

80-01A

Kosmos 1149

Uppsänd: Ploithk 9, januari 1215 Z

1	11653U	80	1	B	80	10.63165124	-.21227887	11736-4	-14263-3	0	31
2	11653	72.8213	294.1275	0148218	86.5925	275.2249	15.98243191				179
1	11653U	80	1	B	80	10.75584851	.01200077	11405-4	12784-3	0	41
2	11653	72.8704	293.6587	0131461	79.8803	281.7226	15.97452069				193
1	11656U				80	10.19249997	.00713170	10000-3	13467-3		31
2	11656	72.8652	295.1272	0073847	199.7925	142.2455	15.81506007				134
1	11652U				80	9.56491429	-.00001639	11319-4	00000 2 2		12
2	11652	72.8696	296.6323	0144984	84.2327	277.5417	15.94334069				02
1	11652U				80	10.64371156	.00701056	00000-0	10425-4	0	31
2	11652	72.9099	294.0107	0078635	181.5565	178.5417	15.63325544				175
1	11652U				80	10.83569045	.00530141	00000-0	56854-2	0	45
2	11652	72.8751	293.5452	0049290	195.2823	158.5395	15.60610796				200
1	11652U				80	10.19221830	-.00001618	11109-4	00000 0 0		27
2	11652	72.9215	295.0457	0152965	84.2496	277.6331	15.94828827				109

1	11653U	80	1	B	80	9.52764162	-.13518596	11492-4	-16652-2	0	13
2	11653	72.8529	296.4909	0146060		83.8619	277.6030	15.92317836			22
1	11653U	80	1	B	80	10.31732619	.01196297	11628-4	13143-3	0	23
2	11653	72.8718	294.7625	0134515		81.5450	280.1016	15.96387095			121
1	11652U		80			11.86241194	.00009145	00000-0	10509-3	0	66
2	11652	72.8687	291.1019	0049127		194.2117	165.7717	15.60665286			364
1	11652U		80			12.31112286	.00010748	00000-0	12320-3	0	71
2	11652	72.8723	290.0310	0048830		192.9696	167.0642	15.60690950			430
1	11652U		80			13.27262000	.00009282	00000-0	10667-3	0	81
2	11652	72.8770	287.7329	0048337		190.8637	169.1162	15.60703272			587
1	11652U		80			14.36232276	.00013144	00000-0	15013-3	0	97
2	11652	72.8782	285.1287	0048663		187.7087	172.3401	15.60730375			756
1	11652U	80	01A	80		15.38789886	.00013182	00000-0	15013-3	0	108
2	11652	72.8746	282.6805	0049551		184.9067	175.1214	15.60748407			914
1	11652U		80			16.47756862	.00013177	00000-0	15013-3	0	112
2	11652	72.8758	280.0810	0048984		183.5343	176.5230	15.60775562			1080
1	11652U		80			17.18263925	.00009604	00000-0	10994-3	0	128
2	11652	72.8807	278.3910	0048767		182.3626	177.6177	15.60763354			1196
1	11652U		80			18.08002752	.00009123	00000-0	10454-3	0	136
2	11652	72.8776	276.2535	0048433		179.7439	180.3827	15.60777275			1339

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1	11652U		80	19.49015296	.00004506	00000-0	51052-4 0	145
2	11652	72.8771	272.8873	0049001	175.6246	184.4590	15.60783074	1552
1	11652U		80	20.25932867	.00007939	00000-0	97362-4 0	158
2	11652	72.8764	271.3508	0048263	174.2367	185.9300	15.60700514	1677
1	11652U		80	21.15668419	.00003661	00000-0	42135-4 0	161
2	11652	72.8797	268.9096	0047713	172.7777	187.9685	15.60792784	1810

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Molviya TAX

Lpp: 11, Januari 41.12302 från Plesetsky

1	11663U	80	2	B	80	11.94978352	-.00000579	00000-7	00000 0 0	20
2	11663	62.8483	245.6473	0171837	127.5319	234.5062	15.81381261			60
1	11662U	80	2	A	80	11.57101385	.00000461	00000-0	00000 0 0	10
2	11662	62.8361	247.2003	7479425	280.0975	10.6554	1.95517172			00
1	11662U	80	2	A	80	12.59395028	.00000461	00000-0	00000 0 0	23
2	11662	62.8380	247.0449	7478810	280.1038	10.6637	1.95514660			24
1	11662U	80	2	A	80	13.61691844	.00000003	00000-0	-21436-2 0	57
2	11662	62.8349	246.8816	7478054	280.1098	10.6768	1.95510056			42
1	11662U	80	2	A	80	16.68569553	.00001743	00000-0	76047-2 0	91
2	11662	62.8514	246.4108	7475838	280.1256	10.6852	1.95520351			109

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Kosmos 1150

Upp: 14 januari kl. 19402 från Plesetsk

1	11667U	80	3	A	80	14.95765375	.00000365	00000-0	39000-3 0	15
2	11667	82.9395	78.7760	0023641	281.0768	78.6875	13.71918571			28

1	11667U	80	3	A	80	15.10353347	.00000366	00000-0	39000-3 0	27
2	11667	82.9544	78.6519	0031082	277.3838	82.4497	13.72064768			45

1	11667U	80	3	A	80	15.32229142	.00000366	00000-0	39000-3 0	37
2	11667	82.9539	78.4915	0031407	276.6767	83.0812	13.72060872			75

1	11667U	80	3	A	80	15.32229111	.00000367	00000-0	39000-3 0	45
2	11667	82.9730	78.4988	0032189	278.1466	81.6037	13.72064944			75

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Fleetsatcom 3

Upp: 18, Juliani från Cape Canaveral 41, 0126 Z

1	11669U		80	18.72505398	.00018810	-39293-4	99999-4	0	50
2	11669	26.3071	321.7048	7305918	181.8790	172.0470	2.28317957		01
1	11669U		80	18.72488317	.00023323	-39277-4	99999-4	0	42
2	11669	26.3339	321.6514	7310914	181.8850	172.0127	2.28381042		09
1	11669U		80	18.95333960	.00023326	-39384-4	99999-4	0	31
2	11669	26.3331	321.5647	7310842	359.9702	359.8450	2.28389101		09
1	11669U		80	20.05156143	.00000145	00000-0	99999-4	0	66
2	11669	2.4000	327.0848	0730585	183.4501	177.0471	1.01182982		05

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Kosmos 1151

Upp: 27 januari kl 06582 från Plestok

1	11671U	80	5	A	80	23.41687765	.00000012	00000-0	00000 0 0	23
2	11671	82.5261	253.4949	0031200		245.8377	113.9509	14.75690283		13
1	11671U	80	5	A	80	23.55263857	.00000011	00000-0	00000 0 0	30
2	11671	82.5315	253.3661	0028698		278.2559	81.5396	14.74313251		35
1	11671U	80	5	A	80	23.68840214	.00000011	00000-0	00000 0 0	43
2	11671	82.5416	253.2514	0021335		265.2325	94.6449	14.74053179		57
1	11671U	80	5	A	80	24.02803531	.00000011	00000-0	00000 0 0	54
2	11671	82.5215	252.9318	0020592		256.2192	103.6771	14.73590438		106
1	11671U	80	5	A	80	24.09593751	.00030458	00000-0	46425-2 0	64
2	11671	82.5218	252.8691	0020567		255.7225	104.1745	14.73606018		115
1	11671U	80	5	A	80	24.63916411	.00000663	00000-0	99999-4 0	89
2	11671	82.5215	252.3685	0020422		254.0092	105.8855	14.73587648		199
1	11671U	80	5	A	80	28.50964150	.00005819	00000-0	88738-3 0	145
2	11671	82.5207	248.7990	0020646		240.5765	119.3503	14.73602031		760

1 11671U 80 5 A 80 31.22574750 -.00000496 00000-0 -77745-4 0 179  
2 11671 82.5186 246.2945 0020669 231.5758 128.3519 14.73599524 1171

1 11671U 90 5 A 80 36.65797667 .00001402 00000-0 21138-3 0 186  
2 11671 82.5188 241.2856 0020463 215.2798 144.9814 14.73618023 1975

1 11671U 80 5 A 80 44.67025496 .00001803 00000-0 27231-3 0 254  
2 11671 82.5197 233.8948 0021573 186.4238 173.6695 14.73649399 3158

1 11671U 80 5 A 80 52.41084350 .00001738 00000-0 26246-3 0 273  
2 11671 82.5201 226.7557 0021840 161.8610 198.3371 14.73675374 4292



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Kosmos 1152

Upp: 24, januari kl. 1550 z från Alvesten

1	11678U	80	6	A	80	24.77164621	-.00004039	27888-4	00000 0 0	12
2	11678					67.1521 345.5349	0129284	71.3313 290.1861	16.06235415	04
1	11678U	80	6	A	80	24.99624920	.00090169	28098-4	61737-5 0	32
2	11678					67.1539 345.1222	0132414	70.9106 290.6487	16.05441424	44
1	11678U	80	6	A	80	25.33231992	.00620258	27872-4	40457-4 0	48
2	11678					67.1415 343.6444	0129983	69.9557 291.9433	16.06039802	118
1	11678U	80	6	A	80	25.51907311	.00091476	27789-4	61737-5 0	50
2	11678					67.1389 343.0169	0129733	69.8019 291.7068	16.06121588	149
1	11678U	80	6	A	80	25.58149467	.00572344	27789-4	37190-4 0	61
2	11678					67.1425 342.8074	0128863	69.8797 292.5217	16.06302975	155
1	11678U	80	6	A	80	27.26632103	.00598642	27507-4	40638-4 0	93
2	11678					67.1457 337.1584	0150356	66.6981 295.0815	16.01769401	425
1	11678U	80	6	A	80	28.26481612	.00688666	27688-4	44612-4 0	105
2	11678					67.1452 333.8103	0145813	65.3653 296.1370	16.03323131	585

1	11678U	80	6	A	80	28.51433704	.00691695	27727-4	44307-4	0	114
2	11678					67.1442 332.9721 0144868	65.2295	296.3893	16.03672943		623
1	11678U	80	6	A	80	29.32483448	.00696965	27359-4	42531-4	0	128
2	11678					67.1458 330.2508 0142775	64.4273	297.1358	16.04806004		755
1	11678U	80	6	A	80	26.14167014	.00514694	27170-4	37190-4	0	82
2	11678					67.1437 340.9204 0152289	67.9618	293.7600	16.00433302		248
1	11678U	80	6	A	80	29.51179476	.00708628	27778-4	42883-4	0	138
2	11678					67.1438 329.6223 0141911	64.3806	297.2295	16.05091602		786
1	11678U	80	6	A	80	30.13458083	.00993611	27904-4	42883-4	0	142
2	11678					67.1415 327.5212 0146513	64.5862	297.0411	16.09208750		880
1	11678U	80	6	A	80	30.75589152	.01095296	28187-4	42883-4	0	161
2	11678					67.1407 325.4084 0146301	63.6409	298.1922	16.10599401		985
1	11678U	80	6	A	80	30.75589152	.01095296	28187-4	42883-4	0	172
2	11678					67.1407 325.4084 0146301	63.6409	298.1922	16.10599401		985
1	11678U	80	6	A	80	30.88004180	.01121429	27779-4	42883-4	0	184
2	11678					67.1390 324.9930 0146292	62.6298	298.9838	16.10922166		1000
1	11678U	80	6	A	80	31.19119864	.00998171	27913-4	42883-4	0	191
2	11678					67.1488 323.9425 0170198	62.6892	299.1511	16.04668572		1055
1	11678U	80	6	A	80	31.31584669	.01156943	27916-4	49128-4	0	202
2	11678					67.1447 323.5213 0169421	62.5817	299.2650	16.04974801		1076
1	11678U	80	6	A	80	31.87646813	.01205667	27703-4	49128-4	0	216
2	11678					67.1407 321.6341 0165331	62.2487	299.6151	16.06345100		1165

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1	11678U	80	6	A	80	32.24990839	.01385392	28159-4	54308-4 0	225
2	11678	67.1415	320.3791	0162570			61.8443	299.9064	16.07408712	1221
1	11678U	80	6	A	80	32.43654543	.01324644	27995-4	52004-4 0	237
2	11678	67.1409	319.7456	0160094			61.5980	300.1022	16.07878298	1258
1	11678U	80	6	A	80	32.93397869	.01379239	28253-4	52004-4 0	246
2	11678	67.1433	318.0642	0155738			61.1658	300.5968	16.09275595	1336
1	11678U	80	6	A	80	33.18249004	.01368492	27690-4	52004-4 0	255
2	11678	67.1392	317.2273	0151359			61.4595	300.1690	16.10022229	1377
1	11678U	80	6	A	80	33.43092402	.01411140	28398-4	50348-4 0	266
2	11678	67.1385	316.3838	0152084			60.4006	301.1915	16.10726775	1411
1	11678U	80	6	A	80	33.49300307	.01933902	28071-4	67312-4 0	271
2	11678	67.1385	316.1732	0151560			60.3337	301.2848	16.11146626	1425
1	11678U	80	6	A	80	33.92732019	.02085439	28136-4	67005-4 0	284
2	11678	67.1372	314.7003	0147196			60.5461	301.2484	16.13047208	1496
1	11678U	80	6	A	80	34.29926069	.02549967	28490-4	80437-4 0	306
2	11678	67.1391	313.4249	0137251			59.9765	302.9547	16.15198419	1554
1	11678U	80	6	A	80	34.17514094	.02577302	28560-4	83001-4 0	294
2	11678	67.1411	313.8576	0139043			59.9440	301.5460	16.14584034	1533

1	11678U	80	6	A	80	35.16459059	.03049169	28780-4	80988-4	0	306
2	11678	67.1327	310.4531	0122174		59.1815	302.0696	16.20261557			1691

1	11678U	80	6	A	80	35.28802905	.03070794	28953-4	79333-4	0	325
2	11678	67.1342	310.0307	0119849		58.9734	302.3485	16.21046132			1710

1	11678U	80	6	A	80	36.57931880	.05210428	29135-4	85872-4	0	362
2	11678	67.1411	305.5553	0085214		56.6278	304.3043	16.32719666			1923

1	11678U	80	6	A	80	36.76293365	.05510382	29778-4	78490-4	0	372
2	11678	67.1405	304.9024	0082812		56.7100	304.2002	16.35040221			1950

1	11678U	80	6	A	80	37.25056953	.15822225	30633-4	11774-3	0	386
2	11678	67.1281	303.1744	0047105		57.9933	302.5841	16.47423587			2033

1	11678U	80	6	A	80	37.43424807	.30056053	30014-4	78490-4	0	387
2	11678	67.0215	302.4116	0135165		79.2756	295.9221	16.39343289			2067

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Kosmos 1153

Lapp: 25 janneari ul-22197 från Plevictu

1	116800	80	7	A	80	27.30250487	-.00003381	00000-0	-37100-2	0	55
2	11680	82.9336	100.2487	0036270	283.8992	75.7493	13.72172361				198
1	116800	80	7	A	80	28.76087524	-.00000621	00000-0	-68608-3	0	70
2	11680	82.9343	99.1726	0036229	279.7971	79.9093	13.72174236				399

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Kosmos 1154

Lapp: 30, januari 41. 12 588 från Plejetcha

1	11682U	80	8	A	80	30.52659838	.00000009	00000-0	00000 0 0	13
2	11682	81.2219	345.6905	0008695		57.9814	302.2238	14.77709500		07
1	11682U	80	8	A	80	30.66201363	.00000009	00000-0	00000 0 0	25
2	11682	81.2291	345.5323	0010509		66.3503	293.8807	14.78029550		26
1	11682U	80	8	A	80	30.66201479	.00000009	00000-0	00000 0 0	34
2	11682	81.2291	345.5323	0010509		66.3503	293.8807	14.77968130		21
1	11682U	80	8	A	80	30.66201479	.00000009	00000-0	00000 0 0	34
2	11682	81.2291	345.5323	0010509		66.3503	293.8807	14.77968130		21
1	11682U	80	8	A	80	30.93285023	.00000008	00000-0	00000 0 0	41
2	11682	81.2222	345.2402	0010509		65.4933	294.7370	14.77766562		61
1	11682U	80	8	A	80	31.33910905	.00019785	00000-0	27434-2 0	56
2	11682	81.2232	344.7985	0009601		73.3968	286.9305	14.77833044		127
1	11682U	80	8	A	80	31.50991614	.00002343	00000-0	32370-3 0	61
2	11682	81.2223	344.5034	0009877		71.8545	288.3432	14.77818946		164
1	11682U	80	8	A	80	32.49011742	.00003091	00000-0	42777-3 0	78
2	11682	81.2228	343.5453	0009796		68.6240	291.6098	14.77825447		292

1	11682U	80	8	A	80	33.43801353	.00002955	00000-0	40871-3 0	80
2	11682	81.2232	342.5132	0009769		65.9696	294.2524	14.77830815		439

1	11682U	80	8	A	80	34.38590806	.00029793	00000-0	41239-2 0	91
2	11682	81.2233	341.4808	0009489		61.6044	298.6297	14.77859109		574

1	11682U	80	8	A	80	35.33376461	.00003228	00000-0	44641-3 0	115
2	11682	81.2237	340.4501	0009742		59.9436	300.0992	14.77843462		715

1	11682U	80	8	A	80	35.60462182	.00003622	00000-0	50136-3 0	171
2	11682	81.2240	340.1550	0009634		60.2948	299.9206	14.77846340		759

1	11682U	80	8	A	80	40.20858535	.20003788	00000-0	52387-3 0	188
2	11682	81.2243	335.1445	0009618		46.0886	314.1146	14.77881408		1437

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Upp: 7 februari

1	11685U	80	9	A	80	38.51286271	-.00001673	11633-4	00000 0 0	18
2	11685	72.8650	306.3838	0151315		87.9604	273.8944	15.92773914		18
1	11685U	80	9	A	80	38.53848364	-.00001663	11559-4	00000 0 0	25
2	11685	72.8713	306.0731	0150978		87.8561	273.9848	15.92725868		32
1	11685U	80	9	A	80	38.76410865	-.00038302	11582-4	-42079-5 0	36
2	11685	72.8621	305.7532	0151219		87.6521	274.2001	15.92718816		51
1	11685U	80	9	A	80	39.14033555	-.00001672	11608-4	00000 0 0	47
2	11685	72.8460	304.8464	0132050		93.7829	267.8511	15.98951812		119
1	11685U	80	9	A	80	39.14033615	-.00044908	11707-4	-42079-5 0	53
2	11685	72.8459	304.8466	0132058		93.6497	267.9847	15.98947128		115
1	11685U	80	9	A	80	39.26544872	.02144928	11734-4	19999-3 0	65
2	11685	72.8650	304.4817	0131933		105.1969	256.8833	15.99746406		139
1	11685U	80	9	A	80	39.39029817	.02389472	11426-4	19999-3 0	70
2	11685	72.8866	304.2344	0133548		85.9288	275.7196	16.01342967		156
1	11685U	80	9	A	80	39.33615304	.00017097	00000-0	19999-3 0	88
2	11685	72.6848	304.5264	0038403		212.2704	147.6157	15.60611473		148



1	11685U	80	9	A	80	39.65658630	.00017485	00000-0	19999-3 0	94
2	11685	72.8634	303.6076	0043133	209.2429	150.6364	15.60946176			190

1	11685U	80	9	A	80	40.23339992	.00010334	00000-0	11858-3 0	101
2	11685	72.8658	302.2273	0044267	209.1491	151.7377	15.60945577			286

1	11685U	80	9	A	80	41.00247722	.00002609	00000-0	30296-4 0	111
2	11685	72.8678	300.3885	0044278	206.1173	153.7361	15.60941055			409

1	11685U	80	9	A	80	41.32293623	.00004289	00000-0	49335-4 0	128
2	11685	72.8672	299.6246	0044287	205.2379	154.6723	15.60947560			456

1	11685U	80	9	A	80	42.41246300	.00003227	00000-0	37319-4 0	130
2	11685	72.8665	297.0220	0044131	202.7290	157.1723	15.60952172			626

1	11685U	80	9	A	80	43.56608390	.00001969	00000-0	23053-4 0	140
2	11685	72.8663	294.2631	0043999	199.9653	159.9746	15.60955408			800

1	11685U	80	9	A	80	44.39925110	.00005379	00000-0	61716-4 0	152
2	11685	72.8658	292.2722	0043624	197.8568	162.0999	15.60962753			930

1	11685U	80	9	A	80	45.36059220	.00003542	00000-0	40900-4 0	163
2	11685	72.8672	289.9748	0043674	195.9311	164.0275	15.60965061			1088

1	11685U	80	9	A	80	45.36059675	.00003542	00000-0	40900-4 0	178
2	11685	72.8672	289.9748	0043674	195.9311	164.0531	15.60965061			1083

1	11685U	80	9	A	80	46.32193555	.00003543	00000-0	40900-4 0	183
2	11685	72.8651	287.6812	0043735	193.6885	166.3272	15.60974447			1238

80-09A

Kosmos 1155 Forts. 1

1	11685U	80	9	A	80	47.28326627	.00003542	00000-0	40900-4 0	197
2	11685	72.8653	285.3842	0043559	191.4098	168.6016	15.60980204			1380

1	11685U	80	9	A	80	49.33408439	.00001124	00000-0	13471-4 0	217
2	11685	72.8652	290.4831	0043139	187.0179	173.0016	15.60995593			1700

1	11685U	80	9	A	80	50.23132529	.00004735	00000-0	54387-4 0	225
2	11685	72.8658	278.3392	0043182	184.7672	175.3271	15.61005935			1840

1	11685U	80	9	A	80	50.42222725	.00013125	00000-0	54387-4 0	236
2	11685	72.8614	277.8730	0065557	110.7567	250.0694	15.76970350			1875

1	11685U	80	9	A	80	50.99317614	.00099135	00000-0	52394-3 0	243
2	11685	72.8655	276.4773	0065414	109.2500	251.5812	15.77024979			1960

1	11685U	80	9	A	80	51.24691990	.00034383	00000-0	18353-3 0	256
2	11685	72.8641	275.8557	0065374	108.6341	252.1577	15.77018021			2001

1	11685U	80	9	A	80	51.24691990	.00034383	00000-0	18353-3 0	267
2	11685	72.8641	275.8557	0065374	108.6341	252.1577	15.77018021			2001

1	11685U	80	9	A	80	51.24691990	.00034383	00000-0	18353-3 0	256
2	11685	72.8641	275.8557	0065374	108.6341	252.1577	15.77018021			2001

1	11685U	80	9	A	80	51.24691990	.00034383	00000-0	18353-3 0	267
2	11685	72.8641	275.8557	0065374	108.6341	252.1577	15.77018021			2001

80-10A

[Titan 3D]

KH-11

Lopp: 7/februar

1	11687U	80	10	A	80	38.85912742	-.00000131	00000-0	00000 0 0	18
2	11687	95.9769	150.1483	0206366	183.0540	176.9482	15.68832708			02
1	11687U	80	10	A	80	39.30585109	-.00000121	00000-0	00000 0 0	33
2	11687	96.9837	150.6277	0203079	180.3644	179.7505	15.67955992			71
1	11687U	80	10	A	80	39.62491854	-.00000125	00000-0	00000 0 0	46
2	11687	96.9837	150.9456	0203079	179.1529	181.0121	15.68141058			128
1	11687U	80	10	A	80	40.26296362	.00251116	20137-4	67810-3 0	56
2	11687	96.9795	151.5822	0200221	177.0703	183.1759	15.68542779			228
1	11687U	80	10	A	80	40.70952741	.00231306	17418-4	61387-3 0	77
2	11687	96.9847	152.0301	0200630	175.4051	184.9118	15.68734106			298
1	11687U	80	10	A	80	40.90088945	.00063757	00000-0	61387-3 0	84
2	11687	97.0384	152.2016	0141375	178.9584	181.1995	15.54599194			327
1	11687U	80	10	A	80	41.28709979	.00085493	00000-0	81740-3 0	98
2	11687	97.0497	152.5769	0141634	177.5089	182.7052	15.54665183			382
1	11687U	80	10	A	80	42.31690196	.00072737	00000-0	69725-3 0	103
2	11687	97.0518	153.5934	0140535	173.7349	186.4591	15.54799801			549

1	11687U	90	10	A	80	42.51000293	.00074392	00000-0	71187-3	0	113
2	11687	97.0513	153.7841	0140572	172.9971	187.3287	15.54829466				572

80-11A

Navstar 5

Upp: 10 februari

1	11690U	80	11	A	80	41.13563608	.00289477	-20358-4	49999-3	0	19
2	11690	63.1027	206.4743	6043266	158.8389	244.3569	4.08466192				06
1	11690U	80	11	A	80	41.38031104	.00293307	-20307-4	49999-3	0	29
2	11690	63.0848	206.3959	6042546	158.8407	244.2102	4.08610816				13
1	11690U	80	11	A	80	41.62504756	.00239482	-20219-4	49999-3	0	31
2	11690	63.0949	206.2440	6036907	158.7424	244.2568	4.08695098				22
1	11690U	80	11	A	80	41.36972781	.00300469	-20321-4	49999-3	0	43
2	11690	63.0840	206.1731	6042313	158.8790	244.1744	4.08752497				32
1	11690U	80	11	A	80	42.35877499	.00293996	-20293-4	49999-3	0	53
2	11690	63.0632	206.0287	6041177	158.8420	243.7773	4.08843756				51
1	11690U	80	11	A	80	44.56563570	.00000021	00000-0	00000	0	61
2	11690	63.7204	205.6105	0012000	285.0716	74.7756	2.01333896				58

80-12 A-H

Kosmos 1156-1163

Крр = 12 февраля

1	11693U		80	43.20216831	.30202710	30000-0	99999-4	0	12
2	11693	74.0197	142.0918	0048839	110.9091	249.7202	12.56493577		25
1	11692U		80	43.20216831	.30000010	00000-0	99999-4	0	11
2	11692	74.0197	142.0918	0048839	110.9091	249.7202	12.56493577		24
1	11691U		80	43.12268709	.30000009	00000-0	99999-4	0	10
2	11691	74.0244	142.2378	0071192	130.6378	230.0894	12.52691899		15
1	11699U		80	42.96135631	.00000005	00000-0	99999-4	0	12
2	11699	74.0368	142.5908	0150576	267.5080	30.8711	12.24474056		08

80-13A

Kosmos 1164

Upp: 12 februari

1	11700U		80	42.57616330	.00000177	00000-0	99999-4	0	12
2	11700	62.8180	104.2910	7478920	280.4200	10.4817	1.95420372		08
1	11701U		80	43.28831345	-.00000470	00000-0	00000	0 0	12
2	11701	62.7906	104.3143	0263490	118.4505	244.3440	15.55279660		03
1	11702U		80	43.15252599	-.00000527	00000-0	00000	0 0	12
2	11702	62.8105	104.0941	0270548	119.1567	243.6926	15.57305925		26

80-14A

SMM, Solar Maximum Mission

Upp: 14 februari

1	11703U	80 15 <sup>4</sup>	A 80	45.71335535	.00000081	00000-0	00000 0 0	06
2	11703	28.5021	202.8310	0031305	242.9748	116.7642	14.94756887	13
1	11703U	80 15 <sup>4</sup>	A 80	45.91317208	.00000083	00000-0	00000 0 0	29
2	11703	28.5103	201.5554	0006373	203.2874	156.7437	15.00076809	43
1	11703U	80 15 <sup>4</sup>	A 80	46.31235376	.00030759	00000-0	23852-2 0	47
2	11703	28.5148	198.9354	0005524	212.5494	147.4770	15.00134768	100
1	11703U	1980-014	80	48.77395637	.00008044	00000-0	61587-3 0	91
2	11703	28.5126	182.8947	0005164	236.4587	123.5541	15.00159989	477
1	11703U	80 14	A 80	50.97264965	.00006128	00000-0	47747-3 0	122
2	11703	28.5095	168.6140	0001971	212.8421	147.2039	14.99257537	803



80-15A

Tansei 4

Upp: Februari 17

1	11706U	80	15	A	80	48.14106686	-	.00000067	00000-0	00000 0 0	10
2	11706	38.6896	155.6895	0065864	163.0414	197.2578	15.02106922				12
1	11706U	80	15	A	80	48.20758805	-	.00000066	00000-0	00000 0 0	21
2	11706	38.6835	155.4101	0058373	160.5907	199.7111	15.01961353				26
1	11707U				80	48.27376903	-	.00000069	00000-0	00000 0 0	01
2	11707	38.6753	154.7328	0074991	174.3067	195.8573	15.04463571				34
1	11706U	80	15	A	80	48.34055828	-	.00000066	00000-0	00000 0 0	32
2	11706	38.6778	154.5955	0061373	161.1350	199.1961	15.01911119				46
1	11706U	80	15	A	80	48.54004376	-	.00000066	00000-0	00000 0 0	47
2	11706	38.6784	153.4550	0059740	161.9915	198.2996	15.01837432				78

80-16

Stationar - Raduga 6

Lpp 20 Feb

1	11708U		80	51.33542856	-.00000010	00000-0	00000 0 0	23
2	11708	0.6260	328.1198	0050000	31.2804	359.9707	0.98297085	13

1	11709U	80	16	B	80	51.57409792	-.00008546	59128-4	00000 0 0	16
2	11709	51.6012	278.8988	0016491	272.5680	87.3456	16.33059133	36		

1	11709U		80	52.36890894	.03083055	59327-4	61728-4 0	50
2	11709	51.6225	274.4437	0012276	290.2727	71.8111	16.37826632	136

1	11708U	80	016	A	90134.25889558	.00000183	00000-0	00000 0 0	530
2	11708	0.2469	288.8637	0011901	26.6359	44.5690	1.00289953	842	

1	11710U		80	51.63531011	-.00008565	59232-4	30000 0 0	06
2	11710	51.6271	278.5591	0009458	278.0574	81.9277	16.32563283	45

1	11710U		80	51.94114008	.01751458	59254-4	44439-4 0	24
2	11710	51.6458	276.8658	0011085	10.6845	349.1991	16.34500430	93

80-17A

Kosmos 1165.

Lpp: 21 februari

1	11713U	80	17	A	80	52.92820084	-	.00001705	11662-4	00000 0 0	25
2	11713	72.8759	334.3145	0137283	81.2256	290.4496	16.04615593				74
1	11713U	80	17	A	80	53.11524068	-	.00001733	11958-4	00000 0 0	30
2	11713	72.8729	333.8306	0136612	80.7063	281.2134	16.04938744				107
1	11713U	80	17	A	80	53.42686579		.00268213	11747-4	17381-4 0	49
2	11713	72.8741	333.0373	0136298	79.9904	281.8375	16.05172035				153
1	11713U	80	17	A	80	54.36156038		.00277706	1171 -4	17572-4 0	57
2	11713	72.8752	330.6517	0135449	77.5496	284.1008	16.05696927				302
1	11713U	80	17	A	80	54.48616383		.00279752	11226-4	17665-4 0	61
2	11713	72.8753	330.3346	0135192	77.2581	284.3834	16.05771680				328
1	11713U	80	17	A	80	55.29594744		.00299840	11223-4	18643-4 0	79
2	11713	72.8724	328.2702	0133650	75.2703	286.3339	16.06282097				455
1	11713U	80	17	A	80	56.16774599		.00316788	11902-4	19380-4 0	93
2	11713	72.8727	326.0423	0131856	73.3399	288.3230	16.06852837				592
1	11713U	80	17	A	80	56.35450102		.00310775	12027-4	18960-4 0	109
2	11713	72.8735	325.5649	0131487	72.9690	288.5844	16.06962768				626

1	11713U	80	17	A	80	57.10135562	.00359011	11879-4	18960-4	0	114
2	11713	72.8954	323.6452	0130278			71.1405	290.3905	16.09394595		744

1	11713U	80	17	A	80	57.10135562	.00359011	11879-4	18960-4	0	125
2	11713	72.8954	323.6452	0130278			71.1405	290.3905	16.09394595		744

1	11713U	80	17	A	80	57.34998694	.01173873	12049-4	55698-4	0	135
2	11713	72.8658	323.0045	0136467			68.5687	292.9113	16.09827269		787

1	11713U	80	17	A	80	57.47431456	.00707204	12096-4	33718-4	0	149
2	11713	72.8716	322.6713	0136638			69.1967	292.3843	16.09739744		804

1	11713U	80	17	A	80	58.29207165	.00500333	11951-4	23436-4	0	154
2	11713	72.8692	320.6184	0133953			67.9597	293.6770	16.10504510		936

1	11713U	80	17	A	80	58.34417206	.00494684	12032-4	22574-4	0	167
2	11713	72.8698	320.4594	0134160			67.4807	294.0439	16.10550616		944

1	11713U	80	17	A	80	59.27565955	.00521916	11894-4	23486-4	0	173
2	11713	72.8694	318.0654	0131503			65.3206	296.2372	16.11513722		1094

1	11713U	80	17	A	80	60.82816537	.00505139	11564-4	22858-4	0	199
2	11713	72.8702	314.0719	0136929			61.0484	300.3437	16.10459614		1344

1	11713U	80	17	A	80	61.13875137	.00589455	11658-4	26351-4	0	206
2	11713	72.8694	313.2772	0135584			59.9001	301.6474	16.10876617		1397

1	11713U	80	17	A	80	61.94584657	.00513632	11510-4	22648-4	0	218
2	11713	72.8696	311.1892	0132930			58.1700	302.8438	16.11650040		1526

80-77A

Kosmos 1165 . forts. 1

1	11713U	80	17	A	80	62.07022239	.30487636	11710-4	22648-4	0	220
2	11713	72.8754	310	8765	0144808	61.1760	300.4740	16.05621495	1544		

1	11713U	80	17	A	80	62.13239799	.20492056	11941-4	22648-4	0	237
2	11713	72.8538	310	7451	0147213	60.4024	301.0284	16.03004133	1558		

1	11713U	80	17	A	80	62.31909555	.20547398	12146-4	26110-4	0	248
2	11713	72.8290	310	2632	0146443	61.3888	300.1989	16.07923760	1581		

1	11713U	80	17	A	80	62.44352569	.20488707	11866-4	23787-4	0	254
2	11713	72.8657	309	9257	0144218	61.3421	300.2683	16.08052044	1601		

1	11713U	80	17	A	80	63.37644689	.20491094	12070-4	23200-4	0	265
2	11713	72.8738	307	6357	0141769	60.7859	302.1111	16.09960223	1753		

1	11713U	80	17	A	80	64.30884222	.00496311	12042-4	22614-4	0	274
2	11713	72.8734	305	.1414	0139442	57.2546	304.2026	16.09898574	1900		

1	11713U	80	17	A	80	64.30884222	.00496311	12042-4	22614-4	0	285
2	11713	72.8734	305	.1414	0139442	57.2546	304.2026	16.09898574	1900		

80-18

Ayame 2 (ECS 2)

Upp: 22 februari

1	11716U	80	18	B	80	53.53026318	.00000339	00000-0	00000 0 0	15
2	11716	30.4430	314.8410	0065845	135.8029	224.5122	16.08843758			29

1	11716U	80	18	B	80	53.65436785	.00000343	00000-0	00000 0 0	27
2	11716	30.4459	313.9080	0065099	141.2020	219.4994	16.09096307			49

1	11716U	80	18	B	80	53.65433931	.01262449	-57362-5	11175-3 0	34
2	11716	30.4427	313.9064	0063615	138.0258	222.4724	16.09224827			40

1	11716U	80	18	B	80	53.65434922	.01374340	-59839-5	12155-3 0	40
2	11716	30.4418	313.9080	0063764	137.4473	223.1007	16.09226048			44

1	11716U	80	18	B	80	56.00640267	.01687289	-77705-5	10985-3 0	100
2	11716	30.4345	296.1196	0052341	164.9179	195.3060	16.15067305			426

1	11716U	80	18	B	80	57.73102671	.02946277	-22487-4	12193-3 0	131
2	11716	30.4380	282.9168	0037930	139.4926	170.5019	16.24906607			704

1	11716U	80	18	B	80	57.91518855	.03131181	-22616-4	11908-3 0	145
2	11716	30.4351	281.5099	0037412	135.8566	174.3585	16.26302948			738

1	11716U	80	18	B	80	58.95463187	.08174136	-23319-4	13663-3	0	165
2	11716	30.4264	273.4169	0011034	187.5581	173.4858	16.39737792				902

1	11719U				80	60.77561093	.00163411	-37891-4	10593-2	0	14
2	11719	26.0796	304.1006	7178537	211.0874	72.4169	2.44737464				769

1	11718U				80	61.42697741	.00037402	00000-0	52550-2	0	34
2	11718	24.5385	314.2112	7283046	124.1514	163.0351	2.29450128				186

80-19-A

NOSS 3.

Lrp: ~~01~~ 3mars

19

1	11720U	80 20	A 80	63.44205869	-.00000036	00000-0	00000 0 0	08
2	11720	63.5027		22.9306 0077560	308.3083	51.0987	13.43972200	09

1	11720U	80 <del>20</del> 19 A	80	63.44205869	-.00000036	00000-0	00000 0 0	19
2	11720	63.5027		22.9306 0077560	308.3083	51.0987	13.43972200	09

1	11720U	80 <del>20</del> 19 A	80	63.74013854	-.00000035	00000-0	00000 0 0	23
2	11720	63.4946		22.2212 0057656	305.0810	54.4958	13.41570071	40

1	11720U	80 <del>20</del> 19 A	80	63.88921561	-.00000036	00000-0	00000 0 0	33
2	11720	63.4951		21.8436 0057493	304.0913	55.4664	13.41529903	66

1	11720U	80 <del>20</del> 19 A	80	64.26189662	-.00000036	00000-0	00000 0 0	45
2	11720	63.4828		20.9014 0062825	304.1898	55.2808	13.41594742	116

1	11721U		80	63.74036581	-.00000035	00000-0	00000 0 0	26
2	11721	63.5188		22.3215 0048761	300.2416	59.3786	13.40591977	40

1	11721U		80	63.81495912	-.00000035	00000-0	00000 0 0	32
2	11721	63.5248		22.0328 0062736	306.3178	53.2065	13.40686231	51



1	11720U	80	19	A	80	65.90343840	-.00000252	00000-0	-38914-3	0	89
2	11720	63.4848	16.7366	0062105	301.1723	58.3222	13.40690810				335

1	11720U	80	19	A	80	66.27638438	-.00000252	00000-0	-38914-3	0	91
2	11720	63.4823	15.7805	0061962	300	5859	58.9500	13.40682431			387

1	11720U	80	19	A	80	67.02255320	-.00000255	00000-0	-38914-3	0	105
2	11720	63.4955	13.9070	0005391	149.8266	210.3070	13.42222629				486

1	11720U	80	19	A	80	67.69310004	-.00000255	00000-0	-38914-3	0	121
2	11720	63.4862	12.1774	0000505	275.3050	84.7918	13.42177288				578

1	11720U	80	19	A	80	74.10943831	-.00000215	00000-0	-56125-3	0	218
2	11720	63.4845	355.3811	0077897	156.7196	203.7387	13.39702397				1439

1	11721U				80	82.07632259	-.00000035	00000-0	00000	0	184
2	11721	63.4827	335.5726	0061712	305.9483	53.5869	13.41619443				2503

1	11733U				80	80.15105198	.00000377	00000-0	14999-1	0	68
2	11733	63.4803	340.5358	0079343	161.4246	198.9774	13.40756151				2248

1	11734U				80	84.10335104	.00000227	00000-0	50395-3	0	35
2	11734	63.4874	330.4886	0078339	161.5704	198.7185	13.40273470				2777

1	11733U				80	84.62611328	.00001961	00000-0	35917-2	0	90
2	11733	63.4880	329.1620	0078812	162.5148	197.8619	13.40769688				2849

1	11745U	1980-019	90115.38568214				.00000210	00000-0	48161-3	0	109
2	11745	63.4767	250.7689	0076389	203.7625	155.9804	13.39744792				5969

80-19A

NO553

• fonts. 1

1	11720U	80	19	A	80116.50673103	.00000108	00000-0	29697-3	0	479
2	11720	63.4781	248.3549	0075725	155.6521	204.9117	13.39677592	7112		
1	11720U	80	19	A	80125.01626095	.00000012	00000-0	12310-3	0	492
2	11720	63.4806	226.7751	0075052	155.4185	205.0455	13.39678874	8250		

80-20A

Kosmos 1166

Upp: 4 mars

1	11722U	80 20	A 80	64.42924766	-.00001682	11698-4	00000 0 0	11
2	11722	72.8473	324.6340	0133082	83.6936	278.0223	15.96091397	09
1	11722U	80 20	A 80	64.74284079	-.00001638	11257-4	00000 0 0	25
2	11722	72.8497	323.8117	0137040	83.5427	278.1384	15.94999817	51
1	11722U	80 20	A 80	64.80556038	-.00001681	11583-4	00000 0 0	30
2	11722	72.8420	323.6507	0137434	83.9818	277.7052	15.95012586	61
1	11722U	80 20	A 80	64.99380376	-.00000062	00000-0	00000 0 0	41
2	11722	72.8635	323.1883	0054886	202.9175	156.9597	15.58107818	95
1	11722U	80 20	A 80	65.18624545	-.00000064	00000-0	00000 0 0	55
2	11722	72.8579	322.7280	0045302	212.2797	147.5702	15.60908174	121
1	11722U	80 20	A 80	67.04484749	.00000991	00000-0	11984-4 0	70
2	11722	72.8480	318.2887	0044353	207.2757	152.1835	15.60899310	412
1	11722U	80 20	A 80	67.30129197	.00004616	00000-0	53161-4 0	84
2	11722	72.8505	317.6767	0043969	206.8779	153.0307	15.60908165	453
1	11722U	80 20	A 80	68.32676095	.00004362	00000-0	50200-4 0	91
2	11722	72.8504	315.2227	0044471	204.4993	155.4376	15.60912175	619

1	11722U	80	20	A	80	69.28812637	.00000992	00000-0	10750-4	0	108
2	11722	72.8529	312.9243	0044040	271.9383	157.9324	15.60915964				764

1	11722U	80	20	A	80	70.31358981	.00003140	00000-0	36401-4	0	117
2	11722	72.8496	310.4716	0043815	199.8857	160.0796	15.60924122				923

1	11722U	80	20	A	80	71.27495076	.00003722	00000-0	42978-4	0	123
2	11722	72.8496	308.1729	0043699	197.5383	162.4342	15.60932035				1070

1	11722U	80	20	A	80	72.42857995	.00006252	00000-0	71685-4	0	132
2	11722	72.8497	305.4144	0043535	195.0399	164.9395	15.60941032				1252

1	11722U	80	20	A	80	72.42858222	.00006255	00000-0	71685-4	0	140
2	11722	72.8491	305.4139	0043739	194.9324	165.0650	15.60943131				1252

1	11722U	80	20	A	80	75.24854911	-.00000528	00000-7	-53045-5	0	199
2	11722	72.8527	298.6732	0042929	188.4353	171.5714	15.60942176				1699

1	11722U	80	20	A	80	73.45402114	-.00000261	00000-0	-22594-5	0	159
2	11722	72.8482	302.9620	0043444	192.9346	167.1167	15.60935252				1413

1	11722U	80	20	A	80	73.45403178	-.00000355	00000-0	-53137-5	0	160
2	11722	72.8485	302.9623	0043413	192.8387	167.1721	15.60935125				1415

1	11722U	80	20	A	80	74.28720490	.00007819	00000-0	89448-4	0	177
2	11722	72.8516	300.9721	0043333	190.4112	169.6153	15.60952926				1546

1	11722U	80	20	A	80	74.28720490	.00007819	00000-0	39448-4	0	188
2	11722	72.8516	300.9721	0043333	190.4112	169.6153	15.60952926				1546

80-20A

Kosmos 1166

forts. 1

1	11722U	80	20	A	80	76	33809666	.00001757	00000-0	20685-4	0	216
2	11727	72.8502	296.0684	0043203	186.0795	174.0093	15.60948739					1863
1	11722U	80	20	A	80	77	29944260	.00001482	00000-0	17553-4	0	228
2	11722	72.8498	293.7693	0043146	183.7755	176.2991	15.60950037					2010

80-21A

Kosmos 1167

1	11730U		80	74.87126319	.38932120	35657-4	24958-3	0	10
2	11730	65.0141		5.3753 0138720	62.8195	298.7050	16.31784031		79

Upp: 14mars

1	11729U		80	74.50163888	-.00004493	31118-4	30000 0 0		18
2	11729	65.0051		6.2053 0335309	55.7109	307.3306	15.66962785		09

1	11729U		80	74.69519604	-.00000130	00000-0	00000 0 0		27
2	11729	65.0293		6.3340 0011282	269.9312	90.0535	15.43394782		30

1	11729U		80	74.69519604	-.00000130	00000-0	00000 0 0		27
2	11729	65.0293		6.3340 0011282	269.9312	90.0535	15.43394782		30

1	11729U		80	75.21356739	-.00000132	00000-0	00000 0 0		49
2	11729	65.0283		4.6013 0011950	270.7452	89.2333	15.43388851		120

1	11729U		80	80.26777730	.00140195	00000-0	30344-2	0	105
2	11729	65.0368		347.7450 0010729	267.6276	92.4167	15.43674236		904

1	11729U		80	80.95040051	.00130876	00000-0	30344-2	0	117
2	11729	65.0299		345.3692 0011582	274.2897	85.6920	15.43598387		1016

1	11729U	80	81.23963970	.00140046	00000-0	30344-2 0	123
2	11729	65.0235	344.5050	0009990	267.3822	92.5541 15.43650405	1056

1	11729U	80	82.01711128	.00140248	00000-0	30344-2 0	141
2	11729	65.0295	341.9129	0017207	277.6042	81.9507 15.43591986	1173

1	11729U	80	82.01717574	.00140166	00000-0	30344-2 0	153
2	11729	65.0271	341.9043	0014840	265.8354	94.1376 15.43614151	1177

1	11729U	80	82.27632467	.00139748	00000-0	30344-2 0	163
2	11729	65.0234	341.0353	0010125	273.6749	86.1572 15.43587266	1218

1	11729U	80	82.40595624	.00139362	00000-0	30344-2 0	174
2	11729	65.0213	340.6057	0009347	277.9547	82.0533 15.43514324	1237

1	11729U	80	82.98905661	-.00020962	00000-0	-46447-3 0	183
2	11729	65.0286	338.6645	0010403	273.5093	86.1701 15.43427275	1320

1	11729U	80	87.33060544	.00004379	00000-0	99999-4 0	261
2	11729	65.0291	324.1840	0010935	272.6102	87.6522 15.43399558	1996

1	11729U	1980-021	80113.44324957	.00004377	00000-0	99999-4 0	758
2	11729	65.0223	237.0443	0010558	273.7763	86.2200 15.43383653	6024

1	11729U	1980-021	80115.32238945	.00000320	00000-0	99999-5 0	786
2	11729	65.0246	230.7773	0010286	277.9839	81.8956 15.43363701	6316

1	11729U	1980-021	80116.35908515	.00065098	00000-0	14332-2 0	796
2	11729	65.0221	227.3194	0011023	274.0541	85.9126 15.43513170	6474

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Kosmos 1167

forts. 1

1	11729U	1980-021	80117.39579060	.00065054	00000-7	14332-2 0	804
2	11729	65.0252	223.8585 0010798	270.4026	89.5657	15.43495778	6638
1	11729U	1980-021	80117.91412800	-.00013022	00000-0	-28673-3 0	815
2	11729	65.0255	222.1799 0010265	272.8089	87.2256	15.43443161	6716
1	11729U	1980-021	80120.24681020	-.00016578	00000-0	-36729-3 0	840
2	11729	65.0269	214.3481 0010180	278.7991	80.8717	15.43352849	7075
1	11729U	1980-021	80123.42177301	.00004383	00000-0	99999-4 0	876
2	11729	65.0246	203.7546 0009543	274.4259	85.4532	15.43435642	7563
1	11729U	1980-021	80126.85596235	-.00016101	00000-0	-35551-3 0	930
2	11729	65.0231	192.2927 0009972	271.5926	88.3093	15.43444590	8097
1	11729U	80 021 A	80143.44384379	.00116990	00000-0	25498-2 0	1166
2	11729	65.0293	136.9438 0009951	266.9602	93.3006	15.43574769	10650
1	11729U	80 021 A	80192.36472354	.00012198	00000-0	27620-3 0	1909
-2	11729	65.0213	333.6913 0010014	273.5928	86.4174	15.43399348	18209
1	11729U	80 021 A	80194.24373498	.00000321	00000-0	99999-5 0	1924
-2	11729	65.0214	327.4212 0009754	270.9841	89.0265	15.43469550	18491



80-22 A

Kosmos 1168

1	11735U	80	23	A	30	78.17827737	.00000006	00000-0	00000 0 0	11
2	11735	82.9719	167.8152	0032464	279.2453	80.5169	13.73031006			42
1	11735U	80	23	A	30	78.54256715	.00227497	00000-0	23461 0 0	41
2	11735	82.9519	167.5210	0034448	279.6336	80.1104	13.73369106			95

80-23A

Kosmos 1169

Upp: 17 mars

1	11741U	80 23	A 80	87.43250870	-.00000099	00000-0	00000 0 0	11
2	11741	65.8528	278.4485	0026786	22.6643	336.0321	15:22371606	12
1	11741U	80 23	A 80	87.43250870	-.00000133	00000-0	00000 0 0	28
2	11741	65.8479	278.4369	0034253	352.9876	6.0252	15.24875539	16
1	11741U	80 23	A 80	87.43843569	.00009533	00000-0	39999-3 0	36
2	11741	65.8395	278.2292	0028269	351.8507	8.2123	15.23572880	29
1	11741U	80 23	A 80	87.45227581	.00009556	00000-0	39999-3 0	86
2	11741	65.8410	268.9669	0028361	349.8947	10.1877	15.23647474	478
1	11741U	80 23	A 80	115.25786905	.00013927	00000-0	56559-3 0	248
2	11741	65.8380	191.0774	0030019	337.0129	22.9592	15.24385134	4270
1	11741U	80 23	A 80	118.27575465	.00012919	00000-0	52407-3 0	260
2	11741	65.8377	181.5969	0030309	335.2350	24.7324	15.24460730	4735
1	11741U	80 23	A 80	119.25982188	.00011606	00000-0	47121-3 0	284
2	11741	65.8419	179.5051	0030860	335.0597	24.9026	15.24477658	4887

80-24A

Progress 8

Upp: 27mars

1	11743U	80024	A	80087	96374370	0	00000000	3000	00	30000-0	0	00015
2	11743	51.6225		117	6115	0021820	154.1639	206.1151	16.14893591000037			

1	11743U	80 24	A	80	89.82034568	.00744755	34473-3	54238-3	0	38
2	11743	51.6069		107	4389	0007765	117.6006	242.5843	16.15082582143793	

1	11743U	80 24	A	80	89.82034568	.00744755	34473-3	54238-3	0	50
2	11743	51.6069		107	4389	0007765	117.6006	242.5843	16.15082582143793	

1	11743U	80 24	A	80	89.82034568	.00744755	34473-3	54238-3	0	61
2	11743	51.6069		107	4389	0007765	117.6006	242.5843	16.15082582143793	

1	11743U	80 24	A	80	98.76652253	.00079787	00000-0	53288-3	0	113
2	11743	51.6216		61	4716	0011958	264.6820	95.2816	15.74531852145200	

1	11743U	80 24	A	80	98.76652251	.00079086	00000-0	53280-3	0	104
2	11743	51.6216		61	4716	0011961	264.6504	95.3132	15.74531837145208	

1	11743U	80 24	A	80	98.76652251	.00079775	00000-0	53281-3	0	122
2	11743	51.6216		61	4716	0011961	264.6510	95.3126	15.74531837145208	

80-25A

Kosmos 1170

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1	11747U	80 25	A 80	92.39072933	-.00002577	17611-4	00000 0 0	15
2	11747	70.3908	352.8887	0150818	60.8943	300.7272	15.97452522	17
1	11747U	80 25	A 80	92.70308748	-.00002695	18603-4	00000 0 0	20
2	11747	70.3908	351.9915	0150818	60.3084	301.3046	16.01491900	60
1	11747U	80 25	A 80	93.07784143	.00315640	18445-4	22771-4 0	33
2	11747	70.3686	350.8960	0143787	54.2835	307.7404	16.02095107	129
1	11747U	80 25	A 80	93.13960616	.00401865	18899-4	22771-4 0	40
2	11747	70.3437	350.7496	0123951	42.1357	318.9307	16.09392535	131
1	11747U	80 25	A 80	93.26390981	.00451331	19182-4	22771-4 0	53
2	11747	70.3709	350.3566	0131755	40.8912	320.2097	16.09779861	155
1	11747U	80 25	A 80	93.38819293	.00473676	18412-4	23322-4 0	66
2	11747	70.3770	349.9876	0133113	40.7404	320.3675	16.09893089	170
1	11747U	80 25	A 80	93.51245989	.00518968	18863-4	25330-4 0	72
2	11747	70.3768	349.6227	0133020	40.4264	320.6773	16.10033277	193
1	11747U	80 25	A 80	94.25784325	.00560822	19070-4	26578-4 0	89
2	11747	70.3761	347.4400	0130642	39.0736	322.1170	16.10892432	318

1	11747U	80	25	A	80	94.38200917	.00558649	18536-4	26322-4	0	96
2	11747	70	3759	347.0759	0130352	38.8675	322.1767	16.1128962			339

1	11747U	80	25	A	80	95.25103634	.00569692	18602-4	25983-4	0	104
2	11747	70.3781	344.5234	0127437	37.3273	323.7292	16.12028681				476

1	11747U	80	25	A	80	95.25103634	.00569692	18602-4	25983-4	0	115
2	11747	70.3781	344.5234	0127437	37.3273	323.7292	16.12028681				476

1	11747U	80	25	A	80	96.18152065	.00596911	18865-4	26072-4	0	126
2	11747	70.3764	341.7860	0124554	35.6908	325.4251	16.13172249				626

1	11747U	80	25	A	80	97.29287576	.00451411	18865-4	25347-4	0	142
2	11747	70.3654	332.5036	0138206	44.1453	317.0694	16.07000339				803

1	11747U	80	25	A	80	98.35676729	.00470483	18931-4	25347-4	0	151
2	11747	70.3753	335.4159	0136026	42.2540	319.0392	16.08020165				974

1	11747U	80	25	A	80	99.28960037	.00480204	18726-4	25347-4	0	166
2	11747	70.3766	332.6867	0132614	40.8083	322.4897	16.09459203				1127

1	11747U	80	25	A	80	100.28402951	.00501739	18201-4	25347-4	0	178
2	11747	70.3775	329.7797	0130363	39.6425	322.6393	16.09997482				1283

1	11747U	80	25	A	80	101.02934682	.00563720	19120-4	27971-4	0	189
2	11747	70.3803	327.5957	0126880	37.5346	323.4645	16.10982623				1403

1	11747U	80	25	A	80	101.27771554	.00527167	18765-4	25613-4	0	196
2	11747	70.3753	326.9652	0127423	37.5118	323.4062	16.11102666				1442

80-25A

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1	11747U	80	25	A	80101.99842299	.00493783	18999-4	25613-4	0	206
2	11747	70.3866	325.0376	0138876	35.0271	325.9982	16.08069100			1548

1	11747U	80	25	A	80102.52035480	.00505833	18267-4	25613-4	0	212
2	11747	70.3784	323.2248	0137205	33.8403	327.1474	16.08728796			1647

1	11747U	80	25	A	80102.52035480	.00505833	18267-4	25613-4	0	223
2	11747	70.3784	323.2248	0137205	33.8403	327.1474	16.08728796			1647

1	11747U	80	25	A	80102.52035653	.00575406	18418-4	29214-4	0	238
2	11747	70.3760	323.2280	0136747	33.9683	327.0303	16.08763270			1644

1	11747U	80	25	A	80102.52035653	.00575406	18418-4	29214-4	0	249
2	11747	70.3760	323.2280	0136747	33.9683	327.0303	16.08763270			1644

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Kosmos 1171

Apr 3 April

1	11750U	1980-026	80111.34472574	.00000222	00000-0	29999-3 0	244
2	11750	65.8419	246.3697 0029750	299.8094	60.0339	13.73285457	2345

1	11750U	1980-026	80113.38382985	.00000042	00000-0	79092-4 0	268
2	11750	65.8440	241.3515 0029801	299.0351	60.7698	13.73284819	2624

1	11750U	80 026 A	80115.27728731	.00000061	00000-0	99999-4 0	281
2	11750	65.8436	236.6844 0029911	298.1317	61.6715	13.73286654	2883

1	11750U	80 026 A	80116.36965859	.00000061	00000-0	99999-4 0	297
2	11750	65.8435	233.9955 0029766	297#8678	61.8869	13.73285807	3038

1	11750U	80 026 A	80117.38922297	.00000061	00000-0	99999-4 0	301
2	11750	65.8450	231.4856 0029667	297.3122	62.4874	13.73285411	3176

1	11750U	80 026 A	80118.26312788	.00000044	00000-0	53713-3 0	316
2	11750	65.8445	229.3327 0029802	297.1721	62.6312	13.73286673	3296

1	11750U	80 026 A	80119.28268209	.00000044	00000-0	53713-3 0	328
2	11750	65.8440	226.8232 0029931	296.9109	62.8875	13.73286765	3432

1	11750U	80	026	A	80120.22941056	.00000444	00000-0	53713-3	0	333
2	11750	65.8432	224.4920	0030100	296.6906	63.1018	13.73287176			3567

1	11750U	80	026	A	80140.25636926	.00000061	00000-0	99999-4	0	540
2	11750	65.8406	175.1739	0030749	239.5630	70.2099	13.73286998			6317

1	11750U	80	026	A	80141.27592286	.00000061	00000-0	99999-4	0	554
2	11750	65.8413	172.6651	0030723	289.0784	70.6941	13.73287064			6457

1	11750U	80	026	A	80142.44112637	.00000061	00000-0	99999-4	0	568
2	11750	65.8412	169.7955	0030827	298.8729	70.8965	13.73286640			6616

1	11750U	80	026	A	80143.46068103	.00000011	00000-0	93206-3	0	583
2	11750	65.8410	167.2856	0030893	288.3498	71.4231	13.73287807			6752

1	11750U	80	026	A	80144.26175733	.00000053	00000-0	-21985-4	0	597
2	11750	65.8407	165.3152	0030748	287.7712	71.9938	13.73286773			6869

1	11750U	80	026	A	80216.28582829	.00000238	00000-0	31693-3	0	1349
2	11750	65.8440	347.9542	0031434	263.5105	96.2014	13.73291519			16756



80-27A

Soyuz 35

Upp: 9 apr 78

1	11753U	80 27	A	80100.30717048	-.00000277	57113-4	00000 0 0	28
2	11753	51.6233		51 1272 0037833	68.9522	291.5536	16.20476303	40

1	11753U	80 27	A	80100.80652397	-.00000511	00000-0	00000 0 0	36
2	11753	51.6158		51 0871 0035064	212.3975	147.4882	15.94197138	40

1	11753U	80 27	A	80101.05737951	-.00000492	20000-0	00000 0 0	42
2	11753	51.6122		49.7471 0031669	206.4802	153.4591	15.93107547	80

1	11753U	80 27	A	80101.30827251	-.00000493	00000-0	00000 0 0	56
2	11753	51.6208		48.4385 0031712	209.0113	150.9435	15.93225294	125

1	11753U	80 27	A	80101.30826725	-.00000494	00000-0	00000 0 0	63
2	11753	51.6215		48.4381 0032099	208.8215	151.1051	15.93225387	128

1	11753U	80 27	A	80101.55914596	-.00000496	00000-0	00000 0 0	77
2	11753	51.6251		47.1142 0033856	211.7068	148.2084	15.93256749	163

1	11753U	80 27	A	80101.74896218	-.00000331	00000-0	00000 0 0	87
2	11753	51.6265		46.1768 0008458	249.0213	110.9984	15.75885112	196

1	11753U	80	27	A	80102.44651040	-.00000496	00000-0	00000 0 0	90
2	11753	51.6213	42.4202	0034435	214.8901	198.1969	15.93253845		306

1	11753U	80	27	A	80105.93324771	.00048184	00000-0	29758-3 0	107
2	11753	51.6276	24.5691	0008258	281.6293	78.4259	15.76582224		852

1	11753U	80	27	A	80105.93323922	.00077972	00000-0	47562-3 0	116
2	11753	51.6275	24.5681	0008090	231.0890	78.9618	15.76621280		856

1	11753U	80	27	A	80109.35522147	.00086052	00000-0	50938-3 0	126
2	11753	51.6240	6.9117	0009014	323.1536	56.8600	15.77295181146873		

1	11753U	80	27	A	80109.41853154	.00089954	00000-0	53206-3 0	134
2	11753	51.6249	6.5908	0008029	293.7375	66.0133	15.77307210146988		

1	11753U	80	27	A	80137.70540576	.00071747	00000-0	43149-3 0	178
2	11753	51.6251	220.9435	0022097	322.7998	37.1471	15.76714347		5850

1	11753U	80	27	A	80137.70540576	.00071806	00000-0	43200-3 0	183
2	11753	51.6240	220.9442	0021819	322.6791	37.2690	15.76713958		5852

1	11753U	80	27	A	80155.60656122	.24324012	62572-4	40675-3 0	193
2	11753	51.6259	128.9571	0032423	324.1213	35.7644	16.61391972		7449

80-28

Kosmos 1172

Lapp: 12 april

1	11758U	1980-028	80104.90465076	.00031270	00000-0	58375 0 0	38
2	11758	62.7739	95.5177 7387987	319.6051	4.3980	1.98396676	49

1	11758U	1980-028	80104.90452873	.00031885	00000-0	58375 0 0	41
2	11758	62.7648	95.4993 7388373	319.6087	4.2071	1.98370567	43

1	11783U		80120.28219918	.00000003	00000-0	00000 0 0	51
2	11783	62.8808	83.4242 0114850	141.2373	219.5548	2.03482396	97

1	11758U	1980-028	80114.42958585	-.00000734	00000-0	00000 0 0	148
2	11758	62.8073	94.0743 7368000	319.6846	4.3594	2.00140013	234

1	11758U	80 28	A 80190.69150467	-.00001166	00000-0	00000 0 0	1048
2	11758	63.0294	82.6369 7330020	319.9863	7.6143	2.00711726	1756

1	11758U	80 28	A 81305.59148802	-.00001051	00000-0	00000 0 0	6145
2	11758	64.6636	16.9597 7155770	318.4110	5.3632	2.00602598	11409

80-29A

Kosmos 1173

Upp: 17 april

1	11763U	80 29	A	80108.34923346	-.00002774	18719-4	20000 0 0	15
2	11763	70.3051		16.2651 0134882	54.3281	307.0402	16.04477354	03
1	11763U	80 29	A	80108.47402333	-.00002685	18603-4	00000 0 0	28
2	11763	70.2948		15.8759 0134225	54.9999	306.3730	16.03221611	23
1	11763U	80 29	A	80109.09790473	.00397735	18532-4	19121-4 0	33
2	11763	70.3121		14.0623 0150714	61.4485	300.1806	16.06999142	124
1	11763U	80 29	A	80109.28463859	.00416509	18880-4	19121-4 0	49
2	11763	70.3083		13.5095 0149976	59.6418	302.3425	16.07794367	158
1	11763U	80 29	A	80110.21904687	.00559853	19134-4	25181-4 0	60
2	11763	70.2976		10.7756 0145631	58.2387	306.5229	16.08885135	305
1	11763U	80 29	A	80111.33619137	.00590266	19003-4	25377-4 0	71
2	11763	70.2973		7.4851 0141909	55.7979	305.8419	16.10222961	487
1	11763U	80 29	A	80112.45390975	.00639738	19062-4	26750-4 0	95
2	11763	70.2959		4.1957 0136070	54.1197	307.6609	16.11599842	662

1	11763U	80	29	A	80113	26740766	.007692429	18945-4	27882-4	0	103
2	11763	70.2952			1	8131	0132787	52.5331	305.7878	16.12333472	799
1	11763U	80	29	A	80113	44645935	.00682127	19255-4	27396-4	0	118
2	11763	70.2928			1	2646	0131664	52.1778	309.1230	16.13079347	827
1	11763U	80	29	A	80114	06652698	.00503029	18954-4	27396-4	0	120
2	11763	70.3037	359	4301	0129002		53.3595	303.0035	16.09276991		928
1	11763U	80	29	A	80114	19088203	.00379838	19099-4	-18251-4	0	132
2	11763	70.2966	359	0653	0136382		57	9070	303.6452	16.09466878	948
1	11763U	80	29	A	80114	25301390	.00194832	18751-4	99999-5	0	145
2	11763	70.2621	358	9139	0132132		60.2428	301.2827	16.09571036		955
1	11763U	80	29	A	80115	30910462	.00570636	19324-4	26638-4	0	166
2	11763	70.2974	355	7733	0132233		56.1474	305.2576	16.10825177		1123
1	11763U	80	29	A	80116	24029419	.00566544	18984-4	25384-4	0	185
2	11763	70.2957	353	0316	0129702		54.6843	306.5968	16.11881213		1271
1	11763U	80	29	A	80117	10922046	.00524240	19259-4	25384-4	0	193
2	11763	70.2768	350	4894	0146448		52.4417	308.9997	16.07674531		1414
1	11763U	80	29	A	80117	29587258	.00781157	18821-4	36134-4	0	209
2	11763	70.2984	349	9256	0148034		52.0590	309.4028	16.08009920		1448
1	11763U	80	29	A	80117	85559023	.00548739	18898-4	25528-4	0	217
2	11763	70.2976	348	2922	0144835		51.2430	309.7516	16.08552392		1531

80-29A

Kosmos 1173 fonts-1

1	11763U	80	29	A	80119.28520558	.00596590	18714-4	26400-4	0	234
2	11763	70.3004	344.0816	7139482	48.4576	312.8745	16.10263793			1760

80-30A

Kosmos 1174

Upp = 18 april

1	11765U	80 30	A	80109	09158026	-	00000117	00000-2	00000 0 0	24
2	11765	65.8370		251.9257	0468620		271.6102	83.1396	14.59948755	34
1	11765U	80 30	A	80109	09158026	-	00000117	00000-2	00000 0 0	68
2	11765	65.8370		251.9257	0468620		271.6102	83.1396	14.59948755	74
1	11765U	80 30	A	80109	22859820	-	00000118	00000-2	00002 0 0	30
2	11765	65.8307		251.6925	0468470		271.4232	83.3277	14.59887756	29
1	11765U	82 30	A	80109	51771250	-	00000077	00002-2	00000 0 0	48
2	11765	66.1153		250.9679	0865337		248.5294	102.2095	13.64414319	69
1	11765U	80 30	A	80110	91035611	-	00000076	00002-2	00000 0 0	70
2	11765	66.1326		247.5615	0864202		248.0514	102.6592	13.64469860	251
1	11765U	80 30	A	80110	17737548		00112661	00002-2	81467-2 0	56
2	11765	66.1285		249.3465	0864732		248.2404	102.4526	13.64636916	150
1	11765U	80 30	A	80111	35013939	-	00000076	00002-2	00000 0 0	89
2	11765	66.1288		246.5199	0865311		247.5724	103.1419	13.64462880	327

1	11765U	80	30	A	80112	00001920	00006474	00000-0	19305-3	0	97
2	11765	66	1261		244.9161	0865182	247.1792	103.6049	13.64481226		418

1	11765U	80	30	A	80113	40242871	00006955	00000-0	51857-3	0	130
2	11765	66	1256		241.5245	0864959	246.4162	104.3363	13.64531220		622

1	11765U	80	30	A	80115	30810318	00006241	00000-0	46705-3	0	124
2	11765	66	1246		236.8816	0864676	245.3682	105.4874	13.64525922		860

1	11766U				80109	46909200	00004716	32466	4	00000	0	16
2	11766	65	1802		252.5440	0225810	47.4702	314.5289	15.97731087		05	

1	11766U				80110	18402863	070454656	33359-4	20089-2	0	34
2	11766	65	1200		250.5650	0190114	46.5000	315.1796	16.05743939		99

1	11766U				80109	53032631	00004758	32971	4	00000	0	27
2	11766	65	1312		252.4233	0214595	47.2848	314.6164	15.97268542		16	

1	11765U	80	30	A	80118	23984376	00006093	00000-0	45605-3	0	150
2	11765	66	1251		229.7387	0864402	243.7751	107.2116	13.64560768		1267



80-31A

Kosmos 1175

Upp: 18 apr 1

1	11768U		20109	90708829	.22901732	99776-5	48999-3	0	17
2	11768	62.8463	59.2672	0167418	129.6796	231.9246	15.92407626		33

1	11768U		20109	90708829	.22901732	99776-5	48999-3	0	21
2	11768	62.8463	59.2672	0167418	129.6796	231.9246	15.92407626		33

Misslyckad helning eller early warning?

80-32A

Navstar 6

Upp: 26 april

1	11783U		80117.83362919	.00000270	-18503-5	00000 0 0	24
2	11783	63.0247	83.8212 6060659	158.9002	244.4950	4.05618770	01
1	11783U		80118.81961551	.00003200	-22082-4	00000 0 0	33
2	11783	63.0248	83.3989 6057173	158.8622	244.3963	4.05664195	41
1	11783U		80119.80559766	.00000249	-16924-5	00000 0 0	44
2	11783	63.0256	83.0072 6056791	158.8723	244.3191	4.05664462	80
1	11783U	80 32 A	80164.09102090	.00000003	00000-3	00000 0 0	186
2	11783	62.8948	82.0282 0066325	33.6283	277.1287	2.00565633	973

80-33A

Progress 9

Lpp: 27 april

1	11784U		80118.32068148	.01115633	57059-4	59999-4	0	10
2	11784	51.6498	321.0682	0052931	89.2637	271.4446	16.19813679	13
1	11784U		80118.50497784	.00029550	00000-0	59999-4	0	25
2	11784	51.6339	320.0268	0079476	201.5763	158.1891	15.93331326	41
1	11784U		80119.32050390	.00228939	00000-0	59999-4	0	34
2	11784	51.6490	315.7368	0079200	206.0746	153.8300	15.93023878	178
1	11784U		80119.38322801	.00027162	00000-0	59999-4	0	47
2	11784	51.6490	315.4050	0079193	206.3217	153.3758	15.91981295	187
1	11784U		80120.19924265	.00025949	00000-0	59999-4	0	52
2	11784	51.6422	311.1071	0071859	210.0692	149.4825	15.92126862	316
1	11784U		80120.19926141	-.00272475	00000-0	-63901-3	0	65
2	11784	51.6425	311.1023	0073939	209.7036	149.9717	15.92029359	311

1	11784U		80134.59932763	.00114412	00000-0	69657-3 0	81
2	11784	51.6256	236.9529	0021487	309.4993	50.4274 15.76268772	3479

1	11784U		80135.86722681	.00063404	00000-0	38674-3 0	100
2	11784	51.6214	230.4327	0022389	316.8488	43.0757 15.76433986	2791

1	11784U		80135.86722693	.00063355	00000-0	38645-3 0	128
2	11784	51.6214	230.4325	0022450	316.9612	42.9633 15.76433543	2798

1	11784U		80142.02554369	.00061938	00000-0	43067-3 0	137
2	11784	51.6280	198.7907	0021176	293.2076	76.6474 15.73483822152028	

1	11784U		80142.02554369	.00061938	00000-0	43067-3 0	148
2	11784	51.6280	198.7907	0021176	293.2076	76.6474 15.73483822	3753

1	11784U		80142.08899503	.00064357	00000-0	43067-3 0	155
2	11784	51.5922	198.3203	0034017	158.0398	202.2067 15.73843602152031	

1	11784U		80142.27474670	.06804839	16119-4	43067-3 0	166
2	11784	51.6488	197.4632	0017414	279.6865	80.2187 16.19280495152062	

1	11784U		80142.58291483	.00709782	00000-0	45645-4 0	190
2	11784	51.6384	195.7579	0016779	269.3193	87.8054 16.19023002	3881

1	11784U		80142.27474667	.06803766	15992-4	43067-3 0	179
2	11784	51.6487	197.4632	0017406	279.6301	80.2751 16.19277876152063	

1	11784U		80142.58291483	.00709782	00000-0	45645-4 0	189
2	11784	51.6384	195.7579	0016779	269.3193	87.8054 16.19023002152112	

80-34A

Kosmos 1176

Upp: 29 april

1	11788U		80120.54154450	-.00000369	00000-0	00000 0 0	05
2	11788	65.0240	67.3272 0011810	271.1191	88.8627	16.06167491	04
1	11788U		80120.54154450	-.00000369	00000-0	00000 0 0	16
2	11788	65.0240	67.3272 0011810	271.1191	88.8627	16.06167491	04
1	11788U		80120.79060606	-.00000371	00000-0	00000 0 0	26
2	11788	65.0298	66.4166 0011810	270.9989	88.9829	16.06160613	49
1	11790U	80 35 B	80120.54154450	-.00000372	00000-0	00000 0 0	19
2	11790	65.0242	67.3274 0011810	271.1189	88.8629	16.06167439	02
1	11788U	80 034 A	80121.28872967	-.00000373	00000-0	00000 0 0	30
2	11788	65.0252	64.5943 0012329	268.1922	91.8661	16.06192868	126
1	11788U	80 034 A	80123.40553614	.00095822	87677-5	12903-3 0	76
2	11788	65.0221	56.8404 0010664	258.6639	101.3801	16.06237450	470
1	11788U	80 034 A	80124.21487477	.00072914	00000-0	94992-4 0	86
2	11788	65.0251	53.8739 0010216	262.6931	97.1600	16.06382189	603

1	11788U	80	034	A	80127.26559294	.00064358	00000-0	84377-4	0	125
2	11788	65.0239	42.6977	0009080	265.8093	94.2065	16.06339932			1090

1	11788U	80	034	A	80128.26168257	.00078296	74213-5	10469-3	0	131
2	11788	65.0241	39.0530	0009160	267.7909	92.2633	16.06499309			1256

1	11788U	80	034	A	80129.13334150	-.00004036	00000-0	-49054-5	0	140
2	11788	65.0240	35.8595	0010601	293.7860	76.1354	16.06116120			1390

1	11788U	80	034	A	80129.19561328	.00199713	20766-4	25399-3	0	159
2	11788	65.0245	35.6310	0011126	273.0221	87.0252	16.06223668			1405

1	11788U	80	034	A	80124.77521344	.00048985	00000-0	.64308-4	0	99
2	11788	65.0196	51.8220	0010279	263.7915	96.2095	16.06371374			697

1	11788U	80	034	A	80125.33552722	.00007198	00000-0	99999-5	0	104
2	11788	65.0277	49.7694	0010358	261.9136	97.8715	16.06275203			782

1	11788U	80	034	A	80126.26947531	-.00012503	00000-0	-16069-4	0	118
2	11788	65.0267	46.3476	0010734	265.1846	94.8990	16.06287355			934

1	11788U	80	034	A	80130.19180261	.00074224	73873-5	10023-3	0	179
2	11788	65.0233	31.9829	0010933	274.9682	95.0164	16.06317124			1561

1	11788U	80	034	A	80131.18790629	.00080996	75308-5	10804-3	0	187
2	11788	65.0232	28.3351	0010813	275.0211	85.0215	16.06488937			1722

1	11788U	80	034	A	80131.91048288	.00079148	73727-5	10804-3	0	191
2	11788	65.0285	26.0607	0010216	267.4559	92.5443	16.06136842			1827

80-34 A

Kosmos 1176 fonts.1

1	11788U	80	034	A	80132.37081361	.00079677	74144-5	10804-3	0	205
2	11788	65.0242	24.0016	0010346	270.9390	88.8072	16.06239162	1913		

1	11788U	80	034	A	80133.36700495	.00080422	74816-5	10804-3	0	218
2	11788	65.0239	20.3515	0009886	271.5495	88.4149	16.06397514	2077		

1	11788U	80	034	A	80134.30083862	.00075853	00000-0	97906-4	0	226
2	11788	65.0224	16.9302	0010034	268.0759	92.0048	16.06522251	2221		

1	11788U	80	034	A	80134.54986141	.00074078	00000-0	97906-4	0	233
2	11788	65.0241	16.0239	0010150	278.4696	81.5324	16.06145809	2268		

1	11788U	80	034	A	80135.29703915	.00014683	00000-0	19999-4	0	245
2	11788	65.0214	13.2739	0009335	265.3289	94.7263	16.06199458	2387		

1	11788U	80	034	A	80136.29315301	.00082537	75468-5	11070-3	0	254
2	11788	65.0213	9.6336	0008873	265.1869	94.8141	16.06432082	2544		

1	11788U	80	034	A	80136.56671266	.00081100	74511-5	11070-3	0	264
2	11788	65.0213	8.2656	0008869	265.0192	94.9966	16.06155639	2600		

1	11788U	80	034	A	80138.28540493	.00071222	00000-0	92504-4	0	286
2	11788	65.0241	2.3398	0009934	272.2526	87.5308	16.06444175	2866		

1	11788U	80	034	A	80138	27030835	.00070594	00000-0	92504-4	0	297
2	11788	65	0248		359.8304	0011226	271.0044	88.9841	16.06272650		2975

1	11788U	80	034	A	80139	.21935003	-.00071925	00000-0	-96262-4	0	305
2	11788	65	0225		358.9136	0010394	272.6960	87.2514	16.06215644		3012

1	11788U	80	034	A	80140	.21548237	.00067807	00000-0	88155-4	0	322
2	11788	65	0213		355.2655	0010910	273.1290	86.8891	16.06421402		3175

1	11788U	80	034	A	80140	.33808419	.00067012	00000-0	88155-4	0	330
2	11788	65	0246		352.9853	0010205	268.2118	91.7884	16.06250023		3275

1	11788U	80	034	A	80141	.21111111	.00070608	00000-0	92249-4	0	314
2	11788	65	0249		351.6168	0010800	269.1764	87.7498	16.06332865		3317

1	11788U	80	034	A	80142	.14549638	.00073300	00000-0	95072-4	0	356
2	11788	65	0214		348.1954	0010418	270.1112	89.8584	16.06446961		3465

1	11788U	80	034	A	80142	.20763888	.00073138	00000-0	94878-4	0	366
2	11788	65	0218		347.9682	0010416	270.1848	89.1386	16.06455734		3469

1	11788U	80	034	A	80142	.39451720	.00050892	00000-0	66297-4	0	377
2	11788	65	0187		347.2832	0010962	273.7587	86.2330	16.06469456		3495

1	11788U	80	034	A	80142	.34357808	.00049827	00000-0	66297-4	0	384
2	11788	65	0295		346.3680	0009697	273.6199	86.3863	16.06161574		3534

1	11788U	80	034	A	80143	.45206925	.00072555	00000-0	95099-4	0	393
2	11788	65	0280		343.4082	0009454	272.1084	87.7931	16.06300627		3669



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Kosmos 1176 parts 2

1	11788U	80 034 A	80146.31683501	.00027217	00000-0	36285-4 0	423
2	11788	65.0196	332.9156	0008526	273.1033	86.2053 16.06430392	4180
1	11788U	80 034 A	80147.31304640	.00043394	00200-0	-53169-4 0	445
2	11788	65.0233	329.2657	0012442	260 9437	98.9905 16.06101008	4347
1	11788U	80 034 A	80148.18465836	.00086980	79125-5	11635-3 0	465
2	11788	65.0214	325.0774	0009631	264.6515	95.3529 16.06441254	4484
1	11788U	80 034 A	80149.11855525	.00019631	00000-0	-25539-4 0	478
2	11788	65.0190	322.6518	0010921	265.8605	94.0558 16.06285887	4635
1	11788U	80 034 A	80150.17701147	.00076795	00000-0	99364-4 0	486
2	11788	65.0189	318.7752	0009993	270.2880	90.2015 16.06480296	4773
1	11788U	80 034 A	80151.23537308	.00056551	00000-0	-75184-4 0	495
2	11788	65.0241	314.9009	0013159	259.9185	100.0000 16.06188951	4942
1	11788U	80 034 A	80151.35803882	.00079040	72746-5	10492-3 0	504
2	11788	65.0199	312.6183	0010057	265.3488	95.0709 16.06389491	5046
1	11788U	80 034 A	80152.41825996	.00065288	00000-0	84921-4 0	527
2	11788	65.0201	310.5670	0009730	264.8586	95.1024 16.06450622	5133

1	11788U	80	034	A	80154.09924976	.00075433	00000-0	97515-4	0	571
2	11788	65.0203	304.4092	0010761	269.1558	90.3330	16.06483074			5400

1	11788U	80	034	A	80159.51584726	.00178612	18932-4	23847-3	0	676
2	11788	65.0087	284.5634	0009308	265.7665	94.2443	16.06318922			6271

1	11788U	80	034	A	80172.21684148	.00024741	00000-0	33106-4	0	897
2	11788	65.0203	238.0415	0010693	278.3047	81.7431	16.06247570			8310

1	11788U	80	034	A	80174.20897091	-.00000367	00000-0	00000	0	0	937
2	11788	65.0126	230.7355	0009162	269.8284	90.1584	16.06137053			8635	

1	11788U	80	034	A	80179.18976520	.00062462	00000-0	81552-4	0	1024
2	11788	65.0166	212.4927	0010211	257.2851	102.7221	16.06393339			9437

1	11788U	80	034	A	80184.23281245	-.00000367	00000-0	00000	0	0	1121
2	11788	65.0149	194.0122	0009159	257.6679	102.3911	16.06147652			10249	

1	11788U	80	034	A	80185.22894051	-.00000368	00000-0	00000	0	0	1149
2	11788	65.0206	190.3640	0007423	276.6984	83.3332	16.06456105			10408	

1	11788U	80	034	A	80187.22122079	.00025477	00000-0	34078-4	0	1206
2	11788	65.0180	183.0705	0011395	278.8921	81.0939	16.06217271			10725

1	11788U	80	034	A	80190.20956852	.00014878	00000-0	19932-4	0	1252
2	11788	65.0163	172.1190	0011003	275.8041	83.9515	16.06412323			11204

1	11788U	80	034	A	80190.20956852	.00028705	00000-0	37825-4	0	1268
2	11788	65.0178	172.1205	0011173	278.0953	81.6812	16.06438395			11204

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forts. 3.

1 11788U 80 034 A 80190.89444246 -.00309390 00000-0 -43431-3 0 1276  
 2 11788 65.0166 169.6072 0012045 277.7810 82.1993 16.06204156 11315

1 11788U 80 034 A 80191.20573818 -.00232705 00000-0 -32492-3 0 1281  
 2 11788 65.0156 168.4699 0010633 273.2673 86.5588 16.06092810 11360

1 11788U 80 034 A 80192.20195652 .00028520 00000-0 37869-4 0 1312  
 -2 11788 65.0131 164.8154 0010241 270.9781 89.3167 16.06339676 11524

1 11788U 80 034 A 80195.31290777 .00046397 00000-0 60961-4 0 1418  
 2 11788 65.0174 151.5914 0010146 268.8211 91.1798 16.06374635 12106

1 11788U 80 034 A 80196.24875772 -.00013867 00000-0 -17887-4 0 1439  
 2 11788 65.0122 149.9821 0008181 252.7117 107.4629 16.06339210 12171

1 11788U 80 034 A 80196.06196780 .00076343 70992-5 10412-3 0 1427  
 -2 11788 65.0092 150.6673 0008357 253.6628 106.3624 16.06199774 12147

1 11788U 80 034 A 80200.23337498 -.00027242 00000-0 -35859-4 0 1556  
 2 11788 65.0196 135.3968 0009574 257.7427 102.2398 16.06242459 12814

1 11788U 80 034 A 80213.86810016 .00020387 00000-0 27285-4 0 1916  
 2 11788 65.0153 85.4387 0009823 256.8130 93.1917 16.06324521 15006

1	11788U	80	034	A	80216.29623338	.00041587	00000-0	54878-4	0	1985
2	11788	65.0169	76.5458	0009349	271.1419	88.8702	16.06352522	15392		
1	11788U	80	034	A	80221.77499492	.00175040	18406-4	23455-3	0	2102
2	11788	65.0195	56.4712	0010038	271.6866	98.3155	16.06248515	16270		
1	11788U	80	034	A	80230.24222635	.00054988	00000-0	71502-4	0	2265
2	11788	65.0159	25.4477	0010766	275.9747	83.9496	16.06482012	17539		
1	11788U	80	034	A	80230.49124653	.00104581	95555-5	14121-3	0	2287
2	11788	65.0201	24.5379	0011270	272.8106	86.9429	16.06204590	17570		
1	11788U	80	034	A	80232.23453065	.00053430	00000-0	32483-4	0	2317
2	11788	65.0146	18.1451	0010361	272.6946	87.3540	16.06449993	17955		
1	11788U	80	034	A	80232.42132451	.00015608	00000-0	21250-4	0	2344
2	11788	65.0177	17.4663	0009411	260.4271	99.5837	16.06156313	17985		
1	11788U	80	034	A	80232.23452331	-.00122555	00000-0	-16427-3	0	2334
2	11788	65.0119	18.1519	0012528	264.9374	95.0367	16.06333993	17952		

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1	11798U	80	034	A	80243.19228179	.00000073	00000-0	59072-6	0	2583
2	11788	65.0174	338.0023	0011826	277.1593	82.7960	16.06161186	19717		

1	11788U	80	034	A	80245.62023386	-.00013856	00000-0	-17922-4	0	2644
2	11788	65.0114	329.1005	0010070	267.4531	92.5487	16.06256602	20102		

1	11788U	80	034	A	80252.03280017	.00079943	74295-5	10818-3	0	2738
2	11788	65.0132	305.6073	0010716	275.2269	84.7579	16.06261664	21132		

1	11788U	80	034	A	80252.15732274	.00157644	15715-4	21125-3	0	2759
2	11788	65.0141	305.1561	0010023	265.8423	94.1602	16.06263767	21156		

1	11798U	80	034	A	80252.21946817	.00164110	16808-4	21125-3	0	2745
2	11788	65.0105	304.9128	0009883	276.2543	83.7532	16.06904238	21165		

1	11788U	80	034	A	80254.94374077	.00000058	00000-0	72999-4	0	2917
2	11788	64.8283	296.0787	0062500	261.8331	97.5640	13.92082251	21584		

1	11798U	80	034	A	80255.30293659	-.00012881	00000-0	-99143-2	0	2822
2	11788	64.8306	295.1284	0062952	261.4230	97.9616	13.92066735	21639		

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Upp: 29 apr?

Sände FM-TM på 240.0 MHz

1	11789U		80120.67770271	-	00004025	27772-4	00000 0 0	18
2	11789	67.1554	46.5137 0132627		70.0212 291.5206	16.07642272		07
1	11789U		80120.30213147		.20153928	28195-4	10860-2 0	24
2	11789	67.1473	45.9424 0119526		66.9531 294.9013	16.10747183		27
1	11789U		80120.90232372		.16243288	28175-4	10860-2 0	38
2	11789	67.1404	45.8677 0129177		68.2744 293.2138	16.05679927		27
1	11789U		80120.98908869		.16430621	27773-4	10860-2 0	46
2	11789	67.1345	45.2516 0119000		78.5053 282.9472	16.07587784		58
1	11789U		80121.11351516		.17566410	27893-4	10860-2 0	50
2	11789	67.1232	44.8090 0125096		70.7337 290.7336	16.07727519		76
1	11790U	80 35 B	80120.30201072		.16665106	27794-4	10860-2 0	21
2	11790	67.1349	45.9409 0119767		70.3075 291.0991	16.07691087		22
1	11790U	80 35 B	80121.05054207		.19221445	27821-4	10860-2 0	34
2	11790	67.1014	45.0037 0112878		71.3762 289.9648	16.11120580		68

1	11790U	80 35 B	80121.11265361	.19607529	28000-4	10860-2 0	48
2	11790	67.1343	44.8700 0112913	68.7304	292.5902	16.11429226	72

1	11789U		80120.67770271	-.00004025	27772-4	00000 0 0	18
2	11789	67.1554	46.5137 0132627	70.0212	291.5206	16.07642272	07

1	11789U		80121.30016170	.15689963	27926-4	10860-2 0	81
2	11789	67.1332	44.1882 0124017	71.5007	289.9612	16.05993821	104

1	11789U		80121.48684877	.16305545	27514-4	10860-2 0	91
2	11789	67.1227	43.5255 0125348	57.3214	303.9992	16.06396713	133

1	11789U	1980-035	80121.73563846	.00508834	28120-4	36861-4 0	105
2	11789	67.1424	42.7211 0124937	69.7767	291.6807	16.08099210	174

1	11789U	80 035 A	80122.41952707	.00308846	29244-4	47348-4 0	124
2	11789	67.1315	40.4067 0120994	68.7196	292.6646	16.09279990	304

1	11789U	80 035 A	80123.41341691	.00934041	28060-4	46150-4 0	132
2	11789	67.1309	37.0427 0116153	67.6486	293.6968	16.10978980	463

1	11789U	80 035 A	80124.22018308	.00372005	29158-4	45500-4 0	147
2	11789	67.1307	34.2971 0112998	67.2097	294.2566	16.12416186	593

1	11789U	80 035 A	80124.46022418	.00863853	28168-4	45123-4 0	152
2	11789	67.1361	33.4587 0109998	67.0763	294.1995	16.12897459	637

1	11789U	80 035 A	80127.26771942	.00746102	27866-4	44486-4 0	205
2	11789	67.1312	23.9981 0133827	75.6009	236.0626	16.06763407	1086

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Kosmos 1177 fonts. 1

1	11789U	80	035	A	80127.70335330	.00782301	29138-4	45179-4 0	213
2	11789	67.1276	22.5340	0132410	74.7124	287.0900	16.07524833		1151
1	11789U	80	035	A	80128.20089072	.00863037	27549-4	48766-4 0	229
2	11789	67.1296	20.8424	0128726	75.8032	295.8110	16.08489855		1235
1	11789U	80	035	A	80129.19524145	.00909154	27520-4	47881-4 0	232
2	11789	67.1288	17.4763	0124343	73.8649	287.9650	16.10334081		1393
1	11789U	80	035	A	80122.29521974	.00837870	27997-4	49694-4 0	116
2	11789	67.1341	40.8373	0120846	69.1348	292.2734	16.09094445		288
1	11789U	80	035	A	80124.77822016	.00915533	28595-4	46517-4 0	166
2	11789	67.1359	32.4062	0108932	56.6367	294.6241	16.13498398		687
1	11789U	80	035	A	80125.27398462	.00932957	28269-4	45356-4 0	173
2	11789	67.1339	30.7171	0107266	65.7221	295.5655	16.14447056		760
1	11789U	80	035	A	80125.52334647	.00692842	27607-4	45355-4 0	187
2	11789	67.1417	29.8450	0140129	77.4868	284.1956	16.04183483		800
1	11789U	80	035	A	80126.27127949	.00737106	27571-4	46002-4 0	199
2	11789	67.1314	27.3564	0138253	76.4917	285.1407	16.05265889		921
1	11789U	80	035	A	80129.38180901	.00938725	27716-4	47881-4 0	243
2	11789	67.1308	16.8465	0137714	70.5810	291.0204	16.06735134		1428



1	11789U	80	035	A	80130.19070101	.00936421	27833-4	51886-4	0	259
2	11789	67	1351		14.1131 7132266	70.0374	234.5516	16.08193743		1355
1	11789U	80	035	A	80131.18519047	.00977215	28032-4	43397-4	0	257
2	11789	67	1329		10.7485 0129869	68.2120	293.3876	15.10155044		1717
1	11789U	80	035	A	80131.93015574	.01067147	28438-4	52161-4	0	275
2	11789	67	1300		8.2168 0122313	68.2232	293.1925	16.11809009		1836
1	11789U	80	035	A	80132.42641497	.01059917	28054-4	50130-4	0	284
2	11789	67	1292		6.5290 0119008	57.6462	293.7551	16.12876492		1917
1	11789U	80	035	A	80133.10816725	.01356998	28453-4	60898-4	0	294
2	11789	67	1269		4.2080 0113707	66.9746	294.3392	16.14665949		2027
1	11789U	80	035	A	80133.41780063	.01223192	28491-4	53875-4	0	302
2	11789	67	1283		3.1477 0110531	66.7729	294.4230	16.15378941		2072
1	11789U	80	035	A	80133.56543123	.01281414	28718-4	54523-4	0	318
2	11789	67	1281		2.3041 0109496	66.5233	294.8057	16.16062162		2117
1	11789U	80	035	A	80134.40765134	.01357477	28517-4	52876-4	0	329
2	11789	67	1314		359.7711 0105034	65.7334	295.6198	16.13099108		2234
1	11789U	80	035	A	80134.53123758	.01350552	28773-4	52201-4	0	337
2	11789	67	1314		359.3430 0103730	65.6498	295.5545	16.18428783		2251
1	11789U	80	035	A	80135.21143431	.00995304	27869-4	52315-4	0	344
2	11789	67	1239		357.0045 0184395	60.6014	301.3439	15.99022313		2366

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forts. 2

1	11789U	80	035	A	80137.58323495	.01535758	28054-4	63460-4	0	384
2	11789	67.1268	349.0453	0165693	58.2161	303.5046	16.06073571			2749

1	11789U	80	035	A	80138.26779886	.01496487	28010-4	57669-4	0	391
2	11789	67.1246	346.7415	0160002	58.2453	303.3978	16.08141580			2852

1	11789U	80	035	A	80138.26780293	.01539732	27564-4	60428-4	0	408
2	11789	67.1245	346.7352	0158464	57.6081	304.0851	16.08195959			2857

1	11789U	80	035	A	80139.19973110	.01706997	28424-4	61242-4	0	414
2	11789	67.1249	343.5729	0148049	56.7073	304.8835	16.11429396			3000

1	11789U	80	035	A	80140.19272259	.00766652	27819-4	58646-4	0	449
2	11789	67.1138	340.1807	0128178	75.5628	285.9745	16.03716627			3166

1	11789U	80	035	A	80140.19272259	.00766652	27819-4	58646-4	0	450
2	11789	67.1138	340.1807	0128178	75.5628	285.9745	16.03716627			3166

1	11789U	80	035	A	80141.31482326	.00662476	28147-4	48275-4	0	476
2	11789	67.1232	336.4243	0124477	74.7912	286.7031	16.05164134			3347

1	11789U	80	035	A	80142.43587925	.00753458	27809-4	52312-4	0	489
2	11789	67.1277	332.6370	0120544	73.0988	288.3198	16.06717054			3528

1	11789U	80	035	A	80143	12040660	.00676502	28310-4	45241-4	0	497
2	11789	67.1251	330	3377	0118335		72.4313	288.6964	16.07601726		3638

1	11789U	80	035	A	80143	49368892	.00685407	27606-4	45015-4	0	509
2	11789	67.1251	329	0752	0116894		72.1449	289.2917	16.08132336		3694

1	11789U	80	035	A	80144	17762479	.00713624	27960-4	45363-4	0	517
2	11789	67.1217	326	7622	0113934		71.5698	289.9351	16.09147336		3805

1	11789U	80	035	A	80145	17150507	.00773692	28374-4	46493-4	0	525
2	11789	67.1174	323	3969	0109507		70.0555	293.5053	16.10757699		3969

1	11789U	80	035	A	80145	41989672	.00880389	28316-4	52314-4	0	538
2	11789	67.1192	322	5469	0107632		70.3517	290.9253	16.11240358		4001

1	11789U	80	035	A	80146	16449111	.00854885	28507-4	52314-4	0	543
2	11789	67.1239	320	0153	0078619		115.0796	240.6055	16.15016591		4124

1	11789U	80	035	A	80146	35211960	-.00188063	27897-4	-13730-4	0	554
2	11789	67.1238	319	3781	0113286		115.9963	245.2853	16.06496786		4154

1	11789U	80	035	A	80146	65007491	.00134256	28263-4	99999-5	0	587
2	11789	67.1240	317	7029	0111173		116.2244	245.3439	16.07367622		4239

1	11789U	80	035	A	80147	22336123	.00707237	28298-4	50213-4	0	595
2	11789	67.1183	316	4391	0110005		115.4981	246.1239	16.07950061		4296

1	11789U	80	035	A	80148	21809479	.00753049	27722-4	50213-4	0	609
2	11789	67.1233	313	0655	0107127		114.6113	246.7132	16.09447366		4457

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1	11789U	80	035	A	80149.14983630	.00727316	28523-4	46715-4	0	615
2	11789	67.1204	309.9157	0102760	113.3852	247.4721	16.10752908			4607
1	11789U	80	035	A	80150.20498764	.00758721	28550-4	45785-4	0	624
2	11789	67.1206	306.3317	0098771	112.1179	249.2571	16.12387428			4778
1	11789U	80	035	A	80151.32076260	.00903344	28434-4	50432-4	0	631
2	11789	67.1234	302.5300	0093270	110.4815	250.6346	16.14467977			4951
1	11789U	80	035	A	80152.06437995	.00662633	27749-4	50432-4	0	656
2	11789	67.1151	299.9881	0110486	128.4701	232.6457	16.06704485			5071
1	11789U	80	035	A	80152.43782420	.00561154	28352-4	43561-4	0	662
2	11789	67.1253	298.7350	0105708	128.6157	232.4008	16.07124204			5132
1	11789U	80	035	A	80152.81119076	.00670668	27637-4	50834-4	0	678
2	11789	67.1211	297.4671	0104750	128.0943	233.0681	16.07659888			5197
1	11789U	80	035	A	80154.48973748	.00706217	28040-4	49435-4	0	698
2	11789	67.1192	291.7865	0097903	126.4498	234.8176	16.10046273			5460
1	11789U	80	035	A	80155.11073901	.00710816	28467-4	48248-4	0	707
2	11789	67.1169	289.6798	0095378	125.7499	235.2930	16.10941956			5567

1	11789U	80	035	A	80155.97964745	.00709689	28231-4	46343-4	0	716
2	11789	67.1161	286.7237	0091672	124.7763	236.2103	16.12134175			5700

1	11789U	80	035	A	80156.22778372	.00702734	28434-4	45249-4	0	728
2	11789	67.1168	295.9808	0090907	124.4466	236.5317	16.12482032			5740

1	11789U	80	035	A	80157.34373296	.00774088	28538-4	46900-4	0	730
2	11789	67.1157	282.0786	0086046	122.8216	238.3252	16.14181948			5928

1	11789U	80	035	A	80158.21080676	.00789027	28727-4	45219-4	0	744
2	11789	67.1143	279.1164	0082787	122.3459	238.6030	16.15556515			6062

1	11789U	80	035	A	80158.95371003	.00640960	28394-4	45219-4	0	757
2	11789	67.1151	276.5834	0113954	123.3290	237.8875	16.07438533			6182

1	11789U	80	035	A	80159.14036228	.00650342	28194-4	45219-4	0	760
2	11789	67.1140	275.9461	0113640	123.3917	237.8541	16.07729290			6214

1	11789U	80	035	A	80159.94877896	.00960738	27970-4	62171-4	0	773
2	11789	67.1112	273.1783	0112810	122.9450	238.2652	16.09014429			6340

1	11789U	80	035	A	80159.94877896	.00960738	27970-4	62171-4	0	784
2	11789	67.1112	273.1783	0112810	122.9450	238.2652	16.09014429			6340

1	11789U	80	035	A	80160.32168681	.00761511	28474-4	48509-4	0	803
2	11789	67.1157	271.9453	0111199	123.0191	238.1773	16.09551708			6408

1	11789U	80	035	A	80161.00497614	.00729930	28425-4	44396-4	0	817
2	11789	67.1149	269.6278	0108776	122.2892	238.8895	16.10696419			6519

80-35 A

Kosmos 1177

forts, 4

1	11789U	80	035	A	80161.25333292	.00814869	28305-4	49404-4	0	822
2	11789	67.1157	268.7835	0106461	121.8112	239.3550	16.11108190			6550
1	11789U	80	035	A	80162.30815238	.00808845	28380-4	47084-4	0	938
2	11789	67.1149	265.1845	0099758	119.1595	241.9528	16.12816010			6729
1	11789U	80	035	A	80162.30815238	.00808845	28380-4	47084-4	0	849
2	11789	67.1149	265.1845	0099758	119.1595	241.9628	16.12816010			6729
1	11789U	80	035	A	80163.11401388	.00884227	28586-4	48290-4	0	853
2	11789	67.1115	262.4513	0096670	119.2228	242.2472	16.14310483			6858
1	11789U	80	035	A	80163.36174327	.00904254	28640-4	48092-4	0	865
2	11789	67.1142	261.6081	0096250	119.2524	240.9001	16.14796503			6891
1	11789U	80	035	A	80164.04272069	.01047266	28679-4	52409-4	0	875
2	11789	67.1122	259.2790	0092539	118.1342	242.9250	16.16303829			7005
1	11789U	80	035	A	80164.29020344	.01051158	28760-4	51616-4	0	885
2	11789	67.1144	258.4280	0091088	117.9969	243.0575	16.16828942			7042
1	11789U	80	035	A	80164.72308433	-.00490509	28336-4	-23400-4	0	899
2	11789	67.1210	256.9408	0086678	118.4035	242.6831	16.17740946			7116

80-36A

Kosmos 1178

Upp: 7 maj

1	11793U	80 36	A	80128.59614651	-.00001657	11481-4	00000 0 0	16
2	11793	72.8446		65.1007 0144983	86.8574	274.8480	15.93267178	13

1	11793U	80 36	A	80128.65894810	.01488905	11463-4	17366-3 0	23
2	11793	72.8538		64.9435 0144878	86.9094	274.9051	15.93548527	24

1	11793U	80 36	A	80128.91005073	.01449950	11466-4	17366-3 0	38
2	11793	72.8518		64.3199 0139492	85.8522	275.8222	15.93965522	65

1	11793U	80 36	A	80129.22362554	.00015495	00000-0	17366-3 0	44
2	11793	72.8288		63.5383 0043553	217.7044	142.1114	15.61463101	110

1	11793U	80 36	A	80129.54410052	.00015064	00000-0	17366-3 0	59
2	11793	72.8309		62.7568 0042550	212.7016	147.1561	15.60810996	168

1	11793U	80 36	A	80129.92868002	.00015059	00000-0	17366-3 0	68
2	11793	72.8258		61.8463 0043249	210.1892	149.6838	15.60763874	228

1	11793U	80 36	A	80129.18506933	.00042861	00000-0	18900-3 0	79
2	11793	72.8254		61.2312 0043060	210.0996	149.6233	15.60825791	260

1	11793U	80	36	A	80130	89011138	.00042886	00000-0	48300-3	7	.83
2	11793	72.8255	59.5440		0043021	208.6980	151.1865	15.60843527			378
1	11793U	80	36	A	80131	21057990	.00008175	00000-0	94075-4	0	97
2	11793	72.8265	58.7762		0042759	207.8670	151.9779	15.60824393			421
1	11793U	80	36	A	80132	36429227	.00003437	00000-0	40020-4	0	108
2	11793	72.8250	56.0131		0042642	204.9060	154.9684	15.60828816			600
1	11793U	80	36	A	80133	45390979	.00008519	00000-0	97898-4	0	112
2	11793	72.8245	53.4049		0042675	202.5442	157.4205	15.60849811			771
1	11793U	80	36	A	80134	35121606	.00006110	00000-0	70453-4	0	125
2	11793	72.8260	51.2560		0042661	200.3910	159.3232	15.60835427			916
1	11793U	80	36	A	80135	24853162	.00006073	00000-0	70008-4	0	138
2	11793	72.8263	49.1074		0042596	198.4839	161.4723	15.60864422			1052
1	11793U	80	36	A	80136	27403305	.00003835	00000-0	44521-4	0	147
2	11793	72.8279	46.6539		0042336	196.0583	163.9453	15.60867655			1215
1	11793U	80	36	A	80138	26091275	.00003620	00000-0	42784-4	0	167
2	11793	72.8261	41.8961		0041718	191.5985	168.73891	15.60876732			1526
1	11793U	80	36	A	80138	32501241	.00001915	00000-0	22634-4	0	174
2	11793	72.8270	41.7410		0041699	191.2870	168.7377	15.60874729			1538
1	11793U	80	36	A	80139	22231391	.00009001	00000-0	-10257-3	0	184
2	11793	72.8263	39.5937		0041597	189.5827	170.4395	15.60860855			1670



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Kosmos 1178

parts, 1

1 11793U 80 36 A 80140.24782187 -.00003981 00000-0 -44903-4 0 190  
2 11793 72.8263 37.1380 0041711 187.1275 172.9886 15.60859314 1833

1 11793U 80 36 A 80141.33740716 -.00009664 00000-0 -11031-3 0 204  
2 11793 72.8254 34.5295 0041642 184.5947 175.4323 15.60931436 2008

1 11793U 80 36 A 80142.49111953 .00709661 00000-0 99999-4 0 212  
2 11793 72.8234 31.7693 0040926 182.3353 177.7170 15.60825237 2189

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Kosmos 1179

Lpp: 14 maj

1	11796U	80 37	A	80135.74835215	.00000025	00000-0	00000 0 0	14
2	11796	82.9721		95.4169 0854533	112.2875	257.1116	13.91216773	00

1	11796U	80 37	A	80135.89219942	.00000025	00000-0	00000 0 0	24
2	11796	82.9721		95.3063 0855212	111.7691	257.5637	13.90820906	24

1	11796U	80 37	A	80136.25194016	00066501	00000-0	16423-2 0	30
2	11796	82.9685		95.0252 0855373	110.6931	258.8296	13.90866960	74

1	11796U	80 37	A	80136.75552857	.00025730	00000-0	63389-3 0	40
2	11796	82.9734		94.6381 0855612	109.2336	260.3379	13.90874944	145

1	11796U	80 37	A	80137.25911539	.00022444	00000-0	55383-3 0	63
2	11796	82.9700		94.2500 0855371	107.7895	261.8651	13.90892985	214

1	11796U	80 37	A	80138.26626400	00019000	00000-0	46856-3 0	81
2	11796	82.9689		93.4780 0855245	104.8652	264.9229	13.90928818	355

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Kosmos 1180

Upp: 15 maj'

1	11798U	80 38	A	80136.78147951	-.00000475	00000-2	00000 0 0	37
2	11798	62.8114	264.7760	0039397	184.2200	175.8622	16.03659086	94
1	11798U	80 38	A	80136.84383951	-.00000472	00000-2	00000 0 0	44
2	11798	62.8085	264.5273	0039380	183.1526	176.9387	16.03636837	109
1	11798U	80 38	A	80138.27782823	.00118609	12727-4	16654-3 0	66
2	11798	62.8171	258.8654	0039316	184.5282	175.5352	16.04031506	333
1	11798U	80 38	A	80139.21287918	.00119362	12675-4	16654-3 0	75
2	11798	62.8168	255.1712	0037841	184.6827	175.3248	16.04243187	489
1	11798U	80 38	A	80140.27246251	.00125052	13465-4	17203-3 0	82
2	11798	62.8150	250.9856	0037111	185.0871	175.0104	16.04514254	659
1	11798U	80 38	A	80141.33185192	.00135814	14814-4	18379-3 0	91
2	11798	62.8136	246.7951	0037123	185.2613	174.9121	16.04812977	820

1	11798U	80	38	A	80142.45331664	.00139600	15222-4	18347-3	0	106
2	11798	62.8140	242.3586	0036724	195.6480	174.4288	16.05126935			1006

1	11798U	80	38	A	80143.45000275	.00133516	14570-4	17504-3	0	119
2	11798	62.8150	238.4145	0035339	186.7948	173.2268	16.05391491			1169

1	11798U	80	38	A	80146.25236263	.00148652	16822-4	28656-3	0	149
2	11798	62.8122	227.3146	0033678	187.0459	173.1939	16.06173962			1617

1	11798U	80	38	A	80147.31062913	.00154349	17677-4	18976-3	0	160
2	11798	62.8127	223.1191	0032746	138.0305	172.2137	16.06552720			1788

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Kosmos 1181

Upp: 20 maj

1	11803U	80	39	A	80141.52133029	.00000006	00000-0	00000 0 0	55
2	11803	82.9540	46.4149	0021587	273.4821	86.3864	13.72374329	29	
1	11803U	80	39	A	80141.52133029	.00000006	00000-0	00000 0 0	55
2	11803	82.9540	46.4149	0021587	273.4821	86.3864	13.72374329	29	
1	11803U	80	39	A	80142.39610807	.00000006	00000-0	00000 0 0	99
2	11803	82.9465	45.7650	0021214	268.0142	91.8400	13.72543303	147	
1	11803U	80	39	A	80142.39610807	.00000006	00000-0	00000 0 0	98
2	11803	82.9465	45.7650	0021214	268.0142	91.8400	13.72543303	147	

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Kosmos 1182

Lpp: 27 maj

1	11808U	1980-040	80144.29111444	.00000107	00000-0	00000 0 0	26
2	11808	82.3210	15.0719 0007401	13.5626	346.3432	16.23564978	00

1	11808U	1980-040	80144.41442701	.00000095	00000-0	00000 0 0	30
2	11808	82.3623	14.8455 0029807	99.6352	257.7593	16.16199818	21

1	11808U	1980-040	80144.41442701	.00000095	00000-0	00000 0 0	41
2	11808	82.3623	14.8455 0029807	99.6352	257.7593	16.16199818	21

1	11808U	1980-040	80144.66262721	.00000098	00000-0	00000 0 0	53
2	11808	82.3387	14.5583 0029030	98.7981	261.6694	16.16154074	67

1	11808U	1980-040	80144.84837200	.00195144	00000-0	14735-4 0	68
2	11808	82.3395	14.3421 0029043	99.9315	260.5643	16.16299343	93

1	11808U	1980-040	80145.29172918	.00217733	00000-0	16200-4 0	73
2	11808	82.3394	13.8329 0028681	98.0656	262.4036	16.16499983	163

1	11808U	1980-040	80146.20977924	.00244320	00000-0	16200-4 0	88
2	11808	82.3367	12.7406 0019989	99.7396	270.6182	16.19041535	311

1	11808U	1980-040	80146.27158528	.00275397	00000-0	18167-4 0	90
2	11808	82.3368	12.6649 0022228	63.1535	277.1575	16.19044206	322

1	11808U	1980-040	80146.33740619	.00276777	00000-0	18167-4 0	106
2	11808	82.3340	12.5946 0023130	31.1900	279.1915	16.19094956	334

1	11808U	1980-040	80149.23680256	.00278814	00000-0	16776-4 0	122
2	11808	82.3366	9.1603 0021985	68.5106	291.8597	16.20724387	808

1	11808U	1980-040	80151.27361499	.00295117	-60413-5	16596-4 0	141
2	11808	82.3305	6.7764 0021240	60.7658	299.7000	16.21910487	1133

1	11808U	1980-040	80152.32318833	.00263903	00000-0	17763-4 0	169
2	11808	82.3327	5.5387 0009358	13.4878	346.7336	16.19074836	1300

1	11808U	1980-040	80153.37370323	.00242205	00000-0	15865-4 0	171
2	11808	82.3321	4.3012 0009230	9.1603	350.8756	16.19577874	1473

1	11808U	1980-040	80154.48570455	.00252649	00000-0	16055-4 0	188
2	11808	82.3331	2.9907 0008478	5.3067	354.8977	16.20145134	1657

1	11808U	1980-040	80155.22679317	.00240085	00000-0	14975-4 0	199
2	11808	82.3320	2.1156 0008181	357.6044	2.4624	16.20489351	1772

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Soyuz 36

Upp: 26 maj; från Tyuratam

1	11811U	80	41	A	80147.75652664	.02412945	56747-4	14999-3	0	14
2	11811	51.6037	169.4669	0055670	34.2739	276.4624	16.16983573			08

1	11811U	80	41	A	80148.12890266	.00074522	93622-5	14999-3	7	27
2	11811	51.6229	167.5371	0048004	248.5206	111.3691	15.97353130			62

1	11811U	80	041	A	80154.02032353	.00033273	00000-0	22077-3	0	36
2	11811	51.6165	137.1170	0014708	318.1309	41.8145	15.75016889153915			

1	11811U	80	041	A	80156.49447192	.00051307	00000-0	33203-3	0	42
2	11811	51.6273	124.3893	0012270	323.0195	36.9951	15.75431374154309			

1	11811U	80	041	A	80174.87218959	.00079326	00000-0	45069-3	0	78
2	11811	51.6274	29.5897	0010972	21.7902	338.3583	15.79218589157200			

1	11811U	80	041	A	80179.68351469	.00059943	00000-0	33319-3	0	108
2	11811	51.6265	4.7204	0009510	51.5960	308.5394	15.79840346157968			



1 11811U 80 041 A 80190.43783276 .00057481 00000-0 29829-3 0 116  
2 11811 51.6292 309.0072 0012146 69.5968 290.6335 15.80327999159665

1 11811U 80 041 A 80193.28307943 .00063284 00000-0 32240-3 0 136  
2 11811 51.6292 294.2458 0012040 80.4853 279.7509 15.80692146160118

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Kosmos 1183

Upp: 28 maj'

1	11816U	80 42	A	80149.55474985	-.00001660	11500-4	00000 0 0	18
2	11816	72.8862		71.0935 0138537	30.3230	281.1499	15.94382115	14
1	11816U	80 42	A	80149.55474985	-.00001686	11627-4	00000 0 0	27
2	11816	72.7997		71.0850 0140420	79.6826	281.5859	15.93349986	16
1	11816U	80 42	A	80150.05726332	-.00000056	00000-0	00000 0 0	30
2	11816	72.9041		69.8312 0030469	181.7252	178.3858	15.56718919	90
1	11816U	80 42	A	80150.18579158	.69546931	00000-0	-26326 0 0	49
2	11816	72.9001		69.5225 0034574	217.3297	143.5162	15.60292062	118
1	11816U	80 42	A	80150.50745516	-.00005191	00000-0	-58925-4 0	57
2	11816	72.8928		68.7534 0043314	211.1294	156.3364	15.60713190	161
1	11816U	80 42	A	80150.50610174	-.00002692	00000-0	-30222-4 0	62
2	11816	72.8928		68.7565 0043319	211.0763	148.7886	15.60714478	164
1	11816U	80 42	A	80150.50610174	.00141919	00000-0	16023-2 0	78
2	11816	72.8953		68.7534 0042903	210.4461	149.4277	15.60773894	163

1	11816U	80	042	A	80152.42907749	.00004521	00000-0	52556-4	0	90
2	11816	72.8952	64.1731	0042920	206.4158	153.4402	15.60730522			467
0	11816U	80	042	A	80154.48024742	.00006449	00000-0	74534-4	0	115
2	11816	72.8931	59.2793	0043152	201.2079	158.7493	15.60752481			781
1	11816U	80	042	A	80155.18532251	.00002428	00000-0	28526-4	0	127
2	11816	72.8934	57.5987	0042806	199.9879	159.9278	15.60748499			896
1	11816U	80	042	A	80156.27499919	.00003234	00000-0	37735-4	0	139
2	11816	72.8934	55.0030	0043163	197.0683	162.9136	15.60756243			1060
1	11816U	80	042	A	80157.30056432	.00002187	00000-0	25771-4	0	147
2	11816	72.8934	52.5566	0043081	194.7167	165.2486	15.60756748			1228
1	11816U	80	042	A	80157.30056432	.00002187	00000-0	25771-4	0	158
2	11816	72.8934	52.5566	0043081	194.7167	165.2486	15.60756748			1228
1	11816U	80	042	A	80159.22350461	.00002183	00000-0	25769-4	0	164
2	11816	72.8929	47.9676	0042114	190.2228	169.7803	15.60762362			1521
1	11816U	80	042	A	80161.14643997	.00001783	00000-0	21163-4	0	188
2	11816	72.8948	43.3814	0042255	185.8572	174.2067	15.60767838			1823
1	11816U	80	042	A	80162.42839060	.00001837	00000-0	21771-4	0	194
2	11816	72.8951	40.3246	0042245	133.1460	176.9473	15.60771977			2021

80-43A

NOAA 7

4pp = 29 mag'

1	11819U	80	043	A	20150.64505647	.00043519	00000-7	59999-3	0	27
2	11819	92.3444	106.4789	0821777	74.5477	294.3396	14.03859830	21030		
1	11819U	80	043	A	30150.92857720	.00045345	00000-7	59999-3	0	30
2	11819	92.2243	106.6799	0811126	73.0415	295.7999	14.11882291	64		
1	11819U	80	043	A	30151.07041156	.00046030	00000-7	59999-3	0	48
2	11819	92.2265	106.6842	0816349	72.7642	296.1167	14.10995706	86		

80-44A

Kosmos 1184

Upp: 4juni

1	11821U	80 44	A	80156.37395590	.00000009	00000-0	00000 0 0	11
2	11821	81.2247		30.4829 0016250	353.5397	5 5922	14.78862128	15
1	11821U	80 44	A	80156.71245120	.00294002	00000-0	38174-1 0	61
2	11821	81.2493		30.1008 0016589	346.2917	13.7938	14.78886768	64
1	11821U	80 44	A	80156.37417927	.00000009	00000-0	00000 0 0	22
2	11821	81.2372		30.4394 0019493	354.8961	5.3756	14.78736777	17
1	11821U	80 44	A	80156.57712704	.00293699	00000-0	38174-1 0	41
2	11821	81.2482		30.2467 0016664	348.0467	12.0337	14.78844154	43
1	11821U	80 44	A	80156.44180155	.00000009	00000-0	00000 0 0	31
2	11821	81.2464		30.3943 0017266	347.7872	12.2915	14.78795744	20

80-45A

Soyuz T-2

Upp = 5,2 mi från Tyuratam

1	11825U	80	45	A	80157.65068196	-.00008351	57687-4	00000 0 0	14
2	11825	51.6286	118.6057	0029046	97.0495	263.3716	16.22418641		13
1	11825U	80	45	A	80157.93558454	-.00000510	00000-0	00000 0 0	28
2	11825	51.6049	117.5551	0036373	233.3791	126.3871	15.94142368		44
1	11825U	80	45	A	80158.21170244	-.00000527	00000-0	00000 0 0	37
2	11825	51.6248	115.6005	0041467	204.3544	155.8539	15.94364680		100
1	11825U	80	45	A	80158.65066482	.55976868	00000-0	-16752 0 0	45
2	11825	51.6439	113.3074	0028848	202.5907	157.6128	15.85157154154643		

1	11832U		80161.75671145	.00102311	00000-0	59999-3 0	02
2	11832	51.6093	97.2196 0011725	312.8610	47.1405	15.77395274155138	
1	11832U		80161.82007091	.00102131	00000-0	59999-3 0	25
2	11832	51.6217	96.9297 0010727	311.0085	48.9987	15.77372994155141	
1	11832U		80161.75671145	.00102311	00000-0	59999-3 0	13
2	11832	51.6093	97.2196 0011725	312.8610	47.1405	15.77395274155138	

80-46A

Kosmos 1185

Upp: Gjumi

1	11827U	80 46	A	80158.34631839	.00000090	00000-0	00000 0 0	07
2	11827	82.3294		26.3098 0051861	89.7880	270.9345	16.10241372	16
1	11827U	80 46	A	80158.53275927	.00000088	00000-0	00000 0 0	27
2	11827	82.3262		26.0828 0051536	87.6337	273.0860	16.10209030	46
1	11827U	80 46	A	80159.21636950	.00000087	00000-0	00000 0 0	32
2	11827	82.3388		25.2987 0051488	84.9256	275.8289	16.10220318	157
1	11827U	80 46	A	80159.09205035	.00174905	00000-0	16522-4 0	47
2	11827	82.3517		25.4341 0050838	84.4098	276.2979	16.10377014	139
1	11827U	80 46	A	80159.40273884	.00009240	00000-0	16522-4 0	59
2	11827	82.4469		25.0963 0017475	264.9041	89.1267	16.01268083	186
1	11827U	80 46	A	80159.65351278	.00010276	00000-0	16522-4 0	62
2	11827	82.2613		24.8097 0028049	335.0931	24.8991	16.02579509	221
1	11827U	80 46	A	80159.84074674	.00092126	28065-5	15134-3 0	73
2	11827	82.3436		24.5717 0011053	320.3563	39.6901	16.02995073	257



1	11827U	80 46	A	80160.27771564	.00088076	25859-5	14407-3 0	84
2	11827	82.3376		24.0691 0010931	318.3502	41.6962	16.03073080	329
1	11827U	80 46	A	80161.21400695	.00067949	12453-5	11029-3 0	93
2	11827	82.3372		22.9917 0010962	315.7246	44.1905	16.03185932	473
1	11827U	80 46	A	80159.40376123	-.01166983	00000-0	-25394-2 0	105
2	11827	82.3338		25.0761 0011147	329.4311	30.6618	16.02840017	188
1	11827U	80 46	A	80162.53336869	.00071644	15829-5	11503-3 0	116
2	11827	82.3372		21.4757 0010905	306.4351	103.4227	16.03378337	683
1	11827U	80 46	A	80163.39844769	.00073101	15609-5	11646-3 0	129
2	11827	82.3359		20.4812 0010929	302.9850	57.1536	16.03506659	820
1	11827U	80 46	A	80164.20969068	.00087189	25719-5	13778-3 0	133
2	11827	82.3322		19.5479 0010909	301.0415	59.0335	16.03655132	950
1	11827U	80 46	A	80165.20803162	.00083979	23289-5	13142-3 0	146
2	11827	82.3328		18.3994 0010871	296.0664	63.9342	16.03816128	1117
1	11827U	80 46	A	80166.26866972	.00083802	21909-5	12970-3 0	152
2	11827	82.3337		17.1776 0010992	290.9964	69.0062	16.03991364	1282
1	11827U	80 46	A	80168.20247779	.00078113	17594-5	11968-3 0	176
2	11827	82.3325		14.9515 0011143	279.8392	81.1141	16.04290463	1594
1	11827U	80 46	A	80169.20044387	.00079839	19669-5	12022-3 0	183
2	11827	82.3335		13.8023 0011004	274.6606	85.3327	16.04447111	1759
1	11827U	80 46	A	80170.26066772	.00086761	24567-5	12925-3 0	191
2	11827	82.3333		12.5803 0011155	268.7378	91.2742	16.04625841	1920

80.46A

Kosmos 1185

fonts. 1

1	11827U	80	46	A	80171.19605400	.00076148	16640-5	11244-3 0	207
2	11827	82.3356			11.5010 0011213	265.4145	94.5271	16.04760893	2072

1	11827U	80	46	A	80172.38078318	.00078221	18940-5	11423-3 0	210
2	11827	82.3353			10.1374 0011275	259.1042	100.9165	16.04947104	2268

80-47A

Kosmos 1186

Upp: 6,2 mi

1	11829U	80 47	A	80158.58030451	.00009717	00000-0	40000-3 0	13
2	11829	74.0321		67.9516 0033867	341.5000	18.5047	15.23679397	23

1	11829U	80 47	A	80159.10557318	.00037321	00000-0	15251-2 0	20
2	11829	74.0259		66.8410 0033227	339.8981	20.0451	15.23682482	107

1	11829U	80 47	A	80159.23689878	.00037335	00000-0	15251-2 0	37
2	11829	74.0246		66.5657 0033395	339.7754	20.2041	15.23688800	125

1	11829U	80 47	A	80160.28743825	.00019394	00000-0	79468-3 0	43
2	11829	74.0218		64.3455 0033069	337.3660	22.5974	15.23707173	287

1	11829U	80 47	A	80161.14098207	.00015501	00000-0	63588-3 0	50
2	11829	74.0238		62.5470 0032791	335.6180	24.3232	15.23731378	410

1	11829U	80 47	A	80164.16110613	.00014172	00000-0	57985-3 0	70
2	11829	74.0262		56.1799 0033144	327.7972	32.1244	15.23826245	871

1	11829U	80 47	A	80165.21153798	.00017165	00000-0	70074-3 0	88
2	11829	74.0262		53.9625 0033124	325.3429	34.5968	15.23867352	1036

80-48A

Kosmos 1187

Lpp: 12, jumi

1	11837U	80 48	A	80164.57472479	-.00001665	11379-4	00000 0 0	22
2	11837	72.8631		93.0627 0077908	87.0271	273.9878	16.09536967	19
1	11837U	80 48	A	80164.63695753	-.00001714	11983-4	00000 0 0	38
2	11837	72.8536		92.9709 0081108	91.2371	269.8159	16.08354754	24
1	11837U	80 48	A	80164.38576479	.00104733	12034-4	92875-5 0	48
2	11837	72.8448		92.3267 0081876	91.1654	269.9152	16.08400322	66
1	11837U	80 48	A	80165.07234776	.00006617	00000-0	92875-5 0	50
2	11837	72.8592		91.8354 0058484	82.2210	278.5658	16.02456730	93
1	11837U	80 48	A	80165.32206985	.14189888	37649-5	13869-2 0	64
2	11837	72.8430		91.1456 0063908	47.1223	315.3582	16.08346990	138
1	11837U	80 48	A	80165.44624946	.01184613	81405-3	13869-2 0	73
2	11837	72.8461		90.8797 0048255	70.8722	289.7594	16.06200945	153
1	11837U	80 48	A	80165.63311731	.00089757	59760-5	10525-3 0	80
2	11837	72.8472		90.4061 0047857	69.9908	290.6471	16.06133060	188

1	11837U	80 48	A	30166.31825514	.00118371	87061-5	13816-3	0	92
2	11837	72.8461		88.6631 0046669	68.0702	292.5945	16.06294041		296
1	11837U	80 48	A	80168.24874715	.00098069	67523-5	11205-3	0	118
2	11837	72.8429		83.7281 0046406	63.2704	297.2568	16.06660832		608
1	11837U	80 48	A	80168.24874715	.00098069	67523-5	11205-3	0	129
2	11837	72.8429		83.7281 0046406	63.2704	297.2568	16.06660832		608
1	11837U	80 48	A	80169.18271313	.00098412	69193-5	11141-3	0	135
2	11837	72.8433		81 3369 0045961	61.0722	299.5043	16.06843278		751
1	11837U	80 48	A	80170.30331837	.00101152	71667-5	11284-3	0	143
2	11837	72.8424		78.4663 0045775	57.8502	302.7549	16.07078537		934
1	11837U	80 48	A	80170.42781220	.00101920	71244-5	11334-3	0	152
2	11837	72.8437		78.1521 0045970	57.5909	302.9657	16.07102893		950
1	11837U	80 48	A	80171.23702263	.00096621	67812-5	10674-3	0	166
2	11837	72.8416		76.0760 0045412	55.5526	305.0126	16.07265334		1083
1	11837U	48	A	80172.35733130	.00105341	75479-5	11464-3	0	174
2	11837	72.8414		73.2076 0045064	52.7288	307.8859	16.07511361		1264
1	11837U	80 48	A	80172.97975900	.00092937	63437-5	11464-3	0	183
2	11837	72.8588		71.6142 0057456	58.6237	302.0334	16.04343597		1366
1	11837U	80 48	A	80173.47868807	.00093951	62137-5	11719-3	0	193
2	11837	72.8432		70.3367 0057589	58.0684	302.5952	16.04151329		1446

80-48A

Kosmos 1187

forts. 1

1	11837U	80 48	A	80174.28938975	.00109627	76374-5	13547-3 0	206
2	11837	72.8435		68.2706 0057135	56.4603	304.2304	16.04328812	1579

1	11837U	80 48	A	80174.28938975	.00109627	76374-5	13547-3 0	217
2	11837	72.8435		68.2706 0057135	56.4603	304.2304	16.04328812	1579

1	11837U	80 48	A	80174.28938975	.00109627	76374-5	13547-3 0	228
2	11837	72.8435		68.2706 0057135	56.4603	304.2304	16.04328812	1579

1	11837U	80 48	A	80175.22469844	.00104929	72230-5	12828-3 0	236
2	11837	72.8441		65.8850 0056951	54.3722	306.2785	16.04517468	1722

1	11837U	80 48	A	80177.28198391	.00104723	72526-5	12518-3 0	247
2	11837	72.8441		60.6357 0056174	49.1286	311.4653	16.04944049	2059

80-49A

Gorizont 4

Lpp: 14,20m'

1	11842U		80166.33306511	.02659575	59433-4	71128-4 0	24
2	11842	51.6391	282.9063 0013657	260.9561	98.9950	16.33617169	53
1	11843U		80166.33316315	.13396080	59325-4	30828-3 0	25
2	11843	51.6244	282.9041 0001199	174.0953	186.0588	16.36543344	56
1	11859U		80172.37406812	.00003211	00000-0	17968-2 0	17
2	11859	47.2855	282.6089 7309889	1.5889	359.7567	2.22738957	161
1	11860U		80172.38469442	.00001094	00000-0	14316-2 0	19
2	11860	47.3212	282.6324 7290856	1.5469	359.7675	2.22336609	168
1	11862U		80166.23821367	-.00000085	00000-0	00000 0 0	18
2	11862	0.4508	283.5819 0008600	0.4031	75.9091	0.97763189	28
1	11862U		80175.21757154	-.00000082	00000-0	00000 0 0	26
2	11862	0.8514	277.0866 0031847	295.8636	150.9860	0.97936797	114

80-50 A

Kosmos 1188

Lipp: 14 Juni

1	11844U	80 50	A	80169.94281819	-.00000117	00000-0	00000 0 0	76
2	11844	62.9256		165.5938 7385329	318.0662	4.5391	1.98462142	87

1	11844U			80168.93491900	-.00001083	00000-0	-15920-1 0	56
2	11844	62.9267		165.7416 7386068	318.0612	4.4225	1.98463609	60

1	11845U			80169.42362799	.00589363	91465-5	13022-3 0	93
2	11845	62.8013		156.8781 0261102	120.8777	241.8351	15.59710366	390

1	11846U			80169.42678221	.00939682	35726-4	14111-3 0	105
2	11846	62.8808		156.7966 0300539	119.0198	244.1467	15.58731887	391

1	11847U			80168.92766421	-.00000002	00000-0	13999-1 0	32
2	11847	62.9152		165.7665 7380031	318.0286	4.4898	1.99190287	69



80-51A

Meteor 30

Urp: 18 juni

1	11848U	80	51	A	80170.37377040	-.00000028	00000-0	00000 0 0	17
2	11848	97.9311	236.7910	0059669	11.6024	348.7385	14.81749815	19	
1	11848U	80	51	A	80172.98148716	-.00000028	00000-0	00000 0 0	21
2	11848	97.9421	237.3909	0058334	9.2273	351.0037	14.81792828	105	
1	11848U	80	51	A	80171.25159237	.00004591	00000-0	57129-3 0	39
2	11848	97.9413	237.6585	0058188	8.3685	351.8634	14.81801749	141	
1	11848U	80	51	A	80173.41240516	-.00000028	00000-0	00000 0 0	56
2	11848	97.9406	239.8019	0057902	1.1590	358.9627	14.81815143	477	
1	11848U	80	51	A	80213.18136060	-.00000028	00000-0	00000 0 0	503
2	11848	97.9366	279.2476	0056370	228.1952	131.5015	14.82065474	6368	
1	11848U	80	51	A	80215.20676704	-.00000029	00000-0	00000 0 0	536
2	11848	97.9401	281.2555	0057129	222.3430	136.8397	14.82078646	6663	

80-52A

Big Bird [Titan 3D]

Upp: 18 umi

1	11850U	80	52	A	80170.91077660	.00005993	91764-5	32315-6	0	24
2	11850	96.4463	240.6204	0074242	146.4680	214.1346	16.21125049			18
1	11850U	80	52	A	80171.05768407	.00005979	92061-5	32315-6	0	33
2	11850	96.4586	240.8763	0073497	145.7961	214.8099	16.21213128			58
1	11852U	80	52	C	80171.24579230	-.00000007	00000-0	00000	0	01
2	11852	96.5371	241.2099	0022320	253.0849	106.7810	12.34987824			03

80-53A

Molnija 1AY

Upp = 21 j2mi'

1	11856U	80 53	A	80173.82532715	.00200044	00000-0	00000 0 0	10
2	11856	62.8276	138.6290	7408554	287.9581	9.2638	1.95203813	07
1	11856U	80 53	A	80173.82533716	.00200044	00000-0	00000 0 0	45
2	11856	62.8329	138.6334	7408554	287.9587	9.2711	1.95204030	14

80-54A

Kosmos 1189

Upp: 26,2 mi

1	11863U	80	54	A	80179.25184798	.00209604	11507-4	18096-4 0	16
2	11863	72.8617	102.7352	0079403	83.3125	277.9886	16.09048194		129

1	11863U	80	54	A	80179.25175375	.00143800	00000-0	16135-4 0	38
2	11863	72.8557	102.7495	0050471	62.8046	297.8320	16.06886361		125

1	11863U	80	54	A	80179.25180203	.00186936	11860-4	16135-4 0	20
2	11863	72.8689	102.7385	0079724	83.2759	277.7541	16.09032971		124

1	11863U	80	54	A	80179.43868641	.00013728	00000-0	16135-4 0	49
2	11863	72.8602	102.2507	0049120	69.1581	291.4904	16.05984942		152

1	11863U	80	54	A	80180.24849571	.00119291	87001-5	13985-3 0	54
2	11863	72.8643	100.1913	0047284	68.5416	292.3254	16.06163767		281

1	11863U	80	54	A	80191.43182811	.00095254	65293-5	11040-3 0	75
2	11863	72.8632	97.1671	0047180	65.3455	295.2623	16.06372216		472

1 11863U 80 54 A 80184.23390630 .00093448 64517-5 10540-3 0 106  
2 11863 72.8591 90.0053 0046133 58.1105 302.4327 16.06889484 923

1 11863U 80 54 A 80182.42822377 .00094348 63484-5 10811-3 0 83  
2 11863 72.8638 94.6209 0047037 62.6677 297.8977 16.06555251 634

1 11863U 80 54 A 80185.22998627 .00089559 61064-5 10011-3 0 112  
2 11863 72.8586 87.4571 0045774 55.2010 305.3044 16.07061473 1082

1 11863U 80 54 A 80187.22182724 .00091307 00000-0 97959-4 0 138  
2 11863 72.8585 82.3607 0045212 50.2759 310.2004 16.07412196 1406

1 11863U 80 54 A 80188.09312546 .00100319 71395-5 10859-3 0 149  
2 11863 72.8596 80.1313 0045129 47.8152 312.7274 16.07593158 1543

1 11863U 80 54 A 80188.09316523 .00076949 49720-5 10859-3 0 156  
2 11863 72.8611 80.1359 0077019 58.3834 302.4883 15.99848276 1544

1 11863U 80 54 A 80188.28083443 .00073287 46672-5 10859-3 0 166  
2 11863 72.8635 79.6495 0079138 60.3626 300.5457 15.99839788 1576

1 11863U 80 54 A 80190.15781358 .00069146 00000-0 99922-4 0 185  
2 11863 72.8610 74.9122 0078028 56.2126 304.5705 15.99097417 1879

1 11863U 80 54 A 80191.28387897 .00071367 44203-5 10392-3 0 190  
2 11863 72.8585 72.0623 0078030 53.2875 307.5425 15.99256348 2059

80-55A

Progress 10

Upp: 29 juni

1	11867U	80	55	A	80181.37226669	-.00009216	56702-4	00000 0 0	15
2	11867	51.6243	356.4628	0060965	39.1779	271.1861	16.18472566		32

1	11867U	80	55	A	80181.68100961	-.00008209	56719-4	00000 0 0	25
2	11867	51.6162	354.7523	0047798	175.8532	184.2791	16.16804581		82

1	11867U	80	55	A	80182.17546047	.00474745	56617-4	30992-4 0	37
2	11867	51.6180	352.0607	0045624	178.5505	181.9928	16.17304139		161

1	11867U	80	55	A	80182.42251917	.00482300	56711-4	31120-4 0	40
2	11867	51.6180	350.7096	0045097	179.5644	180.5463	16.17551469		201

1	11867U	80	55	A	80182.66975598	.00431473	00000-0	31120-4 0	56
2	11867	51.6192	349.3560	0036593	185.0544	175.0110	16.15924069		246

1	11867U	80	55	A	80183.04076485	.00438665	00000-0	31120-4 0	68
2	11867	51.6151	347.3344	0036619	186.3805	173.6701	16.16225335		300

1	11867U	80	55	A	80186.51670324	.00049737	00000-0	26419-3	0	77
2	11867	51.6275	329.3303	0011459	54.5243	305.6828	15.79889075			867

1	11867U	80	55	A	80190.38047823	.00055103	00000-0	29064-3	0	89
2	11867	51.6223	306.7265	0012284	61.8229	298.4012	15.80372382			1554

1	11867U	80	55	A	80197.70768596	.00071389	00000-0	35297-3	0	93
2	11867	51.6242	271.2886	0012428	86.4895	273.7530	15.81286421			2632

1	11867U	80	55	A	80200.36259011	.00059543	00000-0	32575-3	0	103
2	11867	51.6245	257.5174	0008232	21.3456	338.7888	15.79209469161235			

80-56 A?

Kosmos 1190

Upp: 1 juli

1	11869U		80184.47968672	-.00010211	00000-0	41020-2 0	79
2	11869	74.0520	33.0234	0009604	32.7679	327.4048 14.29184851	177
1	11870U		80184.47850173	-.00019258	00000-0	-75501-2 0	69
2	11870	74.0551	33.5241	0016563	44.4022	315.8403 14.29632961	161
1	11870U	80 56 B	80187.55750395	-.00010389	00000-0	-40638-2 0	132
2	11870	74.0548	28.0359	0017044	45.2024	315.0476 14.29574224	609



80-57A

Kosmos 1191

Lpp: 2,24

1	11871U	80	57	A	80184.08780079	-.00000560	00000-0	00000 0 0	13
2	11871	62.6430	243.3529	7391194	316.0979	5.0535	1.98528706	02	

1	11871U	80	57	A	80184.08781937	-.00000562	00000-0	00000 0 0	25
2	11871	62.6493	243.3665	7393769	316.0680	5.0522	1.98531206	06	

1	11871U	80	57	A	80185.09528282	-.00000445	00000-0	00000 0 0	68
2	11871	62.6609	243.2077	7390608	316.1173	5.0365	1.98510326	25	

1	11871U	80	57	A	80188.11783078	-.00000083	00000-0	00000 0 0	114
2	11871	62.6632	242.7528	7389596	316.1463	4.9910	1.98501520	88	

1	11871U	80	57	A	80190.13304477	-.00001355	00000-0	00000 0 0	125
2	11871	62.6630	242.4500	7370093	316.1846	22.8026	2.00446031	132	

80-58A

Kosmos 1192-1199

Upp: 9 juli från Pleseck

1	11875U	80 58	A	80191.48951491	-.00000006	00000-0	00000 0 0	24
2	11875	74.0221		305.2416 0049045	97.8780	262.7974	12.56898479	64
1	11876U	80 58	C	80191.41052075	-.00000006	00000-0	00000 0 0	28
2	11876	74.0128		305.3528 0036740	124.1391	236.5170	12.54944866	52
1	11877U	80 58	H	80191.49092746	-.00000007	00000-0	00000 0 0	27
2	11877	74.0241		305.2511 0026444	176.9345	253.5542	12.52503092	69
1	11878U	80 58	J	80191.49163012	-.00000007	00000-0	00000 0 0	23
2	11878	74.0212		305.2835 0015377	119.0375	241.2379	12.50322924	67
1	11879U	80 58	D	80191.41217330	-.00000006	00000-0	00000 0 0	28
2	11879	74.0148		305.3507 0005286	150.4710	199.6132	12.48126687	59
1	11880U	80 58	E	80191.41281936	-.00000006	00000-0	00000 0 0	23
2	11880	74.0215		305.3916 0013640	232.4259	127.5507	12.45714099	51

1	11881U	80	58	F	80191.41337757	-.00000006	00000-0	00000 0 0	27
2	11881	74.0183	305.3884	0022696	262.3579	97.4755	12.43509742	53	
1	11882U	80	58	G	80191.41406489	-.00000006	00000-0	00000 0 0	27
2	11882	74.0186	305.3598	0036792	257.5121	102.1808	12.40933044	56	
1	11883U	80	58	B	80191.41869226	-.00000006	00000-0	00000 0 0	20
2	11883	74.0136	305.3904	0132582	269.4719	89.1144	12.23464824	55	
1	11876U	80	58	C	80191.25105842	-.00000006	00000-0	00000 0 0	10
2	11876	74.0234	305.5775	0039320	107.7890	252.7460	12.54629846	32	
1	11879U	80	58	D	80191.25189046	-.00000006	00000-0	00000 0 0	11
2	11879	74.0159	305.5724	0005047	163.5051	196.6164	12.48216875	37	
1	11880U	80	58	E	80191.33251828	-.00000006	00000-0	00000 0 0	10
2	11880	74.0222	305.4984	0013205	230.1714	129.8173	12.45727950	46	
1	11881U	80	58	F	80191.25249304	-.00000006	00000-0	00000 0 0	18
2	11881	74.0168	305.6020	0023789	264.1165	95.7170	12.43539949	38	
1	11882U	80	58	G	80191.25284407	-.00000006	00000-0	00000 0 0	12
2	11882	74.0124	305.5707	0045187	257.0453	102.5545	12.41417898	38	
1	11883U	80	58	B	80191.25516855	-.00000006	00000-0	00000 0 0	18
2	11883	74.0097	305.5949	0132586	269.6422	88.9421	12.23460866	34	

80-59A

Kosmos 1200.

Lpp: 9, juli' från Plesetsk'

Nöd: 23, juli'

1	11884U	80 59	A	80191.58168498	-.00001762	12154-4	00000 0 0	08
2	11884	72.8529		122.2980 0077537	85.3492	275.6595	16.09141914	17

1	11884U	80 59	A	80191.70611624	-.00001707	11783-4	00000 0 0	24
2	11884	72.8123		121.9299 0075416	82.3002	278.6789	16.08301256	30

1	11884U	80 59	A	80192.07932694	-.00001660	11338-4	00000 0 0	33
2	11884	72.8569		120.9854 0081862	85.4818	275.5948	16.08371594	92

1	11884U	80 59	A	80192.32861636	-.00000165	00000-0	00000 0 0	59
2	11884	72.8591		120.3543 0047617	69.9443	290.6907	16.06093565	132

1	11884U	80 59	A	80192.32861636	-.00000165	00000-0	00000 0 0	60
2	11884	72.8591		120.3543 0047617	69.9443	290.6907	16.06093565	132

1	11884U	80 59	A	80193.26292789	.00114276	81489-5	13317-3 0	74
2	11884	72.8633		117.9660 0046892	67.4247	293.3916	16.06296072	284

1	11884U	80	59	A	80194.01025890	.00114985	93360-5	13317-3	0	83
2	11884	72.8633	116.0576	0046691	65.5639	295.0456	16.06410958			404

1	11884U	80	59	A	80194.25936210	.00082471	00000-0	93517-4	0	97
2	11884	72.8619	115.4202	0047035	65.1090	295.4752	16.06428128			442

1	11884U	80	59	A	80196.31426761	.00089629	00000-0	99857-4	0	119
-2	11884	72.8600	110.1689	0045952	60.5675	300.0523	16.06779994			772

1	11884U	80	59	A	80197.37266311	.00092508	63275-5	10411-3	0	127
2	11884	72.8582	107.4613	0045533	57.4296	303.1571	16.06978330			947

1	11884U	80	59	A	80198.24418329	.00094670	65154-5	10554-3	0	130
2	11884	72.8585	105.2316	0045252	55.0254	305.5274	16.07144463			1087

1	11884U	80	59	A	80199.24009862	.00098102	69142-5	10818-3	0	159
2	11884	72.8553	102.6833	0044889	52.3937	308.1454	16.07340769			1249

1	11884U	80	59	A	80200.23588941	.00095399	67932-5	10375-3	0	160
2	11884	72.8605	100.1382	0045193	50.4453	310.0421	16.07525204			1408

1	11884U	80	59	A	80201.29376796	.00110369	79869-5	11859-3	0	176
2	11884	72.8567	97.4220	0043963	48.3465	312.2491	16.07799166			1575

1	11884U	80	59	A	80202.22702168	.00125270	97865-5	13201-3	0	183
2	11884	72.8600	95.0320	0044301	45.0957	315.3933	16.08047764			1727

1	11884U	80	59	A	80202.97354657	.00084898	52942-5	13201-3	0	199
2	11884	72.8690	93.1281	0086409	58.9921	301.9759	15.97048071			1840

80-59A

Kosmos 1200

font 1

1	11884U	80	59	A	80203.22410997	.00085526	52831-5	13201-3 0	206
2	11884	72.8634	92.4914	0086956	58.1718	302.7799	15.97078791	1884	
1	11884U	80	59	A	80204.22630553	.00086002	52994-5	13201-3 0	210
2	11884	72.8607	89.3662	0086382	55.9879	304.9217	15.97244465	2043	

80-60A

Ekran 5

Lapp: 15 juli från Tyuratam

1	11890U		80196.93412896	-.00000230	00000-0	99999-4 0	13
2	11890	0.3708	291.0383 0050000	359.9918	78.3872	1.01408538	08
1	11891U		80197.23954535	.31193476	59054-4	54596-3 0	29
2	11891	51.6586	279.6266 0068060	285.2560	74.2300	16.34222431	26
1	11892U		80197.17852569	.16029310	59524-4	37342-3 0	26
2	11892	51.6340	279.9302 0016578	273.1002	88.7085	15.35487254	18
1	11914U	80-60	80216.18811404	.00000986	00000-0	12508-2 0	61
2	11914	47.2828	275.7093 7234015	4.9314	359.5647	2.29251119	444
1	11990U	80 60 A	80219.61522198	-.00000014	00000-0	00000 0 0	27
2	11890	15.7918	85.5752 0373595	359.5207	267.0615	1.04175450	248
1	11890U	80 60 A	80219.61898766	.00000084	00000-0	00000 0 0	31
2	11890	1.9792	82.7865 0050000	6.5143	271.5011	1.01409978	476

80-61A

Kosmos 1201

Upp: 15,241' från Pleseck

Ned: 28,241'

1	11894U	80	61	A	80197.36668661	.00000096	00000-0	00000 0 0	13
2	11894	82.3088	72.1855	0020436	107.6168	251.8479	16.18565290	16	
1	11894U	80	61	A	80197.30497702	.00000087	00000-0	00000 0 0	24
2	11894	82.3220	72.2222	0022653	64.1429	295.2190	16.15464176	03	
1	11894U	80	61	A	80197.42886553	.00000097	00000-0	00000 0 0	35
2	11894	82.3316	72.0835	0026050	103.0482	257.7339	16.16722969	21	
1	11894U	80	61	A	80198.17155783	.00127523	00000-0	93299-5 0	45
2	11894	82.3342	71.2092	0026332	101.6626	259.0212	16.16931619	145	
1	11894U	80	61	A	80198.97584019	.00179659	00000-0	11929-4 0	68
2	11894	82.3352	70.2697	0015452	89.1516	271.1541	16.19070231	276	
1	11894U	80	61	A	80199.28486226	.00231514	00000-0	15276-4 0	74
2	11894	82.3364	69.9041	0018323	89.5006	270.7714	16.19194232	326	



1	11894U	80	61	A	80200.27356236	.30681799	00000-0	42452-4 0	84
2	11894	82.2920	68.7113	0023384	69.6156	290.6854	16.20044901	480	
1	11894U	80	61	A	80200.45892466	.00280346	00000-0	17936-4 0	97
2	11894	82.3348	68.5193	0018965	84.7137	275.6315	16.19734779	513	
1	11894U	80	61	A	80202.25013250	.00253755	00000-0	15473-4 0	114
2	11894	82.3362	66.4127	0018740	78.4027	282.0666	16.20613606	802	
1	11894U	80	61	A	80202.25013250	.00253755	00000-0	15473-4 0	125
2	11894	82.3362	66.4127	0018740	78.4027	282.0666	16.20613606	902	
1	11894U	80	61	A	80203.36137476	.00252572	00000-0	14940-4 0	130
2	11894	82.3360	65.1025	0018303	73.8648	286.4530	16.21174183	981	
1	11894U	80	61	A	80204.22542928	.00262421	00000-0	15146-4 0	152
2	11894	82.3347	64.0824	0017654	70.8800	289.4994	16.21636104	1121	
1	11894U	80	61	A	80206.32274785	.00283742	-61034-5	15335-4 0	170
2	11894	82.3324	61.6029	0015746	63.8709	296.4516	16.22815666	1464	
1	11894U	80	61	A	80206.93947770	.00236659	-58121-5	15335-4 0	187
2	11894	82.3381	60.8772	0030633	62.4391	298.0003	16.18879582	1569	
1	11894U	80	61	A	80207.24853202	.00239107	-53958-5	15335-4 0	193
2	11894	82.3274	60.5148	0031157	58.7396	301.6921	16.19037328	1610	

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Kosmos 1201

forts. 1

1	11894U	80	61	A	30208.29909889	.00255510	-57024-5	15913-4	0	200
2	11894	82.3327	59.2751	0031290	51.9542	308.4593	16.19561001	1788		

1	11894U	80	61	A	30209.22577739	.00264668	-56747-5	16044-4	0	211
2	11894	82.3326	58.1827	0031080	48.8315	311.6203	16.20058887	1935		

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RS-1 (Rohini)

Upp: 18,241 från Srihankota, Indien.

1	11899U		80200.81963965	.00009761	00000-0	17970-3 0	08
2	11899	44.7424	245.9575 0439101	168.5026	192.6266	14.85350264	116

1	11899U		80201.15588178	.00085895	00000-0	15297-2 0	28
2	11899	44.7436	244.2265 0437366	170.6353	190.3227	14.85404200	166

1	11899U		80202.29899910	.00093448	00000-0	16540-2 0	40
2	11899	44.7435	238.3265 0436952	176.9662	193.5385	14.85622059	332

1	11899U		80202.97130673	.00041617	00000-0	73121-3 0	50
2	11899	44.7477	234.8675 0438216	180.7017	179.3076	14.85704854	432

1	11899U		80202.97130673	.00041617	00000-0	73121-3 0	61
2	11899	44.7477	234.8675 0438216	180.7017	179.3076	14.85704854	432

1	119000			80202	90408572	.00042882	00000-0	73121-3 0	13
2	11900	44.7589	235.0977	0441525	180.4559	179.5956	14.95654615		420

1	11900U			80203	44195469	.00040800	00000-0	73121-3 0	20
2	11900	44.7437	232.4295	0436224	183.2205	176.3864	14.85691990		503

1	11899U	80 62	A	80218	22186316	.00043203	00000-0	74433-3 0	247
2	11899	44.7550	156.0574	0430660	264.8134	90.3453	14.87657206		2709

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Molviya 3

Upp: 18,24' från Plesotsk

1	11896U		80199.47094301	-.00000182	00000-0	00000 0 0	04
2	11896	62.7947	45.7133 7469841	280.1577	10.5471	1.95522512	04
1	11898U		80200.74672110	.01005917	11237-4	16664-3 0	27
2	11898	62.7966	44.6420 0189920	130.9160	230.2602	15.79807289	42
1	11897U		80200.55638883	-.00005526	38365-4	00000 0 0	13
2	11897	62.7909	45.3190 0169594	138.2689	223.1534	15.86062703	02
1	11898U		80200.49333540	-.00000603	00000-0	30000 0 0	11
2	11898	62.7966	45.6069 0189920	130.8706	230.9054	15.78432318	05
1	11896U	80 63 A	80219.06093315	.00000055	00000-0	00000 0 0	90
2	11896	62.8251	42.5673 7428039	280.2842	10.7969	2.00605795	395

80-64A

Soyuz 37

Hpp: 23 juli från Tyuratam

1	11905U	80 64	A	80205.82703152	-.00008223	56849-4	00000 0 0	12
2	11905	51.5835		229.4049 0062545	84.0378	276.7789	16.15602327	17

1	11905U	80 64	A	80206.01269108	-.00000551	00000-0	00000 0 0	34
2	11905	51.4854		228.3911 0026846	257.6558	102.1446	15.99479109	41

1	11905U	80 64	A	80206.32509670	.00253654	34354-4	44556-3 0	44
2	11905	51.6210		226.8291 0044607	275.6076	83.9811	15.99518990	92

1	11905U	80 64	A	80209.80687331	.00035385	00000-0	22936-3 0	67
-2-	11905	51.6222		208.8168 0010621	284.4386	75.5428	15.75594469162728	

1	11905U	80 64	A	80214.30947704	.00053816	00000-0	34136-3 0	76
2	11905	51.6259		185.6299 0010860	307.2277	51.9762	15.75891871	1348

1	11905U	80 64	A	80214.30947704	.00053816	00000-0	34136-3 0	87
2	11905	51.6259		185.6299 0010860	307.2277	51.9762	15.75891871	1348

1	11905U	80	64	A	80211.39233288	.00035511	00000-0	22904-3	0	91
2	11905	51.6231	200.6508	0010554	290.4125	68.9264	15.75708644			983

1	11905U	80	64	A	80217.22583573	.00075929	00000-0	47162-3	0	106
2	11905	51.6256	170.5992	0010858	309.1649	50.8387	15.76522969			1802

1	11905U	80	64	A	80219.25415765	.00039846	00000-0	24565-3	0	119
2	11905	51.6261	160.1438	0010830	318.0245	41.9924	15.76674023164211			

1	11905U	80	64	A	80224.76875343	.00023329	00000-0	14425-3	0	127
2	11905	51.6260	131.6829	0010148	338.5671	26.0419	15.76926477			2899

1	11905U	80	64	A	80234.39576095	.00042531	00000-0	24382-3	0	139
2	11905	51.6242	81.9741	0010867	11.1055	349.0184	15.78280893			4412

1	11905U	80	64	A	80235.34547282	-.00059441	00000-0	-33887-3	0	142
2	11905	51.6444	77.0529	0009743	12.0446	348.0787	15.78341134			4561

1	11905U	80	64	A	80243.38326436	.00055177	00000-0	30492-3	0	152
2	11905	51.6248	35.4747	0011191	43.2751	315.5754	15.79306120			5835

1	11905U	80	64	A	80249.71318627	.00105457	00000-0	67105-3	0	166
2	11905	51.6241	2.7398	0008681	269.9468	90.0538	15.75577019			6831

1	11905U	80	64	A	80275.26305545	.00086687	00000-0	49328-3	0	182
2	11905	51.6256	231.7489	0004884	261.7049	98.3398	15.79217349			10866

1	11905U	80	64	A	80275.26305545	.00086302	00000-0	49116-3	0	192
2	11905	51.6268	231.0495	0004873	261.1054	98.9389	15.78216685			10861

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SOYUZ 37

parts. 2.

1	11905U	80	64	A	80275.26305545	.00096686	00000-0	49328-3	0	204
2	11905	51.6266	231.7489	0004884	261.7051	98.3397	15.78217348	10867		

1	11905U	80	64	A	80275.26305545	.00096684	00000-0	49328-3	0	213
2	11905	51.6266	231.7489	0004884	261.7050	98.3398	15.78217348	10867		



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Kosmos 1202

Upp: 24 juli från Plesetsk Ned: 7 aug.

1	11907U	80 65	A	80206.58159370	-.00001695	11712-4	00000 0 0	12
2	11907	72.8448	137.0012	0074968	84.5131	276.1911	16.10229731	13

1	11907U	80 65	A	80206.64391989	-.00001749	12152-4	00000 0 0	23
2	11907	72.8508	136.7934	0082235	86.1087	274.9546	16.09188629	21

1	11907U	80 65	A	80207.26600117	-.00001746	12136-4	00000 0 0	38
2	11907	72.8497	135.1962	0081879	87.0547	274.1827	16.08274446	124

1	11907U	80 65	A	80207.39060886	-.00000164	00000-0	00000 0 0	53
2	11907	72.8296	134.8628	0047946	70.3055	290.3343	16.06140217	143

1	11907U	80 65	A	80208.26263219	.00386574	72028-4	44430-3 0	69
2	11907	72.8546	132.6526	0046805	69.3571	291.5064	16.06459105	285

1	11907U	80 65	A	80208.51172448	.00394387	75013-4	44430-3 0	74
2	11907	72.8478	132.0171	0049678	66.1456	294.4973	16.06469129	320

1	11907U	80 65	A	80209.00993464	.00386276	71878-4	44430-3 0	87
2	11907	72.8601	130.7454	0046907	66.4981	294.1273	16.06437352	406

1	11907U	80	65	A	80209.00993464	.00386276	71878-4	44430-3	0	98
2	11907	72.8601	130.7454	0046907	66.4881	294.1273	16.06437352			406

1	11907U	80	65	A	80209.50811704	.00003944	00000-0	-43199-5	0	109
2	11907	72.8444	129.4711	0046723	65.4222	295.1871	16.06530038			484

1	11907U	80	65	A	80210.19311339	.00099183	69819-5	11255-3	0	118
2	11907	72.8507	127.7167	0047013	63.7578	297.1160	16.06705205			593

1	11907U	80	65	A	80211.31376711	.00123164	93928-5	13815-3	0	128
2	11907	72.8492	124.8476	0045997	60.7020	299.9191	16.06956715			773

1	11907U	80	65	A	80211.87403760	.00098207	67840-5	10948-3	0	132
2	11907	72.8474	123.4147	0046271	59.5609	300.9139	16.07040364			368

1	11907U	80	65	A	80213.30574020	.00095072	66391-5	10430-3	0	155
2	11907	72.8440	119.7444	0046040	55.7505	304.7816	16.07309755			1098

1	11907U	80	65	A	80214.30155791	.00093274	64231-5	10121-3	0	167
2	11907	72.8430	117.1935	0045870	53.7300	306.7771	16.07490262			1259

1	11907U	80	65	A	80212.30981140	.00096599	66598-5	10712-3	0	145
2	11907	72.8478	122.2979	0046266	57.8796	302.6864	16.07123332			933

1	11907U	80	65	A	80215.17281066	.00094756	00000-0	99834-4	0	173
2	11907	72.8434	114.9660	0045470	51.1986	309.3164	16.07649476			1394

1	11907U	80	65	A	80216.35507989	.00093075	00000-0	96870-4	0	181
2	11907	72.8477	111.9373	0045190	48.0204	312.4546	16.07962205			1583

80-65A

Kosmos 1202

parts. 1

1	11907U	80	65	A	80217.28834428	-.00279867	00000-0	-30217-4	0	195
2	11907	72.8492	109.5439	0046091	45.2991	315.2199	16.07974419			1732

1	11907U	80	65	A	80218.15927993	.00098033	00000-0	10527-4	0	208
2	11907	72.8500	107.3110	0044811	43.7099	316.8009	16.08226823			1875

1	11907U	80	65	A	80218.22148041	.00097898	00000-0	10509-4	0	214
2	11907	72.8493	107.1541	0044732	43.5645	316.9080	16.08238389			1881

1	11907U	80	65	A	80219.21671820	.00098706	00000-0	10509-4	0	220
2	11907	72.8515	104.6036	0044424	41.0194	319.4003	16.08427367			2045

1	11907U	80	65	A	80219.21671820	.00098705	00000-0	10509-4	0	220
2	11907	72.8515	104.6036	0044424	41.0194	319.4003	16.08427367			2045

80-66A

Kosmos 1203

Lopp: 37 juli från Plesetsk Nord: 14 aug.

1	11915U		80213.37748826	.30000090	00000-0	00000 0 0	29
2	11915	82.3240	91.7129	0042386	90.7867	259.8274 16.12573422	19
1	11915U		80213.97446596	.30133804	00700-0	12408-4 0	34
2	11915	82.3261	91.1043	0046643	86.9804	273.6815 16.11082136	92
1	11915U		80214.43452651	.32290919	73563-2	45363-2 0	51
2	11915	82.3201	90.4547	0009931	317.8162	42.2436 16.03117529	189
1	11915U		80214.74663868	.30229419	22117-4	37498-3 0	67
2	11915	82.3201	90.0944	0010218	313.4854	46.5575 16.03141061	231
1	11915U		80215.18358229	.30058934	00000-0	95128-4 0	79
2	11915	82 3176	89.5941	0010104	308.0174	52.0193 16.03152809	309
1	11915U		80216.30708825	.30054699	00000-0	37798-4 0	84
2	11915	82.3257	88.2951	0010330	303.7795	56.1394 16.03254471	483
1	11915U	80 66 A	80218.24185652	.30054148	30000-0	85661-4 0	107
2	11915	82.3235	86.0674	0010023	290.6356	69.3824 16.03468391	799

1	11915U	80 66	A	80219.24034053	.00049284	00000-0	76211-4 0	110
2	11915	82.3238		84.9193 0010249	284.3968	75.5981	16.03559664	957

1	11915U	80 66	A	80220.23877616	.00054529	00000-0	85346-4 0	120
2	11915	82.3217		83.7673 00102691	290.3901	79.6602	16.03572091	1114

1	11915U	80 66	A	80220.98759885	.00052126	00000-0	85346-4 0	131
2	11915	82.3265		82.9067 0008884	288.8087	71.2228	16.02954544	1234

1	11915U	80 66	A	80221.23730604	-.00080845	00000-0	-13613-3 0	142
2	11915	82.3222		82.6181 0009016	289.0599	70.9672	16.02946946	1270

1	11915U	80 66	A	80221.54944958	.00415682	78888-4	67849-3 0	153
2	11915	82.3234		82.2555 0008938	298.9639	61.2306	16.03227604	1327

1	11915U	80 66	A	80222.11124675	.00043910	00000-0	71566-4 0	164
2	11915	82.3247		81.6127 0007811	286.5288	73.5254	16.03076074	1412

1	11915U	80 66	A	80222.23608938	.00066129	10888-5	10806-3 0	173
2	11915	82.3250		81.4685 0008454	284.6933	75.3792	16.03117453	1439

1	11915U	80 66	A	80223.29719285	.00054044	00000-0	87096-4 0	188
2	11915	82.3216		80.2471 0008492	278.7480	81.1855	16.03223493	1600

1	11915U	80 66	A	80224.23343337	.00062544	00000-0	99964-4 0	196
2	11915	82.3232		79.1689 0008236	275.2368	84.8268	16.03342018	1758

1	11915U	80 66	A	80226.29286876	.00069384	12327-5	10852-3 0	217
2	11915	82.3215		76.7957 0008438	265.9388	94.1332	16.03613985	2089

80-67A

Kosmos 1204

Upp: 31 Juli från Augustin Yar

1	11917U	80 67	A	80213.47970847	.00000278	00000-0	00000 0 0	11
2	11917	50.6820		39.6010 0144210	142.4939	218.6201	15.39534049	18
1	11917U	80 67	A	80215.29459911	.00047602	00000-0	76951-3 0	43
2	11917	50.6639		29.5198 0141524	154.0300	206.5802	15.41732533	293
1	11917U	80 67	A	80216.33161637	.00045485	00000-0	73406-3 0	54
2	11917	50.6650		24.3334 0141317	158.1984	202.4840	15.41822597	457
1	11917U	80 67	A	80218.27583165	.00047308	00000-0	76070-3 0	71
2	11917	50.6662		14.6135 0140533	165.8590	194.6401	15.42004520	756
1	11917U	80 67	A	80219.24784662	.00041649	00000-0	66926-3 0	86
2	11917	50.6650		9.7523 0140516	169.6975	190.6377	15.42078587	908
1	11917U	80 67	A	80220.28462463	.00044800	00000-0	71729-3 0	94
2	11917	50.6651		4.5665 0140296	173.8205	186.4535	15.42171624	1060

80-68A

Kosmos 1205

Upp: 12 aug från Plotsk Ned: 26 aug

1	11924U	80 68	A	80225.54688360	-.00001711	11741-4	00000 0 0	18
2	11924	72.8223		143.0706 0074494	79.5569	281.4051	16.10424064	13
1	11924U	80 68	A	80225.67112603	-.00001753	12160-4	00000 0 0	27
2	11924	72.8090		142.7555 0074494	79.2461	281.7151	16.10451253	37
1	11924U	80 68	A	80225.79575297	-.00001721	11953-4	00000 0 0	46
2	11924	72.8242		142.3993 0080609	81.9194	279.1177	16.09379626	57
1	11924U	80 68	A	80225.04454511	-.00000154	00000-0	00000 0 0	61
2	11924	72.8305		141.7790 0057293	84.0332	276.7425	16.02965526	92
1	11924U	80 68	A	80226.16936003	.21169064	27100-5	23983-2 0	87
2	11924	72.8193		141.4353 0051326	67.6386	293.4237	16.06596921	110
1	11924U	80 68	A	80226.16936003	.21169064	27100-5	23983-2 0	76
2	11924	72.8193		141.4353 0051326	67.6386	293.4237	16.06596921	110
1	11924U	80 68	A	80226.85440304	.00022861	00000-0	27032-4 0	117
2	11924	72.8068		139.6800 0045006	72.9994	287.6249	16.06204395	229
1	11924U	80 68	A	80226.48068625	.01909351	27908-2	23983-2 0	103
2	11924	72.8187		140.6314 0044599	74.2601	286.3545	16.05998880	166

1	11924U	80	68	A	80229.22083649	.00093219	63084-5	10776-3	0	146
2	11924	72.8112	133.6180	0044322	66.8808	293.7137	16.06687142			602

1	11924U	80	68	A	80230.15477612	.00097206	57352-5	11149-3	0	155
2	11924	72.8082	131.2222	0043623	65.1775	295.4167	16.26870063			752

1	11924U	80	68	A	80232.33350952	.00109651	78019-5	12222-3	0	178
2	11924	72.8081	125.6307	0042923	59.8875	300.6508	16.07348206			1102

1	11924U	80	68	A	80233.26705834	.00113093	82481-5	12463-3	0	186
2	11924	72.8106	123.2329	0042490	57.5155	303.0107	16.07557545			1250

1	11924U	80	68	A	80234.32493018	.00111616	82415-5	12123-3	0	192
2	11924	72.8090	120.5211	0042367	54.9133	305.5674	16.07798786			1429

1	11924U	80	68	A	80235.32044212	.00112960	83617-5	12091-3	0	205
2	11924	72.8100	117.9616	0042231	52.1311	308.3981	16.08019809			1589

1	11924U	80	68	A	80236.25359383	.00113599	84316-5	11991-3	0	211
2	11924	72.8108	115.5667	0042168	49.5309	310.9440	16.08229142			1733

1	11924U	80	68	A	80237.24882786	.00109977	81271-5	11459-3	0	221
2	11924	72.8129	113.0096	0041993	47.0157	313.4078	16.08441134			1894

1	11924U	80	68	A	80238.18174934	.00110905	81153-5	11459-3	0	237
2	11924	72.8130	110.6107	0041175	44.3933	316.2052	16.08636153			2042

1	11924U	80	68	A	80239.17677393	.00093345	80000-0	98452-4	0	243
2	11924	72.8112	108.0541	0041124	42.1582	318.2905	16.08801071			2207



80-69A

Kosmos 1206

Upp: 15 aug från Plesetsk

1	11932U		80228.22312581	.00000009	00000-0	00000 0 0	01
2	11932	81.1909	71.1959 0001207	30.7612	329.3668	14.79765681	08
1	11933U		80228.22303907	.00000009	00000-0	00000 0 0	04
2	11933	81.1995	71.2118 0022314	157.5966	202.6222	14.76972366	00
1	11933U		80228.22303907	.00000009	00000-0	00000 0 0	15
2	11933	81.1995	71.2118 0022314	157.5966	202.6222	14.76972366	00
1	11932U		80228.22312581	.00000009	00000-0	00000 0 0	12
2	11932	81.1909	71.1959 0001207	30.7612	329.3668	14.79765681	08
1	11933U		80228.42622954	.00000009	00000-0	00000 0 0	24
2	11933	81.2149	70.9695 0022161	162.6371	197.5600	14.77509379	31
1	11932U		80228.42598402	.00000009	00000-0	00000 0 0	23
2	11932	81.1953	70.9731 0001207	30.1207	330.0071	14.79737687	31

1	11932U	80	69	A	80232.28029065	.00002051	00000-0	27059-3	0	69
2	11932	81.2059	66.7520	0002971	352.3820	7.7147	14.79750680			600

1	11932U	80	69	A	80233.29457913	.00001759	00000-0	23297-3	0	74
2	11932	81.2063	65.6425	0002933	348.0304	12.0739	14.79752881			751

1	11932U	80	69	A	80235.39076617	.00001613	00000-0	21229-3	0	100
2	11932	81.2060	63.3491	0002963	341.1362	18.9728	14.79758709			1069

80-70A

Kosmos 1207

Upp: 22 aug från Plesestsk

Ned: 4 sept.

1	11938U	80	70	A	80235.47104450	.70000096	00000-0	00000 0 0	10
2	11938	82.3250	147.2652		0027987	177.4481	252.9868	16.17237259	12
1	11938U	80	70	A	80235.47104469	.00000090	00000-0	00000 0 0	23
2	11938	82.2914	147.2509		0039599	93.2124	267.3693	16.13596990	10
1	11938U	80	70	A	80235.71390986	.70000096	00000-0	00000 0 0	33
2	11938	82.3153	146.9578		0034692	125.7953	254.7162	16.15329113	57
1	11938U	80	70	A	80236.21450660	.00207052	00000-0	15925-4 0	49
2	11938	82.3243	146.3795		0033985	104.5664	256.1837	16.15567990	139
1	11938U	80	70	A	80237.08133956	.70241461	00000-0	15925-4 0	54
2	11938	82.3242	145.3599		0023169	89.3443	271.7498	16.19005591	270
1	11938U	80	70	A	80237.20495520	-.00121062	00000-0	-80524-5 0	61
2	11938	82.3255	145.2110		0019495	97.1847	263.2569	16.19026116	294

1	11938U	80 70	A	80238.19372867	.00223771	00000-0	14731-4	0	89
2	11938	82.3203		144.0468	0022624	82.5026	277.7248	16.19465764	454

1	11938U	80 70	A	80239.24405272	.00205008	00000-0	12895-4	0	91
2	11938	82.3210		142.8078	0022872	80.7272	279.4856	16.19879086	521

1	11938U	80 70	A	80240.35588735	.00215394	00000-0	13185-4	0	105
2	11938	82.3220		141.4982	0022730	*77.1550	293.3541	16.20375233	805

1	11938U	80 70	A	80241.22036029	.00238731	-58618-5	14225-4	0	117
2	11938	82.3232		140.4765	0022358	74.0300	286.5423	16.20819920	946

1	11938U	80 70	A	80242.33146107	.00240498	-54682-5	13936-4	0	129
2	11938	82.3207		139.1636	0021520	69.7577	290.6519	16.21359456	1124

1	11938U	80 70	A	80242.94858864	.00228109	-57587-5	13034-4	0	137
2	11938	82.3195		138.4336	0021064	68.2664	292.7198	16.21622124	1226

1	11938U	80 70	A	80243.01032008	.00191233	00000-0	13034-4	0	140
2	11938	82.3233		138.3633	0008717	72.5150	287.7090	16.18853030	1239

1	11938U	80 70	A	80243.31938268	.00082063	00000-0	55622-5	0	157
2	11938	82.3258		137.9978	0008787	66.3541	293.8648	16.18942347	1287

1	11938U	80 70	A	80243.31938268	.00082063	00000-0	55622-5	0	157
2	11938	82.3258		137.9978	0008787	66.3541	293.8648	16.18942347	1287

1	11938U	80 70	A	80244.24643370	.00208991	00000-0	13885-4	0	162
2	11938	82.3277		136.8809	0007337	69.9728	290.2711	16.19347224	1431

80-70A

Kosmos 1207

forts. 1

1	11938U	80 70	A	80245.29681597	.00198474	00000-0	12987-4 0	177
2	11938	82.3192		135.6654 0008423	60.7889	299.2908	16.19750399	1600
1	11938U	80 70	A	80247.02632045	.00205938	00000-0	12977-4 0	188
2	11938	82.3193		133.6223 0007114	58.7362	301.4944	16.20458595	1881

80-71A

Kosmos 1208

Upp: 26 aug. från Peretsk. Ned: 24 sept.

1	11945U	80 71	A	80239.76112304	-.00004043	27916-4	00000 0 0	05
2	11945	67.1601		193.7278 0112073		64.1702 297.0998	16.07745881	05

1	11945U	80 71	A	80240.25906995	.00685743	27695-4	43372-4 0	29
2	11945	67.1404		192.0393 0124441		67.3089 294.5801	16.07476361	88

1	11945U	80 71	A	80241.25409075	.00703789	28406-4	42305-4 0	36
2	11945	67.1425		188.6776 0121167		66.2606 295.0325	16.08843620	266

1	11945U			80241.81348182	.00674057	28017-4	39492-4 0	40
2	11945	67.1413		186.7873 0119205		65.6568 295.7015	16.09585036	99.

1	11945U			80241.99988643	.01096475	28454-4	63645-4 0	56
2	11945	67.1512		186.1675 0118038		65.7072 295.6395	16.09892557	1008

1	11945U			80242.24836780	.00731673	28135-4	42186-4 0	68
2	11945	67.1444		185.3099 0116783		65.3632 295.9671	16.10237646	1044

1	11945U			80242.24836780	.00731673	28135-4	42186-4 0	68
2	11945	67.1444		185.3099 0116783		65.3632 295.9671	16.10237646	1044

1	11945U		80243.05552555	.00792882	28452-4	43405-4 0	91
2	11945	67.1446	182.5761 0113980	64.9311	296.4631	16.11514894	1176
1	11945U		80243.30374942	.00815998	28176-4	44233-4 0	97
2	11945	67.1400	181.7316 0112904	64.2861	296.9951	16.11931367	1216
1	11945U		80243.30374911	.00798238	28694-4	43324-4 0	108
2	11945	67.1401	181.7339 0112302	64.4587	296.8266	16.11927663	1211
1	11945U		80243.73800329	.00794438	28604-4	41830-4 0	112
2	11945	67.1414	180.2557 0111134	63.8456	297.4070	16.12593429	1298
1	11945U		80244.23407818	.01477570	28379-4	76352-4 0	129
2	11945	67.1414	178.5692 0107968	63.7424	297.4657	16.13385301	1360
1	11945U		80245.22544551	.00821951	28390-4	39920-4 0	144
2	11945	67.1396	175.1904 0104019	62.6465	298.3754	16.15001667	1525
1	11945U		80246.09256744	.00759806	28241-4	39311-4 0	152
2	11945	67.1336	172.2293 0136628	62.9566	298.5493	16.08411030	1661
1	11945U		80246.21699213	.00692465	27555-4	39311-4 0	165
2	11945	67.1386	171.9086 0139528	66.0067	295.5658	16.06508162	1687
1	11945U		80247.21268636	.00792135	27990-4	42751-4 0	172
2	11945	67.1355	168.4481 0135237	65.3519	296.3693	16.08043442	1844
1	11945U		80248.14519508	.00791198	28418-4	40104-4 0	181
2	11945	67.1345	165.2961 0131342	64.6295	296.7582	16.09498023	1994

80-71A

Kosmos 1208

parts. 1

1	11945U				80248.45580983	.00807784	28417-4	40104-4 0	190
2	11945	67.1345	164.2443	0130047		64.2955	297.1596	16.10228125	2042
1	11945U	80 71	A	80249.26284689	.00833671	27806-4	40104-4 0		207
2	11945	67.1383	161.5007	0123461		63.0309	298.3430	16.11862238	1556
1	11945U	80 71	A	80249.26284689	.00833671	27806-4	40104-4 0		218
2	11945	67.1383	161.5007	0123461		63.0309	298.3430	16.11862238	1556
1	11945U	80 71	A	80249.75905269	.01066530	28202-4	49032-4 0		220
2	11945	67.1375	159.8127	0120498		62.5956	298.7435	16.13039873	1630
1	11945U	80 71	A	80250.25493392	.01233288	28495-4	54183-4 0		230
2	11945	67.1358	158.1229	0117098		62.1632	299.3357	16.14293410	1714
1	11945U	80 71	A	80250.87419619	.01139253	28922-4	47647-4 0		249
2	11945	67.1378	156.0117	0112940		60.8933	300.3507	16.15736163	1818
1	11945U	80 71	A	80251.06075049	.00899680	28070-4	47647-4 0		256
2	11945	67.1529	155.3843	0154678		59.7483	292.0259	16.04719641	1840
1	11945U	80 71	A	80252.05741702	.01700886	28256-4	33825-4 0		278
2	11945	67.1320	152.0149	0147637		68.8975	292.7926	16.07071358	2021



1 11945U 80 71 A 80252.24408585 .01332956 27753-4 64378-4 0 291  
2 11945 67.1320 151.3838 0147261 57.7515 293.3031 16.07444569 2039

1 11945U 80 71 A 80253.98329035 .01275902 28589-4 53457-4 0 321  
2 11945 67.1353 145.4948 0130810 66.6395 294.8496 16.12539744 2310

1 11945U 80 71 A 80254.23133995 .01388297 29480-4 57560-4 0 330  
2 11945 67.1396 144.6504 0127238 66.6396 294.8980 16.13333749 2357

1 11945U 80 71 A 80252.99012832 .01467262 28440-4 56481-4 0 302  
2 11945 67.1462 148.8759 0139089 67.7235 293.8639 16.09889944 2155

1 11945U 80 71 A 80253.23857812 .01485293 28441-4 65686-4 0 316  
2 11945 67.1406 148.0230 0137029 67.4428 294.1269 16.10618764 2192

1 11945U 80 71 A 80254.41730758 .01239101 28423-4 49726-4 0 342  
2 11945 67.1308 144.0166 0127919 65.5238 295.9233 16.13678863 2382

1 11945U 80 71 A 80255.28445966 .01277335 28560-4 47553-4 0 352  
2 11945 67.1375 141.0584 0121528 65.5627 295.8550 16.15887523 2526

1 11945U 80 71 A 80256.15027601 .01662991 28909-4 56831-4 0 364  
2 11945 67.1276 138.0984 0112914 64.6389 296.6250 16.18596264 2662

1 11945U 80 71 A 80256.15027601 .01620065 28742-4 55665-4 0 370  
2 11945 67.1342 138.0922 0112578 64.7992 296.4875 16.18580901 2665

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Kosmos 1208

font. 2

1	11945U	80 71	A	80257.08300381	.01053536	28037-4	56831-4 0	378
2	11945	67.1358	134.9329	0143907	83.7888	277.9674	16.06450717	2819

1	11945U	80 71	A	80257.28300381	.01053536	28037-4	56831-4 0	413
2	11945	67.1358	134.9329	0143907	83.7888	277.9674	16.06450717	2819

1	11945U	80 71	A	80257.14526107	.01136119	27718-4	50750-4 0	425
2	11945	67.1341	134.7263	0143777	83.5086	278.1451	16.06601537	2925

1	11945U	80 71	A	80259.26500028	.01131217	27986-4	56546-4 0	434
2	11945	67.1312	130.9414	0135816	82.3635	279.2785	16.09064832	3008

1	11945U	80 71	A	80259.25896707	.01010963	28443-4	47136-4 0	456
2	11945	67.1326	127.5713	0131088	81.1433	280.1769	16.10955304	3161

1	11945U	80 71	A	80260.25176618	.01099770	28760-4	47617-4 0	462
2	11945	67.1332	124.1987	0124859	80.0636	281.7422	16.13148487	3327

1	11945U	80071	A	80260.99532097	.01171836	00000-0	00000-0 0	00477
2	11945	067.1140	121.6493	0127444	079.9761	281.6065	16.14945051003454	

1	11945U	80 71	A	80262.97539232	.01068243	27870-4	53110-4 0	476
2	11945	67.1297	114.8883	0160994	83.3537	297.9120	16.04419492	3764

1	11945U	80 71	A	80262.97539232	.01068246	27879-4	53110-4	7	476
2	11945	67.1297	114.8883	0160994	63.8537	297.9120	16.04419492		3754

1	11945U	80071	A	80260.99531453	.01396577	00000-0	00000-0	0	00484
2	11945	067.1128	121.6499	0124373	079.5555	281.9906	16.15053124003450		

1	11945U	80071	A	80262.97538865	.01221382	00000-0	00000-0	0	00535
2	11945	067.1336	114.8895	0159973	064.3163	297.4739	16.04318416003762		

1	11945U	80 71	A	80263.90985923	.01029221	27888-4	48061-4	0	481
2	11945	67.1218	111.7370	0154712	62.8562	298.9307	16.06513317		3919

1	11945U	80 71	A	80264.22108330	.01165519	27617-4	52823-4	0	546
2	11945	67.1282	110.6874	0152883	62.4305	299.3498	16.07295499		3966

1	11945U	80 71	A	80265.15372167	.01310077	28262-4	55621-4	0	558
2	11945	67.1264	107.5319	0144565	61.7376	299.9319	16.09794992		4112

1	11945U	80 71	A	80265.34008396	.01330694	28376-4	55621-4	0	563
2	11945	67.1325	106.8982	0143077	61.4648	300.0861	16.10294636		4146

1	11945U	80 71	A	80266.20901123	.01413984	28171-4	55264-4	0	573
2	11945	67.1283	103.9466	0134728	60.7587	300.9949	16.12793327		4285

1	11945U	80 71	A	80266.64289806	.01503069	27845-4	56018-4	0	585
2	11945	67.1281	102.4708	0131057	60.4711	301.0538	16.14130061		4350

1	11945U	80 71	A	80266.64289806	.01503069	27845-4	56018-4	0	596
2	11945	67.1281	102.4708	0131057	60.4711	301.0538	16.14130061		4350

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Kosmos 1208 forts.3

1	11945U	80 71	A	80267.20018271	.01587859	28399-4	55013-4	0	604
2	11945	67.1283	100.5584	0124385	59.9459	301.4004	16.16108293		4448

1	11945U	80 71	A	80267.63318102	.01748080	28709-4	58011-4	0	610
2	11945	67.1250	99.0941	0120301	59.6995	301.6354	16.17581752		4510

1	11945U	80 71	A	80268.18923102	.01994863	28525-4	58673-4	0	625
2	11945	67.1311	97.1625	0113185	59.2881	302.0075	16.19892005		4601

80-72A

Kosmos 1209

Upp: 3 sept från Plesetsk

Ned: 17 sept.

TF

1	11950U	80 72	A	80247.48515320	.00000089	00000-0	00000 0 0	12
2	11950	82.3314	164.1815	0046389	100.3912	260.4709	16.12452189	19
1	11950U	80 72	A	80247.48511695	.00000095	00000-0	00000 0 0	21
2	11950	82.3382	164.1990	0046118	100.7941	259.9539	16.12410490	15
1	11950U	80 72	A	80247.73361227	.00083628	00000-0	75269-5 0	32
2	11950	82.3517	163.8810	0052605	99.9727	260.7552	16.11143745	57
1	11950U	80 72	A	80247.73361227	.00083628	00000-0	75269-5 0	43
2	11950	82.3517	163.8810	0052605	99.9727	260.7552	16.11143745	57
1	11950U	80 72	A	80248.41719929	.00003917	00000-0	75269-5 0	59
2	11950	82.3337	163.0743	0005002	162.3594	197.7858	16.00190104	169
1	11950U	80 72	A	80248.47962674	.00004694	00000-0	75269-5 0	66
2	11950	82.3564	162.9753	0010421	266.3730	93.6357	16.03231637	177
1	11950U	80 72	A	80248.54204333	.00081515	20276-5	13211-3 0	72
2	11950	82.3447	162.9374	0009474	312.3485	47.5654	16.03252352	188

1	11950U	80 72	A	80250.22714577	.00086229	24211-5	13742-3 0	86
2	11950	82.3437	160.9996	0009604	374.6591	55.3943	16.03536721	454

1	11950U	80 72	A	80252.22388792	.00082795	21787-5	12937-3 7	109
2	11950	82.3394	158.7014	0009619	292.9318	57.0851	16.03862234	778

1	11950U	80 72	A	80254.28258553	.00084126	22369-5	12857-3 0	121
2	11950	82.3395	156.3332	0009985	285.7411	74.9230	16.04214538	1104

1	11950U	80 72	A	80253.28449556	.00089385	26597-5	13809-3 0	110
2	11950	82.3392	157.4824	0009891	287.4870	72.5746	16.04054447	948

1	11950U	80 72	A	80255.28059583	.00084969	23852-5	12863-3 0	134
2	11950	82.3391	155.1851	0010191	279.9672	80.0489	16.04392892	1255

1	11950U	80 72	A	80256.40322086	.00085725	24280-5	12834-3 0	146
2	11950	82.3371	153.8937	0010065	271.9514	88.1465	16.04570930	1444

1	11950U	80 72	A	80257.27628107	.00093222	29721-5	13916-3 0	142
2	11950	82.3383	152.8896	0010026	269.3471	90.6907	16.04742025	1580

1	11950U	80 72	A	80258.27394589	.00100518	36449-5	14716-3 0	152
2	11950	82.3394	151.7399	0010044	264.7212	95.3576	16.04949936	1743

1	11950U	80 72	A	80259.33381074	.00095070	30889-5	13752-3 0	161
2	11950	82.3412	150.5186	0010040	259.2213	100.7256	16.05140972	1911

1	11950U	80 72	A	80260.26890655	.00089429	25708-5	12806-3 0	170
2	11950	82.3414	149.4400	0010250	253.9735	105.9800	16.05296358	2060

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Meteor 2-6

Upp: 9 september från Plesetsk

1	11962U	80 73	A	80253.52032942	.00000005	00000-0	00000 0 0	21
2	11962	81.2574		177.6557 0031206	251.7983	107.9348	14.06430944	11
1	11962U	80 73	A	80254.01808565	.00000824	00000-0	48489-3 0	35
2	11962	81.2459		177.2133 0031790	270.5020	89.2378	14.07089367	30
1	11962U	80 73	A	80254.30251706	.00019252	00000-0	11424-1 0	49
2	11962	81.2462		176.9385 0031911	269.5848	90.1709	14.07112964	124
1	11962U	80 73	A	80254.80027152	.00004255	00000-0	25272-2 0	66
2	11962	81.2471		176.4570 0031505	268.4050	91.3422	14.07101654	193

80-74A

GOES

Upp: 9 sept from Cape Canaveral

1	11965U	80 74	B	80258.98624863	.20871830	-18907-4	18793-3	0	89
2	11965	28.1350		121.5196	1514910	213.9661	135.4155	12.82741798	649
1	11965U			80254.93030192	.20904091	-18358-4	20750-3	0	45
2	11965	28.1129		140.7571	1543174	182.3153	175.9465	12.75761612	129
1	11964U			80253.72024895	-.20000078	00000-0	00000	0 0	26
2	11964	0.1513		300.0043	1592025	39.6571	14.6448	0.81524174	08
1	11964U	80 74	A	80255.64152394	-.00000081	00000-0	00000	0 0	40
2	11964	0.2559		152.4066	1602536	187.1933	14.6961	0.81820059	13
1	11964U	80 74	A	80256.86334235	-.00000075	00000-0	00000	0 0	55
2	11964	0.2616		152.3663	1601217	187.2011	14.7314	0.81935944	16
1	11964U	80 74	A	80258.17448724	-.20000057	00000-0	00000	0 0	62
2	11964	0.3310		346.4234	0656194	353.3790	17.7396	0.95726935	28
1	11964U	80 74	A	80259.22185865	-.20000053	00000-0	20000	0 0	79
2	11964	0.3336		346.6845	0639985	353.2853	17.6537	0.95972469	36
1	11964U	80 74	A	80261.31907131	-.00000107	00000-0	00000	0 0	92
2	11964	0.3053		348.4086	0208550	352.4241	18.4146	1.02681967	56



1	11964U	80 74	A	80253.25714371	-.20000109	00000-0	00000 0 0	103	
2	11964	0.3099		349.7949	0035062	346.6356	23.4274	1.00084000	70

1	11964U	80 74	A	80271.25407312	-.00000107	00000-0	00000 0 0	137	
2	11964	0.1901		347.6706	0003168	319.4268	52.8926	1.00270436	148

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Soyuz 38

Upp: 18 sept från Tyuratam. Ned: 26 sept

1	11977	80	75	A	80262.85331458	-.00000930	00000-0	00000 0 0	05
2	11977	51.6154	295.1585	0065941	47.5377	313.1185	16.09239393		09

80-76A

Kosmas 1210

Upp: 19 sept från plesetk. Ned: 3 okt

1	11980U	80 76	A	80263.41623119	.00000817	-55267-5	00000 0 0	19
2	11980	82.2891		177.5592 0048884	84.8901	275.7966	16.23260793	20

1	11980U	80076	A	80263.41621911	.00100000	00000-0	00000-0 0 00019	
2	11980	82.3347		177.4995 0043219	092.1253	268.5631	16.23298729000001	

1	11980U	80 76	A	80263.53952522	.00000804	-55154-5	00000 0 0	24
2	11980	82.2891		177.4123 0048884	84.3917	276.5051	16.23447056	25

1	11980U	80 76	A	80264.27916850	.00000798	-54265-5	00000 0 0	33
2	11980	82.3300		176.4867 0044771	92.3477	268.4409	16.23626602	143

1	11980U	80 76	A	80264.34136565	.00000807	-57009-5	00000 0 0	41
2	11980	82.3313		176.4155 0100298	66.8892	294.2923	16.09096709	152

1	11980U	80 76	A	80264.65350492	.00000073	00000-0	00000 0 0	51
2	11980	82.3296		176.0466 0071063	72.6645	288.2390	16.00110162	200

1	11980U	80 76	A	80265.34142304	.00109443	37034-5	16040-3 0	68
2	11980	82.3347		175.2693 0069721	70.4983	290.4439	16.00208097	314
1	11980U	80 76	A	80266.21583741	.00076574	13361-5	11123-3 0	73
2	11980	82.3347		174.2646 0069216	67.1649	293.5097	16.00316041	457
1	11980U	80 76	A	80267.21730237	.00077429	11121-5	11147-3 0	86
2	11980	82.3353		173.1190 0069625	63.4056	297.4426	16.00469725	510
1	11980U	80 76	A	80268.21763421	.00082544	16018-5	11816-3 0	97
2	11980	82.3354		171.9711 0069179	59.4045	301.4641	16.00642895	775
1	11980U	80 76	A	80269.21784512	.00083894	16043-5	11906-3 0	100
2	11980	82.3351		170.8253 0068740	55.5535	305.2277	16.00810191	937
1	11980U	80 76	A	80270.28046355	.00087364	18705-5	12326-3 0	116
2	11980	82.3311		169.5078 0068048	51.2036	309.5367	16.00991805	1123
1	11980U	80 76	A	80271.28046674	.00087352	18767-5	12313-3 0	129
2	11980	82.3313		168.4617 0067478	47.5622	313.1549	16.01164790	1262
1	11980U	80 76	A	80272.21796421	.00090566	20529-5	12604-3 0	131
2	11980	82.3321		167.3872 0067002	44.1549	316.5059	16.01334560	1410
1	11980U	80 76	A	80272.59421832	.00064647	49439-6	12604-3 0	149
2	11980	82.3432		166.9581 0094230	23.3533	337.1977	15.92286034	1475
1	11980U	80 76	A	80273.28548840	.00084203	16041-5	16370-3 0	152
2	11980	82.3419		166.1767 0093940	21.3425	339.1811	15.92394906	1582

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Kosmos 1210<sup>\*</sup> forts. 1

1	11980U	80 76	A	80275.23337952	.20070497	73596-5	13580-3 0	170
2	11980	82.3402	163.9710	0093065	13.9458	346.4123	15.92654489	1994

1	11980U	80 76	A	80276.30144204	.00068814	72779-6	13196-3 0	181
2	11980	82.3395	162.7606	0092583	9.7720	350.5120	15.92797283	2068

80-77 A

Kosmos 1211

Upp: 23 sept från plerash. Ned: 4 okt

1	11982U	80 77	A	80267.49193058	.00000091	20000-0	00000 0 0	19
2	11982	82.3383		196.4319 0013053	84.0919	276.7640	15.19102329	10
1	11982U	80 77	A	80267.43001907	.00000090	00000-0	00000 0 0	23
2	11982	82.3518		186.5138 0018707	89.6194	270.7237	16.17172017	03
1	11982U	80 77	A	80267.55377837	.00000089	20000-0	00000 0 0	33
2	11982	82.3478		186.3433 0019155	88.1862	272.1613	16.17167679	27
1	11982U	80 77	A	80267.67753265	.00000088	00000-0	00000 0 0	49
2	11982	82.3498		196.1959 0019767	89.4361	271.9189	16.17212436	40
1	11982U	80 77	A	80268.17255187	.00264391	00000-0	19066-4 0	52
2	11982	82.3470		185.6172 0019396	88.8837	271.7636	16.17511941	128
1	11982U	80 77	A	80269.22404217	.00259997	00000-0	18220-4 0	67
2	11982	82.3485		184.3822 0019082	84.5335	275.7864	16.18055871	292
1	11982U	80 77	A	80269.34773463	.00261304	00000-0	18245-4 0	75
2	11982	82.3471		184.2376 0019079	83.1900	277.1699	16.18124560	314
1	11982U	80 77	A	80270.27523376	.00279928	00000-0	18932-4 0	89
2	11982	82.3465		183.1509 0018753	78.0463	282.4126	16.18660705	465

1	11982U	80	77	A	80271.26426047	.00291252	00000-0	19155-4	0	90
2	11982	82.3472	181.9909	0018580	77.9173	282.8698	16.19246293			528

1	11982U	80	77	A	80272.19102643	.00304498	00000-0	19414-4	0	103
2	11982	82.3486	180.9030	0018276	75.1437	285.2921	16.19824668			779

1	11982U	80	77	A	80273.30277670	.00324822	00000-0	19902-4	0	116
2	11982	82.3487	179.5945	0017914	72.2891	288.1865	16.20561748			957

1	11982U	80	77	A	80274.29054917	.00352591	00000-0	20779-4	0	120
2	11982	82.3476	178.4304	0017150	68.5757	291.9389	16.21284135			1119

1	11982U	80	77	A	80275.27785664	.00370125	00000-0	20952-4	0	138
2	11982	82.3466	177.2661	0016192	64.9764	295.4649	16.22033723			1276

1	11982U	80	77	A	80276.26470792	.00375990	-56261-5	20455-4	0	141
2	11982	82.3481	176.1022	0015222	61.3406	298.9852	16.22779909			1432

1	11982U	80	77	A	80278.17542210	.00402333	-54958-5	20006-4	0	164
2	11982	82.3512	173.8387	0014115	56.8210	303.5747	16.24334794			1748

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Kosmos 1212

Upp: 26 sept från Plesetsk

1	11985U	80 78	A	80270.47800095	.00000094	00000-0	00000 0 0	13
2	11985	82.3437	184.3379	0029527	111.3527	249.0915	16.16925629	12

1	11985U	80 78	A	80270.91120966	.00000099	00000-0	00000 0 0	31
2	11985	82.3460	183.8295	0030412	109.4173	251.0405	16.16974562	32

1	11985U	80 78	A	80270.91120965	.00000095	00000-0	00000 0 0	47
2	11985	82.3464	183.8303	0030542	109.4265	251.0326	16.16975720	81

1	11985U	80 78	A	80271.83932164	.00211703	00000-0	14914-4 0	67
2	11985	82.3423	182.7402	0029589	107.3598	253.0108	16.17465670	235

1	11985U	80 78	A	80272.14851588	.00227577	00000-0	14914-4 0	79
2	11985	82.3435	182.3797	0025125	97.2652	263.1493	16.19028535	282

1	11985U	80 78	A	80272.21032348	.00235255	00000-0	15460-4 0	92
2	11985	82.3454	182.3045	0023418	104.3211	256.1196	16.19059891	295

1	11985U	80 78	A	80273.38447594	.00258872	-53959-5	15317-4 0	94
2	11985	82.3409	180.9259	0026422	90.3084	270.1232	16.19621803	482



1	11985U	80 78	A	80274.24935323	.00263680	-61216-5	16191-4	0	132
2	11985	82.3418	179.9108	0026588	88.2314	272.2229	16.20080383		627
1	11985U	80 78	A	80275.29922646	.00277335	-54562-5	16501-4	0	116
2	11985	82.3419	178.6745	0026140	84.1932	276.3559	16.22676671		796
1	11985U	80 78	A	80276.22523805	.00276392	-54749-5	15993-4	0	128
2	11985	82.3415	177.5828	0025825	81.2561	279.1625	16.21187439		949
1	11985U	80 78	A	80278.19977510	.00296367	-58039-5	16126-4	0	146
2	11985	82.3392	175.2516	0024301	73.5306	286.9712	16.22349155		1266
1	11985U	80 78	A	80279.30980171	.00316122	-59466-5	16473-4	0	157
2	11985	82.3402	173.9377	0024716	58.1437	292.4894	16.23083293		1445
1	11985U	80 78	A	80280.23428290	.00358915	-57453-5	16726-4	0	164
2	11985	82.3415	172.8463	0022677	68.2067	291.5009	16.23845301		1593
1	11985U	80 78	A	80281.28167399	.00378038	-55275-5	18109-4	0	175
2	11985	82.3432	171.6042	0021809	64.8228	295.8232	16.24679714		1761
1	11985U	80 78	A	80282.20530233	.00386032	-52909-5	17763-4	0	188
2	11985	82.3436	170.5078	0020992	60.0499	300.2209	16.25399878		1915

80-79A

Progress 11

Lup: 28 sept från Tyuratam

1	11993U	80 79	A	80272.80881449	-.00008321	57555-4	00000 0 0	17
2	11993	51.6299	243.3797	0040145	85.0553	274.8325	16.22038194	27
1	11993U	80 79	A	80272.80904965	-.20008290	57194-4	00000 0 0	20
2	11993	51.6159	243.8858	0043950	72.9361	287.6467	16.20591602	23
1	11993U	80 79	A	80272.86997871	-.00000534	00000-0	00000 0 0	39
2	11993	51.6188	243.5294	0060263	197.0196	162.8792	15.91016404	32
1	11993U	80 79	A	80272.99563909	-.00000516	00000-0	00000 0 0	45
2	11993	51.6192	242.8673	0057681	194.2223	165.7163	15.89946111	50
1	11993U	80 79	A	80273.37274911	-.00000514	00000-0	00000 0 0	59
2	11993	51.6229	240.8897	0057142	197.1469	152.3224	15.89997990	117
1	11993U	80 79	A	80273.81273983	-.00000500	00000-0	00000 0 0	62
2	11993	51.6205	238.5858	0055336	198.9462	160.9487	15.89069646	182
1	11993U	80 79	A	80274.19005827	.00112859	97898-5	34515-3 0	73
2	11993	51.6194	236.5942	0052727	202.9197	157.0049	15.89166041	248
1	11993U	80 79	A	80275.19973750	.00087364	00000-0	49730-3 0	55
2	11993	51.6260	231.3716	0004598	281.8254	78.2232	15.78208583	409

1	11993U	80 79	A	80275.45302154	.70087388	00000-0	49730-3 0	95
2	11993	51.6197	230.0709	0004532	238.4903	121.5661	15.78215199	446

1	11993U	80 79	A	80275.45302154	.00087388	00000-0	49730-3 0	107
2	11993	51.6197	230.0709	0004532	238.4903	121.5661	15.78215199	446

1	11993U	80 79	A	80275.45302154	.70087387	00000-0	49730-3 0	117
2	11993	51.6197	230.0709	0004532	238.4885	121.5678	15.78215199	443

1	11993U	80 79	A	80275.45302196	.00087293	00000-0	49730-3 0	120
2	11993	51.6221	230.0713	0002772	239.6005	120.4361	15.79199202	440

1	11993U	80 79	A	80275.45302192	.00087387	00000-0	49730-3 0	131
2	11993	51.6226	230.0715	0004495	238.6677	121.3889	15.78214744	449

1	11993U	80 79	A	80285.19666129	.70228196	00000-0	10778-2 0	141
2	11993	51.6216	179.6166	0008761	273.4259	86.5257	15.81797593	1982

1	11993U	80 79	A	80285.19666129	.00228196	00000-0	10778-2 0	152
2	11993	51.6216	179.6166	0008761	273.4259	86.5257	15.81797593	1993

1	11993U	80 79	A	80295.23441681	.00124105	00000-0	50184-3 0	175
2	11993	51.6669	127.3176	0040973	319.7731	40.0243	15.84099716	3588

1	11993U	80 79	A	80306.57998953	.00163390	00000-0	60737-3 0	202
2	11993	51.6235	68.1066	0011364	355.5887	4.5016	15.86952055	5389

1	11993U	80 79	A	80312.99290409	.00205735	00000-0	62783-3 0	232
2	11993	51.6320	34.4086	0008648	34.6102	325.5466	15.90817478	6400

80-79A

Progress 11

Fonts. 1

1	11993U	80	79	A	80317.57629035	.00193240	00000-0	54209-3	0	256
2	11993	51.6253	10.2378	0008072	28.3799	331.7547	15.92484796	7130		

1	11993U	80	79	A	80325.29466142	.00158382	00000-0	49246-3	0	276
2	11993	51.6226	329.4943	0012082	235.2465	124.9415	15.90517527	6367		

1	11993U	80	79	A	80333.26750020	.00214054	00000-0	57545-3	0	318
2	11993	51.6184	287.4477	0009973	267.2080	92.7786	15.93216899192262			

1	11993U	80	79	A	80341.22364568	.00274527	00000-0	59398-3	0	321
2	11993	51.6164	245.2744	0008151	288.1093	71.9362	15.97135960	11109		

1	11993U	80	79	A	80345.11610892	.00331598	00000-0	12907-2	0	334
2	11993	51.6167	224.7507	0056902	103.9510	256.8832	15.83156906134155			

1	11993U	80	79	A	80345.17922982	.00187019	00000-0	74983-3	0	347
2	11993	51.6195	224.4237	0054354	100.2770	260.3410	15.83097937194162			

1	11993U	80	79	A	80346.63097780	.00129834	00000-0	51327-3	0	367
2	11993	51.6183	216.8628	0053851	104.6039	256.0722	15.83422548184398			

1	11993U	80	79	A	80345.93671946	.00165925	00000-0	66266-3	0	350
2	11993	51.6140	220.4777	0054017	102.3750	258.3306	15.83257214184284			

80-80A

Kosmos 1213

Upp: 30kt från Plesetsk

1	11997U	80 80	A	80277.55390039	-.00001730	11919-4	00000 0 0	11
2	11997	72.8740		197.0400 0091489	91.6483	269.0263	16.06959439	12
1	11997U	80 80	A	80277.61624650	-.00001706	11772-4	00000 0 0	28
2	11997	72.8741		196.8808 0091489	91.4948	269.6770	16.06850658	28
1	11997U	80 80	A	80278.05205355	-.00000155	00000-0	00000 0 0	30
2	11997	72.8700		195.7651 0063943	83.6729	277.1987	16.01081678	94
1	11997U	80 80	A	80278.17702013	.00564587	15041-3	73456-3 0	43
2	11997	72.8822		195.4377 0057860	79.3258	282.3623	16.03414782	119
1	11997U	80 80	A	80278.48831373	.00621530	19300-3	73456-3 0	54
2	11997	72.8703		194.6540 0045153	72.5581	289.0583	16.06217719	152
1	11997U	80 80	A	80278.92422914	.00082316	00000-0	94594-4 0	65
2	11997	72.8673		193.5421 0047523	71.5698	288.4800	16.06178610	235
1	11997U	80 80	A	80278.92422914	.00082316	00000-0	94594-4 0	65
2	11997	72.8673		193.5421 0047523	71.5698	288.4800	16.06178610	235

1	11997U	80 80	A	80279.23575600	.00083139	00000-0	94594-4 0	76
2	11997	72.8669	192.7432	0048371	70.5957	290.0733	16.06242617	280

1	11997U	80 80	A	80278.92422914	.00132050	10245-4	15417-3 0	80
2	11997	72.8643	193.5384	0047311	69.6431	290.4099	16.05216841	230

1	11997U	80 80	A	80281.29063514	.00121705	89095-5	13788-3 0	91
2	11997	72.8631	187.4953	0045830	63.8123	296.7910	16.06817214	513

1	11997U	80 80	A	80282.22453474	.00125343	96071-5	13987-3 0	105
2	11997	72.8619	185.1091	0045796	61.5327	299.0446	16.07050543	760

1	11997U	80 80	A	80284.21630235	.00132936	10482-4	14429-3 0	128
2	11997	72.8608	180.0121	0044715	56.0980	304.5012	16.07563248	1087

1	11997U	80 80	A	80285.21192836	.00141497	11750-4	15102-3 0	131
2	11997	72.8521	177.4621	0044312	53.8510	306.7153	16.07848023	1240

1	11997U	80 80	A	80286.08306665	.00124017	87534-5	16285-3 0	141
2	11997	72.8604	175.2482	0049997	71.5716	289.0943	16.04149449	1389

1	11997U	80 80	A	80286.33252050	.00285273	38130-4	37548-3 0	152
2	11997	72.8581	174.6012	0048601	70.5033	290.1427	16.04210245	1425

1	11997U	80 80	A	80286.70669837	.00285890	38307-4	37548-3 0	150
2	11997	72.8765	173.6481	0048347	69.5628	291.0787	16.04268749	1480

1	11997U	80 80	A	80287.26918755	-.00065399	00000-0	-11526-3 0	185
2	11997	72.3682	172.2148	0077388	51.4668	309.3495	15.96308560	1579

80-80A

Kosmos 1213

forts. 1

1	11997U	80	80	A	80289.21169623	.00085225	47979-5	14925-3	0	202
2	11997	72.8668	167.3302	0075441	47.6065	312.9652	15.96677903			1385

1	11997U	80	80	A	80290.27682236	.00088950	51228-5	15414-3	0	237
2	11997	72.8673	164.6471	0075227	44.7096	316.0453	15.96871999			2057

1	11997U	80	80	A	80291.21649236	.00091367	53222-5	15801-3	0	243
2	11997	72.8665	162.2782	0074745	42.3270	318.3744	15.97049110			2207

80-81A

Stationsar-Raduga 7

Upp: Solt från Tyuratam

1	12003U	80	81	A	80279.70899755	-.00000048	07070-0	99999-4	0	15
2	12003	0.4012	218.2456	0005000	27.9241	113.7892	0.99723184			27

1	12004U	80	81	B	80279.76887252	-.20020273	00000-0	00000 0 0		23
2	12004	52.3952	291.5554	1665940	351.2524	6.3751	12.37005568			13

1	12004U	80	81	B	80280.07470025	-.20076562	59196-4	00700 0 0		47
2	12004	51.6806	279.6144	0010316	223.4005	136.6211	16.34567833			67

1	12004U	80	81	B	80280.38038314	.04315284	59647-4	90718-4	0	51
2	12004	51.5372	277.8187	0011686	267.9989	93.3011	16.37151067			111

1	12005U	80	81	C	80280.01334927	-.20009638	59745-4	00700 0 0		59
2	12005	51.6312	279.8592	0050117	143.6160	216.8292	16.39389648			57

1	12012U	80081		D	80284.17415009	-.00000028	00000-0	00000 0 0		27
2	12012	47.3927	280.0549	7288485	1.0913	359.8519	2.26982909			101

1	12013U	80081		E	80294.18087689	.00001627	00000-0	12930-2	0	20
2	12013	47.4480	280.0979	7269464	1.0707	359.3535	2.26625232			103



80-82A

Kosmos 1214

1	12008U	80 82	A	80297.28736860	.00512774	28033-4	24903-4 0	275
2	12008	67.0705		150.4133 0121817	52.3048	308.6518	16.12051797	2066
1	12008U	80 82	A	80284.60168166	-.00004023	27870-4	00000 0 0	16
2	12008	67.1483		203.2535 0133280	66.7908	294.7253	16.05082610	06
1	12008U	80 82	A	80284.85085491	-.00004004	27646-4	00000 0 0	34
2	12008	67.1531		202.4114 0130937	67.1218	294.3733	16.05777554	41
1	12008U	80 82	A	80285.22449907	.00442312	27966-4	29022-4 0	45
2	12008	67.1556		201.1550 0128656	66.8995	294.5298	16.06215698	102
1	12008U	80 82	A	80285.66033855	.00387170	28114-4	25203-4 0	58
2	12008	67.1551		199.6866 0127709	66.4849	294.8805	16.06528998	174
1	12008U	80 82	A	80286.28283197	.00393878	27859-4	25129-4 0	57
2	12008	67.1550		197.5889 0126638	65.7530	295.7073	16.07031392	277
1	12008U	80 82	A	80287.27838657	.00359849	27925-4	22315-4 0	73
2	12008	67.1542		194.2288 0124946	64.6361	296.8071	16.07746009	432

1	12008U	80	82	A	80289.20602227	.00381018	28121-4	22663-4	0	91
2	12008	67.1525	187.7222	0120315	62.7707	298.4921	16.09230737			743
1	12008U	80	82	A	80289.20602227	.00381018	28121-4	22663-4	0	103
2	12008	67.1525	187.7222	0120315	62.7707	298.4921	16.09230737			754
1	12008U	80	82	A	80290.07595903	.00408876	27506-4	23703-4	0	118
2	12008	67.1537	184.7699	0118020	61.7468	299.5578	16.17011092			892
1	12008U	80	82	A	80290.26231797	.00457455	28142-4	26344-4	0	125
2	12008	67.1497	184.1397	0117483	61.4896	299.8178	16.10190784			920
1	12008U	80	82	A	80290.26231797	.00457455	28142-4	26344-4	0	136
2	12008	67.1497	184.1397	0117483	61.4896	299.8178	16.10190784			920
1	12008U	80	82	A	80291.25588312	.00422261	27767-4	23530-4	0	148
2	12008	67.1480	180.7737	0115757	60.2753	300.7333	16.11007660			1087
1	12008U	80	82	A	80291.25592738	.00422274	28116-4	23543-4	0	153
2	12008	67.1479	180.7737	0115713	60.2403	301.0248	16.11007965			1086
1	12008U	80	82	A	80291.25592738	.00422274	28116-4	23543-4	0	164
2	12008	67.1479	180.7737	0115713	60.2403	301.0248	16.11007965			1097
1	12008U	80	82	A	80292.24901251	.00421405	27950-4	22740-4	0	177
2	12008	67.1457	177.4046	0113730	59.3189	301.8839	16.11848480			1252
1	12008U	80	82	A	80294.17291640	.00310338	27674-4	19793-4	0	214
2	12008	67.1596	170.8651	0158832	54.6643	306.9212	16.01266499			1568
1	12008U	80	82	A	80295.04717937	.00330326	27366-4	20523-4	0	220
2	12008	67.1515	167.9486	0156694	53.8437	307.7131	16.01979479			1703

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Kosmos 1214

forts. 1.

1	12008U	80	82	A	80295.23447386	.00400910	27004-4	24903-4	0	231
2	12008	67.1545	167.3208	0156077	53.5582	307.9931	16.02139190			1738

1	12008U	80	82	A	80296.10825953	.00407722	27971-4	24903-4	0	240
2	12008	67.1545	164.3930	0153597	52.7940	308.7250	16.02962658			1878

1	12008U	80	82	A	80296.41862669	.00466726	28132-4	24903-4	0	259
2	12008	67.1483	163.3789	0116372	47.2599	313.2316	16.11567315			1928

1	12008U	80	82	A	80296.41862669	.00478627	28234-4	24903-4	0	266
2	12008	67.1458	163.3437	0119628	50.5359	310.6298	16.11397422			1922

80-83

Kosmos 1215

1	12015U	1980-083	80289.18261200	.00000035	00000-0	31999-5 0	26
2	12016	74.0425	341.4235	0038617	339.9256	20.0451 15.14454186	54
1	12016U	1980-083	80289.57895945	.00034613	00000-0	18392-2 0	37
2	12016	74.0446	340.6024	0038426	338.7481	21.2224 15.14490907	118
1	12017U	1980-083	80289.77625971	-.00000026	00000-0	00000 0 0	36
2	12017	74.0619	340.2046	0045768	346.5903	13.4361 15.15958500	141
1	12017U	1980-083	80290.23829587	.00006699	00000-0	34413-3 0	50
2	12017	74.0582	339.2325	0048683	336.5854	23.3124 15.15637239	219
1	12016U	1980-083	80290.23952566	.00013804	00000-0	73727-3 0	50
2	12016	74.0427	339.2258	0038173	337.5844	22.3370 15.14495987	217
1	12016U	1980-083	80290.23953135	.00013793	00000-0	73667-3 0	64
2	12015	74.0427	339.2259	0038174	337.5721	22.3803 15.14496011	213

80-84A

Kosmos 1216

1	12019U	80 84	A	80290.50566253	-.00001583	11613-4	00000 0 0	01
2	12019	72.8744	215.0215	0133334	78.3927	293.2198	15.97646581	01

1	12019U	80 84	A	80290.56826549	-.00001701	11938-4	00000 0 0	27
2	12019	72.8564	214.8513	0145887	90.4003	271.3944	15.94345957	13

1	12019U	80 84	A	80290.75644242	-.00001671	11685-4	00000 0 0	32
2	12019	72.8774	214.4019	0135142	83.4528	278.2065	15.95465252	45

1	12019U	80 84	A	80290.94455841	.00001438	11292-4	15287-4 0	45
2	12019	72.8690	213.9197	0134637	82.7528	278.9388	15.95522142	73

1	12019U	80 84	A	80291.13434818	.00001253	00000-0	15287-4 0	52
2	12019	72.8691	213.5006	0027395	218.3873	141.5390	15.61256997	108

1	12019U	80 84	A	80291.13434818	.00001253	00000-0	15287-4 0	53
2	12019	72.8691	213.5006	0027395	218.3873	141.5390	15.61256997	108

1 12019U 80 84 A 80291.90338943 -.00009324 00000-0 -10486-3 0 74  
2 12019 72.8734 211.6295 0044589 210.5924 149.6672 15.61038630 227

1 12019U 80 84 A 80292.09557784 .00008558 00000-0 97133-4 0 93  
2 12019 72.8744 211.1710 0044726 209.9722 149.9118 15.61054839 256

1 12019U 80 84 A 80292.22374582 .00013551 00000-0 15413-3 0 91  
2 12019 72.8742 210.9650 0044714 209.6678 150.2039 15.61062644 279

1 12019U 80 84 A 80294.27446026 .00004056 00000-0 46435-4 0 113  
2 12019 72.8728 205.9676 0044390 204.6043 155.2863 15.61086510 392

1 12019U 80 84 A 80297.28638596 .00006891 00000-0 78197-4 0 155  
2 12019 72.8732 198.7744 0044376 197.7177 162.2731 15.61132663 1060

1 12019U 80 84 A 80298.24761559 .00010851 00000-0 12345-3 0 162  
2 12019 72.8734 196.4773 0044066 195.1667 154.8397 15.61156769 1217

1 12019U 80 84 A 80299.20882928 .00009302 00000-0 10599-3 0 172  
2 12019 72.8738 194.1826 0043933 193.2777 166.7192 15.61173095 1369

1 12019U 80 84 A 80300.17003851 .00007488 00000-0 94780-4 0 189  
2 12019 72.8735 191.8853 0044096 191.0257 168.9793 15.61184111 1519

1 12019U 80 84 A 80303.24589333 -.00000719 00000-0 -74043-5 0 223  
2 12019 72.8748 184.5342 0043405 184.1169 176.1232 15.61212625 1996

1 12019U 80 84 A 80304.07888927 -.00000062 00000-0 00000 0 0 222  
2 12019 72.8735 182.5447 0042368 182.1811 177.9135 15.61223408 2123

80-85 A

Kosmos 1217

1	12032U	80085 A	80298.52432704	-.00000479	00000-7	20700 0 0	26
2	12032		62.9135 146.2237 7392471	318.7704	4.6900	1.98529422	78

1	12032U		80301.52646357	-.00000143	00000-0	00000 0 0	87
2	12032		62.9228 145.7881 7390654	318.0752	4.6554	1.98524154	62

1	12032U		80302.53389989	-.00000018	00000-0	00000 0 0	74
2	12032		62.9343 145.6485 7389927	318.0774	4.6493	1.98520634	87

1	12032U	80085 A	80305.54108961	-.00001146	00000-0	00000 0 0	127
2	12032		62.9460 145.1990 7370127	318.1010	4.6978	2.00533627	144

1	12032U	80085 A	80306.53843598	-.00001139	00000-0	00000 0 0	132
2	12032		62.9369 145.7534 7369463	318.0947	4.7031	2.00530962	166

1	12035U		80301.51208644	-.00000909	00000-0	99999-4 0	15
2	12035		62.8315 145.8846 7377605	317.9799	4.7084	1.99479996	77

1	12034H		80298.50578226	-.00005123	35376-4	00000 0 0	15
2	12034	62.8566	146.4553 0297197	121.7705	241.2744	15.56092963	26

1	12033U		80298.50569750	-.00002557	00000-0	00000 0 0	14
2	12033	62.8282	146.4311 0273900	122.1149	240.6880	15.57940745	05

1	12033U		80298.50569750	-.00000557	00000-0	00000 0 0	23
2	12033	62.8282	146.4311 0273900	122.1149	240.6880	15.57940745	05

1	12032U	80085	A 80309.02990391	-.00001237	00000-0	00000 0 0	165
2	12032	62.9337	144.6915 7366701	318.0948	4.7689	2.00727223	215

1	12032U	80085	A 80315.00822934	-.00001249	00000-0	00000 0 0	249
2	12032	62.9537	143.7982 7362871	318.1242	4.6862	2.00711507	336

1	12032U	80085	A 80325.47164738	-.00001260	00000-0	00000 0 0	290
2	12032	62.9441	142.2413 7356035	318.1626	4.6650	2.00683174	551



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Kosmos 1218

 $T_n (m.) = 89.7 \text{ min}$ 

1	12042U	80 86	B	80306.76619771	.06159544	35563-4	18925-3	0	71
2	12042	64.8861		216.0709 0082010	65.6652	295.3019	16.25069264		389

1	12039U	80 86	A	80305.96824039	.00814686	34626-4	49092-4	0	58
2	12039	64.8865		219.0669 0131000	65.3136	296.2418	16.07052664		252

1	12039U	80 86	A	80305.27932656	.00848323	34188-4	49529-4	0	62
2	12039	64.8846		217.9194 0130439	65.0977	296.4974	16.07640163		308

1	12039U	80 86	A	80307.39827280	.00939349	34867-4	52218-4	0	94
2	12039	64.8792		213.7822 0122782	65.4125	296.0305	16.09786076		486

1	12039U	80 86	A	80306.77682998	.00905797	34683-4	52218-4	0	74
2	12039	64.8785		216.0741 0126354	65.6310	296.0067	16.08605910		385

1	12039U	80	86	A	80304.47356270	-.00004924	33984-4	00000 0 0	10
2	12039	64.8852	224.5660	0137227	65.5501	295.9400	16.04669985		13

1	12039U	80	86	A	80304.66052675	-.00004937	34074-4	00000 0 0	29
2	12039	64.8894	223.8803	0137202	65.3865	296.1525	16.04793007		41

1	12039U	80	86	A	80305.15890006	.00673839	34439-4	42982-4 0	30
2	12039	64.8842	222.0443	0133695	65.8504	295.6578	16.05701659		126

1	12039U	80	86	A	80308.20549541	.00923928	34367-4	48251-4 0	92
2	12039	64.8839	210.7931	0119416	64.9508	296.2729	16.11267919		619

1	12039U	80	86	A	80308.82592866	.00995117	35057-4	50093-4 0	103
2	12039	64.8834	208.4849	0115181	64.8392	296.4674	16.12546318		717

1	12039U	80	86	A	80309.25986951	.01650550	34724-4	78749-4 0	112
2	12039	64.8859	206.8771	0111491	64.5901	296.6762	16.13951333		783

1	12042U	80	86	B	80304.47353499	-.00004948	34112-4	00000 0 0	14
2	12042	64.9014	224.5980	0126147	63.3464	298.0561	16.06537867		13

1	12042U	80	86	B	80304.66028303	-.00004919	33931-4	00000 0 0	25
2	12042	64.8912	223.9073	0127780	64.5039	296.9283	16.06581968		42

1	12042U	80	86	B	80305.15774659	.00743167	34376-4	42982-4 0	42
2	12042	64.8971	222.0823	0119695	65.7428	295.6521	16.09656091		124

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1	12039U	80 86	A	80308.20549541	.00923928	34367-4	48251-4	0	92
2	12039	64.8839		210.7931 0119416	64.9508	296.2729	16.11267919		619

1	12039U	80 86	A	80309.94101797	.01779378	34926-4	78749-4	0	120
2	12039	64.8859		204.3380 0106041	64.2379	296.9198	16.15986399		893

1	12039U	80 86	A	80310.25033957	.01249338	35196-4	53586-4	0	139
2	12039	64.8863		203.1810 0104857	64.0076	296.8892	16.16667209		946

1	12039U	80 86	A	80311.11625495	.00831675	34652-4	53586-4	0	146
2	12039	64.8618		199.9489 0135005	84.2759	277.3784	16.05289132		1082

1	12039U	80 86	A	80311.17855110	.01350858	33736-4	84343-4	0	159
2	12039	64.8734		199.7222 0137221	83.1026	278.4966	16.05355480		1096

1	12039U	80 86	A	80312.05021499	.00842797	34609-4	50291-4	0	176
2	12039	64.8810		196.5034 0133271	83.1910	277.8454	16.06801745		1232

1	12039U	80 86	A	80313.23209365	.00940597	34399-4	52043-4	0	199
2	12039	64.8811		192.1378 0127695	82.6684	278.9146	16.09944632		1427

1	12039U	80 86	A	80314.03974323	.00995189	34079-4	51756-4	0	275
2	12039	64.8778		189.1519 0124258	82.1852	279.2950	16.10488638		1559

1	12039U	80	86	A	80314.28809738	.00926961	34728-4	47541-4	0	210
2	12039	64.8792	188.2289	0123053	87.1089	279.3382	16.10916750			1598

1	12039U	80	86	A	80315.15671449	.01079552	34616-4	51885-4	0	233
2	12039	64.8810	185.0073	0117683	81.5222	279.9268	16.12814506			1732

1	12039U	80	86	A	80315.28071905	.01049246	34387-4	49817-4	0	243
2	12039	64.8789	184.5408	0117375	81.7874	279.5439	16.13052576			1757

1	12039U	80	86	A	80315.65258629	.00936494	34712-4	43197-4	0	251
2	12039	64.8885	183.1645	0114854	81.8138	279.5044	16.13925739			1814

1	12039U	80	86	A	80315.96232988	.00650311	33687-4	43197-4	0	267
2	12039	64.8785	182.0077	0137971	64.8995	295.5415	16.04303581			1869

1	12039U	80	86	A	80316.27402720	.00752230	34282-4	49100-4	0	271
2	12039	64.8736	180.8631	0136610	64.6594	297.2381	16.04808841			1913

1	12039U	80	86	A	80317.33281963	.00794307	34085-4	49878-4	0	311
2	12039	64.8791	176.9606	0130466	64.9926	296.6408	16.06497192			2083

1	12039U	80	86	A	80318.26609698	.00811969	34802-4	48242-4	0	320
2	12039	64.8779	173.5199	0125565	64.6727	296.7270	16.08047609			2231

1	12039U	80	86	A	80319.19852951	.00836917	34375-4	47061-4	0	340
2	12039	64.8791	173.0739	0122084	64.8583	296.8511	16.09676924			2382

1	12039U	80	86	A	80319.94359694	.01073437	35019-4	57071-4	0	359
2	12039	64.8740	167.3100	0117682	64.4724	296.8561	16.11277758			2505

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1	12039U	80 86	A	80320.37793675	.01023100	34845-4	52992-4	0	364
2	12039	64.8773		165.6993 0115001	63.8346	297.4256	16.12166112		2575

1	12039U	80 86	A	80321.24588998	.01196519	34425-4	57310-4	0	371
2	12039	64.8757		152.4667 0109522	63.8359	297.6945	16.14238079		2712

1	12039U	80 86	A	80322.05175199	.01022251	34503-4	57310-4	0	383
2	12039	64.8768		159.4721 0135447	72.6949	288.9987	16.07259704		2347

1	12039U	80 86	A	80322.23941855	.01018381	34186-4	57317-4	0	391
2	12039	64.8750		158.7817 0134656	72.5931	288.9879	16.07444656		2973

1	12039U	80 86	A	80323.29541227	.01098718	34737-4	57310-4	0	415
2	12039	64.8769		154.8730 0129517	71.8107	289.6387	16.09512166		3041

1	12039U	80 86	A	80324.22691408	.00993575	34629-4	48631-4	0	427
2	12039	64.8726		151.4147 0124166	71.1970	290.2623	16.11420846		3198

1	12039U	80 86	A	80325.21916857	.01119137	34687-4	50503-4	0	436
2	12039	64.8717		147.7349 0117338	71.3988	290.2994	16.13811501		3354

1	12039U	80 86	A	80325.65279217	.01176883	35115-4	50903-4	0	449
2	12039	64.8745		146.1207 0114870	71.1970	290.1624	16.14859217		3425



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1	12039U	80	86	A	80331.23788589	.01412270	34956-4	72276-4	0	562
2	12039	64.8577	125.3883	0115868	141.7509	219.1957	16.12153745			4328

1	12039U	80	86	A	80331.23788589	.01412270	34956-4	72276-4	0	573
2	12039	64.8577	125.3883	0115868	141.7509	219.1957	16.12153745			4328

1	12039U	80	86	A	80333.28189926	.01374007	35026-4	58612-4	0	606
2	12039	64.8663	117.7643	0101224	140.4428	220.5798	16.17335902			4657

1	12039U	80	86	A	80333.77678263	.01092576	33979-4	57474-4	0	618
2	12039	64.8683	115.9124	0148240	135.1146	226.2602	16.05834099			4734

1	12039U	80	86	A	80333.90140144	.00992596	34418-4	53754-4	0	620
2	12039	64.8607	115.4548	0131454	134.4169	226.9516	16.04943986			4751

1	12039U	80	86	A	80334.27518473	.01175611	33966-4	61320-4	0	633
2	12039	64.8655	114.0778	0149586	134.8312	226.6401	16.05838421			4816

1	1 039U	80	86	A	80336.3 708931	.01343975	34839-4	60 14-4	0	654
2	12039	64.8623	106.4935	0133020	133.2803	229.3367	16.11118790			5149

1	1 039U	80	86	A	80337.319 3606	.01496348	34819-4	60794-4	0	678
2	1 039	64.8611	10 .8030	0123979	132.4799	2 8.6814	16.14151915			5306

1 12039U 80 86 A 80338.68041117 .01569857 34818-4 00000-0 0 00707  
2 12039 64.8632 97.7060 0108989 130.5056 230.5629 16.19618785 5520

1 12039U 80 86 A 80339.30152447 .01676296 34818-4 00000-0 0 00723  
2 12039 64.8597 95.4101 0137979 155.5030 205.2731 16.05341125 5622

1 12039U 80 86 A 80341.10610819 .00652401 34259-4 37423-4 0 584  
2 12039 64.8577 88.7507 0123391 154.1853 206.5549 16.09167541 5911

1 12039U 80 86 A 80341.35467692 .00891931 34628-4 50099-4 0 700  
2 12039 64.8615 87.8328 0122233 154.3915 206.4398 16.09663007 5953

1 12039U 80086 A 80338.99000038 .00880932 00000-0 00000-0 0 00731  
2 12039 064.8592 096.5718 0135127 152.8111 208.0125 16.04770862005571

1 12039U 80086 A 80340.35993713 .00950079 00000-0 00000-0 0 00746  
2 12039 64.8597 91.5103 0128289 154.9461 205.7959 16.07298597 5797

1 12039U 80 86 A 80341.35467692 .00891931 34628-4 50099-4 0 744  
2 12039 64.8615 87.8328 0122233 154.3915 206.4398 16.09663007 5953

1 12039U 80 86 A 80342.28600932 .01055131 34406-4 55379-4 0 760  
2 12039 64.8548 84.3758 0116510 153.7491 206.9691 16.11674989 5103

1 12039U 80 86 A 80345.25775767 .01410147 35270-4 56496-4 0 807  
2 12039 64.8513 73.2856 0094514 152.1139 208.4955 16.19339079 6589

1 12039U 80 86 A 80344.08314910 .01255082 35279-4 57274-4 0 782  
2 12039 64.8575 77.6802 0103130 152.4172 208.2507 16.16018802 6397



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Kosmos 1218

parts. 4

1	12079U	80	86	A	80345.25775767	.01410147	35270-4	56496-4	0	318
2	12039	64.8513	73.2856	0094514	152.1138	208.4955	16.19339079			6589

1	12079U	80	86	A	80346.30643751	.01691163	35780-4	58300-4	0	324
2	12039	64.6538	69.3373	0085104	150.9252	209.6686	16.22986611			6751

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1	12046U			80307.13819067	.00000051	00000-0	99999-4 0	48
2	12046	2.4000	284.0070	0130038	247.5139	110.7775	1.01499927	08

1	12046U	80	87	A	80311.10379560	.00000134	00000-0	00000 0 0	56
2	12046	2.4631	282.2770	0143277	267.1427	90.5700	1.00818400	50	

1	12046U	80	87	A	81	12.80797901	.00000113	00000-0	00000 0 0	365
2	12046	2.3031	281.3161	0048405	328.0270	32.0886	0.99632661	727		

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Kormos 1219

1	12050U	80	88	A	80317.26607892	.00129115	96425-5	15475-3	0	212
2	12050	72.8417	194.6650	0049705	59.0875	301.5100	16.05576107			1395

1	12050U	80	88	A	80305.55396463	-.00001709	11826-4	00000	0	0	12
2	12050	72.8551	224.6020	0100402	92.5630	268.2635	16.05358734			11	

1	12050U	80	88	A	80305.55402812	-.00001762	12224-4	00000	0	0	21
2	12050	72.8392	224.6272	0098658	92.5016	268.7518	16.05735542			11	

1	12050U	80	88	A	80306.05255840	-.00000154	00000-0	00000	0	0	34
2	12050	72.8573	223.3357	0072446	87.0044	273.9474	15.98783018			98	

1	12050U	80	88	A	80306.73803084	.00014667	00000-0	17356-4	0	63
2	12050	72.9471	221.5816	0046211	70.4322	290.1893	16.06178913			272

1	12050U	80	88	A	80308.23264235	.00132386	10326-4	15155-3	0	88
2	12050	72.8488	217.7549	0046129	66.6920	293.8248	16.06629204			443

1	12050U	80	88	A	80309.29112785	.00131446	10172-4	14818-3	0	98
2	12050	72.8423	215.0493	0045684	63.6554	296.8963	16.06900771			613

1	12050U	80 88	A	80308.23264235	.00132396	10326-4	15155-3	0	88
2	12050	72.8488		217.7549 0046129	66.6920	293.8248	16.06629204		443
1	12050U	80 88	A	80310.16268229	.00137896	11100-4	15359-3	0	101
2	12050	72.8415		212.8178 0045018	61.8859	298.7184	16.07143902		755
1	12050U	80 88	A	80311.28304085	.00140979	11412-4	15438-3	0	117
2	12050	72.8399		209.9454 0044364	59.4083	301.1489	16.07456947		938
1	12050U	80 88	A	80311.96727782	.00088765	50245-5	15438-3	0	128
2	12050	72.8611		208.1984 0063226	95.6528	265.1917	15.98282546		1047
1	12050U	80 88	A	80312.09246413	.00115149	81080-5	15438-3	0	130
2	12050	72.8531		207.8623 0046492	79.6788	282.0436	16.04312817		1059
1	12050U	80 88	A	80313.08998561	.00002117	00000-0	28734-5	0	152
2	12050	72.8431		205.3235 0051834	68.3948	292.2796	16.04442818		1224
1	12050U	80 88	A	80313.27704534	.00025296	00000-0	32130-4	0	166
2	12050	72.8413		204.8471 0050565	68.5840	292.1833	16.04548432		1256
1	12050U	80 88	A	80314.27459761	.00125740	91612-5	15763-3	0	178
2	12050	72.8417		202.3021 0050437	66.7463	294.3302	16.04818628		1413
1	12050U	80 88	A	80315.27186328	.00125248	91612-5	15478-3	0	181
2	12050	72.8421		199.7562 0050185	64.1263	296.4892	16.05065385		1576
1	12050U	80 88	A	80316.33137220	.00127806	95658-5	15537-3	0	202
2	12050	72.8421		197.0518 0049984	61.4035	299.2229	16.05336627		1744

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1	12054U	1980-089	80310.33193585	.00032328	00000-0	72156-3 0	25
2	12054	65.0438	302.6312	0012610	263.7651	96.2042 15.43325599	107

1	12054U	1980-089	80316.16386437	-.00020482	00000-0	-45374-3 0	135
2	12054	65.0435	283.1876	0009675	279.9575	79.9061 15.43435730	1019

1	12054U	1980-089	80316.42307944	.00022503	00000-0	50262-3 0	152
2	12054	65.0454	282.3186	0008626	276.5153	93.4891 15.43493359	1054

1	12054U	1980-089	80316.87664379	.00020070	00000-0	44926-3 0	163
2	12054	65.0425	280.8155	0008080	266.4264	93.5334 15.43495144	1121

1	12054U	1980-089	80318.36698208	-.00000130	00000-0	00000 0 0	209
2	12054	65.0424	275.8385	0009256	262.7608	97.3006 15.43430856	1359

1	12054U	1980-089	80326.33687879	-.00000131	00000-0	00000 0 0	477
2	12054	65.0440	249.2655	0009364	281.1553	78.8650 15.43330011	2583

1	12054U	1980-089	80327.37365287	.00073484	00000-2	16168-2 0	495
2	12054	65.0415	245.8075	0007681	280.8482	79.4344 15.43518245	2740

1 12754U 1980-089 80329.25267223 .70000423 00000-0 12299-4 0 558  
2 12754 65.0441 239.5414 0009158 276.2697 83.7474 15.43414692 3032

1 12754U 80-089A 81 92.13259009 .00000773 00000-0 19035-4 0 2574  
2 12754 65.0030 165.2953 0058965 275.7522 92.3484 15.43563930 22923

1 12754U 80-089A 81 92.05714374 .00000322 00000-0 99999-5 0 2535  
2 12754 65.0318 169.9373 0026547 251.2549 103.3533 15.43551157 22916

1 12754U 80-089A 81 92.48030970 .00002355 00000-0 51431-3 0 2592  
2 12754 64.9979 168.7230 0229209 170.6175 189.9313 14.45125017 77

1 12754U 80-089A 81 92.54951421 .00002353 00000-0 51431-3 0 2503  
2 12754 65.0051 168.5275 0229492 170.4034 190.1537 14.45132554 87

1 12754U 80-089A 81 92.54951421 .00002353 00000-0 51431-3 0 2517  
2 12754 65.0051 168.5275 0229492 170.4034 190.1537 14.45132554 37

1 12754U 80-089A 81 93.24154414 .00004047 00000-0 85080-3 0 2527  
2 12754 65.0042 165.5424 0228954 170.1454 190.4280 14.45136615 130

1 12754U 80-089A 81 95.24839709 -.00000055 00000-0 00000 0 0 2551  
2 12754 65.0017 160.7924 0227942 169.4158 191.2508 14.45178132 23385

1 12754U 80-089A 81 94.27953129 -.00000055 00000-0 00000 0 0 2549  
2 12754 65.0038 163.5580 0228464 169.7435 190.8905 14.45157081 23245

80-90A

Kosmos 1221

1	12058U	80 90	A	80317.51258938	-.00001650	11385-4	00000 0 0	11
2	12058	72.6909		244.1954 0145129		81.4728 280.2878	15.94788239	25
1	12059U	80 90	A	80317.63824178	-.00001675	11753-4	00000 0 0	26
2	12058	72.9016		243.8878 0152045		84.9549 276.9014	15.92054017	24
1	12058U	80 90	A	80317.76391990	-.00001643	11426-4	00000 0 0	34
2	12058	72.8897		243.5760 0152045		84.6493 277.2050	15.92046165	44
1	12058U	80 90	A	80318.14077473	-.00001642	11430-4	00000 0 0	49
2	12058	72.8580		242.6502 0149237		79.1993 282.5993	15.94513036	109
1	12058U	80 90	A	80318.14077377	-.00001601	10871-4	00000 0 0	45
2	12058	72.8538		242.6355 0149382		79.3488 282.4523	15.94562792	101
1	12058U	80 90	A	80318.27043541	.00013534	00000-0	13760-3 0	54
2	12058	72.8627		242.3450 0101022		218.8404 140.5519	15.58873748	127
1	12058U	80 90	A	80318.46302677	.00011983	00000-0	13760-3 0	69
2	12058	72.8867		241.8828 0043367		211.5131 148.3483	15.60920837	154

1	12758U	80 90	A	80318.97575457	-.00000064	00000-0	00000 0 0	83
2	12058	72.8840	240.6613	0044512	210.2584	149.6123	15.60921004	236

1	12058U	80 90	A	80320.38576037	.00008656	00000-0	98678-4 0	94
2	12058	72.8865	237.2983	0044491	206.9458	153.0586	15.60954538	457

1	12058U	80 90	A	80331.98525434	.00006629	00000-0	75340-4 0	107
2	12058	72.8871	209.6282	0044330	180.0150	178.8775	15.61104249	2265

1	12058U	80 90	A	80322.24433937	.00006593	00000-0	75340-4 0	114
2	12058	72.8880	232.9634	0044267	202.1464	157.7922	15.60974915	740

1	12058U	80 90	A	80323.26975978	.00006592	00000-0	75340-4 0	134
2	12058	72.8876	230.4161	0044051	200.1142	159.9333	15.60987277	970

1	12058U	80 90	A	80324.29517179	.00009321	00000-0	10686-3 0	148
2	12058	72.8882	227.9692	0044128	197.7646	162.2248	15.61009294	1057

1	12058U	80 90	A	80325.25647670	.00007408	00000-0	84504-4 0	151
2	12058	72.8894	225.6762	0043729	195.3995	164.5529	15.61018716	1214

1	12058U	80 90	A	80325.64100591	-.00044407	00000-0	-50937-3 0	164
2	12058	72.8856	224.7591	0042978	193.7080	166.2969	15.61009672	1271

1	12058U	80 90	A	80326.28187402	.00006935	00000-0	79104-4 0	173
2	12058	72.8889	223.2299	0043783	193.0107	166.9925	15.61032130	1376

1	12758U	80 90	A	80327.30725743	.00006362	00000-0	72609-4 0	181
2	12058	72.8887	220.7822	0043770	190.5459	169.4756	15.61044176	1537



80-90A

Kosmos 1221 - fonts. 7

1	12058U	80	90	A	80329.29391090	.00040527	00000-0	45762-3	0	219
2	12058	72.8909	216.0401	0043114	186.3684	173.3972	15.61100443			1349

1	12758U	80	90	A	80331.15236636	.00008771	00000-0	10055-3	0	
2	12058	72.8875	211.6057	0042966	182.2936	177.8076	15.61098934			2133

1	12058U	80	90	A	80331.34461819	.00012389	00000-0	11984-3	0	249
2	12058	72.8866	211.1476	0042764	181.8575	178.2466	15.61103402			2161

80-91

SBS 1

1	12065U		80321.63783609	-	.22222234	00002-0	00000 0 0	14
2	12065	26.3370	212.9757	7289535	179.1153	184.6039	2.27344327	32

1	12065U	1980-091	80324.30939712	-	.00000023	00000-0	00000 0 0	68
2	12065	0.4186	251.7629	0214213	132.5599	336.7171	1.03338021	69

1	12065U	1980-091	80355.04661936	-	.00000059	00000-0	00000 0 0	231
2	12065	0.1349	245.1776	0004637	298.0760	176.6520	1.00292276	372

80-92 A

Molviya 1A2

1	12066U		80321.23075174	-.00000046	00000-0	99999-4	2	12
2	12066	62.8125	70.0856	7417108	288.2185	9.2721	1.95628120	20

1	12067U	1980-092	80321.35996454	.02704506	35055-4	48999-3	0	26
2	12067	62.8615	69.3569	0313817	118.1547	245.1633	15.53164046	39

1	12068U	1980-092	80321.61721568	.02094777	86942-5	48999-3	0	34
2	12068	62.8037	68.5670	0284405	121.5865	241.3360	15.53817402	70

1	12070U	1980-092	80337.02509869	-.00000309	00000-0	00000	0 0	107
2	12070	62.9172	67.5068	7416620	288.1607	9.2018	1.95268297	313

80-93A

Kosmos 1222

1	12071U	80	93	A	80326.55399251	.00000009	00000-0	00000 0 0	11
2	12071	81.2516	262.8004	0012442	175.0754	185.1038	14.77765473	18	
1	12071U	80	93	A	80326.62157323	.00000009	00000-0	00000 0 0	22
2	12071	81.2242	262.7341	0001296	7.3052	352.8157	14.79695337	29	
1	12071U	80	93	A	80327.36541246	.00000009	00000-0	00000 0 0	35
2	12071	81.2252	261.9270	0000885	1.7387	358.3474	14.79680674	137	
1	12071U	80	93	A	80329.25882965	.00019084	00000-0	25334-2 0	68
2	12071	81.2288	259.8604	0001023	321.7689	39.0515	14.79710497	413	

80-94A

Soyuz T-3

1	12077U	80 94	A	80332.64992977	-.00008275	57101-4	00000 0 0	12
2	12077	51.6274	290.8175	0030898	94.2656	265.9800	16.21280985	19
1	12077U	80 94	A	80332.89605972	-.00009402	58109-4	00000 0 0	26
2	12077	51.6462	289.4985	0029033	116.9771	243.4162	16.24272943	54
1	12077U	80 94	A	80332.95924402	-.00000575	00000-0	00000 0 0	33
2	12077	51.6166	289.1438	0003511	240.3192	119.7571	16.05914367	59
1	12077U	80 94	A	80333.02146247	-.00000575	00000-0	00000 0 0	46
2	12077	51.6156	288.8087	0003511	240.5688	119.4974	16.06010243	73
1	12077U	80 94	A	80333.27033734	.00658734	23345-3	86466-3 0	58
2	12077	51.6189	287.4814	0003232	270.2942	89.7800	16.06310359	115

1	12090U		80344.92674392	.00422863	00000-0	16619-2 0	17
2	12090	51.6232	225.7381	0053540	98.2592	252.4489	15.83057351134122

1	12090U		80345.93630471	.00253826	00000-0	95683-3 0	20
2	12090	51.6200	220.4785	0052746	105.7224	254.9606	15.84316866184284

80-95A

Kosmos 1223

1	1	078U	80	95	A	80336.98	1011	-.00001430	00000-0	00000	0	0	38
2	1	078	62.8678	340.6541	7370	39	316.0673	4.7894	2.00631	11			94
1	12078U					80335.47453214		-.00000126	00000-0	00000	0	0	1
2	1	078	62.8684	340.8710	739	35	316.0627	4.7463	1.9816	102			63
1	12080U	80	95	C		80333.66188965		-.00000538	00000-0	00000	0	0	53
2	1	2080	62.8145	338.7096	0299666	121.1205	241.6790	15.51275306					111

80-96A

Kosmos 1224

1	12084U	80 96	A	80335.50217130	-.00001671	11644-4	00000 0 0	16
2	12084	72.8749	259.0388	0134722	82.8 71	278.825	15.95478057	01

1	12084U	80 95	A	80341.36091100	.00007981	00000-0	91191-4 0	52
2	12084	72.8611	247.3757	0044163	203.1753	156.7528	15.60938221	761

1	12084U	80 96	A	80338.73316381	.00001030	00000-0	00000-0 0 00075	
2	12084	72.8644	253.6539	0044799	208.9581	150.9097	15.60890864	353

1	12084U	80 96	A	80339.18180878	.00013916	00000-0	00000-0 0 00083	
2	12084	72.8630	252.5827	0043719	207.8718	152.0102	15.60911073	421

1	12084U	80096	A	80338.98954438	.00007579	00000-0	00000-0 0 00090	
2	12084	72.8601	253.0464	0044075	207.5381	152.4018	15.67903211000392	

1	12084U	80096	A	80340.39954516	.00008874	00000-0	00000-0 0 00106	
2	12084	72.8624	249.6732	0043939	204.5560	155.3511	15.67926699	610

1	12084U	80 96	A	80341.36091100	.00007981	00000-0	91191-4 0	108
2	12084	72.8611	247.3757	0044163	203.1753	156.7528	15.60938221	761



1	12084U	80	96	A	80341.36091100	.00007981	00000-0	91191-4 0	119
2	12084	72.8611	247.3757	0044163	203.1753	156.7629	15.60939221		761

1	12084U	80	96	A	80342.25816989	.00006236	00000-0	71422-4 0	126
2	12084	72.8611	245.2316	0044103	200.8798	159.0277	15.60945009		900

1	12084U	80	96	A	80345.20629282	.00009539	00000-0	10942-3 0	163
2	12084	72.8618	238.1886	0043905	194.2908	165.7143	15.60993002		1360

1	12084U	80	96	A	80344.11677782	.00007042	00000-0	80480-4 0	141
2	12084	72.8618	240.7921	0044059	196.5611	163.4256	15.60970480		1193

1	12084U	80	96	A	80346.35986331	.00007539	00000-0	85990-4 0	177
2	12084	72.8614	235.4304	0043867	191.7907	168.1951	15.61006299		1548

1	12084U	80	96	A	80347.32118013	.00009803	00000-0	11238-3 0	189
2	12084	72.8612	233.1332	0043581	189.6836	170.3782	15.61029380		1691

1	12084U	80	96	A	80348.28247117	.00017157	00000-0	19552-3 0	192
2	12084	72.8634	230.8334	0042837	187.7233	172.3282	15.61055245		1847

1	12084U	80	96	A	80349.24374702	.00031980	00000-0	36188-3 0	206
2	12084	72.8622	228.5374	0043275	185.6740	174.3477	15.61084728		1991

80-97A

Kosmos 1225

1	12287U	80 97A	80340.24164480	.00003977	00000-0	00000-0	0	00016
2	12087	82.9170	167.9974	0057329	301.6484	57.9032	13.72904348	19

1	12287U	80 97A	80340.24164760	.00003977	00000-0	00000-0	0	00029
2	12087	82.9430	167.9910	0054959	297.6191	61.9334	13.73469157	19

1	12087U	80097	A 80342.79219417	-.00000146	00000-0	-16329-3	0	65
2	12087	82.9435	166.1053	0054380	286.0754	73.4439	13.73023320	368

80-98A

Intelsat 5 (F-2)

1	12089U			80341.21931322	.00000567	00000-0	99999-4 2	12
2	12089	23.6893	249.2011	7287343	179.1640	183.8050	2.28522803	06
1	12089U			80344.82178920	-.00000018	00000-0	00000 0 0	31
2	12089	0.8499	279.7348	0010420	260.9243	179.3619	1.00545159	45
1	12089U			80342.84724462	.00000044	00000-0	00000 0 0	26
2	12089	0.9064	277.6512	0067400	162.9018	280.2374	1.01583339	04
1	12089U	80 98 A		80345.81634157	.00000024	00000-0	00000 0 0	42
2	12089	0.8615	277.1328	0011364	281.8623	162.9912	1.00627535	51
1	12089U	80 98 A		80346.80453613	.00000034	00000-0	00000 0 0	50
2	12089	0.8585	277.3838	0011359	282.7879	159.8221	1.00631293	66
1	12089U	80 98 A		80347.79819832	.00000043	00000-0	00000 0 0	69
2	12089	0.8535	277.3517	0011286	283.4722	159.1532	1.00631787	77

80-99A

Kosmos 1226

1	12092U		80347.02089024	-.00018948	00000-0	-20092-1	0	56
2	12092	82.9437	60.2142	0025660	278.2342	81.5920	.13.74559209	158
1	12092U		80347.31205162	-.00011704	00000-0	-12385-1	0	71
2	12092	82.9431	59.9998	0025718	277.1373	82.6888	13.74571296	190
1	12091U	80 99 A	80351.68549039	.00000389	00000-0	40787-3	0	57
2	12091	82.9417	56.7703	0032567	268.4735	91.2692	13.73148443	795

80-100A

Kosmos 1227

Upp: 16 december 1980 fr. Plesetsk; Ned: 28 dec.

Frequ: 19.989 MHz, 19.99514 MHz, TF  
232.0 MHz

1	12100U	80100	A	80351.50215005	-.00001774	12417-4	00000 0 0	10
2	12100	72.8506	273.7886	0076632	86.2903	274.7093	16.09670345	00

1	12100U	80100	A	80352.06148011	-.00000154	00000-0	00000 0 0	27
2	12100	72.8397	272.3412	0053313	77.4225	283.2963	16.03981731	97

1	12100U	80100	A	80352.31069404	-.00000154	00000-0	00000 0 0	35
2	12100	72.8472	271.7072	0046415	69.0725	291.5468	16.06460245	134

1	12100U	80100	A	80353.24481931	.00122043	89059-5	14015-3 0	43
2	12100	72.8390	269.3249	0045642	67.4684	293.3123	15.05630030	284

1	12100U	80100	A	80354.30326531	.00129104	10014-4	14542-3 0	50
2	12100	72.8409	266.6165	0045740	64.5543	296.0982	16.05912986	458

1	12100U	80100	A	80359.15645815	.00105782	72212-5	13946-3 0	139
2	12100	72.8382	254.2048	0058357	66.0594	295.1975	16.03459522	1230

1	12100U	80100	A	80355.29929169	.00133971	10599-4	14849-3	0	61
2	12100	72.8424	264.0672	0045377	62.2127	299.4141	16.07186313		619

1	12100U	80100	A	80355.98395961	.00135455	10743-4	14849-3	0	75
2	12100	72.8408	262.3105	0044843	61.0613	299.6565	16.07399155		721

1	12100U	80100	A	80356.10856574	.00110301	75532-5	14849-3	0	84
2	12100	72.8396	261.9898	0059001	73.8793	286.8924	16.02811115		742

1	12100U	80100	A	80356.42064230	.00086294	53588-5	11581-3	0	90
2	12100	72.8386	261.1963	0059079	72.7790	287.9817	16.02871388		792

1	12100U	80100	A	80357.35681066	.00110262	75884-5	14622-3	0	102
2	12100	72.8367	258.8145	0058656	70.6291	290.2056	16.03090533		943

1	12100U	80100	A	80358.29282835	.00107459	72662-5	14090-3	0	112
2	12100	72.8378	256.4301	0058476	68.1945	292.5107	16.03276751		1099

1	12100U	80100	A	80360.35170904	.00121556	87617-5	15503-3	0	148
2	12100	72.8399	251.1827	0058154	63.0830	297.6092	16.03724350		1425

1	12100U	80100	A	80361.22498981	.00107255	73278-5	13538-3	0	158
2	12100	72.8393	248.9567	0058172	60.8108	299.7626	16.03890595		1564

1	12100U	80100	A	80362.41003489	.00104902	71745-5	13765-3	0	164
2	12100	72.8382	245.9366	0057832	57.9833	302.6580	16.04135199		1757

80-102 A-H

Kosmos 1228-1235

1	12115U	1980-102	80361.32864493	-.00007002	00000-0	-44619-1	0	53
2	12115	73.9922	79.6616	0014866	121.2135	239.0246	12.52473547	301
1	12112U	1980-102	80361.24373307	.00019067	00000-0	11934	0 0	76
2	12112	73.9959	79.7382	0028175	78.8223	281.5996	12.55288454	295
1	12108U	1980-102	80361.24290512	.00022673	00000-0	13727	0 0	42
2	12108	73.9991	79.7370	0031609	90.8608	269.6068	12.55937700	291
1	12114U	1980-102	80361.32225417	.00070068	00000-0	41946	0 0	68
2	12114	73.9968	79.6417	0032338	92.2857	278.1867	12.55906921	302
1	12111U	1980-102	80361.24243461	.00109236	00000-0	64727	0 0	37
2	12111	74.0054	79.7268	0031147	84.0901	276.3702	12.56056316	297

1	121130	1980-102	80361.32138072	.00029346	00000-0	17307 0 2	57
2	12113	73.9976	79.6406 0032445	78.6540	291.8157	12.56411598	308
1	121140	1980-102	80361.24102314	.00093808	00000-0	49378 0 2	68
2	12110	73.9977	79.7131 0036918	75.4925	285.0221	12.56846620	207
1	12109U	1980-102	80361.31915812	.00023136	00000-0	13702 0 0	65
2	12109	73.9995	79.6252 0038302	86.7020	273.3415	12.57321779	307
1	12107U	1980-102	80361.31783130	.00000077	00000-0	49999-3 2	85
2	12107	73.9982	79.6142 0043073	78.6956	281.2935	12.58327647	402



80-103A

Prognoz 8

1	12116U		80359.27756804	.00000891	00000-0	99999-4 7	16
2	12116	65.8300	193.2400	9302998	290.9200	1.2469 0.25316499	06
1	12116U		80355.34730415	.00001121	00000-0	99999-4 7	02
2	12116	65.8065	132.8019	9032276	290.9219	1.9844 0.25316499	01
1	12117U		80360.54519313	-.00000380	00000-0	00000 0 7	15
2	12117	65.0603	189.0569	0199224	67.2379	294.9393 15.67281864	67
1	12119U		80360.22503538	-.00000402	00000-0	00000 0 0	21
2	12119	65.0551	190.1287	0200248	71.1234	291.1513 15.68935403	17
1	12118U		80360.67151352	-.70000512	00000-0	00000 0 7	23
2	12118	65.0913	188.5309	0220467	69.9646	292.4897 15.71816916	80

80-104

1	12137U		81	9.02934828	.00005413	00000-0	30158-2 0	14
2	12137	47.2620	277.8100	7250630	3.5227	359.6747	2.29979385	313

1	12122U	80104	B	80362.15826516	.03224189	58722-4	85556-4 0	52
2	12122	51.6112	278.1363	0008375	278.3990	151.6679	16.33968699	103

1	12120U			80365.48644229	-.00000272	00000-0	00000 0 0	24
2	12120	0.0641	225.3383	0011310	22.0752	126.9835	1.00280339	76

1	12120U	80 104A	81	9.42106047	-.00000272	00000-0	00000 0 0	49
2	12120	0.0649	218.0491	0010113	30.2424	111.5846	1.00276638	169

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Kosmos 1236

1	12121U	80105	A	80361.97646434	-.00004017	27925-4	00000 0 0	17
2	12121	67.1333	323.3498	0145726	74.3069	287.4141	16.02555736	37
	12121U	80105	A	80362.73887759	-.20004005	27618-4	00000 0 0	29
	12121	67.1352	323.1404	0145488	74.1383	287.5787	16.02526422	44
	12121U	80105	A	80362.22606615	.02625940	27588-4	16874-3 0	38
	12121	67.1352	322.5131	0145488	73.9390	287.7754	16.23507071	79
	12121U	80105	A	80362.41312778	.00606643	27188-4	40847-4 0	42
	12121	67.1418	321.3842	0143091	73.0505	288.2057	16.03215652	107
	12121U	80105	A	80364.34571993	.00657951	27997-4	40847-4 0	69
	12121	67.1436	315.3945	0136189	71.0033	290.6753	16.05725687	412

1	12121U	80105	A	81	1.38399885	.01548996	29123-4	62354-4	0	126
2	12121	67.1297	305.0644	0078889	72.6546	288.3262	16.22599438			924
1	12121U	80105	A	81	1.63046777	.01708833	23789-4	62354-4	0	118
2	12121	67.1294	304.2012	0075682	73.1326	287.8155	16.23583399			960
1	12121U	80105	A	81	1.87684667	.01270939	29327-4	45298-4	0	129
2	12121	67.1364	303.3495	0074322	71.7098	289.2179	16.24136077			1008
1	12121U	80105	A	81	2.12479669	.00822092	27928-4	45298-4	0	130
2	12121	67.1388	302.5220	0124759	87.7692	273.7779	16.29575515			1244
1	12121U	80105	A	81	2.24924128	.00790021	27545-4	45298-4	0	140
2	12121	67.1339	302.0773	0147484	89.5005	272.3082	16.04888139			1064
1	12121U	80105	A	81	3.30815006	.00834637	27827-4	45298-4	0	158
2	12121	67.1378	298.5154	0142678	88.0210	273.7476	16.06600671			1237
		80105	A	81	5.47755014	.00993805	28616-4	44470-4	0	185
		67.1369	287.7792	0125840	85.1026	276.8926	16.12499533			1740

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Kosmos 1236 for ts. 7

1	12121U	80125	A	81	7.40733446	.01097002	28318-4	45544-4	0	192
2	12121	67.1361			284.6118	0120475	84.2251	277.4906	16.14532	1890
1	12121U	80105	A	81	7.90270523	.01135137	28548-4	45052	0	204
2	12121	67.1362			282.9216	0117640	83.6885	277.7693	16.1567	1974
1	12121U	80125	A	81	8.08937823	.02663458	27965-4	45052	0	210
2	12121	67.1364			282.2857	0141308	62.7780	298.7725	16.03390582	2007
1	12121U	80105	A	81	10.20849084	.00648552	27909-4	40425-4	0	245
2	12121	67.1339			275.1694	0133672	60.7862	300.6673	16.06112026	2342
1	12121U	80105	A	81	11.26667816	.00748619	28257-4	44538-4	0	255
2	12121	67.1297			271.5987	0129225	59.9311	301.5959	16.07612776	2512
1	12121U	80105	A	81	12.19947195	.00813890	27959-4	46392-4	0	262
2	12121	67.1308			268.4410	0124508	59.2153	302.1850	16.09093809	2662
1	12121U	80105	A	81	13.25557470	.00793817	27746-4	42503-4	0	275
2	12121	67.1313			264.8642	0120231	58.1538	302.9796	16.10764831	2837
1	12121U	80105	A	81	14.24860384	.00846531	28321-4	42603-4	0	289
2	12121	67.1305			261.4842	0116018	57.3003	304.1479	16.12465678	2997

1 12121U 80105 A 81 16.29286199 .01132693 28531-4 48841-4 0 305  
2 12121 67.1303 254.5096 0103727 55.9446 305.5943 16.16829453 3325

1 12121U 80105 A 81 16.97408798 .00827957 27920-4 49586-4 0 325  
2 12121 67.1265 252.1844 0157174 58.4673 293.3166 16.02414174 3433

1 12121U 80105 A 81 17.34851502 .00859732 27348-4 49586-4 0 333  
2 12121 67.1317 250.9258 0156855 57.8496 293.9851 16.23039429 3494

1 12121U 80105 A 81 18.03458342 .00826732 27981-4 46598-4 0 343  
2 12121 67.1293 248.6254 0152869 67.3563 294.2217 16.04139924 3604

1 12121U 80105 A 81 18.90709049 .01017493 27852-4 54917-4 0 362  
2 12121 67.1319 245.6890 0147873 66.6402 295.0264 16.05709053 3742

1 12121U 80105 A 81 19.28073267 .00848411 28004-4 44692-4 0 371  
2 12121 67.1305 244.4296 0146839 66.2054 295.2373 16.06275111 3808

1 12121U 80105 A 81 20.27650850 .00862658 28121-4 42748-4 0 381  
2 12121 67.1328 241.0709 0142241 65.2971 296.4657 16.08031154 3969

1 12121U 80105 A 81 20.89815730 .01011215 28006-4 43462-4 0 397  
2 12121 67.1276 238.9624 0137429 65.2382 296.3037 16.09397722 4060