PART	2	2684
90504201	RUS		VOLNA-7	-170.00	N	PART	2	2740
90504202	RUS		VOLNA-8	90.00	N	PART	2	2720
108500738	RUS		VOLNA-8R	80.00	N	PART	2	2664
101500385	RUS		VOLNA-9	128.00	N	PART	2	2682
90501088	RUS		VSSRD-2	167.00	N	PART	1	2714
112500228	RUS		VSSRD-2M	167.00	N	PART	2	2755
90500134	RUS		WSDRN	-16.00	N	PART	1	2686
111500244	RUS		WSDRN-M	-16.00	N	PART	2	2746
112500245	RUS		YAMAL-49E	49.00	N	PART	2	2759
105500011	RUS		YAMAL-E3	81.75	N	PART	2	2630
90501090	RUS		ZSSRD-2	-16.00	N	PART	2	2740
90500541	S	NOT	TELE-X	5.00	N	PART	2	2662
107540740	S		SIRIUS-5E-5	5.00	A	API/A	4802	2620
108520256	S		SIRIUS-13W-4	-13.00	C	CR/C	2300	2659
111520452	S		SIRIUS-13W-6	-13.00	C	CR/C	3064	2734
107520044	S		SIRIUS-5E-2	5.00	C	CR/C	1949	2615
111520429	S		SIRIUS-5E-7	5.00	C	CR/C	3065	2734
104500472	S		SIRIUS-2	4.80	N	PART	2	2659
108501081	S		SIRIUS-3B	5.00	N	PART	2	2652
112500153	S		SIRIUS-5E	5.00	N	PART	1	2749
109500400	S		SIRIUS-P	5.00	N	PART	1	2759
90540021	SEY		SEYSAT-1	42.50	A	AR11/A	1947	2277
90540022	SEY		SEYSAT-2	37.50	A	AR11/A	642	2277
110520129	SNG		ST-2A-CK	88.00	C	CR/C	2646	2696
111520513	SNG		ST-2F-CK	41.00	C	CR/C	3071	2734
112520439	SNG		ST-2H-CK	-35.50	C	CR/C	3283	2755
99500056	SNG		ST-1A	88.00	N	PART	2	2713
110500077	SNG		ST-1A-CK	88.00	N	PART	2	2735
112540753	THA		THAICOM-51E	51.00	A	API/A	7843	2727
111540421	THA		THAICOM-LSX1R	50.50	A	API/A	6980	2703
112540915	THA		THAICOM-LSX2	78.50	A	API/A	7913	2729
112540916	THA		THAICOM-LSX3	119.50	A	API/A	7914	2729
111540422	THA		THAICOM-LSX4R	120.00	A	API/A	6981	2703
113540031	THA		THAICOM-N5R	142.00	A	API/A	8254	2743
111540417	THA		THAICOM-P1	50.50	A	API/A	6973	2703

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113540154	THA		THAICOM-P1R	50.50	A	API/A	8364	2751
111540418	THA		THAICOM-P2	78.50	A	API/A	6974	2703
111540420	THA		THAICOM-P4	120.00	A	API/A	6976	2703
113540155	THA		THAICOM-P4R	120.00	A	API/A	8365	2751
113540030	THA		THAICOM-P5	126.00	A	API/A	8253	2743
113540580	THA		THAICOM-Q2	78.50	A	API/A	8702	2757
112520474	THA		THAICOM-P3	119.50	C	CR/C	3304	2756
100500119	THA		THAICOM-A2	78.50	N	PART	2	2632
106500234	THA		THAICOM-A2B	78.50	N	PART	2	2694
101500557	THA		THAICOM-A3	120.00	N	PART	2	2632
106500350	THA		THAICOM-A3B	120.00	N	PART	2	2669
96500002	THA		THAICOM-AK2	78.50	N	PART	2	2351
101500558	THA		THAICOM-AK3	120.00	N	PART	2	2580
106500348	THA		THAICOM-C1	50.50	N	PART	2	2749
109500875	THA		THAICOM-G1K	78.50	N	PART	2	2701
109500079	THA		THAICOM-G2K	120.00	N	PART	2	2698
110500358	THA		THAICOM-G3K	142.00	N	PART	2	2700
109500219	THA		THAICOM-IP1	119.50	N	PART	2	2693
112500242	THA		THAICOM-N1	50.50	N	PART	2	2745
112500215	THA		THAICOM-N2	78.50	N	PART	2	2739
112500127	THA		THAICOM-N3	120.00	N	PART	2	2731
101500571	TON		TONGASAT AP-2	134.00	N	PART	2	2692
101500573	TON		TONGASAT AP-3	138.00	N	PART	2	2692
93500472	TON		TONGASAT C/KU-2	134.00	N	PART	2	2691
98500226	TON		TONGASAT C/KU-3	138.00	N	PART	2	2691
111500195	TON		TONGASAT-2/134E	134.00	N	PART	2	2718
111500194	TON		TONGASAT-2/138E	138.00	N	PART	2	2718
105500703	TON		TONGASAT-H70	70.00	N	PART	2	2692
112540828	TUR		TURKSAT-16.5W-A	-16.50	A	API/A	7897	2729
112540829	TUR		TURKSAT-19W-A	-19.00	A	API/A	7898	2729
112540825	TUR		TURKSAT-2.5W-A	-2.50	A	API/A	7894	2729
111540186	TUR		TURKSAT-25E-C	25.00	A	API/A	6798	2696
111540190	TUR		TURKSAT-56E-C	56.00	A	API/A	6802	2696
112540826	TUR		TURKSAT-8.5E-A	8.50	A	API/A	7895	2729
111540185	TUR		TURKSAT-8.5E-C	8.50	A	API/A	6797	2696
112540827	TUR		TURKSAT-9.5W-A	-9.50	A	API/A	7896	2729
107520293	TUR		TURKSAT-17E-B	17.30	C	CR/C	2141	2649
107520294	TUR		TURKSAT-31E-B	31.00	C	CR/C	2142	2684
112520271	TUR		TURKSAT-31E-C	31.00	C	CR/C	3207	2746
110520004	TUR		TURKSAT-31E-N	31.00	C	CR/C	2666	2700
107520295	TUR		TURKSAT-42E-B	42.00	C	CR/C	2143	2667
112520272	TUR		TURKSAT-42E-C	42.00	C	CR/C	3208	2746
107520296	TUR		TURKSAT-50E-B	50.00	C	CR/C	2144	2684
112520273	TUR		TURKSAT-50E-C	50.00	C	CR/C	3209	2746
110520005	TUR		TURKSAT-50E-N	50.00	C	CR/C	2667	2700
107520297	TUR		TURKSAT-73.5E-B	73.25	C	CR/C	2145	2649
107520292	TUR		TURKSAT-8.5E-B	8.50	C	CR/C	2140	2649
95500457	TUR		TURKSAT-1A	42.00	N	PART	2	2639
95500458	TUR		TURKSAT-1B	31.00	N	PART	2	2737
99500054	TUR		TURKSAT-1C	50.00	N	PART	2	2639
100500442	TUR		TURKSAT-1D	42.00	N	PART	2	2639

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111500058	TUR		TURKSAT-2B	31.00	N	PART	2	2737
112500280	TUR		TURKSAT-31E-A	31.00	N	PART	2	2744
112500281	TUR		TURKSAT-42E-A	42.00	N	PART	2	2749
112500282	TUR		TURKSAT-50E-A	50.00	N	PART	2	2744
109500555	TUR		TURKSAT-C50E	50.00	N	PART	2	2676
96500024	TUR		TURKSAT-K1	31.00	N	PART	2	2737
101500035	TUR		TURKSAT-K2	42.00	N	PART	2	2639
109500209	TUR		TURKSAT-K3	50.00	N	PART	2	2669
104500576	TUR		TURKSAT-KX	42.00	N	PART	2	2639
113540292	UAE		EMARSAT-10A	20.00	A	API/A	8445	2754
113540327	UAE		EMARSAT-10A/M	-102.00	A	API/A	8480	2754
113540294	UAE		EMARSAT-10B	158.00	A	API/A	8447	2754
113540328	UAE		EMARSAT-10B/M	-114.00	A	API/A	8481	2754
113540295	UAE		EMARSAT-10C	34.00	A	API/A	8448	2754
113540298	UAE		EMARSAT-10D	47.00	A	API/A	8451	2754
113540329	UAE		EMARSAT-10D/M	-126.00	A	API/A	8482	2754
113540300	UAE		EMARSAT-10E	60.00	A	API/A	8453	2754
113540330	UAE		EMARSAT-10E/M	-138.00	A	API/A	8483	2754
113540297	UAE		EMARSAT-10F	44.00	A	API/A	8450	2754
113540331	UAE		EMARSAT-10F/M	-150.00	A	API/A	8484	2754
113540299	UAE		EMARSAT-10G	52.50	A	API/A	8452	2754
113540310	UAE		EMARSAT-10G/M	127.00	A	API/A	8463	2754
113540301	UAE		EMARSAT-10H	67.50	A	API/A	8454	2754
113540311	UAE		EMARSAT-10H/M	134.00	A	API/A	8464	2754
113540303	UAE		EMARSAT-10I	79.00	A	API/A	8456	2754
113540302	UAE		EMARSAT-10I/M	74.00	A	API/A	8455	2754
113540304	UAE		EMARSAT-10J	83.00	A	API/A	8457	2754
113540305	UAE		EMARSAT-10K	92.00	A	API/A	8458	2754
113540293	UAE		EMARSAT-10L	28.75	A	API/A	8446	2754
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113540308	UAE		EMARSAT-10O	112.50	A	API/A	8461	2754
113540309	UAE		EMARSAT-10P	119.00	A	API/A	8462	2754
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113540319	UAE		EMARSAT-10R	-30.00	A	API/A	8472	2754
113540306	UAE		EMARSAT-10S	98.50	A	API/A	8459	2754
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113540320	UAE		EMARSAT-10U	-42.00	A	API/A	8473	2754
113540325	UAE		EMARSAT-10U/M	-80.00	A	API/A	8478	2754
113540321	UAE		EMARSAT-10V	-54.00	A	API/A	8474	2754
113540316	UAE		EMARSAT-10V/M	-6.00	A	API/A	8469	2754
113540323	UAE		EMARSAT-10W	-70.50	A	API/A	8476	2754
113540322	UAE		EMARSAT-10W/M	-60.00	A	API/A	8475	2754
113540324	UAE		EMARSAT-10X	-73.00	A	API/A	8477	2754
113540315	UAE		EMARSAT-10X/M	3.00	A	API/A	8468	2754
113540314	UAE		EMARSAT-10Y	14.60	A	API/A	8467	2754
113540317	UAE		EMARSAT-10Y/M	-9.00	A	API/A	8470	2754
113540326	UAE		EMARSAT-10Z	-90.00	A	API/A	8479	2754
113540318	UAE		EMARSAT-10Z/M	-18.00	A	API/A	8471	2754
111540961	UAE		EMARSAT-9A	20.00	A	API/A	7243	2733
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111540964	UAE		EMARSAT-9B/M	-114.00	A	API/A	7246	2733
111540965	UAE		EMARSAT-9C	38.00	A	API/A	7247	2733
111540966	UAE		EMARSAT-9D	47.00	A	API/A	7248	2733
111540967	UAE		EMARSAT-9D/M	-126.00	A	API/A	7249	2733
111540968	UAE		EMARSAT-9E	60.00	A	API/A	7250	2733
111540969	UAE		EMARSAT-9E/M	-138.00	A	API/A	7251	2733
111540970	UAE		EMARSAT-9F	44.00	A	API/A	7252	2733
111540971	UAE		EMARSAT-9F/M	-150.00	A	API/A	7253	2733
111540972	UAE		EMARSAT-9G	52.50	A	API/A	7254	2733
111540974	UAE		EMARSAT-9H	67.50	A	API/A	7256	2733
111540976	UAE		EMARSAT-9J	83.00	A	API/A	7258	2733
111540977	UAE		EMARSAT-9K	92.00	A	API/A	7259	2733
111540978	UAE		EMARSAT-9L	28.75	A	API/A	7260	2733
111540979	UAE		EMARSAT-9M	40.00	A	API/A	7261	2733
111540980	UAE		EMARSAT-9N	101.00	A	API/A	7262	2733
111540981	UAE		EMARSAT-9O	112.50	A	API/A	7263	2733
111540982	UAE		EMARSAT-9P	119.00	A	API/A	7264	2733
111540984	UAE		EMARSAT-9R	-30.00	A	API/A	7266	2733
111540985	UAE		EMARSAT-9S	98.50	A	API/A	7267	2733
111540986	UAE		EMARSAT-9T	146.00	A	API/A	7268	2733
111540987	UAE		EMARSAT-9U	-42.00	A	API/A	7269	2733
111540988	UAE		EMARSAT-9V	-54.00	A	API/A	7270	2733
111540991	UAE		EMARSAT-9X/M	3.00	A	API/A	7273	2733
111540994	UAE		EMARSAT-9Z	-90.00	A	API/A	7276	2733
111540995	UAE		EMARSAT-9Z/M	-18.00	A	API/A	7277	2733
112540510	UAE		YAHSAT-G7-0E	0.00	A	API/A	7643	2723
112540535	UAE		YAHSAT-G7-100E	100.00	A	API/A	7668	2723
112540494	UAE		YAHSAT-G7-100W	-100.00	A	API/A	7627	2723
112540536	UAE		YAHSAT-G7-105E	105.00	A	API/A	7669	2723
112540512	UAE		YAHSAT-G7-10E	10.00	A	API/A	7645	2723
112540508	UAE		YAHSAT-G7-10W	-10.00	A	API/A	7641	2723
112540537	UAE		YAHSAT-G7-110E	110.00	A	API/A	7670	2723
112540493	UAE		YAHSAT-G7-110W	-110.00	A	API/A	7626	2723
112540538	UAE		YAHSAT-G7-115E	115.00	A	API/A	7671	2723
112540539	UAE		YAHSAT-G7-120E	120.00	A	API/A	7672	2723
112540492	UAE		YAHSAT-G7-120W	-120.00	A	API/A	7625	2723
112540540	UAE		YAHSAT-G7-125E	125.00	A	API/A	7673	2723
112540541	UAE		YAHSAT-G7-130E	130.00	A	API/A	7674	2723
112540491	UAE		YAHSAT-G7-130W	-130.00	A	API/A	7624	2723
112540542	UAE		YAHSAT-G7-135E	135.00	A	API/A	7675	2723
112540543	UAE		YAHSAT-G7-140E	140.00	A	API/A	7676	2723
112540490	UAE		YAHSAT-G7-140W	-140.00	A	API/A	7623	2723
112540544	UAE		YAHSAT-G7-150E	150.00	A	API/A	7677	2723
112540489	UAE		YAHSAT-G7-150W	-150.00	A	API/A	7622	2723
112540513	UAE		YAHSAT-G7-15E	15.00	A	API/A	7646	2723
112540507	UAE		YAHSAT-G7-15W	-15.00	A	API/A	7640	2723
112540545	UAE		YAHSAT-G7-160E	160.00	A	API/A	7678	2723
112540488	UAE		YAHSAT-G7-160W	-160.00	A	API/A	7621	2723
112540546	UAE		YAHSAT-G7-170E	170.00	A	API/A	7679	2723
112540487	UAE		YAHSAT-G7-170W	-170.00	A	API/A	7620	2723

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112540514	UAE		YAHSAT-G7-20E	20.00	A	API/A	7647	2723
112540506	UAE		YAHSAT-G7-20W	-20.00	A	API/A	7639	2723
112540515	UAE		YAHSAT-G7-25E	25.00	A	API/A	7648	2723
112540505	UAE		YAHSAT-G7-25W	-25.00	A	API/A	7638	2723
112540516	UAE		YAHSAT-G7-30E	30.00	A	API/A	7649	2723
112540517	UAE		YAHSAT-G7-35E	35.00	A	API/A	7650	2723
112540503	UAE		YAHSAT-G7-35W	-35.00	A	API/A	7636	2723
112540518	UAE		YAHSAT-G7-40E	40.00	A	API/A	7651	2723
112540501	UAE		YAHSAT-G7-45W	-45.00	A	API/A	7634	2723
112540500	UAE		YAHSAT-G7-50W	-50.00	A	API/A	7633	2723
112540522	UAE		YAHSAT-G7-52.5E	52.50	A	API/A	7655	2723
112540523	UAE		YAHSAT-G7-55E	55.00	A	API/A	7656	2723
112540499	UAE		YAHSAT-G7-55W	-55.00	A	API/A	7632	2723
112540511	UAE		YAHSAT-G7-5E	5.00	A	API/A	7644	2723
112540509	UAE		YAHSAT-G7-5W	-5.00	A	API/A	7642	2723
112540525	UAE		YAHSAT-G7-60E	60.00	A	API/A	7658	2723
112540498	UAE		YAHSAT-G7-60W	-60.00	A	API/A	7631	2723
112540526	UAE		YAHSAT-G7-63E	63.00	A	API/A	7659	2723
112540527	UAE		YAHSAT-G7-65E	65.00	A	API/A	7660	2723
112540528	UAE		YAHSAT-G7-67.5E	67.50	A	API/A	7661	2723
112540529	UAE		YAHSAT-G7-70E	70.00	A	API/A	7662	2723
112540497	UAE		YAHSAT-G7-70W	-70.00	A	API/A	7630	2723
112540530	UAE		YAHSAT-G7-75E	75.00	A	API/A	7663	2723
112540531	UAE		YAHSAT-G7-80E	80.00	A	API/A	7664	2723
112540496	UAE		YAHSAT-G7-80W	-80.00	A	API/A	7629	2723
112540532	UAE		YAHSAT-G7-85E	85.00	A	API/A	7665	2723
112540533	UAE		YAHSAT-G7-90E	90.00	A	API/A	7666	2723
112540495	UAE		YAHSAT-G7-90W	-90.00	A	API/A	7628	2723
112540534	UAE		YAHSAT-G7-95E	95.00	A	API/A	7667	2723
113540439	UAE		YAHSAT-G8-0E	0.00	A	API/A	8566	2755
113540464	UAE		YAHSAT-G8-100E	100.00	A	API/A	8591	2755
113540423	UAE		YAHSAT-G8-100W	-100.00	A	API/A	8550	2755
113540465	UAE		YAHSAT-G8-105E	105.00	A	API/A	8592	2755
113540441	UAE		YAHSAT-G8-10E	10.00	A	API/A	8568	2755
113540437	UAE		YAHSAT-G8-10W	-10.00	A	API/A	8564	2755
113540466	UAE		YAHSAT-G8-110E	110.00	A	API/A	8593	2755
113540422	UAE		YAHSAT-G8-110W	-110.00	A	API/A	8549	2755
113540467	UAE		YAHSAT-G8-115E	115.00	A	API/A	8594	2755
113540468	UAE		YAHSAT-G8-120E	120.00	A	API/A	8595	2755
113540421	UAE		YAHSAT-G8-120W	-120.00	A	API/A	8548	2755
113540469	UAE		YAHSAT-G8-125E	125.00	A	API/A	8596	2755
113540470	UAE		YAHSAT-G8-130E	130.00	A	API/A	8597	2755
113540420	UAE		YAHSAT-G8-130W	-130.00	A	API/A	8547	2755
113540471	UAE		YAHSAT-G8-135E	135.00	A	API/A	8598	2755
113540472	UAE		YAHSAT-G8-140E	140.00	A	API/A	8599	2755
113540419	UAE		YAHSAT-G8-140W	-140.00	A	API/A	8546	2755
113540473	UAE		YAHSAT-G8-150E	150.00	A	API/A	8600	2755
113540418	UAE		YAHSAT-G8-150W	-150.00	A	API/A	8545	2755
113540442	UAE		YAHSAT-G8-15E	15.00	A	API/A	8569	2755

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113540474	UAE		YAHSAT-G8-160E	160.00	A	API/A	8601	2755
113540417	UAE		YAHSAT-G8-160W	-160.00	A	API/A	8544	2755
113540475	UAE		YAHSAT-G8-170E	170.00	A	API/A	8602	2755
113540416	UAE		YAHSAT-G8-170W	-170.00	A	API/A	8543	2755
113540476	UAE		YAHSAT-G8-175E	175.00	A	API/A	8603	2755
113540415	UAE		YAHSAT-G8-175W	-175.00	A	API/A	8542	2755
113540443	UAE		YAHSAT-G8-20E	20.00	A	API/A	8570	2755
113540435	UAE		YAHSAT-G8-20W	-20.00	A	API/A	8562	2755
113540444	UAE		YAHSAT-G8-25E	25.00	A	API/A	8571	2755
113540434	UAE		YAHSAT-G8-25W	-25.00	A	API/A	8561	2755
113540445	UAE		YAHSAT-G8-30E	30.00	A	API/A	8572	2755
113540433	UAE		YAHSAT-G8-30W	-30.00	A	API/A	8560	2755
113540446	UAE		YAHSAT-G8-35E	35.00	A	API/A	8573	2755
113540432	UAE		YAHSAT-G8-35W	-35.00	A	API/A	8559	2755
113540447	UAE		YAHSAT-G8-40E	40.00	A	API/A	8574	2755
113540431	UAE		YAHSAT-G8-40W	-40.00	A	API/A	8558	2755
113540448	UAE		YAHSAT-G8-45E	45.00	A	API/A	8575	2755
113540430	UAE		YAHSAT-G8-45W	-45.00	A	API/A	8557	2755
113540449	UAE		YAHSAT-G8-47E	47.00	A	API/A	8576	2755
113540450	UAE		YAHSAT-G8-50E	50.00	A	API/A	8577	2755
113540429	UAE		YAHSAT-G8-50W	-50.00	A	API/A	8556	2755
113540451	UAE		YAHSAT-G8-52.5E	52.50	A	API/A	8578	2755
113540452	UAE		YAHSAT-G8-55E	55.00	A	API/A	8579	2755
113540428	UAE		YAHSAT-G8-55W	-55.00	A	API/A	8555	2755
113540453	UAE		YAHSAT-G8-57E	57.00	A	API/A	8580	2755
113540440	UAE		YAHSAT-G8-5E	5.00	A	API/A	8567	2755
113540438	UAE		YAHSAT-G8-5W	-5.00	A	API/A	8565	2755
113540454	UAE		YAHSAT-G8-60E	60.00	A	API/A	8581	2755
113540427	UAE		YAHSAT-G8-60W	-60.00	A	API/A	8554	2755
113540455	UAE		YAHSAT-G8-63E	63.00	A	API/A	8582	2755
113540456	UAE		YAHSAT-G8-65E	65.00	A	API/A	8583	2755
113540457	UAE		YAHSAT-G8-67.5E	67.50	A	API/A	8584	2755
113540458	UAE		YAHSAT-G8-70E	70.00	A	API/A	8585	2755
113540426	UAE		YAHSAT-G8-70W	-70.00	A	API/A	8553	2755
113540459	UAE		YAHSAT-G8-75E	75.00	A	API/A	8586	2755
113540460	UAE		YAHSAT-G8-80E	80.00	A	API/A	8587	2755
113540425	UAE		YAHSAT-G8-80W	-80.00	A	API/A	8552	2755
113540461	UAE		YAHSAT-G8-85E	85.00	A	API/A	8588	2755
113540462	UAE		YAHSAT-G8-90E	90.00	A	API/A	8589	2755
113540424	UAE		YAHSAT-G8-90W	-90.00	A	API/A	8551	2755
113540463	UAE		YAHSAT-G8-95E	95.00	A	API/A	8590	2755
106520127	UAE		EMARSAT-5G	52.50	C	CR/C	1862	2604
109520157	UAE		EMARSAT-7F	44.00	C	CR/C	2452	2677
109520161	UAE		EMARSAT-7G/M	127.00	C	CR/C	2451	2677
108520228	UAE		EMARSAT-7S	98.50	C	CR/C	2294	2652
112520445	UAE		EMARSAT-9G/M	127.00	C	CR/C	3302	2756
113520106	UAE		EMARSAT-9I	79.00	C	CR/C	3382	2752
113520107	UAE		EMARSAT-9Q	137.80	C	CR/C	3383	2752
113520108	UAE		EMARSAT-9W	-70.50	C	CR/C	3384	2753
113520109	UAE		EMARSAT-9X	-73.00	C	CR/C	3385	2753

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113520111	UAE		EMARSAT-9Y/M	-9.00	C	CR/C	3387	2753
112520429	UAE		MADAR-28W	-28.00	C	CR/C	3272	2752
112520428	UAE		MADAR-43W	-43.00	C	CR/C	3273	2752
112520430	UAE		MADAR-46E	46.00	C	CR/C	3274	2756
112520431	UAE		MADAR-47.5E	47.50	C	CR/C	3275	2756
112520432	UAE		MADAR-50.5E	50.50	C	CR/C	3276	2752
112520433	UAE		MADAR-57E	57.00	C	CR/C	3277	2755
108520092	UAE		YAHSAT-46E	46.00	C	CR/C	2201	2642
108520093	UAE		YAHSAT-57E	57.00	C	CR/C	2202	2642
108520066	UAE		YAHSAT-60E	60.00	C	CR/C	2170	2641
108520094	UAE		YAHSAT-63E	63.00	C	CR/C	2203	2642
108520230	UAE		YAHSAT-EHF-33E	33.00	C	CR/C	2287	2646
108520231	UAE		YAHSAT-EHF-50.5E	50.50	C	CR/C	2288	2646
108520232	UAE		YAHSAT-EHF-52.5E	52.50	C	CR/C	2289	2646
108520233	UAE		YAHSAT-EHF-57E	57.00	C	CR/C	2290	2646
108520234	UAE		YAHSAT-EHF-60E	60.00	C	CR/C	2291	2646
108520235	UAE		YAHSAT-EHF-67.5E	67.50	C	CR/C	2292	2646
111520023	UAE		YAHSAT-G5-28W	-28.00	C	CR/C	2793	2716
111520023	UAE		YAHSAT-G5-28W	-28.00	C	CR/E	45	2716
110520419	UAE		YAHSAT-G5-43W	-43.00	C	CR/C	2774	2716
110520419	UAE		YAHSAT-G5-43W	-43.00	C	CR/E	31	2716
111520024	UAE		YAHSAT-G5-55W	-55.00	C	CR/C	2794	2716
111520024	UAE		YAHSAT-G5-55W	-55.00	C	CR/E	46	2716
110520361	UAE		YAHSAT-G5-60E	60.00	C	CR/C	2756	2707
110520448	UAE		YAHSAT-G5-66E	66.00	C	CR/C	2778	2716
110520448	UAE		YAHSAT-G5-66E	66.00	C	CR/E	33	2716
111520373	UAE		YAHSAT-G6-17.5W	-17.50	C	CR/C	3010	2727
111520374	UAE		YAHSAT-G6-20W	-20.00	C	CR/C	3011	2727
111520375	UAE		YAHSAT-G6-45W	-45.00	C	CR/C	3012	2727
111520469	UAE		YAHSAT-G6-63E	63.00	C	CR/C	3103	2737
111523002	UAE		YAHSAT-G6-63E_1	63.00	C	CR/F	2	2730
111520377	UAE		YAHSAT-G6-67.5E	67.50	C	CR/C	3104	2737
111523001	UAE		YAHSAT-G6-67.5E_1	67.50	C	CR/F	3	2730
108520229	UAE		YAHSAT-KA-52.5E	52.50	C	CR/C	2293	2652
108520284	UAE		YAHSAT-KA-17.5W	-17.50	C	CR/C	2323	2656
108520134	UAE		YAHSAT-KA-33E	33.00	C	CR/C	2223	2644
108520140	UAE		YAHSAT-KA-47.5E	47.50	C	CR/C	2235	2645
108520135	UAE		YAHSAT-KA-50.5E	50.50	C	CR/C	2224	2644
109520029	UAE		YAHSAT-N-20W	-20.00	C	CR/C	2375	2661
109520303	UAE		YAHSAT-N-25.5E	25.50	C	CR/C	2530	2686
109520342	UAE		YAHSAT-N-33W	-33.00	C	CR/C	2543	2686
109520343	UAE		YAHSAT-N-45W	-45.00	C	CR/C	2544	2686
109520140	UAE		YAHSAT-N-46E	46.00	C	CR/C	2436	2656
109520148	UAE		YAHSAT-N-52.5E	52.50	C	CR/C	2437	2656
109520141	UAE		YAHSAT-N-57E	57.00	C	CR/C	2438	2656
109520142	UAE		YAHSAT-N-63E	63.00	C	CR/C	2439	2656
109520261	UAE		YAHSAT-N-8E	8.00	C	CR/C	2489	2681
106500419	UAE		EMARSAT-1F	44.00	N	PART	2	2678
110500260	UAE		EMARSAT-1F/M	44.00	N	PART	2	2693
108500025	UAE		EMARSAT-1G	52.50	N	PART	2	2748

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111500142	UAE		EMARSAT-4F	44.00	N	PART	2	2721
108501071	UAE		EMARSAT-4S	98.50	N	PART	2	2659
113500018	UAE		YAHSAT	52.50	N	PART	2	2759
112541113	UKR		UKRSAT-53.0E	53.00	A	API/A	7846	2734
109520255	UKR		UKRSAT-43E	43.00	C	CR/C	2498	2684
108520133	UKR		UKRSAT-KA-38.2E	38.20	C	CR/C	2322	2759
110520405	UKR		UKRSAT-KA-46.5E	46.50	C	CR/C	2781	2708
113520003	UKR		UKRSAT-KA-53.2E	53.20	C	CR/C	3390	2754
107520040	URG		VENESAT-1A	-78.00	C	CR/C	2045	2623
109500801	URG		VENESAT-1	-78.00	N	PART	2	2677
112540975	USA		GOES-EAST-4	-75.00	A	API/A	7973	2732
112540976	USA		GOES-WEST-4	-137.00	A	API/A	7974	2732
99543699	USA		INTELSAT KA 145E	145.00	A	API/A	1106	2410
100544003	USA		LM-RPS-11E	11.00	A	API/A	1381	2522
112540938	USA		USASAT-55U	-55.50	A	API/A	7962	2743
113540126	USA		USASAT-55X	65.45	A	API/A	8320	2748
113540229	USA		USASAT-55Y	-76.00	A	API/A	8430	2753
113540477	USA		USASAT-60U	-95.00	A	API/A	8604	2755
111540841	USA		USASAT-71K	-115.10	A	API/A	7196	2710
113540060	USA		USASAT-71L	-107.10	A	API/A	8275	2744
113540557	USA		USASAT-80A	-50.00	A	API/A	8685	2756
112540452	USA		USGAE-24M	-69.00	A	API/A	7592	2722
80540004	USA		USGCSS PH3 ATL	-12.00	A	SPA-AA/	351	2472
76540003	USA		USGCSS PH3 E PAC	-135.00	A	SPA-AA/	248	2246
99543671	USA		USGX-141W	-141.00	A	API/A	1092	2410
99543672	USA		USGX-144W	-144.00	A	API/A	1093	2410
112541098	USA		USMB-10A	75.00	A	API/A	8018	2736
112541099	USA		USMB-11A	82.00	A	API/A	8019	2736
112541100	USA		USMB-12A	92.00	A	API/A	8020	2736
112541096	USA		USMB-4A	-10.00	A	API/A	8016	2736
112541097	USA		USMB-8A	49.00	A	API/A	8017	2736
111540533	USA		USOBO-13A	107.00	A	API/A	7023	2704
111540534	USA		USOBO-14A	166.00	A	API/A	7024	2704
111540535	USA		USOBO-15A	178.00	A	API/A	7025	2704
111540536	USA		USOBO-16A	-170.00	A	API/A	7026	2704
108520297	USA		GOES-EAST-3	-75.00	C	CR/C	2339	2658
108520296	USA		GOES-WEST-3	-137.00	C	CR/C	2340	2658
90500571	USA		INTELSAT5A CONT2	-50.00	C	AR11/C	594	2450
94520053	USA		INTELSAT6 64E	64.00	C	AR11/C	2442	2450
110520259	USA		INTELSAT7 307E_1	-55.50	C	CR/C	2716	2702
111520466	USA		IRIS-10A	29.00	C	CR/C	3088	2737
111520467	USA		IRIS-11A	125.00	C	CR/C	3089	2737
111520457	USA		IRIS-1A	-105.00	C	CR/C	3079	2737
111520458	USA		IRIS-2A	-100.00	C	CR/C	3080	2737
111520459	USA		IRIS-3A	-22.50	C	CR/C	3081	2737
111520460	USA		IRIS-4A	-15.50	C	CR/C	3082	2737
111520461	USA		IRIS-5A	72.00	C	CR/C	3083	2737
111520462	USA		IRIS-6A	75.00	C	CR/C	3084	2737
111520463	USA		IRIS-7A	172.00	C	CR/C	3085	2737
111520465	USA		IRIS-9A	-145.00	C	CR/C	3087	2737
110520193	USA		P-197-6	-30.40	C	CR/C	2674	2700



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110520194	USA		P-197-7	92.00	C	CR/C	2675	2710
110520195	USA		P-197-8	110.00	C	CR/C	2676	2710
110520130	USA		P92-7	-30.40	C	CR/C	2668	2700
110520131	USA		P92-8	92.00	C	CR/C	2669	2710
110520132	USA		P92-9	110.00	C	CR/C	2670	2710
113520009	USA		TDRS 12W-R	-12.00	C	CR/C	3402	2755
108520118	USA		USABSN-10A	-110.40	C	CR/C	2211	2643
107520056	USA		USABSN-12	-103.00	C	CR/C	2009	2618
109520058	USA		USABSN-12A	-103.00	C	CR/C	2389	2648
113520158	USA		USABSN-12B	-102.80	C	CR/C	3410	2756
107520057	USA		USABSN-13	-99.00	C	CR/C	2010	2618
109520059	USA		USABSN-13A	-99.00	C	CR/C	2390	2648
108520119	USA		USABSN-15	-75.00	C	CR/C	2212	2643
108520120	USA		USABSN-16	-62.15	C	CR/C	2213	2643
109520324	USA		USABSN-21	-79.00	C	CR/C	2540	2686
109520003	USA		USABSN-22	-70.00	C	CR/C	2401	2667
113520186	USA		USABSN-24	-95.15	C	CR/C	3431	2759
108520117	USA		USABSN-9A	-107.00	C	CR/C	2210	2643
98520746	USA		USASAT-14N	-47.00	C	CR/C	1725	2570
107520201	USA		USASAT-55J	-1.00	C	CR/C	2086	2612
110520098	USA		USASAT-55K	-31.50	C	CR/C	2616	2692
111520001	USA		USASAT-55L	169.00	C	CR/C	2836	2716
111520001	USA		USASAT-55L	169.00	C	CR/E	141	2716
110520099	USA		USASAT-55M	-58.00	C	CR/C	2617	2673
110520100	USA		USASAT-55N	85.00	C	CR/C	2655	2677
110520104	USA		USASAT-55O	-50.00	C	CR/C	2626	2674
111520051	USA		USASAT-55P	-29.50	C	CR/C	2827	2712
111520218	USA		USASAT-55Q	66.00	C	CR/C	2950	2703
111520454	USA		USASAT-55R	180.00	C	CR/C	3068	2720
112520406	USA		USASAT-55S	-58.00	C	CR/C	3237	2749
112520406	USA		USASAT-55S	-58.00	C	CR/E	431	2749
112520470	USA		USASAT-55T	-53.00	C	CR/C	3299	2756
113520078	USA		USASAT-55V	169.00	C	CR/C	3372	2750
113520177	USA		USASAT-55W	-79.00	C	CR/C	3423	2758
110520101	USA		USASAT-60O	50.75	C	CR/C	2618	2673
111520022	USA		USASAT-60P	-31.50	C	CR/C	2795	2716
111520022	USA		USASAT-60P	-31.50	C	CR/E	47	2716
112520202	USA		USASAT-60Q	157.00	C	CR/C	3218	2746
112520423	USA		USASAT-60R	72.00	C	CR/C	3264	2750
112520423	USA		USASAT-60R	72.00	C	CR/E	457	2750
113520012	USA		USASAT-60S	-43.00	C	CR/C	3374	2750
113520082	USA		USASAT-60T	-45.00	C	CR/C	3375	2750
107520269	USA		USASAT-71B	-77.30	C	CR/C	2116	2635
110520103	USA		USASAT-71J	-89.00	C	CR/C	2622	2722
113520073	USA		USASAT-71M	-77.30	C	CR/C	3373	2750
113520093	USA		USASAT-71N	68.50	C	CR/C	3388	2753
109520218	USA		USGAE-11M	93.00	C	CR/C	2462	2678
109520219	USA		USGAE-12M	111.00	C	CR/C	2463	2678
109520220	USA		USGAE-13M	96.00	C	CR/C	2464	2678
109520221	USA		USGAE-14M	-16.50	C	CR/C	2465	2678
109520222	USA		USGAE-15M	-31.50	C	CR/C	2466	2678

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109520223	USA		USGAE-18M	-155.00	C	CR/C	2467	2678
109520224	USA		USGAE-23M	19.00	C	CR/C	2468	2678
109520213	USA		USGAE-3M	90.00	C	CR/C	2457	2678
109520214	USA		USGAE-5M	55.00	C	CR/C	2458	2678
109520215	USA		USGAE-6M	-120.00	C	CR/C	2459	2678
109520216	USA		USGAE-7M	-68.00	C	CR/C	2460	2678
109520217	USA		USGAE-8M	-9.00	C	CR/C	2461	2678
110520415	USA		USGOVSAT-11R	150.00	C	CR/C	2771	2707
110520416	USA		USGOVSAT-13R	-121.90	C	CR/C	2772	2707
110520417	USA		USGOVSAT-14R	-77.00	C	CR/C	2773	2707
111520031	USA		USGOVSAT-16R	24.00	C	CR/C	2806	2710
111520032	USA		USGOVSAT-18R	78.50	C	CR/C	2807	2710
111520033	USA		USGOVSAT-19R	86.00	C	CR/C	2808	2710
110520407	USA		USGOVSAT-1R	180.00	C	CR/C	2763	2707
111520034	USA		USGOVSAT-20R	134.00	C	CR/C	2809	2710
110520408	USA		USGOVSAT-2R	-151.00	C	CR/C	2764	2707
110520409	USA		USGOVSAT-3R	-135.00	C	CR/C	2765	2707
110520410	USA		USGOVSAT-4R	-130.00	C	CR/C	2766	2707
110520411	USA		USGOVSAT-5R	-112.00	C	CR/C	2767	2707
110520412	USA		USGOVSAT-6R	-52.50	C	CR/C	2768	2707
110520413	USA		USGOVSAT-7R	-42.50	C	CR/C	2769	2707
110520414	USA		USGOVSAT-9R	57.00	C	CR/C	2770	2707
112520129	USA		USLL-ATL3	-30.40	C	CR/C	3167	2729
112520130	USA		USLL-PAC3	92.00	C	CR/C	3168	2729
112520131	USA		USLL-PAC4	100.00	C	CR/C	3169	2729
112520132	USA		USLL-PAC5	110.00	C	CR/C	3170	2729
112520133	USA		USLL-PAC6	-127.00	C	CR/C	3171	2729
111520231	USA		USNN-5	170.00	C	CR/C	2959	2722
111520479	USA		USOBO-10A	130.60	C	CR/C	3099	2737
111520480	USA		USOBO-11A	139.00	C	CR/C	3100	2737
113520166	USA		USOBO-12A	51.50	C	CR/C	3416	2757
111520470	USA		USOBO-1A	-159.40	C	CR/C	3090	2737
111520471	USA		USOBO-2A	-96.80	C	CR/C	3091	2737
111520472	USA		USOBO-3A	-49.40	C	CR/C	3092	2744
111520473	USA		USOBO-4A	-21.20	C	CR/C	3093	2737
111520474	USA		USOBO-5A	20.60	C	CR/C	3094	2737
111520475	USA		USOBO-6A	66.00	C	CR/C	3095	2737
111520476	USA		USOBO-7A	73.00	C	CR/C	3096	2737
111520477	USA		USOBO-8A	87.50	C	CR/C	3097	2737
111520478	USA		USOBO-9A	94.00	C	CR/C	3098	2737
102500532	USA		ACS-1	-101.00	N	PART	2	2636
103500278	USA		AFRIBSS	21.00	N	PART	2	2562
90500615	USA		ASC-1	-128.00	N	PART	2	
90500611	USA		ATS-5	-105.00	N	PART	2	
90500525	USA		COMSTAR D-2	-95.00	N	PART	2	
90500265	USA		FLTSATCOM ATL	-23.00	N	PART	2	
90500266	USA		FLTSATCOM E PAC	-100.00	N	PART	2	
90500264	USA		FLTSATCOM W PAC	172.00	N	PART	2	
110500043	USA		FLTSATCOM-A INDOC-4	100.00	N	PART	2	2706
93500633	USA		FLTSATCOM-C E ATL-1	-22.50	N	PART	2	2505
93500634	USA		FLTSATCOM-C E ATL-2	-15.50	N	PART	2	2497

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93500149	USA		FLTSATCOM-C E PAC-1	-105.00	N	PART	2	2442
93500148	USA		FLTSATCOM-C E PAC-2	-100.00	N	PART	2	2481
93500635	USA		FLTSATCOM-C INDOC-1	29.00	N	PART	2	2497
93500636	USA		FLTSATCOM-C INDOC-2	72.00	N	PART	2	2498
93500637	USA		FLTSATCOM-C INDOC-3	75.00	N	PART	2	2500
93500640	USA		FLTSATCOM-C W PAC-1	172.00	N	PART	2	2504
93500641	USA		FLTSATCOM-C W PAC-2	-177.00	N	PART	2	2502
93500147	USA		FLTSATCOM-C W PAC-3	-145.00	N	PART	1	2621
112500200	USA		GOES 60W	-60.00	N	PART	2	2755
90500361	USA		GOES EAST	-75.00	N	PART	2	
90500362	USA		GOES WEST	-135.00	N	PART	2	
103500401	USA		GOES-EAST-1	-75.00	N	PART	2	2692
111500113	USA		GOES-EAST-2	-75.00	N	PART	2	2730
103500402	USA		GOES-WEST-1	-135.00	N	PART	2	2718
111500112	USA		GOES-WEST-2	-135.00	N	PART	2	2732
90501108	USA		INTELSAT IBS 307E	-53.00	N	PART	1	2759
106500581	USA		INTELSAT KFOS 85E	85.00	N	PART	2	2683
106500076	USA		INTELSAT10 310E	-50.00	N	PART	2	2675
107500486	USA		INTELSAT10 359E	-1.00	N	PART	2	2683
106500249	USA		INTELSAT5 33E	33.00	N	PART	2	2644
90500677	USA		INTELSAT5 PAC3	180.00	N	PART	2	2713
100500228	USA		INTELSAT5A 157E	157.00	N	PART	2	2712
103500073	USA		INTELSAT6 157E	157.00	N	PART	2	2712
106500239	USA		INTELSAT6 178E	178.00	N	PART	2	2639
92500136	USA		INTELSAT6 325.5E	-34.50	N	PART	2	2614
102500410	USA		INTELSAT6 330.5E	-29.50	N	PART	2	2666
90500793	USA		INTELSAT6 332.5E	-27.50	N	PART	2	2574
90500795	USA		INTELSAT6 335.5E	-24.50	N	PART	2	2574
101500275	USA		INTELSAT6 340E	-20.00	N	PART	2	2644
91910088	USA		INTELSAT6 60E	60.00	N	PART	2	2614
99500102	USA		INTELSAT6 62E	62.00	N	PART	2	2614
107500324	USA		INTELSAT6 85E	85.00	N	PART	2	2681
102500192	USA		INTELSAT7 157E	157.00	N	PART	2	2712
96500027	USA		INTELSAT7 177E	177.00	N	PART	2	2690
106500585	USA		INTELSAT7 178E	178.00	N	PART	2	2649
98500067	USA		INTELSAT7 180E	180.00	N	PART	2	2521
102500193	USA		INTELSAT7 304.5E	-55.50	N	PART	2	2681
96500437	USA		INTELSAT7 307E	-53.00	N	PART	2	2585
95500117	USA		INTELSAT7 310E	-50.00	N	PART	2	2713
102500182	USA		INTELSAT7 325.5E	-34.50	N	PART	2	2713
102500183	USA		INTELSAT7 332.5E	-27.50	N	PART	2	2713
102500184	USA		INTELSAT7 335.5E	-24.50	N	PART	2	2713
102500055	USA		INTELSAT7 33E	33.00	N	PART	2	2690
101500277	USA		INTELSAT7 340E	-20.00	N	PART	2	2541
97500430	USA		INTELSAT7 342E	-18.00	N	PART	2	2713
94500331	USA		INTELSAT7 359E	-1.00	N	PART	2	2690
103500005	USA		INTELSAT7 62E	62.00	N	PART	1	2728
103500006	USA		INTELSAT7 64E	64.00	N	PART	1	2728
95500027	USA		INTELSAT7 66E	66.00	N	PART	2	2729
102500011	USA		INTELSAT7 85E	85.00	N	PART	2	2690
103500004	USA		INTELSAT8 157E	157.00	N	PART	2	2712

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108500028	USA		INTELSAT8 178E	178.00	N	PART	2	2690
101500003	USA		INTELSAT8 304.5E	-55.50	N	PART	2	2591
103500100	USA		INTELSAT8 307E	-53.00	N	PART	1	2758
101500422	USA		INTELSAT8 325.5E	-34.50	N	PART	2	2713
100500175	USA		INTELSAT8 328.5E	-31.50	N	PART	2	2531
102500442	USA		INTELSAT8 330.5E	-29.50	N	PART	2	2636
102500023	USA		INTELSAT8 332.5E	-27.50	N	PART	2	2605
102500022	USA		INTELSAT8 335.5E	-24.50	N	PART	2	2644
103500069	USA		INTELSAT8 33E	33.00	N	PART	2	2691
103500007	USA		INTELSAT8 340E	-20.00	N	PART	2	2672
101500421	USA		INTELSAT8 342E	-18.00	N	PART	2	2713
103500098	USA		INTELSAT8 359E	-1.00	N	PART	2	2647
102500056	USA		INTELSAT8 60E	60.00	N	PART	2	2669
105500094	USA		INTELSAT8 62E	62.00	N	PART	1	2728
99500053	USA		INTELSAT8 64E	64.00	N	PART	1	2728
102500012	USA		INTELSAT8 85E	85.00	N	PART	2	2690
106500243	USA		INTELSAT9 178E	178.00	N	PART	2	2641
107500311	USA		INTELSAT9 304.5E	-55.50	N	PART	2	2679
107500312	USA		INTELSAT9 307E	-53.00	N	PART	1	2759
107500329	USA		INTELSAT9 310E	-50.00	N	PART	2	2679
107500313	USA		INTELSAT9 325.5E	-34.50	N	PART	2	2669
107500330	USA		INTELSAT9 328.5E	-31.50	N	PART	2	2683
107500331	USA		INTELSAT9 330.5E	-29.50	N	PART	2	2682
107500332	USA		INTELSAT9 332.5E	-27.50	N	PART	2	2682
107500333	USA		INTELSAT9 335.5E	-24.50	N	PART	2	2683
110500215	USA		INTELSAT9 33E	33.00	N	PART	2	2697
107500334	USA		INTELSAT9 340E	-20.00	N	PART	2	2682
107500339	USA		INTELSAT9 342E	-18.00	N	PART	2	2682
107500335	USA		INTELSAT9 359E	-1.00	N	PART	2	2682
107500325	USA		INTELSAT9 60E	60.00	N	PART	2	2682
107500326	USA		INTELSAT9 62E	62.00	N	PART	2	2682
107500327	USA		INTELSAT9 64E	64.00	N	PART	2	2682
107500328	USA		INTELSAT9 66E	66.00	N	PART	2	2682
112500263	USA		IRIS-8A	-177.00	N	PART	2	2747
104500337	USA		KASATCOM-2	-22.50	N	PART	2	2596
104500336	USA		KASATCOM-3	72.00	N	PART	2	2597
104500338	USA		KASATCOM-5	172.00	N	PART	2	2602
109500412	USA		LM-RPS-107.3W	-107.30	N	PART	2	2665
109500413	USA		LM-RPS-133W	-133.00	N	PART	2	2663
106500580	USA		MCS-1	-101.00	N	PART	2	2735
95500504	USA		MILSTAR 1	-90.00	N	PART	2	2592
95500516	USA		MILSTAR 13	4.00	N	PART	2	2592
95500517	USA		MILSTAR 14	177.50	N	PART	2	2593
95500507	USA		MILSTAR 4	55.00	N	PART	2	2592
95500508	USA		MILSTAR 5	90.00	N	PART	2	2594
95500509	USA		MILSTAR 6	-120.00	N	PART	2	2593
95500511	USA		MILSTAR 8	-68.00	N	PART	2	2592
112500239	USA		MSV-1A	-101.00	N	PART	2	2745
105500432	USA		P-197-2	-144.00	N	PART	2	2593
105500433	USA		P-197-3	-141.00	N	PART	2	2593
105500434	USA		P-197-4	-13.00	N	PART	2	2593

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95500606	USA		P92-5	-141.00	N	PART	2	2396
95500607	USA		P92-6	-144.00	N	PART	2	2396
108501124	USA		TDRS 12W	-12.00	N	PART	2	2719
112500034	USA		TDRS 164.2W	-164.20	N	PART	2	2728
112500082	USA		TDRS 167.5W	-167.50	N	PART	2	2759
90500641	USA		TDRS 174W	-174.00	N	PART	2	2759
93500227	USA		TDRS 46W	-46.00	N	PART	2	2719
101500534	USA		TDRS 49W	-49.00	N	PART	2	2719
91910045	USA		TDRS 62W	-62.00	N	PART	2	2719
95500076	USA		TDRS 85E	85.00	N	PART	2	2719
108501062	USA		TDRS 89E	89.00	N	PART	2	2749
90500644	USA		TDRS CENTRAL	-79.00	N	PART	2	
90500646	USA		TDRS EAST	-41.00	N	PART	2	2759
90500647	USA		TDRS WEST	-171.00	N	PART	2	2720
91910108	USA		TDRS-C2	-79.00	N	PART	2	2720
108500041	USA		TDRS-EAST-ISS	-41.00	N	PART	2	2660
99500088	USA		USABSS-1	-101.20	N	PART	2	2697
98500238	USA		USABSS-10	-119.00	N	PART	2	2442
110500126	USA		USABSS-17	-61.50	N	PART	2	2689
99500089	USA		USABSS-2	-100.80	N	PART	2	2715
99500090	USA		USABSS-5	-110.00	N	PART	2	2454
99500091	USA		USABSS-6	-110.20	N	PART	2	2493
99500092	USA		USABSS-7	-119.00	N	PART	1	2688
98500237	USA		USABSS-8	-61.50	N	PART	2	2453
96500511	USA		USASAT-13I	-45.00	N	PART	2	2574
103500168	USA		USASAT-13I-2	-45.00	N	PART	2	2577
101500545	USA		USASAT-14G	169.00	N	PART	2	2665
101500547	USA		USASAT-14H	166.00	N	PART	2	2644
101500407	USA		USASAT-14I	68.50	N	PART	2	2756
105500472	USA		USASAT-14I-2	68.00	N	PART	2	2593
109500585	USA		USASAT-14I-3	68.50	N	PART	2	2683
101500405	USA		USASAT-14J	72.00	N	PART	2	2690
105500377	USA		USASAT-14J-2	72.00	N	PART	1	2759
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106500246	USA		USASAT-14L	-15.00	N	PART	2	2735
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99500140	USA		USASAT-21A	-135.00	N	PART	2	2458
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101500395	USA		USASAT-22B	-125.00	N	PART	2	2549
101500414	USA		USASAT-22E	-74.00	N	PART	2	2555
99500142	USA		USASAT-22G	-137.00	N	PART	2	2458
99500141	USA		USASAT-22H	-131.00	N	PART	2	2458
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108500941	USA		USASAT-22K	-135.00	N	PART	2	2652
102500351	USA		USASAT-23F	-95.00	N	PART	2	2589
106500094	USA		USASAT-23G	-121.00	N	PART	2	2711
101500075	USA		USASAT-23H	-105.00	N	PART	2	2507

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101500404	USA		USASAT-24E	-89.00	N	PART	2	2633
101500427	USA		USASAT-24F	-103.00	N	PART	2	2580
101500406	USA		USASAT-24J	-99.00	N	PART	2	2633
101500413	USA		USASAT-24K	-91.00	N	PART	2	2612
101500426	USA		USASAT-24L	-95.00	N	PART	2	2612
104500271	USA		USASAT-24N	-129.00	N	PART	2	2651
106500048	USA		USASAT-24O	-127.00	N	PART	2	2713
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105500167	USA		USASAT-24Q	-77.00	N	PART	2	2713
104500286	USA		USASAT-24S	-93.00	N	PART	2	2651
105500240	USA		USASAT-24T	-87.00	N	PART	2	2652
105500241	USA		USASAT-24U	-85.00	N	PART	2	2652
105500235	USA		USASAT-24V	-83.00	N	PART	2	2652
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104500278	USA		USASAT-25D	-45.00	N	PART	2	2666
101500120	USA		USASAT-25E	-47.00	N	PART	2	2508
101500278	USA		USASAT-25G	-58.00	N	PART	2	2644
102500471	USA		USASAT-26A	-37.50	N	PART	2	2702
101500542	USA		USASAT-26C	-43.00	N	PART	2	2665
101500397	USA		USASAT-26G	-58.00	N	PART	2	2644
110500058	USA		USASAT-26G-3	-58.00	N	PART	2	2693
109500721	USA		USASAT-28F	-85.10	N	PART	2	2683
109500722	USA		USASAT-28G	-115.00	N	PART	2	2683
111500213	USA		USASAT-28K	-85.20	N	PART	2	2719
111500010	USA		USASAT-28L	-96.00	N	PART	2	2701
112500191	USA		USASAT-28N	-116.15	N	PART	2	2739
105500186	USA		USASAT-31G	-121.00	N	PART	2	2649
105500184	USA		USASAT-31K	-105.00	N	PART	2	2649
105500084	USA		USASAT-31L	-103.00	N	PART	2	2652
105500085	USA		USASAT-31M	-101.00	N	PART	2	2651
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105500164	USA		USASAT-31S	-89.00	N	PART	2	2651
105500183	USA		USASAT-31U	-85.00	N	PART	2	2652
108501176	USA		USASAT-35A	-131.00	N	PART	2	2657
108501064	USA		USASAT-35C	-127.00	N	PART	2	2653
107500538	USA		USASAT-35D	-125.00	N	PART	2	2631
108501117	USA		USASAT-35E	-123.00	N	PART	2	2655
105500476	USA		USASAT-35G	-105.00	N	PART	2	2652
105500502	USA		USASAT-35H	-103.00	N	PART	2	2655
105500501	USA		USASAT-35I	-101.00	N	PART	2	2656
108501094	USA		USASAT-35J	-99.00	N	PART	2	2652
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105500493	USA		USASAT-35M	-93.00	N	PART	2	2652
105500380	USA		USASAT-35N	-91.00	N	PART	2	2653
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112500057	USA		USASAT-50A	-127.00	N	PART	2	2730
111500117	USA		USASAT-50B	-133.00	N	PART	2	2714
111500130	USA		USASAT-50C	-125.00	N	PART	2	2730
111500203	USA		USASAT-50D	-43.00	N	PART	2	2719
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110500256	USA		USASAT-55G	-45.00	N	PART	2	2697
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113500081	USA		USASAT-60L	-74.00	N	PART	2	2755
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112500097	USA		USASAT-70O	-95.00	N	PART	2	2734
111500227	USA		USASAT-70V	-99.20	N	PART	2	2719
111500228	USA		USASAT-70W	-102.80	N	PART	2	2719
101500073	USA		USASAT-7D	-101.00	N	PART	2	2690
101500396	USA		USASAT-9A	-91.00	N	PART	2	2690
101500077	USA		USASAT-9C	-85.00	N	PART	2	2720
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104500353	USA		USCSID-A2	44.00	N	PART	2	2735
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104500355	USA		USCSID-A4	82.00	N	PART	2	2735
104500356	USA		USCSID-A5	92.00	N	PART	2	2735
104500357	USA		USCSID-A6	110.00	N	PART	2	2735
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104500363	USA		USCSID-W2	-144.00	N	PART	2	2691
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104500514	USA		USGAE-1	-90.00	N	PART	2	2633
109500620	USA		USGAE-10R	-150.00	N	PART	2	2680
109500625	USA		USGAE-16R	30.00	N	PART	2	2699
109500621	USA		USGAE-17R	-39.00	N	PART	2	2680
104500515	USA		USGAE-2	4.00	N	PART	2	2634
104500516	USA		USGAE-4	177.50	N	PART	2	2634
109500486	USA		USGAE-9R	152.00	N	PART	2	2699
92500208	USA		USGCSS PH3 E PAC-2	-130.00	N	PART	2	2369

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100500005	USA		USGCSS PH3 INDOC-2	57.00	N	PART	2	2580
96500389	USA		USGCSS PH3 MID-ATL	-42.50	N	PART	2	2370
90500067	USA		USGCSS PH3 W PAC	175.00	N	PART	2	2133
96500387	USA		USGCSS PH3 W PAC-2	180.00	N	PART	2	2463
96500392	USA		USGCSS PH3B ATL	-12.00	N	PART	2	2373
92500109	USA		USGCSS PH3B E PAC	-135.00	N	PART	2	2372
96500386	USA		USGCSS PH3B E PAC-2	-130.00	N	PART	2	2511
100500004	USA		USGCSS PH3B INDOC	60.00	N	PART	2	2612
101500466	USA		USGCSS PH3B INDOC-2	57.00	N	PART	2	2612
100500003	USA		USGCSS PH3B MID-ATL	-42.50	N	PART	2	2580
96500388	USA		USGCSS PH3B W ATL	-52.50	N	PART	2	2510
96500384	USA		USGCSS PH3B W PAC	175.00	N	PART	2	2463
100500086	USA		USGCSS PH3B W PAC-2	180.00	N	PART	2	2580
100500087	USA		USGCSS PH3B W PAC-3	150.00	N	PART	2	2612
104500510	USA		USGGR-11	110.00	N	PART	2	2604
104500507	USA		USGGR-3	-30.00	N	PART	2	2604
104500508	USA		USGGR-4	44.00	N	PART	2	2603
104500509	USA		USGGR-8	82.00	N	PART	2	2603
104500264	USA		USGON-1	70.00	N	PART	2	2598
104500568	USA		USGON-2	8.50	N	PART	2	2619
104500569	USA		USGON-3	103.00	N	PART	2	2593
104500570	USA		USGON-4	-165.00	N	PART	2	2619
104500571	USA		USGON-5	-38.00	N	PART	2	2594
104500572	USA		USGON-6	145.00	N	PART	2	2594
104500573	USA		USGON-7	-145.00	N	PART	2	2593
110500139	USA		USGOVSAT-10	60.00	N	PART	2	2709
110500130	USA		USGOVSAT-12	175.00	N	PART	2	2709
111500009	USA		USGOVSAT-8	-12.00	N	PART	2	2716
95500286	USA		USLL-ATL	-10.00	N	PART	2	2240
104500333	USA		USLL-ATL2	-12.50	N	PART	2	2603
95500289	USA		USLL-PAC	-144.00	N	PART	2	2278
104500334	USA		USLL-PAC2	-141.00	N	PART	2	2602
104500339	USA		USMB-1	-61.00	N	PART	2	2597
104500348	USA		USMB-10	75.00	N	PART	2	2598
104500349	USA		USMB-11	82.00	N	PART	2	2597
104500350	USA		USMB-12	92.00	N	PART	2	2597
104500351	USA		USMB-13	106.50	N	PART	2	2598
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104500345	USA		USMB-7	33.00	N	PART	2	2600
104500346	USA		USMB-8	49.00	N	PART	2	2597
104500347	USA		USMB-9	62.00	N	PART	2	2600
112500259	USA		USNN-3	-127.00	N	PART	2	2750
112500260	USA		USNN-4	100.00	N	PART	2	2746
106500112	USA		USOBO-2	-96.80	N	PART	2	2638
106500113	USA		USOBO-3	-49.40	N	PART	2	2667
106500269	USA		USTRO-2	-144.00	N	PART	2	2640



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106500272	USA		USTRO-5	-10.00	N	PART	2	2641
106500273	USA		USTRO-6	70.00	N	PART	2	2642
106500274	USA		USTRO-7	90.00	N	PART	2	2641
106500275	USA		USTRO-8	103.00	N	PART	2	2642
106500276	USA		USTRO-9	85.00	N	PART	2	2644
112540605	VTN		VNSAT-100E	100.00	A	API/A	7736	2727
111540817	VTN		VNSAT-102.5E	102.50	A	API/A	7186	2709
111540818	VTN		VNSAT-103.5E	103.50	A	API/A	7187	2709
112540606	VTN		VNSAT-105E	105.00	A	API/A	7737	2727
111540819	VTN		VNSAT-106.5E	106.50	A	API/A	7188	2709
111540820	VTN		VNSAT-106.8E	106.80	A	API/A	7189	2709
112540608	VTN		VNSAT-115E	115.00	A	API/A	7739	2727
111540821	VTN		VNSAT-120.5E	120.50	A	API/A	7190	2709
112540609	VTN		VNSAT-120E	120.00	A	API/A	7740	2727
111540822	VTN		VNSAT-125.5E	125.50	A	API/A	7191	2709
112540610	VTN		VNSAT-125E	125.00	A	API/A	7741	2727
112540611	VTN		VNSAT-130E	130.00	A	API/A	7742	2727
111540823	VTN		VNSAT-137.5E	137.50	A	API/A	7192	2709
111540824	VTN		VNSAT-139.5E	139.50	A	API/A	7193	2709
112540612	VTN		VNSAT-140E	140.00	A	API/A	7743	2727
111540826	VTN		VNSAT-141.5E	141.50	A	API/A	7195	2709
111540825	VTN		VNSAT-141E	141.00	A	API/A	7194	2709
111540052	VTN		VNSAT-1A1	97.00	A	API/A	6710	2691
111540053	VTN		VNSAT-1A2	103.00	A	API/A	6711	2691
111540055	VTN		VNSAT-1A4	118.50	A	API/A	6713	2691
111540056	VTN		VNSAT-1A5	121.50	A	API/A	6714	2691
111540057	VTN		VNSAT-1A6	124.50	A	API/A	6715	2691
111540058	VTN		VNSAT-1A7	129.50	A	API/A	6716	2691
111540059	VTN		VNSAT-1A8	132.50	A	API/A	6717	2691
111540060	VTN		VNSAT-1A9	134.50	A	API/A	6718	2691
111540061	VTN		VNSAT-1B1	138.50	A	API/A	6719	2691
113540073	VTN		VNSAT-2A1	90.00	A	API/A	8288	2745
113540074	VTN		VNSAT-2A2	100.00	A	API/A	8289	2745
113540075	VTN		VNSAT-2A3	105.00	A	API/A	8290	2745
113540076	VTN		VNSAT-2A4	110.00	A	API/A	8291	2745
113540077	VTN		VNSAT-2A5	115.00	A	API/A	8292	2745
113540078	VTN		VNSAT-2A6	120.00	A	API/A	8293	2745
113540079	VTN		VNSAT-2A7	125.00	A	API/A	8294	2745
113540080	VTN		VNSAT-2A8	130.00	A	API/A	8295	2745
113540081	VTN		VNSAT-2A9	140.00	A	API/A	8296	2745
112540604	VTN		VNSAT-90E	90.00	A	API/A	7735	2727
109520281	VTN		VIETSAT-132	131.90	C	CR/C	2527	2685
109520050	VTN		VINASAT-1C1	107.00	C	CR/C	2382	2663
97520201	VTN		VINASAT-4A	132.00	C	CR/C	805	2586
112520441	VTN		VNSAT-112.5E	112.50	C	CR/C	3301	2756
111520368	VTN		VNSAT-1A3	117.50	C	CR/C	3002	2727
109500237	VTN		VINASAT-4A2	132.00	N	PART	2	2691
110500104	VTN		VINASAT-4A3	132.00	N	PART	2	2711
111500107	VTN		VINASAT-TTC	132.00	N	PART	2	2709

ANNEXE 1B

**Tableau 1B.1 – Liste des réseaux spatiaux non géostationnaires pour lesquels des renseignements ont été communiqués au Bureau des radiocommunications avant le 31.12.2013 en application des dispositions de l'Article 9 (Publication anticipée de renseignements - A ou Demande de coordination - C) et/ou de l'Article 11 (Notification - N) du Règlement des radiocommunications**

(Classement par administration et nom de satellite)

**Note: Chaque réseau à satellite ne figure qu'une fois dans la liste avec son statut réglementaire le plus élevé (N, C ou A)**

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
112541105	AFS		ZACUBE-1	N-GSO	A	API/A	8029	2744
108500677	ALG		ALSAT-2	N-GSO	N	PART	2	2682
112540816	ARG		CUBEBUG-1	N-GSO	A	API/A	7924	2741
113540571	ARG		CUBEBUG-2	N-GSO	A	API/A	8699	2757
113540573	ARG		CUBEBUG-2-C	N-GSO	A	API/A	8700	2757
107500106	ARG		LATINSAT	N-GSO	N	PART	2	2742
99500173	ARG		SAC-C	N-GSO	N	PART	2	2742
111500129	ARG		SAC-D	N-GSO	N	PART	2	2732
109500037	ARS		SAUDISAT-1C	N-GSO	N	PART	2	2667
109500038	ARS		SAUDISAT-2	N-GSO	N	PART	2	2697
106520166	AUS		SIRION	N-GSO	C	CR/C	1904	2746
113520061	AUS		SIRION-1	N-GSO	C	CR/C	3364	2748
112500204	AUT		BRITE	N-GSO	N	PART	2	2745
99500244	B		MECB/SCD-2	N-GSO	N	PART	2	2744
92500233	B		MECB-S1	N-GSO	N	PART	2	2744
100500350	B		SACI-1	N-GSO	N	PART	2	2744
112500002	BEL		OUFTI-1	N-GSO	N	PART	2	2730
111500071	BLR		BKA	N-GSO	N	PART	2	2728
113540414	CAN		BRITE-CANADA	N-GSO	A	API/A	8704	2757
113540144	CAN		CANPOL-2	N-GSO	A	API/A	8367	2759
113540578	CAN		CANX-4-5	N-GSO	A	API/A	8713	2757
108540240	CAN		NTS	N-GSO	A	API/A	5134	2687
109520092	CAN		ADS	N-GSO	C	CR/C	2404	2753
112520149	CAN		CANPOL	N-GSO	C	CR/C	3180	2745
112520490	CAN		COMMSTELLATION	N-GSO	C	CR/C	3313	2758
112520404	CAN		M3MSAT	N-GSO	C	CR/C	3268	2752
105500390	CAN		CANX-2	N-GSO	N	PART	2	2639
111500036	CAN		CASCADE-CX	N-GSO	N	PART	2	2705
111500205	CAN		CASSIOPE-1A	N-GSO	N	PART	2	2719
109500062	CAN		JC2SAT	N-GSO	N	PART	2	2686
101500359	CAN		MOST-1	N-GSO	N	PART	2	2520
113500077	CAN		NEOSSAT-1A	N-GSO	N	PART	2	2758
95500566	CAN		RADARSAT-1A	N-GSO	N	PART	2	2242
103500016	CAN		RADARSAT-2C	N-GSO	N	PART	2	2617
103500017	CAN		RADARSAT-2D	N-GSO	N	PART	2	2658
112500061	CAN		RADARSAT-3B	N-GSO	N	PART	2	2731

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
112500019	CAN		SAPPHIRE	N-GSO	N	PART	2	2744
101500360	CAN		SCISAT-1	N-GSO	N	PART	2	2740
109500900	CHL		SSOT	N-GSO	N	PART	2	2714
110540984	CHN		CGSAT-LEO-1	N-GSO	A	API/A	6675	2690
110540946	CHN		CHNGMSS	N-GSO	A	API/A	6653	2688
113540409	CHN		FY-3-A	N-GSO	A	API/A	8698	2757
112540429	CHN		GC-2	N-GSO	A	API/A	7591	2735
112541103	CHN		GC-5	N-GSO	A	API/A	8027	2744
112540821	CHN		HXMT	N-GSO	A	API/A	7922	2741
108540424	CHN		MARS EXPLORER-1B	N-GSO	A	API/A	5267	2640
113540067	CHN		SPPOSS-3-01	N-GSO	A	API/A	8326	2758
108540411	CHN		TIANWANG	N-GSO	A	API/A	5265	2639
112520031	CHN		COMPASS-IGSO	N-GSO	C	CR/C	3118	2741
110520285	CHN		COMPASS-MEO	N-GSO	C	CR/C	2740	2742
105500389	CHN		BLMIT-1	N-GSO	N	PART	2	2607
111500094	CHN		CBERS-02C	N-GSO	N	PART	2	2720
102500234	CHN		CBERS-1	N-GSO	N	PART	2	2570
111500092	CHN		CBERS-2	N-GSO	N	PART	2	2720
111500093	CHN		CBERS-3	N-GSO	N	PART	2	2720
107500391	CHN		CE-1	N-GSO	N	PART	2	2646
103500420	CHN		COMPASS-H	N-GSO	N	PART	2	2596
103500421	CHN		COMPASS-M	N-GSO	N	PART	2	2596
100500426	CHN		FY-1	N-GSO	N	PART	2	2709
107500440	CHN		FY-3	N-GSO	N	PART	2	2645
113500033	CHN		GC-1	N-GSO	N	PART	2	2750
108501091	CHN		HJ-1-ABC	N-GSO	N	PART	2	2654
102500235	CHN		HY-1	N-GSO	N	PART	2	2570
111500105	CHN		HY-2	N-GSO	N	PART	2	2712
113500034	CHN		LUNAR LANDER	N-GSO	N	PART	2	2750
113500035	CHN		LUNAR ROVER	N-GSO	N	PART	2	2750
111500106	CHN		MARS EXPLORER-1	N-GSO	N	PART	2	2713
108500706	CHN		NUAA-1	N-GSO	N	PART	2	2752
112500178	CHN		SHENZHOU	N-GSO	N	PART	2	2749
112500156	CHN		SJ-9	N-GSO	N	PART	2	2738
109500242	CHN		XW-1	N-GSO	N	PART	2	2667
111500191	CHN		ZIYUAN-3	N-GSO	N	PART	2	2718
101500300	D	GLS	GALILEO-NAV-2004	N-GSO	N	PART	2	2582
113540205	D		CUBESAT-FIRSTMOVE	N-GSO	A	API/A	8370	2755
113540204	D		CUBESAT-UWE	N-GSO	A	API/A	8369	2753
109540281	D		CUBESAT-UWE-2	N-GSO	A	API/A	5575	2656
109540923	D		ENMAP	N-GSO	A	API/A	5963	2684
112541239	D		FLYING LAPTOP	N-GSO	A	API/A	8126	2755
113540201	D		ICARUS	N-GSO	A	API/A	8373	2751
112540427	D		SOMP-TUD	N-GSO	A	API/A	7589	2735
113540413	D		WREN	N-GSO	A	API/A	8717	2758
96520546	D		COURIER	N-GSO	C	CR/C	1350	2536
113500016	D		BEESAT-3	N-GSO	N	PART	2	2748

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
107500317	D		BIRD	N-GSO	N	PART	2	2697
104500428	D		CHAMP	N-GSO	N	PART	2	2632
104500168	D		GRACE	N-GSO	N	PART	2	2710
106500286	D		MAGNIFYING GLASS	N-GSO	N	PART	2	2649
105500438	D		RAPIDEYE	N-GSO	N	PART	2	2637
108501139	D		TERRASAR	N-GSO	N	PART	2	2679
111500037	D		TET-1	N-GSO	N	PART	2	2703
112540477	E		HUMSAT-D	N-GSO	A	API/A	7614	2735
109540563	E		INGENIO	N-GSO	A	API/A	5791	2687
109540646	E		PAZ	N-GSO	A	API/A	5790	2743
107520014	E		ONDAS	N-GSO	C	CR/C	2052	2650
108500678	E		DEIMOS-1	N-GSO	N	PART	2	2658
94500335	E		MINISAT-1	N-GSO	N	PART	2	2291
105500142	E		NANOSAT-1	N-GSO	N	PART	2	2655
112500225	E		OPTOS	N-GSO	N	PART	2	2742
112500102	E		XATCOBEO	N-GSO	N	PART	2	2748
111540942	EGY		E-STAR	N-GSO	A	API/A	7239	2726
105500097	EGY		MIRSAT-1	N-GSO	N	PART	2	2603
113500040	EST		ESTCUBE-1	N-GSO	N	PART	2	2750
113500002	F	ESA	ADM-AEOLUS	N-GSO	N	PART	2	2749
105500005	F	ESA	ATV	N-GSO	N	PART	2	2700
111500021	F	ESA	BEPICOLOMBO (MPO)	N-GSO	N	PART	2	2721
95500126	F	ESA	CLUSTER 1-5	N-GSO	N	PART	2	2753
108500003	F	ESA	CRYOSAT-2	N-GSO	N	PART	2	2670
111500196	F	ESA	GAIA	N-GSO	N	PART	2	2721
103500001	F	ESA	GOCE	N-GSO	N	PART	2	2644
104500092	F	ESA	HERSCHEL	N-GSO	N	PART	2	2700
99500055	F	ESA	INTEGRAL	N-GSO	N	PART	2	2737
109500001	F	ESA	LISA PATHFINDER	N-GSO	N	PART	2	2699
101500521	F	ESA	MARS-EXPRESS	N-GSO	N	PART	2	2700
100500306	F	ESA	METOP	N-GSO	N	PART	2	2702
104500093	F	ESA	PLANCK	N-GSO	N	PART	2	2700
99500101	F	ESA	PROBA	N-GSO	N	PART	2	2680
105500613	F	ESA	PROBA-2	N-GSO	N	PART	2	2669
111500020	F	ESA	PROBA-V	N-GSO	N	PART	2	2747
101500519	F	ESA	ROSETTA	N-GSO	N	PART	2	2700
111500003	F	ESA	SENTINEL-1	N-GSO	N	PART	2	2731
111500004	F	ESA	SENTINEL-2	N-GSO	N	PART	2	2731
111500005	F	ESA	SENTINEL-3	N-GSO	N	PART	2	2731
113500053	F	ESA	SENTINEL-5P	N-GSO	N	PART	2	2752
105500083	F	ESA	SMOS	N-GSO	N	PART	2	2708
95500127	F	ESA	SOHO	N-GSO	N	PART	2	2574
110500003	F	ESA	SWARM	N-GSO	N	PART	2	2702
103500345	F	ESA	VENUS EXPRESS	N-GSO	N	PART	2	2700
97500403	F	ESA	XMM	N-GSO	N	PART	2	2739
109520327	F	GLS	GALILEO-2	N-GSO	C	CR/C	2542	2686
99500144	F	GLS	MSATNAV	N-GSO	N	PART	2	2588

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
100500321	F	GLS	MSATNAV-2	N-GSO	N	PART	2	2588
101500014	F	GLS	MSATNAV-3	N-GSO	N	PART	2	2588
103500093	F	GLS	MSATNAV-4	N-GSO	N	PART	2	2588
110540449	F		ASAT HEO	N-GSO	A	API/A	6385	2679
110540448	F		ASAT MEO	N-GSO	A	API/A	6384	2679
111540665	F		BASAT HEO	N-GSO	A	API/A	7160	2710
111540663	F		BASAT LEO	N-GSO	A	API/A	7158	2710
111540664	F		BASAT MEO	N-GSO	A	API/A	7159	2710
95540023	F		F-SATMULTI-1A	N-GSO	A	AR11/A	1604	2337
113540128	F		ISLWE-1	N-GSO	A	API/A	8374	2751
112541317	F		MCSAT HEO	N-GSO	A	API/A	8183	2741
112541315	F		MCSAT LEO	N-GSO	A	API/A	8181	2741
112541316	F		MCSAT MEO	N-GSO	A	API/A	8182	2741
113540207	F		MICROSCOPE	N-GSO	A	API/A	8372	2753
109540584	F		MM2 HEO	N-GSO	A	API/A	5804	2654
109540582	F		MM2 LEO	N-GSO	A	API/A	5802	2654
109540583	F		MM2 MEO	N-GSO	A	API/A	5803	2654
111540893	F		NOVASAT1G	N-GSO	A	API/A	7225	2723
109540060	F		ROBUSTA	N-GSO	A	API/A	5560	2656
106540715	F		VP HEO	N-GSO	A	API/A	4421	2589
106540713	F		VP LEO	N-GSO	A	API/A	4419	2589
106540714	F		VP MEO	N-GSO	A	API/A	4420	2589
111520230	F		ASAT-B	N-GSO	C	CR/C	2960	2722
108520185	F		DRN-N1B	N-GSO	C	CR/C	2270	2646
108520186	F		DRN-N2B	N-GSO	C	CR/C	2271	2646
108520187	F		DRN-N3B	N-GSO	C	CR/C	2272	2646
110520102	F		HIBLEO-X	N-GSO	C	CR/C	2621	2694
110500301	F		ALERTE	N-GSO	N	PART	2	2701
108500002	F		ARGOS-4	N-GSO	N	PART	2	2701
96500523	F		ARGOS-B	N-GSO	N	PART	2	2604
108500601	F		ARGOS-SARAL	N-GSO	N	PART	2	2647
90504396	F		ARIANE	N-GSO	N	PART	2	2575
109500282	F		ASTROTERRA	N-GSO	N	PART	2	2743
100500052	F		DORIS-2	N-GSO	N	PART	2	2588
101500326	F		ESSAIM	N-GSO	N	PART	2	2549
109500002	F		JASON2	N-GSO	N	PART	2	2671
112500130	F		JASON3	N-GSO	N	PART	2	2742
105500220	F		MINOS	N-GSO	N	PART	2	2605
111500248	F		MYR_PICARD	N-GSO	N	PART	2	2721
112500047	F		PLEIADES	N-GSO	N	PART	2	2732
105500522	F		PROTEUS-OBS	N-GSO	N	PART	2	2632
96500559	F		PROTEUS-TPFO	N-GSO	N	PART	2	2588
93500165	F		SPOT-2	N-GSO	N	PART	2	2575
93500166	F		SPOT-3	N-GSO	N	PART	2	2575
104500595	F		SPOT-7	N-GSO	N	PART	2	2585
113500001	F		TARANIS	N-GSO	N	PART	2	2748
109540808	G		ADS-1B	N-GSO	A	API/A	5917	2684

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
112541112	G		STRAND1	N-GSO	A	API/A	8048	2747
112541147	G		TECHDEMOSAT-1	N-GSO	A	API/A	8117	2750
112540478	G		UKUBE-1	N-GSO	A	API/A	7615	2737
108520059	G		HIBLEO-KA	N-GSO	C	CR/C	2208	2663
113520120	G		L5	N-GSO	C	CR/C	3413	2757
108520116	G		O3B-A	N-GSO	C	CR/C	2209	2661
111520052	G		O3B-B	N-GSO	C	CR/C	2817	2713
102500178	G		DMC1	N-GSO	N	PART	2	2740
107500097	G		ICO-P	N-GSO	N	PART	2	2712
110500236	HNG		MASAT-1	N-GSO	N	PART	2	2719
112540075	HOL		DELFI-N3XT	N-GSO	A	API/A	7362	2731
112540831	HOL		FUNCUBE-1	N-GSO	A	API/A	7889	2741
112540409	HOL		TRITON1	N-GSO	A	API/A	7581	2734
112540410	HOL		TRITON2	N-GSO	A	API/A	7582	2734
107500088	HOL		DELFI-C3	N-GSO	N	PART	2	2756
103500082	I	GLS	GALILEO-M-NAVSTAR	N-GSO	N	PART	2	2639
111540948	I		E-STAR-I	N-GSO	A	API/A	7280	2727
112540308	I		ISS - ARISS	N-GSO	A	API/A	7530	2734
113540403	I		UNISAT-5	N-GSO	A	API/A	8669	2755
106500322	I		AGILE	N-GSO	N	PART	2	2697
104500001	I		COSMO SKYMED	N-GSO	N	PART	2	2647
111500034	I		PRISMA-I	N-GSO	N	PART	2	2724
112541145	IND		ASTROSAT	N-GSO	A	API/A	8049	2747
112540426	IND		CHANDRAYAAN-2	N-GSO	A	API/A	7529	2735
111540655	IND		MEGHA-TROPIQUES	N-GSO	A	API/A	7094	2716
112540303	IND		MMI	N-GSO	A	API/A	7527	2757
109540888	IND		OCEANSAT-2	N-GSO	A	API/A	5953	2671
111540205	IND		RESOURCESAT	N-GSO	A	API/A	6816	2709
112540304	IND		RISAT	N-GSO	A	API/A	7528	2734
108540230	IND		TWSAT	N-GSO	A	API/A	5129	2644
111540211	IND		YOUTHSAT	N-GSO	A	API/A	6817	2709
112520043	IND		INSAT-NAV-NGSA	N-GSO	C	CR/C	3120	2741
112520052	IND		INSAT-NAVR-GS	N-GSO	C	CR/C	3121	2741
90504397	IND		ASLV	N-GSO	N	PART	2	
109500241	IND		CHANDRAYAAN-1	N-GSO	N	PART	2	2675
112500274	IND		INSAT-NAV-A-GS	N-GSO	N	PART	2	2744
90504414	IND		IRS-1B	N-GSO	N	PART	2	
99500030	IND		IRS-1C	N-GSO	N	PART	2	2446
99500029	IND		IRS-1E	N-GSO	N	PART	2	2446
111500233	IND		IRS-CARTOSAT-2	N-GSO	N	PART	2	2720
99500139	IND		IRS-P4	N-GSO	N	PART	2	2516
111500232	IND		IRS-P5	N-GSO	N	PART	2	2721
93500010	IND		PSLV	N-GSO	N	PART	2	2148
90504631	IND		RS-D2	N-GSO	N	PART	2	
90504633	IND		SEO BHASKARA-1	N-GSO	N	PART	2	
90504634	IND		SEO BHASKARA-2	N-GSO	N	PART	2	
87500010	IND		SROSS-1	N-GSO	N	PART	2	1944

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
94500357	IND		SROSS-3	N-GSO	N	PART	2	2223
112540424	INS		LAPAN-A3-SAT	N-GSO	A	API/A	7587	2755
109500036	INS		LAPANSAT	N-GSO	N	PART	2	2740
105500657	INS		LAPAN-TUBSAT	N-GSO	N	PART	2	2704
110520235	IRN		AUTSAT	N-GSO	C	CR/C	2697	2682
111500133	IRN		FAJR	N-GSO	N	PART	2	2716
101500402	IRN		MESBAH	N-GSO	N	PART	2	2632
109500635	IRN		OMID	N-GSO	N	PART	2	2681
112500232	IRN		SHARIFSAT	N-GSO	N	PART	2	2745
112500175	IRN		TOLU-1	N-GSO	N	PART	2	2739
111540439	ISR		VENUS	N-GSO	A	API/A	6990	2713
100500371	ISR		EROS	N-GSO	N	PART	2	2554
113540001	J		ARTSAT1	N-GSO	A	API/A	8302	2755
113541019	J		ASTRO-H	N-GSO	A	API/A	8279	2758
113540206	J		CE-SAT	N-GSO	A	API/A	8371	2753
111540642	J		CHUBUSAT-1	N-GSO	A	API/A	7081	2715
107540032	J		CUTE1.7+APD II	N-GSO	A	API/A	4485	2604
111540427	J		FITSAT-1	N-GSO	A	API/A	6983	2726
112540822	J		GCOM-C1	N-GSO	A	API/A	7884	2737
113540036	J		HAYABUSA2	N-GSO	A	API/A	8277	2754
111540432	J		HODOYOSHI	N-GSO	A	API/A	6988	2713
112541424	J		HODOYOSHI-3-4	N-GSO	A	API/A	8282	2754
108540582	J		HORYU	N-GSO	A	API/A	5346	2650
111540397	J		ISS-CUBES	N-GSO	A	API/A	6965	2713
111540896	J		ITF-1	N-GSO	A	API/A	7227	2725
108540587	J		JOSHO	N-GSO	A	API/A	5349	2664
111540285	J		MMO	N-GSO	A	API/A	6890	2710
107540215	J		NANO-JASMINE	N-GSO	A	API/A	4637	2695
113540202	J		NANO-JASMINE1	N-GSO	A	API/A	8503	2754
112540425	J		OPUSAT	N-GSO	A	API/A	7588	2735
110540958	J		QSAT	N-GSO	A	API/A	6648	2701
113540035	J		RISESAT	N-GSO	A	API/A	8276	2754
109540890	J		SDS-3	N-GSO	A	API/A	5956	2684
112540161	J		SHINDAI SAT	N-GSO	A	API/A	7438	2730
111540438	J		SLATS	N-GSO	A	API/A	6989	2713
112540818	J		SOCRATES	N-GSO	A	API/A	7883	2737
107540103	J		SOHLA2	N-GSO	A	API/A	4555	2610
107540081	J		SOHLA-2	N-GSO	A	API/A	4539	2618
107540108	J		SPROUT	N-GSO	A	API/A	4560	2616
110540948	J		STARS-II	N-GSO	A	API/A	6638	2700
113540002	J		TEIKYOSAT-3	N-GSO	A	API/A	8303	2755
110540490	J		TSUBAME	N-GSO	A	API/A	6505	2693
112541111	J		UNIFORM-1	N-GSO	A	API/A	8028	2744
109540355	J		UNITEC-1	N-GSO	A	API/A	5626	2661
109540485	J		WASEDA.SAT	N-GSO	A	API/A	5723	2663
111540792	J		WE WISH	N-GSO	A	API/A	7183	2735
112520494	J		QZSS	N-GSO	C	CR/C	3322	2758

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107500101	J		ALOS	N-GSO	N	PART	2	2627
113500030	J		ALOS-2	N-GSO	N	PART	2	2752
110500173	J		ALOSSAR	N-GSO	N	PART	2	2694
112500154	J		ASNARO	N-GSO	N	PART	2	2738
100500051	J		ASTRO-E	N-GSO	N	PART	2	2722
106500126	J		ASTRO-F	N-GSO	N	PART	2	2608
110500109	J		CUTE-I	N-GSO	N	PART	2	2693
110500207	J		EXCELSIOR	N-GSO	N	PART	2	2696
90504408	J		EXOS-D	N-GSO	N	PART	2	2643
112500017	J		GCOM-W1	N-GSO	N	PART	2	2724
92500295	J		GEOTAIL	N-GSO	N	PART	2	2616
109500024	J		GOSAT	N-GSO	N	PART	2	2686
109500579	J		HTV-R	N-GSO	N	PART	2	2699
109500846	J		IKAROS	N-GSO	N	PART	2	2709
105500237	J		INDEX-1	N-GSO	N	PART	2	2607
109500008	J		ISS-JEM-ICS-R	N-GSO	N	PART	2	2658
109500580	J		ISS-PROX-R	N-GSO	N	PART	2	2679
96500425	J		JAS-2	N-GSO	N	PART	2	2555
110500196	J		KAGSAT	N-GSO	N	PART	2	2697
109500093	J		KKS-1	N-GSO	N	PART	2	2670
97500353	J		MUSES-B	N-GSO	N	PART	2	2555
107500169	J		MUSES-C	N-GSO	N	PART	2	2653
104500548	J		N-SAT-HEO2	N-GSO	N	PART	2	2603
108500014	J		OICETS-R	N-GSO	N	PART	2	2635
109500914	J		PLANET-C	N-GSO	N	PART	2	2697
109500094	J		PRISM1	N-GSO	N	PART	2	2666
111500274	J		PRISM2	N-GSO	N	PART	2	2721
110500199	J		QZSS-1	N-GSO	N	PART	2	2724
109500033	J		SDS-1	N-GSO	N	PART	2	2666
112500016	J		SDS-A	N-GSO	N	PART	2	2722
110500206	J		SERVIS-2	N-GSO	N	PART	2	2697
109500095	J		SOHLA1	N-GSO	N	PART	2	2666
106500327	J		SOLAR-B	N-GSO	N	PART	2	2753
109500096	J		SORUNSAT-1	N-GSO	N	PART	2	2666
113500010	J		SPRINT-A	N-GSO	N	PART	2	2757
109500014	J		SPRITE-SAT	N-GSO	N	PART	2	2649
109500097	J		STARS	N-GSO	N	PART	2	2666
107500006	J		WEOS-R	N-GSO	N	PART	2	2610
108500625	J		XI-IV	N-GSO	N	PART	2	2635
108500626	J		XI-V	N-GSO	N	PART	2	2635
112540016	KAZ		DZZ-HR	N-GSO	A	API/A	7335	2730
112540017	KAZ		DZZ-MR	N-GSO	A	API/A	7336	2732
112540817	KOR		NONGEO AMATEUR SAT	N-GSO	A	API/A	7882	2737
109540520	KOR		STSAT-3	N-GSO	A	API/A	5751	2686
107500037	KOR		KAISTSAT-4	N-GSO	N	PART	2	2637
112500193	KOR		KHUSAT-01	N-GSO	N	PART	2	2743
100500019	KOR		KITSAT-3	N-GSO	N	PART	2	2645



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100500017	KOR		KOMPSAT-1	N-GSO	N	PART	2	2655
106500084	KOR		KOMPSAT-2	N-GSO	N	PART	2	2632
111500044	KOR		KOMPSAT-3	N-GSO	N	PART	2	2705
113500041	KOR		KOMPSAT-3A	N-GSO	N	PART	2	2752
110500283	KOR		KOMPSAT-5	N-GSO	N	PART	2	2700
108501015	KOR		STSAT-2	N-GSO	N	PART	2	2715
113540402	LTU		LITSAT-1	N-GSO	A	API/A	8668	2755
113540039	LTU		LITUANICASAT-1	N-GSO	A	API/A	8317	2757
110540444	LUX		LUX-NGSO-1	N-GSO	A	API/A	6426	2687
110540445	LUX		LUX-NGSO-2	N-GSO	A	API/A	6427	2687
110540446	LUX		LUX-NGSO-3	N-GSO	A	API/A	6428	2687
109520122	LUX		LUXMSS-1	N-GSO	C	CR/C	2417	2674
109520135	LUX		LXS-AIS	N-GSO	C	CR/C	2431	2671
112541150	LVA		VENTA-1	N-GSO	A	API/A	8368	2750
107500030	MLA		MLA-NEQO	N-GSO	N	PART	2	2654
112540925	NIG		NIGERIASAT-2	N-GSO	A	API/A	7928	2740
112540926	NIG		NIGERIASAT-X	N-GSO	A	API/A	7929	2740
113540345	NOR		ASK-1	N-GSO	A	API/A	8431	2754
111540934	NOR		CUBESTAR	N-GSO	A	API/A	7242	2730
112540162	NOR		HINCUBE	N-GSO	A	API/A	7513	2730
109520038	NOR		ARE-1	N-GSO	C	CR/C	2377	2692
113520077	NOR		ARE-2	N-GSO	C	CR/C	3394	2755
112540845	NZL		KIWISAT	N-GSO	A	API/A	7925	2739
112540921	PAK		ICUBE-1	N-GSO	A	API/A	7920	2739
112541377	PAK		PAKTES-1	N-GSO	A	API/A	8249	2751
110540720	PAK		PRSS-O1	N-GSO	A	API/A	6507	2695
97500282	PAK		BADR-B	N-GSO	N	PART	2	2614
113520188	PNG		OMNISPACE F2	N-GSO	C	CR/C	3434	2759
110540980	POL		BRITE-PL	N-GSO	A	API/A	6671	2701
111540946	POL		PW-SAT	N-GSO	A	API/A	7289	2730
111540903	ROU		GOLIAT	N-GSO	A	API/A	7230	2726
90504874	RUS	IK	MOLNIA-3	N-GSO	N	PART	2	
112541146	RUS		LUNA-RESURS	N-GSO	A	API/A	8050	2747
111540997	RUS		POTOK-ISS	N-GSO	A	API/A	7302	2730
112541102	RUS		SPECTR-RG	N-GSO	A	API/A	7964	2744
108520002	RUS		EXPRESS-RB	N-GSO	C	CR/C	2162	2640
96500536	RUS		COMPARUS-C	N-GSO	N	PART	2	2390
96500535	RUS		COMPARUS-E	N-GSO	N	PART	2	2385
107500002	RUS		CUP	N-GSO	N	PART	2	2610
111500198	RUS		DTRS-ISS	N-GSO	N	PART	2	2721
94500133	RUS		GEO-IK-2	N-GSO	N	PART	2	2358
90504410	RUS		GLONASS	N-GSO	N	PART	2	
97500304	RUS		GLONASS-M	N-GSO	N	PART	2	2645
101500568	RUS		GONETS	N-GSO	N	PART	2	2534
108500573	RUS		GONETS-M	N-GSO	N	PART	2	2688
107500005	RUS		GTS	N-GSO	N	PART	2	2717
110500266	RUS		KANOPUS-V	N-GSO	N	PART	2	2740

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106500111	RUS		KORONAS-PHOTON	N-GSO	N	PART	2	2647
90504426	RUS		KOSPAS	N-GSO	N	PART	2	2688
107500003	RUS		MBRL-SC	N-GSO	N	PART	2	2611
107500004	RUS		MBRL-SM	N-GSO	N	PART	2	2611
98500013	RUS		METEOR-3M	N-GSO	N	PART	2	2652
111500082	RUS		MKA-FKI	N-GSO	N	PART	2	2724
90504431	RUS		MOLNIA-1	N-GSO	N	PART	2	
90504432	RUS		MOLNIA-2	N-GSO	N	PART	2	
103500030	RUS		MONITOR	N-GSO	N	PART	2	2647
110500001	RUS		PHOBOS-GRUNT	N-GSO	N	PART	2	2719
90504628	RUS		RADIO-M	N-GSO	N	PART	2	
108500004	RUS		RESURS-DK1	N-GSO	N	PART	2	2634
90504630	RUS		RS	N-GSO	N	PART	2	
111500091	RUS		SELENA	N-GSO	N	PART	2	2721
107500107	RUS		SMOTR	N-GSO	N	PART	2	2644
106500006	RUS		SPECTR-R	N-GSO	N	PART	2	2742
96500453	RUS		TSYKADA	N-GSO	N	PART	2	2476
112500163	RUS		UCTS-ISS	N-GSO	N	PART	2	2756
90504425	S		KIRUNA ROCKET	N-GSO	N	PART	2	2577
100500389	S		ODIN	N-GSO	N	PART	2	2674
109500280	S		PRISMA	N-GSO	N	PART	2	2680
111541001	SNG		VELOX-P	N-GSO	A	API/A	7333	2728
112540421	SNG		VELOX-PII	N-GSO	A	API/A	7584	2734
111540279	SNG		X-SAT	N-GSO	A	API/A	6888	2710
113540572	SUI		CUBETH	N-GSO	A	API/A	8701	2757
107500492	SUI		SWISSCUBE	N-GSO	N	PART	2	2734
110500265	SUI		TISAT-1	N-GSO	N	PART	2	2754
113540143	SVN		NEMO-HD	N-GSO	A	API/A	8329	2749
106500406	THA		THEOS	N-GSO	N	PART	2	2658
108540251	TUR		RASAT	N-GSO	A	API/A	5136	2638
112500176	TUR		GOKTURK-1	N-GSO	N	PART	2	2741
112500177	TUR		GOKTURK-2	N-GSO	N	PART	2	2739
113500046	TUR		TURKSAT-3USAT	N-GSO	N	PART	2	2752
107500094	UAE		DUBAISAT-1	N-GSO	N	PART	2	2697
109500632	UAE		DUBAISAT-2	N-GSO	N	PART	2	2706
110500065	UAE		DUBAISAT-2B	N-GSO	N	PART	2	2691
107500013	UKR		SICH-2	N-GSO	N	PART	2	2713
106500338	UKR		YAVIR-1	N-GSO	N	PART	2	2607
113540209	URG		ANTELSAT	N-GSO	A	API/A	8375	2751
109540364	USA		COSMIC	N-GSO	A	API/A	5631	2664
110540475	USA		CUCU	N-GSO	A	API/A	6430	2721
113540068	USA		DOVE1	N-GSO	A	API/A	8327	2759
113540069	USA		DOVE2	N-GSO	A	API/A	8328	2759
113540400	USA		DOVE3	N-GSO	A	API/A	8539	2755
113540401	USA		DOVE4	N-GSO	A	API/A	8541	2755
113540399	USA		INSIGHT	N-GSO	A	API/A	8538	2754
112541240	USA		ISS RAPIDSCAT	N-GSO	A	API/A	8125	2750

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110540211	USA		JMR	N-GSO	A	API/A	6205	2682
106540547	USA		MAST	N-GSO	A	API/A	4363	2584
112540290	USA		M-CUBED	N-GSO	A	API/A	7226	2737
113540070	USA		MER-R	N-GSO	A	API/A	8316	2757
108540735	USA		OSTM	N-GSO	A	API/A	5500	2682
112540815	USA		TECHEDSAT1	N-GSO	A	API/A	7930	2741
106540173	USA		USAKA-H1	N-GSO	A	API/A	4125	2575
112540285	USA		USASAT-30E	N-GSO	A	API/A	7525	2734
113540038	USA		USCHAMA	N-GSO	A	API/A	8281	2758
105540378	USA		USCNOFS	N-GSO	A	API/A	3711	2549
113540040	USA		USOCEAN	N-GSO	A	API/A	8278	2757
111520020	USA		FALCONSAT	N-GSO	C	CR/C	2914	2718
111520224	USA		HIBLEO-2FL2	N-GSO	C	CR/C	3069	2734
93520156	USA		LEOTELCOM-2	N-GSO	C	CR/C	317	2529
96520552	USA		LEOTELCOM-5	N-GSO	C	RES46/C	310	2302
107520118	USA		MIDSTAR-1	N-GSO	C	CR/C	2111	2633
96520043	USA		MSSLEO-3	N-GSO	C	RES46/C	383	2309
98520759	USA		USAMEO-4	N-GSO	C	CR/C	1658	2562
109520004	USA		USPOJOAQUE	N-GSO	C	CR/C	2405	2668
110520280	USA		USRSR	N-GSO	C	CR/C	2729	2705
108520026	USA		USSTP-1	N-GSO	C	CR/C	2146	2636
112520346	USA		UST4WP	N-GSO	C	CR/C	3269	2752
98500190	USA		ACE	N-GSO	N	PART	2	2590
99500078	USA		ACRIMSAT	N-GSO	N	PART	2	2590
105500022	USA		AIM	N-GSO	N	PART	2	2603
94500240	USA		ALEXIS	N-GSO	N	PART	2	2163
110500217	USA		AQUARIUS	N-GSO	N	PART	2	2702
101500081	USA		AURA	N-GSO	N	PART	2	2704
97500109	USA		AXAF-1	N-GSO	N	PART	2	2590
106500295	USA		BIGELOW	N-GSO	N	PART	2	2693
96500413	USA		BLOCK 5D-3	N-GSO	N	PART	2	2590
96500408	USA		CASSINI	N-GSO	N	PART	2	2590
101500569	USA		CHIPS	N-GSO	N	PART	2	2590
106500083	USA		CIBOLA	N-GSO	N	PART	2	2608
92500205	USA		COMET	N-GSO	N	PART	2	2590
111500006	USA		CONNECT	N-GSO	N	PART	2	2758
90504402	USA		CRRES	N-GSO	N	PART	2	2166
112500001	USA		CYGNUS	N-GSO	N	PART	2	2726
104500387	USA		DAWN	N-GSO	N	PART	2	2609
98500032	USA		EMU-SSCS	N-GSO	N	PART	2	2591
97500289	USA		EOS AM	N-GSO	N	PART	2	2591
99500040	USA		EOS PM	N-GSO	N	PART	2	2704
90504403	USA		ERBS	N-GSO	N	PART	2	2573
112500271	USA		FASTSAT	N-GSO	N	PART	2	2748
105500618	USA		FORTE	N-GSO	N	PART	2	2607
98500031	USA		FUSE	N-GSO	N	PART	2	2591
106500167	USA		GLAST	N-GSO	N	PART	2	2627

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99500079	USA		HESSI	N-GSO	N	PART	2	2591
95500099	USA		HETE	N-GSO	N	PART	2	2591
95500672	USA		HIBLEO-2	N-GSO	N	PART	2	2591
95500673	USA		HIBLEO-2FL	N-GSO	N	PART	2	2591
99500289	USA		HIBLEO-4	N-GSO	N	PART	2	2613
99500160	USA		HIBLEO-4FL	N-GSO	N	PART	2	2591
95500674	USA		HIBLEO-5FL-2	N-GSO	N	PART	2	2358
107500412	USA		IBEX	N-GSO	N	PART	2	2638
100500001	USA		ICESAT	N-GSO	N	PART	2	2591
99500080	USA		IMAGE	N-GSO	N	PART	2	2592
90504413	USA		IMP-J	N-GSO	N	PART	2	2575
101500582	USA		INTNL SPACE STATION	N-GSO	N	PART	2	2740
96500515	USA		INTNL SPACE STN ACS	N-GSO	N	PART	2	2740
96500516	USA		INTNL SPACE STN SGS	N-GSO	N	PART	2	2759
98500030	USA		ISS SSCS	N-GSO	N	PART	2	2592
109500265	USA		ISS-COTS1	N-GSO	N	PART	2	2699
112500033	USA		ISS-CUCU	N-GSO	N	PART	2	2736
111500079	USA		ISS-USOS-RPOD	N-GSO	N	PART	2	2731
94500123	USA		ISTP WIND	N-GSO	N	PART	2	2592
109500197	USA		JUNO	N-GSO	N	PART	2	2707
112500192	USA		JWST	N-GSO	N	PART	2	2739
106500296	USA		KEPLER	N-GSO	N	PART	2	2656
96500415	USA		L-92	N-GSO	N	PART	2	2592
90504427	USA		LANDSAT-4	N-GSO	N	PART	2	2573
106500335	USA		LANDSAT-7	N-GSO	N	PART	2	2607
110500103	USA		LDCM	N-GSO	N	PART	2	2744
95500068	USA		LEOTELCOM-1	N-GSO	N	PART	2	2593
101500556	USA		LEOTELCOM-3	N-GSO	N	PART	2	2593
107500413	USA		LRO	N-GSO	N	PART	2	2689
101500002	USA		MARS 2001 ORBITER	N-GSO	N	PART	2	2593
112500284	USA		MAVEN	N-GSO	N	PART	2	2747
102500024	USA		MESSENGER	N-GSO	N	PART	2	2593
94500313	USA		MICROLAB-1	N-GSO	N	PART	2	2593
110500294	USA		MMS	N-GSO	N	PART	2	2699
104500107	USA		MRO	N-GSO	N	PART	2	2584
108500627	USA		MSL	N-GSO	N	PART	2	2750
105500120	USA		MTI	N-GSO	N	PART	2	2607
90504609	USA		NAVSTAR GPS	N-GSO	N	PART	2	2593
103500110	USA		NAVSTAR GPS-IIRF	N-GSO	N	PART	2	2645
104500003	USA		NEW HORIZONS	N-GSO	N	PART	2	2589
112500158	USA		NIRIS	N-GSO	N	PART	2	2752
98500127	USA		NMP/EO-1	N-GSO	N	PART	2	2734
112500015	USA		NOAA N	N-GSO	N	PART	2	2741
102500348	USA		NOAA-KLM	N-GSO	N	PART	2	2613
110500216	USA		NPOESS	N-GSO	N	PART	2	2751
105500436	USA		NPP	N-GSO	N	PART	2	2734

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110500102	USA		NUSTAR	N-GSO	N	PART	2	2728
111500081	USA		OCO-2	N-GSO	N	PART	2	2708
112500199	USA		ORION	N-GSO	N	PART	2	2741
90504613	USA		OSCAR-7	N-GSO	N	PART	2	
90504614	USA		OSCAR-8	N-GSO	N	PART	2	
98500199	USA		P-197-1	N-GSO	N	PART	2	2613
95500118	USA		P92-1	N-GSO	N	PART	2	2593
95500119	USA		P92-2	N-GSO	N	PART	2	2593
90504615	USA		PAM	N-GSO	N	PART	2	2573
101500267	USA		PICASSO	N-GSO	N	PART	2	2594
90504617	USA		PIONEER-10	N-GSO	N	PART	2	2580
90504619	USA		PIONEER-6	N-GSO	N	PART	2	2580
98500027	USA		QUIKSCAT	N-GSO	N	PART	2	2594
109500198	USA		RBSP	N-GSO	N	PART	2	2731
90504632	USA		SAR	N-GSO	N	PART	2	2590
104500335	USA		SDO	N-GSO	N	PART	2	2669
102500307	USA		SIRTF	N-GSO	N	PART	2	2759
112500032	USA		SMAP	N-GSO	N	PART	2	2725
101500186	USA		SORCE	N-GSO	N	PART	2	2594
90504637	USA		SPACE SHUTTLE	N-GSO	N	PART	2	2608
90504855	USA		SPACE SHUTTLE EMU	N-GSO	N	PART	2	2573
90504854	USA		SPACE SHUTTLE EVA	N-GSO	N	PART	2	2573
98500029	USA		SPACE SHUTTLE SSCS	N-GSO	N	PART	2	2594
99500159	USA		SPOT-4(POAM)	N-GSO	N	PART	2	2451
90504642	USA		ST	N-GSO	N	PART	2	2595
90504858	USA		ST OMNI	N-GSO	N	PART	2	2595
104500386	USA		STEREO	N-GSO	N	PART	2	2586
95500357	USA		SWAS	N-GSO	N	PART	2	2594
101500156	USA		SWIFT	N-GSO	N	PART	2	2595
105500023	USA		THEMIS	N-GSO	N	PART	2	2605
110500129	USA		THEMIS-LUNAR	N-GSO	N	PART	2	2693
98500155	USA		TIMED	N-GSO	N	PART	2	2595
90504645	USA		TRANSIT	N-GSO	N	PART	2	
96500514	USA		TRMM	N-GSO	N	PART	2	2747
100500337	USA		USASAT-28C	N-GSO	N	PART	2	2633
95500460	USA		USASAT-30A	N-GSO	N	PART	2	2636
96500526	USA		USASAT-30B	N-GSO	N	PART	2	2613
103500092	USA		USASAT-30C	N-GSO	N	PART	2	2674
109500487	USA		USCLOUDSAT	N-GSO	N	PART	2	2677
105500620	USA		USCP	N-GSO	N	PART	2	2660
96500158	USA		USCSID-P	N-GSO	N	PART	2	2646
104500103	USA		USGGR-HEO	N-GSO	N	PART	2	2595
104500104	USA		USGGR-LEO	N-GSO	N	PART	2	2595
105500621	USA		USKL	N-GSO	N	PART	2	2636
111500097	USA		USKW	N-GSO	N	PART	2	2710
95500287	USA		USLL-HEO	N-GSO	N	PART	2	2596
95500288	USA		USLL-LEO	N-GSO	N	PART	2	2596

ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	ssn_ref	ssn_no	ific_no
109500266	USA		USNFR	N-GSO	N	PART	2	2673
98500254	USA		USPOL	N-GSO	N	PART	2	2596
106500268	USA		USTRO-1	N-GSO	N	PART	2	2608
108500600	USA		USYV	N-GSO	N	PART	2	2635
100500101	USA		VCL	N-GSO	N	PART	2	2596
90504648	USA		VOYAGER-1	N-GSO	N	PART	2	2573
90504649	USA		VOYAGER-2	N-GSO	N	PART	2	2573
107500411	USA		WISE	N-GSO	N	PART	2	2662
96500376	USA		XTE	N-GSO	N	PART	2	2691
112500202	VEN		VRSS-1	N-GSO	N	PART	2	2742
112540476	VTN		F-1 CUBESAT	N-GSO	A	API/A	7613	2735
113540137	VTN		PICO DRAGON CUBESAT	N-GSO	A	API/A	8366	2759
111500157	VTN		VNREDSAT-1	N-GSO	N	PART	2	2718
107500340	AFS		ZA-002	N-GSO	N	PART	2	2630

**ANNEXE 2**

**Appendices 30 et 30A - Liste des réseaux a satellite géostationnaire du Service de Radiodiffusion par Satellite (SRS) et de ses liaisons de connexion associées communiqués et publiés en application des dispositions de l'Article 4 des Appendices 30 et 30A**

(Classement par administration et nom de satellite)

ntc_id	adm	ntwk_org	sat_name	long_nom
113552013	ALG		ALGBSAT-24.8W	-24.8
113554013	ALG		ALGBSAT-24.8W	-24.8
105552007	ARS	ARB	ARABSAT BSS 6F	44.5
105554007	ARS	ARB	ARABSAT BSS 6F	44.5
111552001	ARS	ARB	ARABSAT BSS-26E	26
111554001	ARS	ARB	ARABSAT BSS-26E	26
100551015	ARS	ARB	ARABSAT-BSS1	26
100551030	ARS	ARB	ARABSAT-BSS1	26
100551614	ARS	ARB	ARABSAT-BSS1	26
100551625	ARS	ARB	ARABSAT-BSS1	26
100552003	ARS	ARB	ARABSAT-BSS1A	26
100554003	ARS	ARB	ARABSAT-BSS1A	26
100552004	ARS	ARB	ARABSAT-BSS1B	26
100554004	ARS	ARB	ARABSAT-BSS1B	26
109552017	ARS	ARB	ARABSAT-VB17E	17
109554017	ARS	ARB	ARABSAT-VB17E	17
106552003	ARS	ARB	ARABSAT-VB26E	26
106554003	ARS	ARB	ARABSAT-VB26E	26
112552009	ARS	ARB	ARABSAT-VB34E	34
112554009	ARS	ARB	ARABSAT-VB34E	34
104552007	AUS		AUSSAT C 156E BSS	156
104554003	AUS		AUSSAT C 156E BSS	156
110552004	AUS		AUSSAT E 160E BSS	160
110554004	AUS		AUSSAT E 160E BSS	160
110555005	B		B-SAT-3A-1	-45.1
112555001	B		B-SAT-3A-2	-44.9
113555003	B		B-SAT-3A-3	-45.1
110555004	B		B-SAT-3C	-70
112555003	B		B-SAT-3Q	-61
113552010	BGD		BANGSAT-74E-B	74
113554010	BGD		BANGSAT-74E-B	74
111555008	BOL		BOLSAT BSS	-87.2
113552018	BUL		BULSAT-BSS-1.2W	-1.2
113554018	BUL		BULSAT-BSS-1.2W	-1.2
110552025	BUL		BULSAT-BSS-1.2W-W	1.9
110554025	BUL		BULSAT-BSS-1.2W-W	1.9
112552007	BUL		BULSAT-BSS-1.2W-W	1.9
96555002	CAN		CAN-BSS1	-82
113555001	CAN		CAN-BSS1AM	-82
106555001	CAN		CAN-BSS1X	-82

ntc_id	adm	ntwk_org	sat_name	long_nom
96555003	CAN		CAN-BSS2	-91.1
113555002	CAN		CAN-BSS2AM	-91.1
106555002	CAN		CAN-BSS2X	-91.1
96555010	CAN		CAN-BSS3	-72.7
96555007	CAN		CAN-BSS4	-129
109555001	CAN		CAN-BSS57 (138W)	-138
103555006	CAN		CAN-BSS6	-72.7
105555004	CAN		CAN-BSS7	-129
96552001	CHN		ASIASAT-ABS	122
109552019	CHN		ASIASAT-BSS-C1	105.5
113552028	CHN		ASIASAT-BSS-C2	105.5
113552027	CHN		ASIASAT-BSS-E2	100.5
98552002	CHN		ASIASAT-DTH-A	122
104552014	CHN		ASIASAT-DTH-A1	122.2
104554014	CHN		ASIASAT-DTH-A1	122.2
112552011	CHN		CHNBSAT-101.4E	101.4
112554011	CHN		CHNBSAT-101.4E	101.4
112552014	CHN		CHNBSAT-125.7E	125.7
112554014	CHN		CHNBSAT-125.7E	125.7
111552023	CHN		CHNBSAT-134E	134
111554023	CHN		CHNBSAT-134E	134
111552022	CHN		CHNBSAT-62E	62
111554022	CHN		CHNBSAT-62E	62
103552005	CHN		CHNBSAT-92.2E	92.2
103554005	CHN		CHNBSAT-92.2E	92.2
109552020	CYP		KYPROS-SAT-4	39
109554020	CYP		KYPROS-SAT-4	39
110552005	D		EUROPE*STAR-BSS-45E	45
112554012	D		EUROPESTAR-45E-BSSA	45
100551033	E		HISPASAT 2U3	-30
100551040	E		HISPASAT 2U3	-30
100551606	E		HISPASAT 2U3	-30
100551628	E		HISPASAT 2U3	-30
111552002	E		HISPASAT-6A	-26
111554002	E		HISPASAT-6A	-26
111552019	E		HISPASAT-7A	-36
111554019	E		HISPASAT-7A	-36
99552001	EGY		NILESAT-102	-7
99554001	EGY		NILESAT-102	-7
105552004	EGY		NILESAT-103	-7
105554004	EGY		NILESAT-103	-7
100551013	EGY		NILESAT-1S	-7
100551613	EGY		NILESAT-1S	-7
112555008	F		ASAT BSS W090	-90
113552012	F		AST-BSS-65.45E	65.45
113554012	F		AST-BSS-65.45E	65.45
113555008	F		CD-SAT BSS 123.1W	-123.1
97552010	F	EUT	EUTELSAT B-10E	10



ntc_id	adm	ntwk_org	sat_name	long_nom
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
109552031	F		F-SAT-E-BSS-12W	-12
109554031	F		F-SAT-E-BSS-12W	-12
111552010	F		F-SAT-E-BSS-13E	13
111554010	F		F-SAT-E-BSS-13E	13
113552024	F		F-SAT-E-BSS-152E	152
113554024	F		F-SAT-E-BSS-152E	152
109552035	F		F-SAT-E-BSS-16E	16
109554035	F		F-SAT-E-BSS-16E	16
113552023	F		F-SAT-E-BSS-172E	172
113554023	F		F-SAT-E-BSS-172E	172
109552032	F		F-SAT-E-BSS-18W	-18
109554032	F		F-SAT-E-BSS-18W	-18
113555004	F		F-SAT-E-BSS-53W	-53
109552004	F		F-SAT-E-BSS-70.5E	70.5
109554004	F		F-SAT-E-BSS-70.5E	70.5
109552005	F		F-SAT-E-BSS-73.5E	73.5
109554005	F		F-SAT-E-BSS-73.5E	73.5
109552006	F		F-SAT-E-BSS-76E	76
109554006	F		F-SAT-E-BSS-76E	76
105552012	F		F-SAT-E-BSS-7W	-7
105554012	F		F-SAT-E-BSS-7W	-7
109552007	F		F-SAT-E-BSS-80.5E	80.5
109554007	F		F-SAT-E-BSS-80.5E	80.5
109552008	F		F-SAT-E-BSS-83.5E	83.5
109554008	F		F-SAT-E-BSS-83.5E	83.5
113555005	F		F-SAT-E-BSS-84W	-84
109552009	F		F-SAT-E-BSS-86E	86
109554009	F		F-SAT-E-BSS-86E	86
109552010	F		F-SAT-E-BSS-88.5E	88.5
109554010	F		F-SAT-E-BSS-88.5E	88.5
113555007	F		F-SAT-E-BSS-88W	-88
100551034	F		RADIOSAT-5-5A	-7
100551629	F		RADIOSAT-5-5A	-7

ntc_id	adm	ntwk_org	sat_name	long_nom
97552056	F		RADIOSAT-5C	-7
97554058	F		RADIOSAT-5C	-7
103552010	G		AM-SAT AF3 BSS	51
103554010	G		AM-SAT AF3 BSS	51
109552024	G		AM-SAT AF3 BSS MOD-A	51
109554024	G		AM-SAT AF3 BSS MOD-A	51
105555002	G		BERMUDASAT-1	-96.2
96552021	G		INTELSAT KUEXT 157E	157
96555016	G		INTELSAT KUEXT 304.5	-55.5
97555003	G		INTELSAT KUEXT 304.5	-55.5
98555008	G		INTELSAT KUEXT 304.5	-55.5
96552015	G		INTELSAT KUEXT 60E	60
96552018	G		INTELSAT KUEXT 66E	66
105552013	G		INTELSAT KUEXT 66E	66
111555002	G		IOMSAT-S21	-86.45
111555003	G		IOMSAT-S22	-76.9
113552025	G		UKBSS-18W	-18
113554025	G		UKBSS-18W	-18
113552026	G		UKBSS-34.5W	-34.5
113554026	G		UKBSS-34.5W	-34.5
112555009	G		UKBSS-50W	-50
107552002	G		UKDIGISAT-4A	-33.5
107554002	G		UKDIGISAT-4A	-33.5
110552007	G		UKDIGISAT-4B	-33.5
110554007	G		UKDIGISAT-4B	-33.5
112552004	G		UKPAC BSS-1	172
110552003	G		USAT-148E	148
110554003	G		USAT-148E	148
111555006	G		USAT-64W	-64
112555005	G		USAT-67W	-67
112555004	G		USAT-86.5W	-86.5
109555002	G		USAT-S1 MOD-B	-105.5
109555006	G		USAT-S2 MOD-B	-114.5
106555007	G		USAT-S3 MOD-C	-86.5
106555011	G		USAT-S3 MOD-D	-86.5
109555003	G		USAT-S4 MOD-A	-68.5
109555008	G		USAT-S4 MOD-B	-68.5
109555007	G		USAT-S5 MOD-A	-66.3
106555003	G		USAT-S8	-133.5
107552017	GRC		GRC15002	39
107554017	GRC		GRC15002	39
111555001	HOL		BSSNET3-95W	-95.15
113555006	HOL		BSSNET3A-95W	-95.15
110552014	HOL		NSS-BSS 100E	100
110554014	HOL		NSS-BSS 100E	100
111552004	HOL		NSS-BSS 104E	104
111554004	HOL		NSS-BSS 104E	104
108552010	HOL		NSS-BSS 108.2E	108.2

ntc_id	adm	ntwk_org	sat_name	long_nom
108554010	HOL		NSS-BSS 108.2E	108.2
108552013	HOL		NSS-BSS 113.5E	113.5
108554013	HOL		NSS-BSS 113.5E	113.5
111552018	HOL		NSS-BSS 113E	113
111554018	HOL		NSS-BSS 113E	113
109555005	HOL		NSS-BSS 125W	-125
110552002	HOL		NSS-BSS 130E	130
110554002	HOL		NSS-BSS 130E	130
110552010	HOL		NSS-BSS 134E	134
110554010	HOL		NSS-BSS 134E	134
110552008	HOL		NSS-BSS 142E	142
110554008	HOL		NSS-BSS 142E	142
107555002	HOL		NSS-BSS 143.5W	-143.5
112552016	HOL		NSS-BSS 40.5W	-40.5
112554016	HOL		NSS-BSS 40.5W	-40.5
112552015	HOL		NSS-BSS 47.5W	-47.5
112554015	HOL		NSS-BSS 47.5W	-47.5
112555010	HOL		NSS-BSS 47.5W	-47.5
109552013	HOL		NSS-BSS 50.75E	50.75
109554013	HOL		NSS-BSS 50.75E	50.75
110552013	HOL		NSS-BSS 57E	57
110554013	HOL		NSS-BSS 57E	57
110555002	HOL		NSS-BSS 58W	-58
106555005	HOL		NSS-BSS 59W	-59
106555004	HOL		NSS-BSS 78W	-78
109552012	HOL		NSS-BSS 95E	95
109554012	HOL		NSS-BSS 95E	95
111552034	HOL		NSS-BSS-G2 108.2E	108.2
111554034	HOL		NSS-BSS-G2 108.2E	108.2
110555003	HOL		NSS-BSS-G2 78W	-78
113552009	HOL		NSS-BSS-G2 95E	95
113554009	HOL		NSS-BSS-G2 95E	95
109552033	I		INTERACT	9
109554033	I		INTERACT	9
113552008	IND		INSAT-KUP-BSS(111.5)	111.5
113554008	IND		INSAT-KUP-BSS(111.5)	111.5
113552002	IND		INSAT-KUP-BSS(48E)	48
113554002	IND		INSAT-KUP-BSS(48E)	48
113552015	IND		INSAT-KUP-BSS(55.8E)	55.8
113554015	IND		INSAT-KUP-BSS(55.8E)	55.8
113552003	IND		INSAT-KUP-BSS(55E)	55
113554003	IND		INSAT-KUP-BSS(55E)	55
113552016	IND		INSAT-KUP-BSS(68E)	68
113554016	IND		INSAT-KUP-BSS(68E)	68
113552004	IND		INSAT-KUP-BSS(74E)	74
113554004	IND		INSAT-KUP-BSS(74E)	74
113552005	IND		INSAT-KUP-BSS(82.5E)	82.5
113554005	IND		INSAT-KUP-BSS(82.5E)	82.5

ntc_id	adm	ntwk_org	sat_name	long_nom
113552006	IND		INSAT-KUP-BSS(83E)	83
113554006	IND		INSAT-KUP-BSS(83E)	83
113552007	IND		INSAT-KUP-BSS(93.5E)	93.5
113554007	IND		INSAT-KUP-BSS(93.5E)	93.5
109552001	IRN		IRANDBS2	34
109552002	IRN		IRANDBS2	34
109552003	IRN		IRANDBS2	34
109554001	IRN		IRANDBS2	34
109554002	IRN		IRANDBS2	34
109554003	IRN		IRANDBS2	34
96552042	IRN		IRNDBS-2	26
96554047	IRN		IRNDBS-2	26
112552028	ISR		AMS-BSS-137E	137
112554028	ISR		AMS-BSS-137E	137
111552003	ISR		AMS-BSS-17E	17
111554003	ISR		AMS-BSS-17E	17
111552012	ISR		AMS-BSS-23E	23
111554012	ISR		AMS-BSS-23E	23
111552021	ISR		AMS-BSS-26W	-26
111554021	ISR		AMS-BSS-26W	-26
111552031	ISR		AMS-BSS-33W	-33
111554031	ISR		AMS-BSS-33W	-33
111552030	ISR		AMS-BSS-43E	43
111554030	ISR		AMS-BSS-43E	43
108552008	ISR		AMS-BSS-4W	-4
108554008	ISR		AMS-BSS-4W	-4
108552009	ISR		AMS-BSS-65E	65
108554009	ISR		AMS-BSS-65E	65
111552024	ISR		AMS-BSS-B1-4W	-4
111554024	ISR		AMS-BSS-B1-4W	-4
113552022	ISR		AMS-BSS-B2-4W	-4
112552013	ISR		AMS-BSS-C1-65E	65
112554013	ISR		AMS-BSS-C1-65E	65
102552002	J		NB-SAT-109.85AA	109.85
102552005	J		NB-SAT-109.85AA	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
111552006	J		NB-SAT-128E	128
111554006	J		NB-SAT-128E	128
100552056	J		TAIKI-109.65-34.5	109.65
100554048	J		TAIKI-109.65-34.5	109.65
111552013	KOR		KOREASAT-116E BSS	116
111554013	KOR		KOREASAT-116E BSS	116
100551014	KOR		KOREASAT-2	113
100551401	KOR		KOREASAT-2	113
96552029	KOR		KOREASAT-3	116

ntc_id	adm	ntwk_org	sat_name	long_nom
96554029	KOR		KOREASAT-3	116
100551029	LAO		LSTAR4B	126
100551623	LAO		LSTAR4B	126
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
106552001	LUX		DBL-G3-21.5E	21.5
106554001	LUX		DBL-G3-21.5E	21.5
104552004	LUX		DBL-G3-23.5E	23.5
104554005	LUX		DBL-G3-23.5E	23.5
104552005	LUX		DBL-G3-28.2E	28.2
104554006	LUX		DBL-G3-28.2E	28.2
104552006	LUX		DBL-G3-31.5E	31.5
104554007	LUX		DBL-G3-31.5E	31.5
109552016	LUX		DBL-G4-16E	16
109554016	LUX		DBL-G4-16E	16
107552010	LUX		DBL-G4-19.2E	19.2
109552026	LUX		DBL-G4-20W	-20
109554026	LUX		DBL-G4-20W	-20
107552011	LUX		DBL-G4-21.5E	21.5
107552012	LUX		DBL-G4-23.5E	23.5
107552009	LUX		DBL-G4-24W	-24
107554009	LUX		DBL-G4-24W	-24
107552013	LUX		DBL-G4-28.2E	28.2
107552014	LUX		DBL-G4-31.5E	31.5
107554014	LUX		DBL-G4-31.5E	31.5
108552014	LUX		DBL-G4-31E	31
108554014	LUX		DBL-G4-31E	31
107552008	LUX		DBL-G4-37.2W	-37.2
107554008	LUX		DBL-G4-37.2W	-37.2
109552027	LUX		DBL-G4-42E	42
109554027	LUX		DBL-G4-42E	42
109552028	LUX		DBL-G4-47E	47
109554028	LUX		DBL-G4-47E	47
111552027	LUX		DBL-G5-21.5E	21.5
110552030	LUX		DBL-G5-28.5E	28.5
110554030	LUX		DBL-G5-28.5E	28.5
111552008	LUX		DBL-G5-2E	2
111554008	LUX		DBL-G5-2E	2

ntc_id	adm	ntwk_org	sat_name	long_nom
111552016	LUX		DBL-G5-52.2E	52.2
111554016	LUX		DBL-G5-52.2E	52.2
111552007	LUX		DBL-G5-83E	83
111554007	LUX		DBL-G5-83E	83
111552020	LUX		DBL-G6-83E	83
111552032	MCO		MCO-BSS-2E	2
111554032	MCO		MCO-BSS-2E	2
105552009	MCO		MCO-BSS-52E	52
105554009	MCO		MCO-BSS-52E	52
109552034	MCO		MCO-BSS-52EA	52
109554034	MCO		MCO-BSS-52EA	52
111552011	MCO		MCO-BSS-52EAP	52
111554011	MCO		MCO-BSS-52EAP	52
96555004	MEX		MEX-TDH1	-77
106555010	MEX		QUETZSAT-77	-77
113552011	MLA		MEASAT-83.7E-BSS	83.7
113554011	MLA		MEASAT-83.7E-BSS	83.7
111552009	MLA		MEASAT-91.5E-BSS	91.5
111554009	MLA		MEASAT-91.5E-BSS	91.5
108552002	MNE		MNESAT	-24
108554002	MNE		MNESAT	-24
110554001	NOR		BIFROST-0.8W-BSS	-0.8
105552015	NOR		BIFROST-4W-BSS	-4
105554015	NOR		BIFROST-4W-BSS	-4
100551037	NOR		BIFROST-BSS-0.8W-EUR	-0.8
100551632	NOR		BIFROST-BSS-0.8W-EUR	-0.8
100551038	NOR		BIFROST-BSS-0.8W-GLO	-0.8
100551633	NOR		BIFROST-BSS-0.8W-GLO	-0.8
100551035	NOR		BIFROST-BSS-0.8W-NOR	-0.8
100551036	NOR		BIFROST-BSS-0.8W-NOR	-0.8
100551630	NOR		BIFROST-BSS-0.8W-NOR	-0.8
100551631	NOR		BIFROST-BSS-0.8W-NOR	-0.8
107552007	NOR		EOE-BSS-2007	-0.8
107552004	PAK		PAK12712	38
107554004	PAK		PAK12712	38
106552002	PAK		PAKSAT 1R-BSS-38E	38
107552006	PAK		PAKSAT-1R-BSS-38.2EA	38.2
107554006	PAK		PAKSAT-1R-BSS-38.2EA	38.2
107552005	PAK		PAKSAT-1R-BSS-38EA	38
107554005	PAK		PAKSAT-1R-BSS-38EA	38
112552003	PNG		AFRISAT BSS-3W	-3
112554003	PNG		AFRISAT BSS-3W	-3
112552010	PNG		NEW DAWN BSS-2	60
113554017	PNG		NEW DAWN BSS-2	60
112552020	PNG		NEW DAWN BSS-3	62
112554020	PNG		NEW DAWN BSS-3	62
112552021	PNG		NEW DAWN BSS-4	64
112554021	PNG		NEW DAWN BSS-4	64

ntc_id	adm	ntwk_org	sat_name	long_nom
112552022	PNG		NEW DAWN BSS-5	68.5
112554022	PNG		NEW DAWN BSS-5	68.5
113552019	PNG		NEW DAWN BSS-6	166
113554019	PNG		NEW DAWN BSS-6	166
113552020	PNG		NEW DAWN BSS-7	157
113554020	PNG		NEW DAWN BSS-7	157
112552018	PNG		PACIFISAT BSS-116.1E	116.1
112554018	PNG		PACIFISAT BSS-116.1E	116.1
111552015	PNG		PACIFISAT BSS-146.1E	146.1
111554015	PNG		PACIFISAT BSS-146.1E	146.1
111552014	PNG		PACIFISAT BSS-148.1E	148.1
111554014	PNG		PACIFISAT BSS-148.1E	148.1
110552011	PNG		PACIFISAT BSS-156E	156
110554011	PNG		PACIFISAT BSS-156E	156
110552012	PNG		PACIFISAT BSS-159E	159
110554012	PNG		PACIFISAT BSS-159E	159
111552005	PNG		PACIFISAT BSS-59E	59
111554005	PNG		PACIFISAT BSS-59E	59
110552023	PNG		PACIFISAT BSS-61E	61
110554023	PNG		PACIFISAT BSS-61E	61
110552019	PNG		PACIFISAT BSS-63E	63
110554019	PNG		PACIFISAT BSS-63E	63
110552020	PNG		PACIFISAT BSS-65E	65
110554020	PNG		PACIFISAT BSS-65E	65
110552021	PNG		PACIFISAT BSS-67E	67
110554021	PNG		PACIFISAT BSS-67E	67
110552022	PNG		PACIFISAT BSS-70E	70
110554022	PNG		PACIFISAT BSS-70E	70
112552005	PNG		PACIFISAT BSSA-59E	59
112552006	PNG		PACIFISAT BSSA-61E	61
109552011	PNG		PACIFISAT-B-1	75
109554011	PNG		PACIFISAT-B-1	75
111552028	QAT		QATARSAT1-BSS-7W	-7
111554028	QAT		QATARSAT1-BSS-7W	-7
111552033	QAT		QATARSAT3-BSS-20E	20
111554033	QAT		QATARSAT3-BSS-20E	20
113552014	QAT		QATARSAT-BSS-135.5E	135.5
113554014	QAT		QATARSAT-BSS-135.5E	135.5
110552029	RUS		AMG-23E-BSS	23
110552018	RUS	IK	INTERSPUTNIK-119E-B	119.1
110554018	RUS	IK	INTERSPUTNIK-119E-B	119.1
109552021	RUS	IK	INTERSPUTNIK-16W-B	-16
109554021	RUS	IK	INTERSPUTNIK-16W-B	-16
108552003	RUS	IK	INTERSPUTNIK-17E-B	17
108554003	RUS	IK	INTERSPUTNIK-17E-B	17
110552017	RUS	IK	INTERSPUTNIK-26W-B	-26
110554017	RUS	IK	INTERSPUTNIK-26W-B	-26
108552006	RUS	IK	INTERSPUTNIK-47.5W-B	-47.5

ntc_id	adm	ntwk_org	sat_name	long_nom
108554006	RUS	IK	INTERSPUTNIK-47.5W-B	-47.5
108555002	RUS	IK	INTERSPUTNIK-47.5W-B	-47.5
108552007	RUS	IK	INTERSPUTNIK-50.5E-B	50.5
108554007	RUS	IK	INTERSPUTNIK-50.5E-B	50.5
107552020	RUS	IK	INTERSPUTNIK-74.9E-B	74.9
107554020	RUS	IK	INTERSPUTNIK-74.9E-B	74.9
112552008	RUS	IK	INTERSPUTNIK-74.9EB2	74.9
112554008	RUS	IK	INTERSPUTNIK-74.9EB2	74.9
109552023	RUS	IK	INTERSPUTNIK-78E-B	78
109554023	RUS	IK	INTERSPUTNIK-78E-B	78
109552022	RUS	IK	INTERSPUTNIK-9.5W-B	-9.5
109554022	RUS	IK	INTERSPUTNIK-9.5W-B	-9.5
111555007	RUS	IK	INTERSPUTNIK-97.8W-B	-97.8
109552029	RUS	IK	INTERSPUTNIK-98.5E-B	98.5
109554029	RUS	IK	INTERSPUTNIK-98.5E-B	98.5
100551016	RUS		RST-1	36
100551615	RUS		RST-1	36
108552011	RUS		RST-1A	36
108554011	RUS		RST-1A	36
112554026	RUS		RST-1A	36
100551017	RUS		RST-2	56
100551616	RUS		RST-2	56
108552012	RUS		RST-2A	56
108554012	RUS		RST-2A	56
94552001	RUS		RST-4	110
94554001	RUS		RST-4	110
95552009	S		SIRIUS-13W	-13
95554011	S		SIRIUS-13W	-13
95554057	S		SIRIUS-13W	-13
107552001	S		SIRIUS-13W-BSS	-13
107554001	S		SIRIUS-13W-BSS	-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
105552016	S		SIRIUS-4.8E-BSS-2	4.8
100551039	S		SIRIUS-4-BSS	5
104552001	S		SIRIUS-5-BSS	4.8
104554001	S		SIRIUS-5-BSS	4.8
107554018	S		SIRIUS-5E-BSS	5
111552017	S		SIRIUS-7-BSS	4.8
111554017	S		SIRIUS-7-BSS	4.8
100551008	S		SIRIUS-W	-13
100551607	S		SIRIUS-W	-13
100551024	TUR		TURKSAT-BSS	42
100551619	TUR		TURKSAT-BSS	42
112552030	TUR		TURKSAT-BSS-42E	42
112554030	TUR		TURKSAT-BSS-42E	42



ntc_id	adm	ntwk_org	sat_name	long_nom
111552026	TUR		TURKSAT-BSS-50E	50
106552004	UAE		EMARSAT-1	52.5
106554004	UAE		EMARSAT-1	52.5
109552036	UAE		YAHSAT-BSS-110.8E	110.8
109554036	UAE		YAHSAT-BSS-110.8E	110.8
109552018	UAE		YAHSAT-BSS-20W	-20
109554018	UAE		YAHSAT-BSS-20W	-20
111552029	UAE		YAHSAT-BSS2-46E	46
111554029	UAE		YAHSAT-BSS2-46E	46
112552017	UAE		YAHSAT-BSS2-57E	57
112554017	UAE		YAHSAT-BSS2-57E	57
110552028	UAE		YAHSAT-BSS2-60E	60
110554028	UAE		YAHSAT-BSS2-60E	60
112552019	UAE		YAHSAT-BSS2-63E	63
112554019	UAE		YAHSAT-BSS2-63E	63
112552029	UAE		YAHSAT-BSS2-67.5E	67.5
112554029	UAE		YAHSAT-BSS2-67.5E	67.5
110552024	UAE		YAHSAT-BSS-33W	-33
107552015	UAE		YAHSAT-BSS-46E	46
107554015	UAE		YAHSAT-BSS-46E	46
109552030	UAE		YAHSAT-BSS-52.5E	52.5
109554030	UAE		YAHSAT-BSS-52.5E	52.5
107552019	UAE		YAHSAT-BSS-57E	57
107554019	UAE		YAHSAT-BSS-57E	57
107552016	UAE		YAHSAT-BSS-60E	60
107554016	UAE		YAHSAT-BSS-60E	60
108552004	UAE		YAHSAT-BSS-63E	63
108554004	UAE		YAHSAT-BSS-63E	63
108552001	UAE		YAHSAT-BSS-67.5E	67.5
108554001	UAE		YAHSAT-BSS-67.5E	67.5
108552015	UKR		UKRSAT-BSS-38.2E-G-1	38.2
108554015	UKR		UKRSAT-BSS-38.2E-G-1	38.2
110552015	UKR		UKRSAT-BSS-38.2E-G-2	38.2
110554015	UKR		UKRSAT-BSS-38.2E-G-2	38.2
95555003	USA		USABSS-1	-101.2
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

<b>ntc_id</b>	<b>adm</b>	<b>ntwk_org</b>	<b>sat_name</b>	<b>long_nom</b>
106555009	USA		USABSS-26	-110
112555002	USA		USABSS-26	-110
107555001	USA		USABSS-27	-86.5
107552003	USA		USABSS-29	85.15
95555005	USA		USABSS-2A	-100.85
96555006	USA		USABSS-3	-119.2
98555006	USA		USABSS-3	-119.2
108555003	USA		USABSS-30	-110
109555004	USA		USABSS-31	-119
109552015	USA		USABSS-32	50.75
110555001	USA		USABSS-33	-61.5
110552006	USA		USABSS-34	-31.5
110552009	USA		USABSS-35	-29.5
111555004	USA		USABSS-36	-110.1
112555006	USA		USABSS-37	-61.5
112552027	USA		USABSS-38	72
96555013	USA		USABSS-4	-118.8
98555004	USA		USABSS-4	-118.8
98555007	USA		USABSS-4	-118.8
97555001	USA		USABSS-5	-109.8
97555002	USA		USABSS-6	-110.2
101555001	USA		USABSS-7A	-119
98555001	USA		USABSS-8	-61.5
98555002	USA		USABSS-9	-148

**ANNEXE 3**

**Appendice 30B - Liste des réseaux à satellite géostationnaire du Service Fixe par Satellite (SFS) communiqués et publiés en application des dispositions des Articles 6 et 7 de l'Appendice 30B**

(Classement par administration et nom de satellite)

<b>ntc_id</b>	<b>adm</b>	<b>ntwk_org</b>	<b>sat_name</b>	<b>long_nom</b>
112559046	ALG		ALGFSAT-33.5W	-33.50
99558001	ARM		ARM00000	71.40
112559037	ARM		ARMSAT-30B-71.4E	71.40
112559052	ARS	ARB	ARABSAT-AX26E	26.00
110559019	ARS	ARB	ARABSAT-AXB14W	-14.00
109559012	ARS	ARB	ARABSAT-AXB17E	17.00
107559003	ARS	ARB	ARABSAT-AXB20E	20.00
107559004	ARS	ARB	ARABSAT-AXB26E	26.00
112559017	ARS	ARB	ARABSAT-AXB26E	26.00
112559019	ARS	ARB	ARABSAT-AXB30.5E	30.50
105559001	ARS	ARB	ARABSAT-AXB30E	30.90
108559001	ARS	ARB	ARABSAT-AXB30E	30.90
111559008	ARS	ARB	ARABSAT-AXB34.25E	34.25
110559038	ARS	ARB	ARABSAT-AXB34.5E	34.50
112559054	ARS	ARB	ARABSAT-AXB34E	34.00
113559028	ARS	ARB	ARABSAT-AXB39E	39.00
107559005	ARS	ARB	ARABSAT-AXB44.5E	44.50
105558001	AZE		AZE00000	96.00
112559056	B		B 00011	-65.00
112559055	B		B 00022	-56.50
112559028	B		B-SAT-3I	-63.00
112559044	B		B-SAT-3K	-69.45
112559042	B		B-SAT-3M	-56.50
112559043	B		B-SAT-3R	-65.00
112559030	BGD		BANGSAT-30B-133E-A	133.00
112559031	BGD		BANGSAT-30B-133E-B	133.00
111559046	BGD		BANGSAT-30B-69E	69.00
106558001	BLR		BLR00000	64.40
110559032	BLR		BLR-FSS-51.5E	51.50
111559043	BLR		BLR-SAT-FSS-64.4E	64.40
113559019	BLR		BLR-SAT-FSS-64.4E	64.40
110559004	BLR		BTS-1-30B	64.40
105559017	BUL		BULSAT-30B	56.02
107559002	CAN		CANSAT-23-30B	-107.30
105559066	CAN		CANSAT-24-30B	-111.10
107559007	CAN		CANSAT-24X-30B	-111.10
92559006	CAN		MSAT	-106.50

ntc_id	adm	ntwk_org	sat_name	long_nom
94559014	CAN		MSAT	-106.50
112559001	CHN		ASIASAT-30B-120	120.00
112559002	CHN		ASIASAT-30B-122	122.00
105559060	CHN		ASIASAT-30B-A	122.20
105559061	CHN		ASIASAT-30B-A1	122.20
105559062	CHN		ASIASAT-30B-C	105.50
105559063	CHN		ASIASAT-30B-C1	105.50
105559064	CHN		ASIASAT-30B-E	100.50
105559065	CHN		ASIASAT-30B-E1	100.50
112559004	CHN		CHINASAT-30B-110.5E	110.50
112559005	CHN		CHINASAT-30B-115.5E	115.50
112559006	CHN		CHINASAT-30B-125E	125.00
112559034	CHN		CHINASAT-30B-126E	126.00
112559033	CHN		CHINASAT-30B-8.5W	-8.50
112559003	CHN		CHINASAT-30B-87.5E	87.50
105559021	CHN		CHINASAT-FSS3	125.00
111559005	CHN		CHINASAT-FSS-51.5E	51.50
105559041	CHN		CHINASAT-FSS7	134.00
105559040	CHN		CHNAP30B-130E	130.00
105559042	CHN		CHNAP30B-85E	85.00
105559043	CHN		CHNAP30B-97.5E	97.50
105559044	CHN		CHNFSS-110.5E	110.50
112559012	CHN		ITS-30B-13.5	13.50
103559025	CTI	RAS	RASCOM-1F	2.90
102559002	CTI	RAS	RASCOM-2F	2.90
109559005	CYP		CYP-30B-59.7E	59.70
110559005	CYP		CYP-30B-59.7E-2	59.70
110559018	CYP		KYPROS-SAT-3	39.00
108558002	CZE		CZE00000	-31.90
113559024	E		HISPASAT-11A	45.00
99559004	E		HISPASAT-1C	-30.00
107559010	E		HISPASAT-1E	-30.00
111559044	E		HISPASAT-1E-M	-30.00
111559034	E		HISPASAT-5A	-47.50
111559031	E		HISPASAT-6A	-26.00
111559024	E		HISPASAT-7A	-36.00
111559032	E		HISPASAT-8A	-97.50
111559036	E		HISPASAT-9A	-74.00
112559029	F		ASAT FSS W090	-90.00
111559018	F		ASAT FSS W092	-92.00
111559019	F		ASAT FSS W094	-94.00
113559025	F		CD-SAT 105.2E REV	105.20
113559015	F		CD-SAT FSS 105.2E	105.20
110559007	F		DUNIA-2-FSS-PLAN	8.00
103559014	F		F-SAT-30B	9.00

ntc_id	adm	ntwk_org	sat_name	long_nom
103559014	F		F-SAT-30B	9.00
106559003	F		F-SAT-E-30B-110E	110.00
113559010	F		F-SAT-E-30B-115.9W	-115.90
106559005	F		F-SAT-E-30B-120W	-120.00
113559031	F		F-SAT-E-30B-120W	-120.00
111559011	F		F-SAT-E-30B-13E	13.00
112559039	F		F-SAT-E-30B-16E	16.00
112559053	F		F-SAT-E-30B-172E	172.00
105559027	F		F-SAT-E-30B-21.5E	21.50
113559032	F		F-SAT-E-30B-25.5E	25.50
113559027	F		F-SAT-E-30B-28.5E	28.50
111559001	F		F-SAT-E-30B-33E	33.00
111559015	F		F-SAT-E-30B-48.2E	48.20
110559033	F		F-SAT-E-30B-53E	53.00
106559009	F		F-SAT-E-30B-61W	-61.00
111559030	F		F-SAT-E-30B-61W	-61.00
110559013	F		F-SAT-E-30B-70.5E	70.50
110559012	F		F-SAT-E-30B-73.5E	73.50
105559006	F		F-SAT-E-30B-7W	-7.00
110559011	F		F-SAT-E-30B-80.5E	80.50
110559010	F		F-SAT-E-30B-83.5E	83.50
110559009	F		F-SAT-E-30B-86E	86.00
110559008	F		F-SAT-E-30B-88.5E	88.50
112559021	F		F-SAT-E-30B-8W	-8.00
113559030	F		F-SAT-E-30B-9E	9.00
101559043	F		GEOSAT-30B	-7.00
111559013	F		MM FSS 10.25W	-10.25
111559014	F		MM FSS 55.2W	-55.20
99559005	F		TELECOM-30B	-8.00
101559020	F	EUT	EUTELSAT EXB-10E	10.00
105559002	F	EUT	EUTELSAT EXB-12.5W	-12.50
97559001	F	EUT	EUTELSAT EXB-13E	13.00
106559002	F	EUT	EUTELSAT EXB-13E	13.00
101559001	F	EUT	EUTELSAT EXB-16E	16.00
101559002	F	EUT	EUTELSAT EXB-28.5E	28.50
101559014	F	EUT	EUTELSAT EXB-33E	33.00
105559003	F	EUT	EUTELSAT EXB-36E	36.00
101559008	F	EUT	EUTELSAT EXB-37.2W	13.00
101559016	F	EUT	EUTELSAT EXB-48E	48.00
101559010	F	EUT	EUTELSAT EXB-64W	-61.00
107559020	F	EUT	EUTELSAT EXB-64W	-61.00
101559009	F	EUT	EUTELSAT EXB-64W_C	-61.00
100559012	F	EUT	EUTELSAT EXB-70.5E	70.50
100559012	F	EUT	EUTELSAT EXB-70.5E	70.50
101559022	F	EUT	EUTELSAT EXB-70.5E	70.50

ntc_id	adm	ntwk_org	sat_name	long_nom
106559004	F	EUT	EUTELSAT EXB-70.5E	70.50
100559003	F	EUT	EUTELSAT EXB-7E	7.00
101559042	F	EUT	EUTELSAT EXB-7E	7.00
106559007	F	EUT	EUTELSAT EXB-7E	7.00
113559014	G		IOMSAT-138E-B	138.00
113559001	G		IOMSAT-15W-B	-15.00
111559040	G		IOMSAT-45W	-45.00
113559007	G		IOMSAT-63W-B	-63.00
109559003	G		MSV-42A-30B-DN	42.00
109559023	G		MSV-42A-30B-UP	42.00
109559004	G		MSV-42B-30B-DN	42.00
109559024	G		MSV-42B-30B-UP	42.00
107559008	G		MSV-46A-30B	46.00
109559011	G		MSV-46B-30B	46.00
112559018	G		UKMMSAT-A4	-33.50
108559011	GRC		HELLAS-SAT-3G	39.00
97559002	HNG		CERES-1	-4.00
106559008	HNG		CERES-1	-4.00
112559045	HNG		CERES-1	-4.00
90558100	HNG		HNG00000	-7.50
112559035	HOL		NSS-FSS 105W	-105.00
108559004	HOL		NSS-FSS 108.2E	108.20
111559002	HOL		NSS-FSS 130E	130.00
111559003	HOL		NSS-FSS 142E	142.00
107559031	HOL		NSS-FSS 22W	-22.00
112559048	HOL		NSS-FSS 37.5W	-37.50
108559003	HOL		NSS-FSS 40.5W	-40.50
112559049	HOL		NSS-FSS 47.5W	-47.50
107559030	HOL		NSS-FSS 57E	57.00
113559003	HOL		NSS-FSS 77W	-77.00
107559029	HOL		NSS-FSS 95E	95.00
113559004	HOL		NSS-FSS-G2 22W	-22.00
111559037	HOL		NSS-FSS-G2 40.5W	-40.50
113559005	HOL		NSS-FSS-G2 57E	57.00
111559033	HOL		NSS-FSS-G2 95E	95.00
108559009	IND		ESSELSAT-2	98.50
107559011	IND		IND00000	74.00
89559001	IND		INSAT-2A	83.00
89559002	IND		INSAT-2B	93.50
89559003	IND		INSAT-2C	74.00
113559016	IND		INSAT-EXC(48E)	48.00
113559020	IND		INSAT-EXC(82E)	82.00
113559021	IND		INSAT-EXC(83E)	83.00
107559016	IND		INSAT-EXC-114E	114.00
107559012	IND		INSAT-EXC-40.5E	40.50

ntc_id	adm	ntwk_org	sat_name	long_nom
107559013	IND		INSAT-EXC-49E	49.00
113559018	IND		INSAT-EXC55E	55.00
107559014	IND		INSAT-EXC-59.1E	59.10
107559015	IND		INSAT-EXC-67E	67.00
109559006	IND		INSAT-EXK82.5E	82.50
112559027	IRN		IRN-30B-34E	34.00
95559001	ISR		AMOS-II 4W	-4.00
112559051	ISR		AMS-30B-137E	137.00
110559017	ISR		AMS-30B-17E	17.00
111559009	ISR		AMS-30B-23E	23.00
111559022	ISR		AMS-30B-26W	-26.00
111559038	ISR		AMS-30B-33W	-33.00
111559039	ISR		AMS-30B-43E	43.00
110559024	ISR		AMS-30B-4W	-4.00
109559008	ISR		AMS-30B-65E	65.00
111559045	ISR		AMS-30B-82.5E	82.50
110559021	ISR		AMS-30B-C-65E	65.00
104558002	KAZ		KAZ00000	58.50
110559035	KAZ		KAZSAT-30B-58.5E	58.50
97558001	KGZ		KGZ00000	64.60
113559013	LAO		LAOSAT-FSS-128.5E	128.50
111558001	LBY		LBY0000	28.90
107558001	LTU		LTU00000	-9.30
90558513	LUX		GDL-6	19.20
90559004	LUX		GDL-6	19.20
91559001	LUX		GDL-6	19.20
92559003	LUX		GDL-6	19.20
93559001	LUX		GDL-6	19.20
95559003	LUX		GDL-6	19.20
103559010	LUX		LUX-30B-5	19.20
103559011	LUX		LUX-30B-6	23.50
103559012	LUX		LUX-30B-7	28.20
105559035	LUX		LUX-30B-G3-13E	13.00
105559036	LUX		LUX-30B-G3-16E	16.00
105559028	LUX		LUX-30B-G3-19.2E	19.20
105559029	LUX		LUX-30B-G3-21.5E	21.50
105559030	LUX		LUX-30B-G3-23.5E	23.50
105559031	LUX		LUX-30B-G3-25.5E	25.50
105559032	LUX		LUX-30B-G3-28.2E	28.20
105559033	LUX		LUX-30B-G3-31E	31.00
105559037	LUX		LUX-30B-G3-33E	33.00
105559038	LUX		LUX-30B-G3-45E	45.00
105559039	LUX		LUX-30B-G3-63E	63.00
105559034	LUX		LUX-30B-G3-7W	-7.00
105559045	LUX		LUX-30B-G3-9E	9.00

ntc_id	adm	ntwk_org	sat_name	long_nom
107559022	LUX		LUX-30B-G4-19.2E	19.20
109559015	LUX		LUX-30B-G4-20W	-20.00
107559023	LUX		LUX-30B-G4-21.5E	21.50
107559024	LUX		LUX-30B-G4-23.5E	23.50
107559025	LUX		LUX-30B-G4-28.2E	28.20
109559009	LUX		LUX-30B-G4-2E	2.00
109559010	LUX		LUX-30B-G4-31.5E	31.50
107559026	LUX		LUX-30B-G4-31E	31.00
109559016	LUX		LUX-30B-G4-42E	42.00
109559017	LUX		LUX-30B-G4-47E	47.00
112559011	LUX		LUX-30B-G5-52.2E	52.20
112559010	LUX		LUX-30B-G5-67W	-67.00
110559030	LUX		LUX-30B-G5-7W	-7.00
105559004	MCO		MCO-FSS-52E	52.00
110559034	MCO		MCO-FSS-52EA	52.00
112559032	MCO		MCO-FSS-52EAP	52.00
112559015	MEX		MEXSAT 109.2 AP30B	-109.20
111559041	MEX		MEXSAT 113 AP30B	-113.00
112559016	MEX		MEXSAT 116.8 AP30B	-116.80
113559008	MLA		MEASAT-83.7E-FSS	83.70
111559010	MLA		MEASAT-91.5E-30B	91.50
107559028	MLA		MLA-GOV	78.50
113559009	MNE		MNE00000	-36.60
96559009	NOR		BIFROST 2 FSS	-0.80
105559052	NOR		BIFROST-2C-FSS	-0.80
102559001	NOR		BIFROST-3-FSS	-0.80
107559006	NOR		BIFROST-4-FSS	-0.80
112559038	NOR		BIFROST-5-FSS	-0.80
90558162	PHL		PHL00000	161.00
112559014	PNG		NEW DAWN FSS-1	-50.00
112559020	PNG		NEW DAWN FSS-2	60.00
112559040	PNG		NEW DAWN FSS-3	62.00
112559041	PNG		NEW DAWN FSS-4	64.00
113559029	PNG		NEW DAWN FSS-5	166.00
113559026	PNG		NEW DAWN FSS-6	157.00
111559017	PNG		PACIFISAT-1-PKU	75.00
111559042	QAT		QATARSAT-30B-0.9E	0.90
113559012	QAT		QATARSAT-30B-135.5E	135.50
113559011	QAT		QATARSAT-30B-14.5E	14.50
112559047	QAT		QATARSAT-30B-26E	26.00
94559002	RUS		CSDRN	95.00
105559068	RUS		CSDRN-M	95.00
94559011	RUS		CSSRD-2	77.00
94559001	RUS		ESDRN	-160.00
109559001	RUS		EXPRESS-10P	140.00



ntc_id	adm	ntwk_org	sat_name	long_nom
111559026	RUS		EXPRESS-4P	40.00
109559002	RUS		EXPRESS-5P	53.00
111559025	RUS		EXPRESS-P 146.5	146.50
112559013	RUS		EXPRESS-P_KU 146.5	146.50
92559001	RUS		FOTON-1	-13.50
105559049	RUS		FOTON-1D	-13.50
92559005	RUS		FOTON-2	80.00
105559050	RUS		FOTON-2D	80.00
92559002	RUS		FOTON-3	-168.00
105559051	RUS		FOTON-3D	-168.00
113558001	RUS		RUS00002	88.10
90558227	RUS		RUS0A	87.70
90558627	RUS		RUS0B	87.70
101559037	RUS		STATSIONAR-D3	35.00
101559038	RUS		STATSIONAR-D4	45.00
101559039	RUS		STATSIONAR-D5	85.40
101559040	RUS		STATSIONAR-D6	128.00
94559012	RUS		VSSRD-2	167.00
105559069	RUS		VSSRD-2M	167.00
94559003	RUS		WSDRN	-16.00
105559067	RUS		WSDRN-M	-16.00
111559020	RUS		YAMAL-FSS-55E	55.00
111559021	RUS		YAMAL-FSS-90E	90.00
108559005	RUS		YAMAL-PK1	49.00
108559006	RUS		YAMAL-PK2	55.00
108559007	RUS		YAMAL-PK3	81.75
108559008	RUS		YAMAL-PK4	90.00
105559054	RUS		ZERKALO	88.10
89559004	RUS		ZSSRD-2	-16.00
112559025	RUS	IK	INTERSPUTNIK-103E-F	103.00
111559029	RUS	IK	INTERSPUTNIK-113W-F	-113.00
110559025	RUS	IK	INTERSPUTNIK-119E-F	119.10
111559006	RUS	IK	INTERSPUTNIK-156E-F	156.00
113559006	RUS	IK	INTERSPUTNIK-159E-F	159.00
111559007	RUS	IK	INTERSPUTNIK-164E-F	164.00
110559015	RUS	IK	INTERSPUTNIK-16W-F	-16.00
110559028	RUS	IK	INTERSPUTNIK-26W-F	-26.00
110559014	RUS	IK	INTERSPUTNIK-47.5W-F	-47.50
111559023	RUS	IK	INTERSPUTNIK-52.5W-F	-52.50
110559029	RUS	IK	INTERSPUTNIK-62.5E-F	62.50
110559026	RUS	IK	INTERSPUTNIK-67.3E-F	67.30
110559027	RUS	IK	INTERSPUTNIK-67.8E-F	67.80
110559016	RUS	IK	INTERSPUTNIK-78E-F	78.00
111559027	RUS	IK	INTERSPUTNIK-87W-F	-87.00
111559028	RUS	IK	INTERSPUTNIK-97.8W-F	-97.80

ntc_id	adm	ntwk_org	sat_name	long_nom
112559024	RUS	IK	INTERSPUTNIK-98E-F	98.00
112559009	S		OHO-30B-177E	177.00
112559008	S		OHO-30B-67.1W	-67.10
113559002	S		OHO-30B-86E	86.00
96559010	S		SIRIUS-30B	5.00
109559018	S		SIRIUS-30B-13W	-13.00
105559047	S		SIRIUS-30B-3E	3.00
108559002	S		SIRIUS-30B-3E-2	3.00
105559048	S		SIRIUS-30B-4E	4.00
103559009	S		SIRIUS-30B-5E	5.00
105559046	S		SIRIUS-30B-5E-3	5.00
107559027	S		SIRIUS-30B-5E-4	5.00
112559007	S		SIRIUS-30B-5E-5	5.00
111559012	SDN		SUDANSATFSS-1	23.55
108558001	SEY		SEY00000	42.50
109559019	TUR		TURKSAT-31E-FSS	31.00
108559010	TUR		TURKSAT-42E-FSS	42.00
109559020	TUR		TURKSAT-50E-FSS	50.00
110559037	UAE		YAHSAT-FSS-28W	-28.00
110559036	UAE		YAHSAT-FSS-45W	-45.00
110559006	UAE		YAHSAT-FSS-52.5E	52.50
111559004	UAE		YAHSAT-FSS-55W	-55.00
110559031	UAE		YAHSAT-FSS-60E	60.00
101558001	UKR		UKR00000	50.50
107559032	UKR		UKR00001	38.20
107559001	USA		MSV-1-30B	-101.00
109559013	USA		MSV-1-30B-A	-101.30
90558212	USA		USA00000	-101.00
96559005	USA		USASAT 26G	-58.00
104559005	USA		USASAT-55E	-43.00
104558001	UZB		UZB00000	110.50
107559019	VEN		VENESAT-30B	-78.00
104559003	VTN		VINASAT-FSS-131E-III	131.80
104559003	VTN		VINASAT-FSS-131E-III	131.80
110559002	VTN		VINASAT-FSS-131E-IV	131.80
108558003	VTN		VTN00000	107.00

**ANNEXE 4**

**STATISTIQUES**

**Tableau 4.1 – Fiches de notification des réseaux à satellite et statut réglementaire**

(en application des dispositions de l'Article 9 et/ou de l'Article 11  
du Règlement des radiocommunications)

(A = réseau au stade de la publication anticipée de renseignements, C = réseau au stade  
de la coordination, N = réseau au stade de la notification)

<b>Année</b>	<b>Réseaux</b>		<b>A</b>	<b>C</b>	<b>N</b>
<b>2013</b>	<b>OSG</b>	<b>4017</b>	1520	1418	<b>1079</b>
	<b>non OSG</b>	<b>566</b>	157	41	<b>368</b>
	<b>TOTAL</b>	<b>4583</b>	1677	1459	<b>1447</b>
<b>2012</b>	<b>OSG</b>	<b>3993</b>	1688	1264	<b>1041</b>
	<b>non OSG</b>	<b>545</b>	155	37	<b>353</b>
	<b>TOTAL</b>	<b>4538</b>	1843	1301	<b>1394</b>
<b>2011</b>	<b>OSG</b>	<b>3371</b>	1162	1188	<b>1021</b>
	<b>non OSG</b>	<b>509</b>	132	37	<b>340</b>
	<b>TOTAL</b>	<b>3880</b>	1294	1225	<b>1361</b>
<b>2010</b>	<b>OSG</b>	<b>3133</b>	966	1115	<b>1052</b>
	<b>non OSG</b>	<b>495</b>	139	36	<b>320</b>
	<b>TOTAL</b>	<b>3628</b>	1105	1151	<b>1372</b>
<b>2009</b>	<b>OSG</b>	<b>3166</b>	1043	1109	<b>1014</b>
	<b>non OSG</b>	<b>520</b>	186	36	<b>298</b>
	<b>TOTAL</b>	<b>3635</b>	1178	1145	<b>1312</b>
<b>2008</b>	<b>OSG</b>	<b>3126</b>	1017	1249	<b>860</b>
	<b>non OSG</b>	<b>438</b>	115	35	<b>288</b>
	<b>TOTAL</b>	<b>3564</b>	1132	1284	<b>1148</b>

**Tableau 4.2 – Nombre de fiches de notification uniques (réseaux) par administration**

(en application des dispositions de l'Article 9 et/ou de l'Article 11  
du Règlement des radiocommunications)

Nombre total - 72 administrations

<b>ADM</b>	<b>A</b>	<b>C</b>	<b>N</b>	<b>TOTAL</b>
AFS	1			1
ALG	1	1	1	3
ARG	4	3	5	12
ARM		1		1
ARS	7	32	15	54
AUS	4	21	35	60
AUT			1	1
AZE		9		9
B	1	21	22	44
BEL	2		3	5
BGD		1		1
BLR		1	1	2
BOL		1		1
BUL		3		3
CAN	27	41	34	102
CHL	1		1	2
CHN	127	68	109	304
CLM		4	1	5
CTI	13	7	1	21
CYP	30	30	2	62
CZE	20	2		22
D	15	17	19	51
E	8	30	15	53
EGY	27	8	2	37
EST			1	1
F	350	186	128	664
G	49	156	54	259
GRC		1	1	2
HNG			1	1
HOL	27	64	33	124
I	6	14	7	27
IND	30	57	47	134
INS	7	18	20	45
IRN		16	6	22
IRQ	1	2		3
ISR	157	50	4	211

<b>ADM</b>	<b>A</b>	<b>C</b>	<b>N</b>	<b>TOTAL</b>
J	103	63	106	272
KAZ	6	15	5	26
KOR	21	20	17	58
LAO	1	2		3
LTU	4			4
LUX	102	91	10	203
LVA	1			1
MAU	1	2		3
MEX	20	4	12	36
MLA	7	19	10	36
MNG	1			1
NCG	1			1
NIG	2	3		5
NOR	24	37		61
NRU		3		3
NZL	1	1		2
PAK	5	1	4	10
PNG	21	63	1	85
POL	2			2
QAT	72	15		87
ROU	1			1
RUS	66	51	194	311
S	1	4	8	13
SEY	2			2
SNG	3	3	2	8
SUI	1		2	3
SVN	1			1
THA	13	1	15	29
TON			7	7
TUR	9	11	16	36
UAE	186	57	9	252
UKR	1	4	2	7
URG	1	1	1	3
USA	44	118	452	614
VEN			1	1
VTN	38	5	4	47
<b>TOTAL</b>	<b>1677</b>	<b>1459</b>	<b>1447</b>	<b>4583</b>

**ANNEXE 5**

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

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

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

<b>Item</b>	<b>Description</b>	<b>Description</b>	<b>Descripción</b>
ntc_id	Numéro d'identification du réseau à satellite	Identification number of the network	BR Número de identificación de la red
adm	Administration notificatrice (voir le Tableau 1 de la Préface à l'adresse : <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a> )	Notifying administration (Refer to Table 1 of the Preface at: <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a> )	Administración notificante (véase el cuadro 1 del Prefacio en: <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a> )
ntw_org	Organisation intergouvernementale de satellite	Intergovernmental satellite organization	Organización intergubernamental de satélite
sat_name	Identité du réseau à satellite	Identity of the satellite network	Identidad de la red de satélite
long_nom	Longitude nominale d'une station spatiale géostationnaire (degré) ou non géostationnaire dans le cas d'un réseau non-OSG	Nominal longitude of a geostationary space station (degrees) or non-GSO for non-geostationary	Longitud nominal de una estación espacial geoestacionaria (grado) o N-GSO para una estación no geoestacionaria
ntf_rsn	A = Réseau au stade API C = Réseau au stade de la coordination N = Réseau au stade de la notification	A = Network in API stage C = Network in coordination stage N = Network in notification stage	A = Red en etapa de API C = Red en etapa de coordinación N = Red en etapa de notificación
sns_ref+ssn_no	Référence aux sections spéciales	Reference to special sections	Referencia a las secciones especiales
ific_no	Numéro de la BR IFIC	BR IFIC number	Número de la BR IFIC

卫星系统清单  
栏目描述

Список спутниковых систем  
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قائمة الأنظمة الساتلية  
وصف للأعمدة

Item	描述	Описание	الوصف
ntc_id	卫星网络标识号码	Идентификационный номер спутниковой сети	رقم هوية الشبكة الساتلية
adm	通知主管部门（参阅前言表1），见： <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a>	Заявляющая администрация (см. таблицу 1 Предисловия по адресу: <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a> )	الإدارة المبلغة (انظر الجدول 1 في المقدمة) في العنوان التالي: <a href="http://www.itu.int/ITU-R/go/space-preface/en">http://www.itu.int/ITU-R/go/space-preface/en</a>
ntw_org	政府间卫星组织	Межправительственная спутниковая организация	منظمة ساتلية دولية حكومية
sat_name	卫星网络的标识	Название спутниковой сети	هوية الشبكة الساتلية
long_nom	静止空间台站或用于非对地静止的非GSO的标称经度（度）	Номинальная долгота геостационарной космической станции (градусы) или негеостационарной космической станции	خط الطول الاسمي لمحطة فضائية مستقرة بالنسبة إلى الأرض (بالدرجات) أو N-GSO في حالة محطة غير مستقرة بالنسبة إلى الأرض
ntf_rsn	A= 处于API阶段的网络 C= 处于协调阶段的网络 N= 处于通知阶段的网络	A = Сеть на этапе API C = Сеть на этапе координации N = Сеть на этапе заявления	A = شبكة في مرحلة "معلومات النشر المسبق" C = شبكة في مرحلة التنسيق N = شبكة في مرحلة التبليغ
sns_ref+ssn_no	引证特节	Ссылка на Специальные секции	إحالة إلى الأقسام الخاصة
ific_no	无线电通信局国际频率信息通报编号	Номер ИФИК БР	رقم النشرة الإعلامية الدولية للترددات