

90-01A

SKynet 4A

0401U	90-01A	90	3.09009932	-.00000019			10000-3 0	1
0401	3.3708	303.4501	0246937	54.2966	308.3189	1.04316126		0
0403U	90	I C 90	1.18533293	-.05090567	-29363-4	-57105-2 0		1
0403	28.6012	284.3799	0368466	115.8672	248.2236	15.42945328		4
0405U	90	I E 90	1.89570391	-.05128220	-30275-4	-19580-2 0		1
0405	28.6048	279.3435	0355844	130.9178	256.8503	15.55922405		15
0406U	90-001F	90	2.45899763	-.00014652		-36100-2 0		1
0406	26.7882	283.7071	5871959	177.7337	187.2032	4.22032887		6

90-01B

JCSat

20402U	90-01B	90	5.28212070	-.00000141			10000-3 0	1
20402	0.3799	247.2489	0029014	161.3643	311.5825	1.00255832		2

90-02A

STS-32

Upp: 9 januari från Cape Canaveral

20409U	90	2	A	90	9.55402458	.30060672	00000-0	25599-3 0	1
20409	28.5041	140.9762	0048890	42.2441	186.7975	15.82003596			0
20409U	90	2	A	90	9.70320456	-.00080196	00000-0	-35592-3 0	2
20409	28.5036	139.8918	0048305	45.5590	314.7076	15.81699374			2
409U				90	9.83156584	0.00059660		25599-3 0	4
409	28.4983	138.9481	0048648	47.1692	325.5358	15.81678510			5
409U				90	9.89251259	-.00080126		-35592-3 0	3
409	28.5011	138.4914	0048459	47.7441	312.7306	15.81669950			5
20409U				90	10.39723538	0.00055285		25599-3 0	5
20409	28.4987	134.7714	0042374	53.0319	307.4436	15.80542469			14
20409U				90	10.58680556	0.00045832		25599-3 0	6
20409	28.5002	133.3766	0028931	58.1446	302.9334	15.77245593			16
20409U				90	10.79513866	0.00052462		25599-3 0	7
20409	28.4982	131.8483	0014729	53.7862	53.6237	15.80679571			20

20409U		90	11.09199032	0.00052423			25599-3 0	8
20409	28.5010	129.6642	0013555	54.9659	305.1798	15.80689704		25
20409U		90	11.21825873	0.00098265			47855-3 0	9
20409	28.4978	128.7271	0014527	61.3160	298.8919	15.80702412		27
20409U	90	2	A 90	12.48121730	.00049448	00000-0	25599-3 0	12
20409	28.4999	119.4339	0004693	21.1915	338.6605	15.79552186		47
20409U	90	2	A 90	12.67078505	.00047648	00000-0	25599-3 0	13
20409	28.4971	118.0521	0009358	49.5071	310.1472	15.78684928		50
20409U	90	2	A 90	12.72569421	.00047584	00000-0	25599-3 0	14
20409	28.5000	117.6435	0003438	109.8572	202.6112	15.78718171		50
20409U		90	12.86047574	.00047547	00000-0	25599-3 0		15
20409	28.4993	116.6452	0003326	121.3881	238.7120	15.78701455		52
20409U	90	2	A 90	13.23973172	.00231143	00000-0	12135-2 0	16
20409	28.4995	113.8613	0003145	116.9893	243.2868	15.78936568		58
20409U	90	2	A 90	13.35763865	.00000210	00000-0	00000+0 0	17
20409	28.4988	112.9974	0002561	121.6900	190.1499	15.78841866		60
20409U	90	2	A 90	13.55572296	.00783885	00000-0	38419-2 0	18
20409	28.5002	111.5419	0002993	121.9903	238.1818	15.79033740		63
20409U	90	2	A 90	15.13545784	.00103876	00000-0	53946-3 0	22
20409	28.5019	99.9336	0002294	149.3184	210.8985	15.79458337		89
20409U	90	2	A 90	15.91666666	.00049735	00000-0	25599-3 0	23
20409	28.5003	94.1902	0002283	142.9628	348.8765	15.79692406		101

90-02A

STS-32

forts. 1

20409U	90	2	A	90	16.89930532	.00050500	00000-0	25599-3 0	26
20409	28.5003	86.9589	0001779	158.7677	173.5945	15.80027840		116	
20409U	90	2	A	90	17.47256892	.00112180	00000-0	56289-3 0	27
20409	28.4994	82.7446	0001736	159.7389	200.4444	15.80193557		125	
20409U	90	2	A	90	17.96088541	.00051262	00000-0	25599-3 0	28
20409	28.5024	79.1486	0001649	170.2062	93.8230	15.80353632		134	
20409U	90	2	A	90	18.23030357	-.00010964	00000-0	-57031-4 0	29
20409	28.4979	77.1697	0002085	154.2461	205.7080	15.80253766		138	
20409U	90	2	A	90	18.29347213	.00150327	00000-0	74787-3 0	30
20409	28.4986	76.7064	0001963	151.5075	208.5733	15.80302926		139	
20409U	90	2	A	90	19.30371428	.00112192	00000-0	55356-3 0	32
20409	28.4996	69.2678	0001299	182.0794	177.9766	15.80558765		153	
20409U	90	2	A	90	19.74565180	.00203532	00000-0	98869-3 0	34
20409	28.4975	66.0135	0001820	160.0942	199.9775	15.80701237		150	
20409U	90	2	A	90	19.85661804	.00052079	00000-0	25599-3 0	35
20409	28.4992	65.1931	0001607	160.1898	112.6698	15.80696196		163	

90-02B

LEASAT5

20410U 90 2 8 90 15.67583329 .00000062 00000-0 99999-4 0 3
20410 3.3840 323.0260 0124616 185.0490 28.0520 1.00256427 0

90-03A

Kosmos 2055

Upp: 17 jan

Ned: 29 jan

0426U	90	17.72677818	-.00000435					0	1
0426	62.8216	287.5836	0009179	169.9161	190.0825	16.06698775			1
426U	90	18.47473777	0.00120579	10806-4	25373-3	0			5
426	62.8265	284.6217	0052324	149.8950	210.5012	15.96143591			15
426U	90	19.03852740	0.00162514	15738-4	33225-3	0			7
426	62.8277	282.4221	0053893	151.4855	209.0390	15.96419859			24
20426U	90	3 A 90	19.22641870	.00125550	11487-4	25727-3	0		8
20426	62.8271	281.6867	0053852	150.9552	209.4260	15.96443965			27
20426U	90	3 A 90	19.66487027	.00071702	73278-5	14871-3	0		9
20426	62.8248	279.9753	0053649	151.1012	209.1962	15.96463269			34
20426U	90	3 A 90	19.79016278	-.00005787	00000-0	-10798-4	0		10
20426	62.8241	279.4855	0054150	151.0670	209.3320	15.96437175			36

20426U	90	3	A	90	20.16599169	.00103799	95115-5	21252-3	0	11
20426	62.8258	278.0179	0053678	151.1494	209.3508	15.96531088				42
20426U	90	3	A	90	20.79228902	.00006586	00000-0	14054-4	0	12
20426	62.8271	275.5735	0053416	151.0435	209.2469	15.96563543				52
20426U	90	3	A	90	21.16810534	.00082049	79941-5	16785-3	0	13
20426	62.8265	274.1034	0053355	151.8329	208.6802	15.96667040				58
20426U	90	3	A	90	21.79435112	.00056109	65752-5	11584-3	0	14
20426	62.8258	271.6561	0053102	151.2596	209.0707	15.96727130				68
20426U	90	3	A	90	22.73372520	.00069522	72244-5	14160-3	0	15
20426	62.8268	267.9871	0052726	151.1426	209.3660	15.96876638				83
20426U	90	3	A	90	23.79820205	.00049652	63291-5	10195-3	0	16
20426	62.8267	263.8267	0051969	151.0473	209.3387	15.97009372				100
426U	90-03A	90	24.17280458	0.00167633	13420-4	10195-3	0	18		
426	62.8246	262.3410	0039159	112.8115	254.8735	16.16068697				106
26U	90-03A	90	27.69676852	0.00197602	14787-4	10736-3	0	23		
26	62.8240	248.1650	0037286	110.8028	249.6973	16.17667222				163
26U	90-03A	90	28.74747188	0.00202105	40795-4	10745-3	0	25		
26	62.8229	243.9305	0036615	111.2002	249.3481	16.18144393				180
26U	90-03A	90	29.05643856	0.00253246	40730-4	13245-3	0	26		
26	62.8243	242.6844	0036127	110.7913	249.7632	16.18324137				185

90-04A

Kosmos 2056

32U	90004	A	90018.59499143	.00000000	00000-0	00000-0	0	0001
32	074.0436		318.7603	0029759	356.3220	003.8199	14.3119382700000	
32U			90	19.15479705	0.00043855		16939-1	0 5
32	74.0369		317.7435	0023978	342.5083	17.5706	14.29701543	7

90-05H

Lusat

443U	90-05H	90	23.82219061	-.00030107				-12187-1	0	7
443		98.7165	100.2885	0010048	210.8523	149.2068	14.28223228			25

90-05A

SPOT 2

Upr: 22, an

20436U	90	5	A	90	22.07085524	-.00000020	00000-0	00000+0	0	1
20436	98.7273			98.5549	0013129	213.4386	146.9297	14.28842324		0
20436U	90	5	A	90	22.14081604	-.00000019	00000-0	00000+0	0	2
20436	98.7266			98.6214	0004467	191.7015	167.8437	14.26919824		1
20436U	90	5	A	90	22.42140883	.00076972	00000-0	31445-1	0	3
20436	98.7201			98.9007	0004467	190.8854	168.9945	14.26699241		5
20436U	90	5	A	90	22.63184592	.00076971	00000-0	31445-1	0	4
20436	98.7246			99.1074	0003507	185.6374	174.4471	14.26698809		8

90-05C

UOSAT4

438U	90-05C	90	24.38214443	0.00038261				15162-1	0	3
438		98.7174	100.8496	0011059	210.2871	149.7737	14.28586876			33

90-05D

Pacsat

20439U 90 5 D 90 23.61178565 .00042000 00000-0 16667-1 0 4
20439 98.7103 100.0795 0010725 213.0739 146.9787 14.28481594 22

90-05E

DOVE

440U	90-05E	90	24.10194584	0.00029960				11888-1	0	2
440	98.7168	100.5694	0011490	210.9278	149.1553	14.28600359				29

90-05F

Webersat

441U	90-05F	90	24.31185946	0.00013144				52284-2	0	2
441		98.7168	100.7824	0011162	214.1778	145.7732	14.28705645			32

90-056

442U	90-056	90	24.31184046	0.00011799	0.100	85.5	46899-2	0	2
442	98.7170	100.7798	0012254	211.0270	149.3795	14.28762055			32

90-06A

Molniya 3-37

Upp: 23, an

44U	90-06A	90	24.63067419	0.00000065	0.00000000	-22788-2 0	4.
44	62.7784	114.9944	7327698	288.0849	9.7156	2.05533344	4.

90-07B

Hiten second stage

449U 90007 R 90025.64993334 .04054866 00000-0 00000-0 0 0004
449 030.7558 341.5488 0017320 042.8552 317.3967 16.2338501600020

90-08A

NAVSTAR-2 F6

52U	90-08A	90	27.78896681	-.00000001				10000-3 0	4
52	54.6582	261.6862	0037706	122.0285	238.3852	2.01786190			2
453U	90-08B	90	25.27938320	-.00000042				-24897-5 0	2
453	35.6600	255.5282	0591232	143.1895	221.0735	14.04134822			5

90-09A

Kosmos 2057

Upp: 25 jan

457U	90-09A	90	25.83087723	-.00005721	39490-4			0	2
457	62.8149	332.8874	0110427	116.8376	242.8199	16.05814314			1
57U	90-09A	90	26.14251126	0.00636244	39843-4	39196-3	0		3
57	62.8400	331.6681	0104619	116.9031	244.5257	16.06234908			6
57U	90-09A	90	26.57807109	0.05673477	39480-4	34134-2	0		6
57	62.8483	329.9403	0103439	116.6598	243.7290	16.06628966			13
57U	90-09A	90	26.64043081	0.00381062	40041-4	22972-3	0		7
57	62.8373	329.6943	0103670	116.7870	244.3098	16.06726980			14
57U	90-09A	90	27.69809670	0.00482784	39954-4	27567-3	0		10
57	62.8372	325.4977	0100957	116.9717	244.1267	16.07801795			31
57U	90-09A	90	28.13340986	0.00219846	10440-4	27567-3	0		11
57	62.8477	323.7791	0107623	89.2202	266.8418	15.94471843			20
57U	90-09A	90	28.75745299	0.00594358	39594-4	29807-3	0		14
57	62.8339	321.3122	0120000	73.3346	288.1656	16.05679536			48

457U 90-09A 90 38.95156586 0.00875368 40246-4 28128-3 0 36
457 62.8288 280.7812 0121331 67.8619 293.5180 16.09891343 212

90-10A

Kosmos 2058

465U	90-010A	90	32.97387023	0:00002693				40781-3 0	8
465	82.5087	323.9591	0022094	267.3481	92.4709	14.73716784			36
465U	90-010A	90	39.08456348	0.00002431				36751-3 0	13
465	82.5080	318.3131	0022180	245.8351	114.0716	14.73747039			127

90-11A

Kina 26

473U	90-011A	90	38.23593189	-.00000107			10000-3 0	4	
473			0.4781	296.4070	0165575	359.5745	62.2379	0.97814080	2
473U	90-11A	90	42.32583094	-.00000034			10000-3 0	12	
473			0.1251	267.6505	0068351	29.4718	62.1800	0.99259883	6
473U	90-011A	90	49.31682249	-.00000263			10000-3 0	20	
473			0.1145	280.1329	0001331	63.9000	15.9702	1.00277810	14

90-12A

Kosmos 2059

476U	90-012A	90	38.74422535	0.00376463	15472-4	10913-2	0	6
476	65.8398	3.0482	1371018	148.2416	220.9354	13.07353866		14

90-13A

MOS-1B

478U	90-013A	90	38.11454889	-.00000016				0	1
478	98.5535	108.7858	0005834	157.0974	232.3489	13.93366051			0
478U	90-013A	90	38.39588039	0.00102907			76787-1	0	3
478	99.0814	109.3551	0005767	341.0712	19.0381	13.93770110			4
478U	90-13A	90	41.77006059	-.00007443			-56608-2	0	10
478	99.0789	112.6656	0005573	327.1322	32.9522	13.93671846			51

90-14A

Soyuz TM-9

Upp: 11 feb 1990 kl. 0615 UT

494U	90-14A	90	42.31480140	-.00008339	57491-4	0	1
494	51.5676	244.4413	0019611	117.7583	242.7413	16.24376774	1
494U	90-14A	90	42.43780432	-.00008353	57687-4	0	3
494	51.5738	243.7593	0019647	119.9051	240.4574	16.24522304	3
494U	90-14A	90	42.56242383	-.00000428		0	5
494	51.6079	243.2295	0031295	174.6280	185.5076	15.86138666	5
494U	90-14A	90	43.06624172	-.00031722		-11511-3 0	7
494	51.6175	240.5997	0033342	179.0571	180.8709	15.86709857	13

90-15A

0496U	90-15A	90	45.73786854	-.00000226				-70673-5	0	2
0496	43.0996	274.5350	0014659	303.0014	56.9537	15.08967745				1
20496U	90 15	A 90	51.89506617	.00006928	00000-0	44645-3	0			11
20496	43.0963	240.8041	0013136	344.9084	15.1397	15.08739547				94

90-16A

Raduga 25

499U	90-016A	90	51.12592207	0.00000040			10000-3 0	11
499		1.5485	275.6428	0034526	92.7558	267.0972	0.99714031	5

90-17A

Nadezhda 2

(COSPASS)

Upp: 27 feb.

1	20508U	90	17	A	90	58.93378769	.00000006	00000-0	00000+0	0	1
2	20508	82.8741	140.3137	0044323	274.8818	84.7280	13.77911791				0
08U	90-17A	90	59.07949992	0.00000006						0	4
08	82.9591	140.3575	0043086	290.2879	69.2423	13.73188830					3

90-19A

STS 36 (Atlantis F6)

Upp: 28 feb fr. Cape Canaveral

20512U	90 19 A	90 59.36831023	.00832068	44018-4	25599-3	0	1
20512	61.9994	179.3985	0009382	271.0943	344.2350	16.26213101	0
20512U	90-19A	90 59.44767390	0.00292862	43524-4	97414-4	0	2
20512	61.9935	179.0635	0006854	282.7305	76.9739	16.25535870	1
20512U	90-19A	90 59.63226512	0.00091149		97414-4	0	3
20512	61.9954	178.2988	0008184	257.9795	98.7383	16.09399700	4
512U		90 61.30917981	-.00223648		-20744-3	0	8
512	61.9835	171.4183	0001985	120.4471	239.6313	16.12392926	31
512U		90 61.65997690	0.00290873	50319-4	25599-3	0	10
512	61.9920	169.9831	0002653	125.0013	111.8084	16.12708020	37
512U		90 62.42861495	0.00200895	27398-4	17357-3	0	13
512	61.9919	166.8190	0001277	137.8046	242.3411	16.13031149	50
512U		90 62.50000000	0.00259467	11070-4	16446-3	0	15
512	61.9931	166.5250	0017784	153.1228	281.8477	16.16954875	51

512U	90	63.48680671	0.00225178	11004-4	13862-3	0	18
512	61.9905	162.4402	0016732	154.3673	266.0546	16.17417216	67

90-20A

Progress - M 3

20513U	90	20	A	90	60.01950973	-.00008418	58034-4	00000+0	0	1
20513	51.5963	155.8009	0026725	98.6332	261.7937	16.26966450				1
20513U	90	20	A	90	60.14234713	-.00008398	57894-4	00000+0	0	2
20513	51.5778	155.1236	0033855	106.7048	252.6635	16.25222174				3
20513U	90	20	A	90	60.14234713	-.00008398	57894-4	00000+0	0	3
20513	51.5778	155.1236	0033855	106.7048	252.6635	16.25222174				3
20513U	90	20	A	90	60.26550885	-.00000473	00000-0	00000+0	0	4
20513	51.6192	154.4235	0041387	130.2251	221.2276	15.89361186				5
20513U	90	20	A	90	61.08434343	.02855647	00000-0	69678-2	0	7
20513	51.6213	150.1259	0037313	133.7090	226.3129	15.88954853				18
20513U	90	20	A	90	61.14729667	.04095938	00000-0	89765-2	0	8
20513	51.6184	149.7920	0036660	135.6615	224.7071	15.88979727				19

20513U	90	20	A	90	61.27305255	.00127175	00000-0	40944-3	0	9	
20513					51.6194	149.1310	0036383	135.4985	224.6930	15.88923755	21
20513U	90	20	A	90	61.58754191	.00185453	00000-0	58493-3	0	10	
20513					51.5202	147.4772	0037332	136.6174	223.8737	15.89107751	26
20513U	90	20	A	90	61.90194486	-.00030888	00000-0	-97779-4	0	11	
20513					51.6242	145.8252	0037028	138.9824	221.4134	15.89134040	31
20513U	90	20	A	90	61.96482627	-.00018006	00000-0	-97779-4	0	12	
20513					51.6254	145.4981	0019248	248.3426	111.5766	15.78674632	32
20513U	90	20	A	90	63.16756271	-.00008098	00000-0	-97779-4	0	13	
20513					51.6168	139.4670	0017704	236.5944	41.0557	15.59099652	51
20513U	90	20	A	90	63.18221236	.00040432	00000-0	50740-3	0	14	
20513					51.6180	139.3970	0016423	235.5739	124.3656	15.59152400	51
20513U	90	20	A	90	63.69496271	.00040442	00000-0	50740-3	0	15	
20513					51.6173	136.8214	0015167	233.1122	126.8225	15.59183970	59
20513U	90	20	A	90	65.04087811	.00040671	00000-0	50740-3	0	16	
20513					51.6193	130.0318	0016331	240.6961	119.3571	15.59307732	80

90-21A

1	20523U	90	21	A	90	73.91730833	.01291431	-33654-4	45754-3	0	1
2	20523	28.6017	170.2781	0139907		81.6761	279.9400	16.04416900			6
1	20523U	90	21	A	90	74.29039680	.00949071	-33568-4	32900-3	0	4
2	20523	28.6054	167.4356	0137379		86.2250	275.4231	16.05129527			12
1	20523U	90	21	A	90	74.53902304	.00942015	-33526-4	32331-3	0	5
2	20523	28.6043	165.5452	0135644		89.3252	272.2653	16.05579033			16
1	20523U	90	21	A	90	75.41000258	.00307833	27289-4	10755-2	0	6
2	20523	28.3060	158.3645	0100403		168.3100	192.0519	15.80197403			30
1	20523U	90	21	A	90	75.53628184	.00247923	16229-4	89741-3	0	7
2	20523	28.3084	157.4719	0096976		168.8504	191.2281	15.79983677			32
1	20523U	90	21	A	90	75.78892919	.00255820	17632-4	92163-3	0	8
2	20523	28.3083	155.6107	0096726		171.8947	188.3245	15.80111245			36
1	20523U	90	21	A	90	77.18764749	.00079443	00000-0	93438-3	0	17
2	20523	28.3408	145.5416	0018771		79.8698	280.3049	15.59739342			58

20523U	90	21	A	90	85.58340279	.00000160	00000-0	00000+0 0	26
20523	28.3150	85.4780	0140702		84.9470	9.4270	15.32261903		189
20523U	90	21	A	90	85.63176082	.00000150	00000-0	00000+0 0	27
20523	28.3465	85.0538	0133594		79.0196	282.9836	15.29993967		189
20523U	90	21	A	90	91.86893390	.00006348	00000-0	44586-3 0	32
20523	28.3502	44.0033	0018468		91.1849	268.6781	15.03002150		295

90-22A

Kosmos 2060

1	20525U	90	22	A	90	73.69988224	-.00000146	00000-0	00000+0	0	1
2	20525	65.0283	78.5078	0021986	280.9748	78.8906	15.50929351				1
1	20525U	90	22	A	90	79.75701731	.00017323	00000-0	28842-3	0	16
2	20525	65.0282	58.0383	0009691	268.2828	91.6731	15.52102051				95

20525U	90	22	A	90	93.73966068	-.00001025	00000-0	-14482-4	0	40
20525	65.0284	10.7731	0009954	266.7421	93.2392	15.52021148				312

90-23A

Kosmos 2061

1	20527U	90	23	A	90	79.07667400	.00000006	00000-0	00000+0	0	1
2	20527	82.9397	211.6557	0030684	273.3851	86.3490	13.71436268				0
1	20527U	90	23	A	90	79.22261369	.00002010	00000-0	22245-2	0	3
2	20527	82.9395	211.5500	0029884	273.4674	86.3050	13.71248223				2

90-24A

Kosmos 2062

Upp: 22 mars

0529U	90	81.35991403	0.00000835	-57963-5	0	1
0529	82.2875	315.8954	0032123	98.0633	263.6461	16.26081109
0529U	90-24A	90	81.91344662	0.00273960	-58169-5	91205-4 0
0529	82.3135	315.2302	0033461	79.1997	280.2321	16.24159551
20529U	90 24	A 90	83.58476434	.00224266	-18290-5	13889-3 0
20529	82.3217	313.2748	0027677	138.0622	222.4113	16.16974903
20529U	90 24	A 90	82.78011836	.00199170	-18549-5	12691-3 0
20529	82.3217	314.2205	0027654	141.0946	219.1847	16.16592252
20529U	90 24	A 90	83.58476434	.00224266	-18290-5	13889-3 0
20529	82.3217	313.2748	0027677	138.0622	222.4113	16.16974903
20529U	90 24	A 90	83.77039581	.00222141	-16830-5	13681-3 0
20529	82.3216	313.0564	0027655	137.1292	223.1997	16.17053417

20529U	90	24	A	90	84.63666649	.00225333	-16757-5	13487-3	0	11
20529	82.3211	312.0383	0027431	133.5562	226.8242	16.17448557				54
20529U	90	24	A	90	86.90244951	.00070584	95177-6	16788-3	0	17
20529	82.3299	309.4892	0099752	55.2985	305.7853	15.88216101				90
20529U	90	24	A	90	87.65848751	.00061074	48590-6	14448-3	0	18
20529	82.3295	308.6372	0099678	52.3746	308.6158	15.88302212				102
20529U	90	24	A	90	88.66648931	.00058578	28426-6	13792-3	0	19
20529	82.3287	307.5023	0099376	48.5578	312.4083	15.88418994				118
20529U	90	24	A	90	89.73740602	.00056843	28710-6	13310-3	0	20
20529	82.3290	306.2955	0099117	44.4292	316.5184	15.88550527				135
20529U	90	24	A	90	90.43029817	.00043353	-19666-6	10097-3	0	21
20529	82.3301	305.5145	0098841	41.8347	319.1174	15.88649079				146
20529U	90	24	A	90	90.68223772	-.00018326	00000-0	-43323-4	0	22
20529	82.3271	305.2325	0098719	41.2683	319.5957	15.88639321				150
20529U	90	24	A	90	91.06017241	.00027674	00000-0	64365-4	0	23
20529	82.3290	304.8047	0098609	39.3871	321.5635	15.88719881				156
20529U	90	24	A	90	91.62700999	.00043971	-18102-6	10225-3	0	25
20529	82.3257	304.1675	0098236	37.2117	323.5684	15.88765937				165
20529U	90	24	A	90	91.75298078	.00079957	17895-5	10225-3	0	27
20529	82.3294	304.0245	0041618	70.7411	293.6296	16.05358741				167
20529U	90	24	A	90	92.43797227	.00073002	00000-0	91876-4	0	28
20529	82.3279	303.2292	0041710	69.7616	290.8223	16.05462545				178

90-24 A

Kosmos 2062

parts. 1

20529U	90.24	A	90	92.74961500	.00082750	18497-5	10473-3	0	29
20529	82.3265		302.8711	0041543	68.7656	291.8283	16.05523749		183
20529U	90.24	A	90	92.74961500	.00082750	18497-5	10473-3	0	30
20529	82.3265		302.8711	0041543	68.7656	291.8283	16.05523749		183

90-25A

Narstar 2-7

Upp: 26 mars

20533U	90	25	A	90	85.21279353	-.00002406	16641-4	00000+0	0	1
20533		37.6172		15.0818	6056853	199.5009	120.4125	4.05713787		1
20533U	90	25	A	90	88.67271992	-.00000031	00000-0	00000+0	0	7
20533		54.9164		19.0639	0060499	188.0300	171.8757	2.03502952		0
20533U	90	25	A	90	91.62110994	-.00000032	00000-0	00000+0	0	8
20533		55.0806		18.9765	0029026	69.9628	273.4276	2.01071622		6
20533U	90	25	A	90	92.14180368	-.00000032	00000-0	00000+0	0	9
20533		55.0584		18.9949	0027907	68.4700	291.8780	2.01118259		7

90-26A

Kosmos 2063

Up: 27 mar 1

536U	90-26A	90	89.20767690	-.00000818			58551-2	0	7
536	62.7805	24.4594	7369017	318.1947	4.7206		2.00676170		6

90-27A

Offeq 2

Upp: 3 april

20540U	90	27	A	90	93.56349736	.00000710	00000-0	00000+0	0	1
20540	143.2193	102.7189	0948941		67.8147	301.8999	13.99214624			2
20540U	90	27	A	90	93.92040783	.00718323	-10175-4	26230-2	0	3
20540	143.2282	104.5116	0945871		70.1971	299.9628	13.99509532			6
0540U	90	27	A	90	120.18253721	.00487182	-13695-4	13455-2	0	81
0540	143.1962	242.4974	0827039		260.2409	90.4133	14.29380138			378
0540U	90	27	A	90	127.91727158	.00550401	-14284-4	14484-2	0	95
0540	143.1969	284.2769	0794774		317.7002	36.5764	14.37210269			489

90-28A

Pegsat

Upp: 5 april

0546U	90-28A	90	95.90858470	0.00348122		26841-1	0	2
0546	94.1511	176.7964	0132542	223.9226	135.0470	14.93316961		1
546U	90 28 A	90120.59484043	.00011783	00000-0	74850-3	0		75
546	94.1206	189.8327	0154010	142.7298	218.4808	14.99486387		370

90-28B

LISA 55

(SECS1)

Upp: 5 april

Small Experimental
Communications Sat.

547U	90 28	B 90	95.90845129	-.00000009	00000-0	00000+0	0	1
547	94.1509	176.7978	0125989	227.2546	131.6609	14.95197091	1	
547U	90 28	B 90	121.07153785	.00003825	00000-0	29416-3	0	75
547	94.1444	190.1440	0129508	136.6018	224.5437	14.95382452	377	

90-29A-H

Kosmos 2064-2071

Upp: 6 april

0549U	90 29	A 90	96.19637551	-.00000006	00000-0	00000+0	0	1
0549	73.9748	250.4028	0193772	69.5271	292.4365	12.32042666	0	0
550U	90 29	B 90	96.43999910	-.00000006	00000-0	00000+0	0	1
550	74.0222	249.4928	0024174	148.0135	241.1053	12.51609019	4	4
551U	90 29	C 90	96.43999910	-.00000007	00000-0	00000+0	0	1
551	74.0028	250.1053	0046630	83.4398	301.3854	12.59488389	4	4
552U	90 29	D 90	96.51409112	-.00000007	00000-0	00000+0	0	2
552	73.9838	249.9969	0040017	94.0738	264.3717	12.57643576	5	5
553U	90 29	E 90	96.51409112	-.00000006	00000-0	00000+0	0	1
553	73.9883	249.9854	0030089	82.9708	273.4672	12.55979886	5	5
554U	90 29	F 90	96.51409112	-.00000006	00000-0	00000+0	0	1
554	73.9901	250.0273	0021162	75.7366	278.5901	12.54258206	6	6
555U	90 29	G 90	96.51409112	-.00000007	00000-0	00000+0	0	1
555	74.0011	250.0068	0015500	54.1504	298.0944	12.52450276	6	6
556U	90 29	H 90	96.59351616	-.00000006	00000-0	00000+0	0	1
556	73.9809	249.9211	0001605	58.6635	288.8127	12.50723930	6	6

90-30A

Asiasat 1

Upp: 7 april fr. Xichang

558U 90-030A	90101.10103137	-.00000112				10000-3 0	8
558	0.2714	9.4843	0089107	215.5685	134.1490	0.98887344	6
558U 90-30A	90109.13167367	-.00000306				10000-3 0	16
558	0.1739	299.6773	0000832	185.8615	234.4734	1.00271475	14
20559U 90-30B	90109.93218184	0.00018317				58938-2 0	15
20559	31.2357	19.3480	7325959	185.7385	155.1815	2.22260654	28

90-32A

Foton 3

Upp: 11 april

Ned: 27 april

0566U	90	32	A	90101.82171168	-.00000557	00000-0	00000+0	0	1
0566	62.8022	44.3564	0118416	111.0153	250.2383	15.91922229			1
0566U	90	32	A	90102.01017841	.00220315	91211-5	33260-3	0	2
0566	62.7998	43.6214	0119475	111.0874	250.3246	15.91999257			4
0566U	90	32	A	90102.63823726	.00188926	92708-5	28195-3	0	4
0566	62.8000	41.1817	0119169	111.2998	250.0589	15.92248518			14
0566U	90	32	A	90103.32900907	.00175103	94368-5	25909-3	0	5
0566	62.8007	38.4962	0118433	111.3777	250.0125	15.92517119			25
0566U	90	32	A	90103.70574102	.00191469	94794-5	28075-3	0	6
0566	62.8006	37.0329	0118236	111.3879	249.9922	15.92663753			31
0566U	90	32	A	90103.70574102	.00191469	94794-5	28075-3	0	7
0566	62.8006	37.0329	0118236	111.3879	249.9922	15.92663753			31
0566U	90	32	A	90105.65167303	.00189610	95362-5	26970-3	0	9
0566	62.8026	29.4642	0116479	111.5017	249.9354	15.93403197			62

566U	90	32	A	90106.46741566	.00195061	96931-5	27494-3	0	10
566	62.8013	26.2883	0115251	111.7042	249.7153	15.93739506			75
566U	90	32	A	90106.90658264	.00160212	96878-5	22618-3	0	11
566	62.7995	24.5753	0114530	111.7173	249.5936	15.93883580			82
566U	90	32	A	90107.47119439	.00193916	96781-5	26946-3	0	12
566	62.8000	22.3767	0114166	111.7689	249.6602	15.94129092			91
20566U	90	32	A	90107.76480594	.00192273	98694-5	26601-3	0	13
20566	62.8008	21.1566	0113840	111.9046	249.4293	15.94250492			96
20566U	90	32	A	90107.91024980	.00226882	98460-5	31205-3	0	14
20566	62.7997	20.6650	0113524	111.9227	249.4849	15.94356776			98
20566U	90	32	A	90108.72547072	.00216680	10063-4	29190-3	0	15
20566	62.8021	17.4895	0113191	111.7683	249.4578	15.94718882			111
20566U	90	32	A	90108.97629842	.00233975	98998-5	31419-3	0	16
20566	62.7995	16.5090	0112436	111.9790	249.4482	15.94877188			115
20566U	90	32	A	90109.66589261	.00234187	10196-4	31048-3	0	17
20566	62.7998	13.8195	0111584	112.0779	249.2285	15.95205180			126
20566U	90	32	A	90110.10466354	.00309255	10180-4	40623-3	0	18
20566	62.8001	12.1050	0110835	112.2239	249.0269	15.95420962			133
20566U	90	32	A	90110.41803792	.00224863	10287-4	29504-3	0	19
20566	62.8011	10.8835	0110572	112.1784	249.0403	15.95531336			138
20566U	90032	A	90113.04932776	.00236826	00000-0	00000-0	0	0023	
20566	062.8013	000.5992	0105996	113.3808	247.9450	15.9675999100180			

90-32A

Foton 3

font 5.1

566U	90032	A	90114.92748548	.00242799	00000-0	00000-0	0	00258
566	062.8024		353.2497	0102865	113.7142	247.5758	15.97726075002107	
566U	90032	A	90116.05383391	.00254108	00000-0	00000-0	0	00296
566	062.8016		348.8359	0101953	113.6456	247.6354	15.98315097002289	
566U	90 32	A	90116.11637791	.00252636	11064-4	29569-3	0	710
566	62.7982		348.5901	0103221	112.8881	248.2816	15.98346495	2291
566U	90 32	A	90116.11637791	.00252636	11064-4	29569-3	0	721
566	62.7982		348.5901	0103221	112.8881	248.2816	15.98346495	2291
566U	90 32	A	90116.74194696	.00165697	10996-4	19352-3	0	735
566	62.7979		346.1359	0102701	113.2850	247.7728	15.98546594	2390
566U	90 32	A	90117.11728503	.00188500	10873-4	22179-3	0	741
566	62.7976		344.6680	0101010	113.5361	247.6468	15.98691989	2455
566U	90 32	A	90117.42995036	.01947409	11166-4	21677-2	0	752
566	62.7920		343.4460	0099418	117.0045	244.0075	15.99525343	2505

90-33A

Kosmos 2072

Upp: 13 apr 71

0568U	90	33	A	90103.84307989	-.00005128	35361-4	00000+0	0	1
0568	64.7763	160.3687	0052626	56.1031	304.5253	16.20553550			1
0568U	90	33	A	90103.96650121	-.00005084	35166-4	00000+0	0	2
0568	64.7510	159.8203	0095495	72.0315	284.6485	16.10670203			3
0568U	90	33	A	90104.15146652	.03140055	35571-4	11059-2	0	4
0568	64.7774	159.1978	0047905	61.7908	298.4183	16.21525795			6
0568U	90	33	A	90104.21319971	.00401635	35295-4	15152-3	0	5
0568	64.7661	158.9213	0059272	57.9923	299.4183	16.19350281			7
0568U	90	33	A	90104.52247177	.00484621	13013-3	42911-3	0	7
0568	64.7667	157.7536	0027258	30.7755	329.3713	16.11766950			12
0568U	90	33	A	90104.77066719	.00296093	44424-4	42911-3	0	8
0568	64.7646	156.8336	0035162	95.3517	260.0880	16.03708336			16
0568U	90	33	A	90105.39507130	.00414965	84632-4	58444-3	0	9
0568	64.7668	154.5393	0035145	93.2358	267.3468	16.04151077			26

0568U	90	33	A	90105.76907876	.00318809	51356-4	44371-3	0	10
0568	64.7647	153.1583	0034991	93.2459	267.1865	16.04364328			32
0568U	90	33	A	90106.51699132	.00316617	50935-4	42866-3	0	11
0568	64.7638	150.4000	0034743	92.8429	267.5970	16.04821139			44
0568U	90	33	A	90107.45157598	.00324648	54064-4	42452-3	0	12
0568	64.7642	146.9508	0034111	92.0866	268.3899	16.05417339			59
20568U	90	33	A	90109.63069357	.00404878	84607-4	47762-3	0	17
20568	64.7652	138.8939	0032434	91.3067	269.2336	16.07132671			94
20568U	90	33	A	90110.12843620	.00389450	78724-4	44976-3	0	18
20568	64.7644	137.0503	0032143	90.4013	269.9540	16.07479606			102
20568U	90	33	A	90110.37729730	.00391080	79800-4	44638-3	0	19
20568	64.7651	136.1282	0032030	90.4417	270.0297	16.07668801			106
20568U	90033	A	90111.74533467	.00421561	00000-0	00000-0	0	0	0022
20568	064.7623	131.0467	0036499	091.0055	269.5191	16.0886540800128			
20568U	90033	A	90113.05021398	.00449317	00000-0	00000-0	0	0	0025
20568	064.7651	126.2010	0035561	088.7970	271.7169	16.1004642200149			
20568U	90033	A	90113.67121841	.00519051	00000-0	00000-0	0	0	0026
20568	064.7640	123.8913	0035123	088.9121	271.5968	16.1072288700159			
20568U	90033	A	90114.72634861	.00545209	00000-0	00000-0	0	0	0029
20568	064.7646	119.9590	0034153	088.3513	272.1464	16.1186077600176			

90-33A

Kosmos 2072

parts, 1

568U	90033	A	90114.72634861	.00545209	00000-0	00000-0	0	0029
568	064.7646		119.9590 0034153	088.3513	272.1464	16.1186077600176		
568U	90033	A	90115.28500202	.00529999	00000-0	00000-0	0	0031
568	064.7493		117.8815 0049210	112.2401	248.3881	16.0715372600185		
568U	90033	A	90116.09667006	.00529999	00000-0	00000-0	0	0036
568	064.7590		114.9079 0050102	086.3184	274.3610	16.0197419500198		
568U	90033	A	90116.03423978	.00529999	00000-0	00000-0	0	0035
568	064.7628		115.1330 0049641	085.6832	274.9904	16.0195558900197		
568U	90 33	A	90116.15909617	.00286477	40887-4	43952-3	0	71
568	64.7616		114.6706 0044543	84.8598	275.8376	16.02027535		199
568U	90 33	A	90116.72085261	.00321136	50614-4	48153-3	0	72
568	64.7611		112.6035 0044400	84.4436	276.2439	16.02402060		208
568U	90 33	A	90117.09527623	.00302515	45656-4	44892-3	0	73
568	64.7605		111.2281 0044118	84.3982	276.1451	16.02599713		214
0568U	90 33	A	90126.75007313	.00311354	53135-4	33046-3	0	92
0568	64.7604		75.5564 0036813	79.5240	280.9318	16.08417714		369

20568U	90	33	A	90129.48436906	.00357895	70763-4	33803-3 0	95
20568	64.7620	65.4015	0035401	77.4105	283.0091	16.10245051	413	
20568U	90	33	A	90129.79489637	.00369704	75481-4	34457-3 0	96
20568	64.7619	64.2459	0034792	77.7138	282.8238	16.10485436	418	
20568U	90	33	A	90130.04326593	.00390053	83796-4	35983-3 0	97
20568	64.7601	63.3212	0033809	78.1110	282.4698	16.10708966	422	
20568U	90	33	A	90130.10533904	.00296941	46996-4	35983-3 0	98
20568	64.7647	63.0908	0023765	100.6273	258.7820	16.07270887	423	
20568U	90	33	A	90130.16772849	.00247720	32327-4	35983-3 0	99
20568	64.7607	62.8609	0036175	87.0526	272.6414	16.03611512	424	
20568U	90	33	A	90131.22787476	.00306284	47479-4	42941-3 0	101
20568	64.7617	58.9517	0035523	86.9268	273.6206	16.04209335	441	
20568U	90	33	A	90131.72654454	.00304511	47169-4	41928-3 0	102
20568	64.7609	57.1124	0035380	86.6917	273.8101	16.04508363	449	
20568U	90	33	A	90132.28744514	.00313541	50208-4	42286-3 0	103
20568	64.7619	55.0427	0035088	86.6058	273.9126	16.04859349	458	
20568U	90	33	A	90132.72361254	.00319513	52280-4	42392-3 0	104
20568	64.7610	53.4356	0034791	86.1631	274.3554	16.05139674	465	
20568U	90	33	A	90133.90710463	.00331011	56513-4	42018-3 0	105
20568	64.7618	49.0650	0033867	86.1627	274.2603	16.05900007	484	
20568U	90	33	A	90134.21849249	.00315318	51759-4	39624-3 0	106
20568	64.7602	47.9088	0033609	85.3168	275.1823	16.06079485	489	

90-33A

Kosmos 2072

font 15.2

20568U	90 33 A	90134.59207105	.00333600	57656-4	41309-3 0	108
20568	64.7603	46.5278 0033464	85.4515	275.0343	16.06316224	495
20568U	90 33 A	90137.70292724	.00376703	75181-4	40915-3 0	112
20568	64.7591	35.0095 0031382	83.6910	276.7188	16.08506979	545
20568U	90 33 A	90138.92176380	.00401146	86151-4	41311-3 0	113
20568	64.7601	30.8514 0029593	84.7019	275.8216	16.09392745	563
20568U	90 33 A	90140.80399498	.00487855	13095-3	44575-3 0	118
20568	64.7586	23.4525 0027231	82.9474	277.4582	16.11312763	595
20568U	90 33 A	90141.61563969	.00514722	14779-3	44596-3 0	120
20568	64.7532	20.4457 0026529	82.1750	278.2032	16.12127698	608
20568U	90 33 A	90141.98780590	.00347348	61806-4	44596-3 0	121
20568	64.7454	19.1038 0026342	79.8003	278.9275	16.06208568	614
20568U	90 33 A	90142.43597131	.00302683	46310-4	43457-3 0	123
20568	64.7532	17.2188 0035062	85.3211	275.1291	16.03790091	622
0568U	90 33 A	90143.79608969	.00353339	62628-4	48018-3 0	127
0568	64.7587	12.3935 0035242	84.6668	275.8778	16.04719628	643

0568U	90	33	A	90145.72734649	.00308947	49640-4	39425-3	0	132
0568	64.7584	5.2611	0033286	83.6171	276.8403	16.05863058	674		
0568U	90	33	A	90146.53681348	.00336656	58644-4	41592-3	0	133
0568	64.7556	2.2630	0032410	82.7205	277.8847	16.06425704	687		
0568U	90	33	A	90147.90599793	.00352262	65065-4	41187-3	0	136
0568	64.7572	357.1925	0031192	81.8173	278.6652	16.07362487	709		
0568U	90	33	A	90149.64748919	.00296785	48330-4	32542-3	0	139
0568	64.7561	350.7364	0029834	80.3564	280.0682	16.08448415	737		
0568U	90	33	A	90150.51781523	.00312817	53645-4	33124-3	0	141
0568	64.7562	347.5049	0029192	79.7697	280.7756	16.09015214	751		
0568U	90	33	A	90154.61649855	.00323739	59975-4	28960-3	0	154
0568	64.7547	332.2523	0026065	74.2766	286.1653	16.11710421	817		
0568U	90	33	A	90154.80263547	.00244571	33495-4	28960-3	0	155
0568	64.7568	331.5578	0020242	113.4216	245.6817	16.07821543	820		
0568U	90	33	A	90154.86504708	.00199184	22630-4	28960-3	0	156
0568	64.7539	331.3278	0034544	96.8955	262.6895	16.03743699	821		
0568U	90	33	A	90155.11463296	.00117577	11295-4	17186-3	0	157
0568	64.7533	330.4068	0034789	96.2358	264.2017	16.03743343	825		
0568U	90	33	A	90158.35578416	.00237433	30926-4	31563-3	0	163
0568	64.7520	318.4485	0033103	94.0528	266.4429	16.05256953	877		

90-33A

Kosmos 2072

font. 3

0568U	90	33	A	90164.14307258	.00453293	10906-3	47692-3	0	173
0568	64.7530	297.0106	0028048	87.0263	273.5528	16.09169837	970		
0568U	90	33	A	90167.18570110	.00393111	86416-4	34966-3	0	181
0568	64.7523	285.6859	0025334	82.6676	277.6165	16.11826877	1019		
0568U	90	33	A	90167.49592637	.00386291	83900-4	33824-3	0	182
0568	64.7526	284.5297	0025173	82.5184	277.8835	16.12064808	1024		
0568U	90	33	A	90167.61999583	.00292851	46375-4	33824-3	0	183
0568	64.7596	284.0683	0023582	122.9696	236.0969	16.08027191	1026		
0568U	90	33	A	90167.68240813	.00236130	29987-4	33824-3	0	185
0568	64.7540	283.8356	0034203	96.9026	262.6233	16.03986654	1027		
0568U	90	33	A	90167.74492622	.00234092	29401-4	33824-3	0	186
0568	64.7533	283.6055	0034949	96.3910	264.0748	16.03793078	1028		
0568U	90	33	A	90168.24374943	.00284365	41324-4	40451-3	0	187
0568	64.7500	281.7668	0034534	95.9911	264.5260	16.04054318	1036		
0568U	90	33	A	90170.79889416	.00280801	41400-4	36853-3	0	194
0568	64.7517	272.3336	0033432	93.9828	266.5458	16.05418374	1077		

0568U	90	33	A	90171.73313285	.00285928	43259-4	36355-3	0	195
0568	64.7514	268.8827	0033091	94.1029	266.3460	16.05941236	1092		
0568U	90	33	A	90175.65392392	.00273587	41461-4	30884-3	0	202
0568	64.7500	254.3600	0030361	88.9361	271.4545	16.07975804	1155		
0568U	90	33	A	90177.51918513	.00268568	40854-4	28594-3	0	205
0568	64.7476	247.4348	0028837	87.0144	273.4126	16.08968803	1185		
568U	90	33	A	90181.99067976	.00345517	67672-4	30750-3	0	213
568	64.7481	230.7937	0026323	82.4233	277.9877	16.11763929	1257		
568U	90	33	A	90183.41734268	.00269637	40346-4	30592-3	0	215
568	64.7404	225.4674	0019081	130.0665	229.0538	16.08528571	1280		
568U	90	33	A	90183.47971599	.00218111	26530-4	30592-3	0	216
568	64.7477	225.2365	0031572	95.3332	264.1964	16.04517349	1281		
568U	90	33	A	90183.97845072	.00209917	25012-4	28926-3	0	218
568	64.7462	223.3971	0031411	93.4395	267.0443	16.04815994	1289		
568U	90	33	A	90185.47368720	.00250810	33975-4	32970-3	0	221
568	64.7471	217.8718	0030969	92.8019	267.6461	16.05573120	1313		
568U	90	33	A	90188.77306393	.00287745	44751-4	33874-3	0	225
568	64.7458	205.6604	0029342	90.4049	269.9429	16.07393656	1366		
568U	90	33	A	90191.63362235	.00279021	43639-4	29815-3	0	232
568	64.7447	195.0426	0027582	88.8911	271.4447	16.08990565	1412		

90-33A

Kosmos 2072

Ants. 4

20568U	90 33	A	90192.13083563	.00241242	34056-4	25418-3 0	233
20568	64.7429	193.1920	0027034	88.4083	272.0184	16.09250953	1420
20568U	90 33	A	90192.50368419	.00288344	46743-4	29863-3 0	234
20568	64.7438	191.8084	0027055	88.6151	271.8809	16.09492802	1426
20568U	90 33	A	90193.31131595	.00248626	34456-4	29863-3 0	235
20568	64.7443	188.8063	0036592	105.4018	253.7877	16.06575900	1439
20568U	90033	A	90193.43617953	.00272508	00000-0	00000-0 0	0236
20568	64.7363	188.3582	0043967	077.3462	283.2520	16.036460830	1442
20568U	90 33	A	90198.29729772	.00234176	30588-4	30069-3 0	245
20568	64.7441	170.4010	0033539	83.1123	277.4639	16.05775162	1519
20568U	90 33	A	90199.35590119	.00228757	29607-4	28676-3 0	247
20568	64.7426	166.4828	0032487	83.0991	277.3863	16.06227759	1536
20568U	90 33	A	90201.40995454	.00291351	45655-4	34359-3 0	251
20568	64.7427	158.8739	0031157	81.5563	278.9858	16.07244093	1569
20568U	90 33	A	90202.90292421	.00267013	39915-4	29947-3 0	254
20568	64.7424	153.3385	0031235	80.8284	279.5944	16.08018665	1593
20568U	90 33	A	90205.57607376	.00277766	43983-4	28617-3 0	257
20568	64.7435	143.4137	0029333	79.9310	280.4994	16.09429760	1636

568U	90	33	A	90208.92936887	.00312318	56107-4	28225-3	0	262
568	64.7425	130.9229	0026157	73.0896	282.3916	16.11558420	1690		
568U	90	33	A	90209.23961754	.00194663	21921-4	28225-3	0	263
568	64.7409	129.7755	0035461	87.3629	268.2041	16.03724240	1695		
568U	90	33	A	90211.23524503	.00303766	47424-4	40950-3	0	269
568	64.7415	122.4070	0034220	85.5695	275.0683	16.04931764	1727		
568U	90	33	A	90212.10750590	.00255838	35118-4	33746-3	0	272
568	64.7420	119.1862	0033568	85.3712	275.1982	16.05337633	1741		
568U	90	33	A	90217.39785062	.00264425	39387-4	29256-3	0	281
568	64.7419	99.5901	0029686	82.1492	278.2254	16.08331407	1826		
568U	90	33	A	90220.39085676	.00319277	56783-4	31525-3	0	289
568	64.7406	83.5001	0027762	80.4611	279.9461	16.10152359	1874		
20568U	90	33	A	90223.54643242	.00359234	73601-4	30957-3	0	297
20568	64.7379	76.6989	0025449	78.6089	281.7796	16.12262933	1925		
568U	90	33	A	90223.91857191	.00267836	39550-4	30957-3	0	298
568	64.7366	75.3100	0021012	124.3472	234.6641	16.08152923	1931		
568U	90	33	A	90223.98098404	.00214659	25576-4	30957-3	0	299
568	64.7387	75.0790	0034324	95.7029	263.7741	16.03879735	1932		
20568U	90	33	A	90225.72676619	.00243191	31814-4	33653-3	0	304
20568	64.7397	68.6378	0033889	95.1805	265.3271	16.04559110	1960		

90-33A

Kosmos 2072

for ts. 5

0568U	90	33	A	90226.59921318	.00256784	35159-4	34628-3	0	306
0568	04.7387	65.4149	0033198	94.2213	266.2848	16.05013536	1974		
20568U	90	33	A	90228.03199009	.00303830	48011-4	39229-3	0	309
20568	64.7385	60.1172	0031570	92.8216	267.7244	16.05799502	1997		
20568U	90	33	A	90229.65073963	.00307502	49994-4	37416-3	0	312
20568	64.7386	54.1252	0031017	92.1512	268.3067	16.06765713	2023		
20568U	90	33	A	90230.52196825	.00267740	39267-4	31725-3	0	313
20568	64.7364	50.8942	0029764	90.1679	270.2364	16.07272015	2037		
20568U	90	33	A	90231.70388787	.00328614	57768-4	36947-3	0	316
20568	64.7370	46.5139	0029785	90.4325	270.0274	16.08061914	2056		
20568U	90	33	A	90233.44450290	.00391411	82121-4	40640-3	0	320
20568	64.7365	40.0456	0027965	88.3078	272.0066	16.09377298	2084		
0568U	90	33	A	90240.84146097	.00286832	43844-4	35566-3	0	339
0568	64.7366	12.5553	0028985	92.8439	267.5876	16.06609169	2203		
0568U	90	33	A	90243.70307494	.00397697	83534-4	43457-3	0	346
0568	64.7346	1.9405	0026970	88.4567	271.9255	16.08666267	2249		
0568U	90	33	A	90245.25674184	.00378241	77309-4	38522-3	0	349
0568	64.7349	356.1615	0025023	86.6159	273.8111	16.09794295	2274		

0568U	90	33	A	90247.74033286	.00364053	74245-4	33030-3	0	354
0568	64.7348	346.9102	0024931	84.2397	276.1614	16.11565026	2314		
0568U	90	33	A	90248.73298249	.00398818	89789-4	34292-3	0	356
0568	64.7337	343.2042	0024599	82.0936	278.3486	16.12360705	2330		
0568U	90033	A	90249.60165562	.00398817	00000-0	00000-0	0	0	0357
0568	64.7325	339.9677	0035109	099.6157	260.8874	16.047052680	2344		
0568U	90	33	A	90250.53634707	.00421621	88940-4	56928-3	0	364
0568	64.7358	336.5103	0028885	97.8501	262.7446	16.05251511	2359		
0568U	90	33	A	90255.08059261	.00393359	80841-4	44934-3	0	373
0568	64.7321	319.6765	0026573	94.1957	266.3725	16.08011032	2432		
0568U	90	33	A	90256.69696347	.00294614	48286-4	31216-3	0	376
0568	64.7313	313.6734	0025670	91.3014	269.0296	16.09230335	2458		
0568U	90	33	A	90260.35999539	.00508353	14537-3	43492-3	0	381
0568	64.7304	300.0190	0022930	88.9867	271.5780	16.12525246	2517		
0568U	90	33	A	90261.22800896	.00736972	32111-3	59766-3	0	383
0568	64.7286	296.7716	0021467	89.1386	271.1727	16.13395570	2531		
0568U	90	33	A	90261.41395749	.00533270	15114-3	59766-3	0	384
0568	64.7298	296.0795	0018892	157.0840	201.8309	16.08705192	2534		
0568U	90	33	A	90261.47634438	.00425826	89681-4	59766-3	0	385
0568	64.7264	295.8472	0030208	99.4067	259.9146	16.04546973	2535		

90-33A

Kosmos 2072

font. 6

20568U	90 33	A	90261.72583269	.00267028	37232-4	37222-3 0	386
20568	64.7265	294.9261	0030052	99.2629	261.1651	16.04690949	2539
20568U	90 33	A	90263.34560468	.00333894	57137-4	43541-3 0	389
20568	64.7257	288.9358	0029141	98.6551	261.6798	16.05796119	2565
20568U	90 33	A	90265.58655755	.00406968	85894-4	48055-3 0	394
20568	64.7285	280.6332	0027692	96.9688	263.4954	16.07432636	2601
20568U	90 33	A	90268.57082314	.00414098	91977-4	42391-3 0	402
20568	64.7256	269.5434	0025768	95.0131	265.3858	16.09722718	2649
568U	90 33	A	90269.06777394	.00350401	67289-4	35242-3 0	403
568	64.7271	267.6941	0024884	94.0412	266.2685	16.10047210	2657
568U	90 33	A	90270.24758366	.00379613	79519-4	35842-3 0	409
568	64.7244	263.2968	0024933	94.5935	265.7040	16.10978000	2676
568U	90 33	A	90272.04704068	.00230015	33883-4	19894-3 0	413
568	64.7265	256.5850	0023799	89.5111	270.7764	16.12368823	2705
568U	90 33	A	90272.23312756	.00188985	23903-4	19894-3 0	414
568	64.7244	255.8856	0037193	112.2629	246.7461	16.08571330	2708
568U	90 33	A	90272.35772760	.00142035	14351-4	19894-3 0	415
568	64.7241	255.4258	0031905	84.5679	275.0046	16.04589459	2710

0568U	90	33	A	90274.28936745	.00290875	44110-4	38202-3	0	419
0568	64.7250	248.2828	0030838	84.6281	275.7035	16.05581747	2741		
0568U	90	33	A	90282.74622342	.00431217	10290-3	39104-3	0	434
0568	64.7221	216.8714	0026169	90.1785	280.2279	16.11491301	2877		
0568U	90033	A	90283.36670629	.00446184	00000-0	00000-0	0	0	0436
0568	64.7192	214.5526	0032903	081.4637	279.0159	16.1206386802887			
0568U	90033	A	90284.11112699	.00565556	00000-0	00000-0	0	0	0438
0568	64.7221	211.7724	0023185	108.4320	251.9264	16.0807948802899			
0568U	90	33	A	90284.17288297	.00439278	95433-4	61247-3	0	440
0568	64.7125	211.5862	0032375	116.1212	241.1783	16.04509071	2900		
0568U	90	33	A	90284.17289159	.00339662	57832-4	46775-3	0	441
0568	64.7259	211.5507	0035554	88.9344	268.2425	16.04486234	2901		
0568U	90	33	A	90286.72746134	.00391225	78133-4	48651-3	0	445
0568	64.7212	202.0934	0031317	86.4412	273.9514	16.06391961	2941		
0568U	90	33	A	90289.52712841	.00438685	10144-3	47587-3	0	450
0568	64.7208	191.7072	0029367	84.7206	275.7102	16.08622086	2986		
0568U	90	33	A	90290.77007935	.00462165	11454-3	46821-3	0	451
0568	64.7199	187.0852	0028241	84.5058	275.8067	16.09723899	3006		
0568U	90	33	A	90291.51553816	.00441656	10566-3	43201-3	0	453
0568	64.7193	184.3053	0027118	83.6565	276.9579	16.10318071	3018		

90-33A

Kosmos 2072

font 7

0568U	90	33	A	90293.87375910	.00549883	17080-3	46239-3	0	457
0568	64.7194	175.5021	0024506	82.9377	277.4578	16.12682804	3056		
0568U	90	33	A	90293.99777902	.00394695	81197-4	46239-3	0	458
0568	64.7222	175.0539	0022442	124.1072	234.9204	16.07850009	3058		
0568U	90	33	A	90293.99800409	.00384069	76580-4	46239-3	0	459
0568	64.7182	175.0490	0017966	132.4083	227.9606	16.07628614	3058		
0568U	90	33	A	90294.06019353	.00335387	56609-4	46239-3	0	460
0568	64.7169	174.8129	0031493	83.1799	276.3913	16.04756014	3059		
0568U	90	33	A	90294.74575783	.00346909	60905-4	46566-3	0	461
0568	64.7179	172.2760	0030809	83.0163	277.4568	16.05227074	3070		
0568U	90	33	A	90296.17821118	.00295477	45832-4	37441-3	0	464
0568	64.7160	166.9751	0029807	82.4333	277.9527	16.06213350	3093		
20568U	90	33	A	90296.73852577	.00351866	64051-4	43446-3	0	465
20568	64.7174	164.8994	0029815	81.9374	278.5676	16.06608705	3102		
20568U	90	33	A	90298.23194023	.00393901	80921-4	45408-3	0	467
20568	64.7160	159.3592	0028643	81.1277	279.3632	16.07743573	3126		
0568U	90	33	A	90299.10260435	.00394750	82175-4	43671-3	0	469
0568	64.7135	156.1257	0028205	80.0583	280.3652	16.08401643	3140		

20568U	90	33	A	90299.47563754	.00362999	70189-4	39591-3	0	470
20568	64.7136	154.7395	0027993	79.8805	280.4712	16.08634538	3146		
20568U	90	33	A	90299.78647263	.00369842	73063-4	39733-3	0	471
20568	64.7153	153.5814	0027970	79.6185	280.8077	16.08864264	3151		
20568U	90	33	A	90300.71866217	.00390241	82017-4	40150-3	0	473
20568	64.7159	150.1138	0026890	78.1264	282.2893	16.09582085	3166		
20568U	90033	A	90302.58179295	.00387704	00000-0	00000-0	0	0	0475
20568	064.7153	143.1691	0031991	079.4902	280.9770	16.1103160303196			
20568U	90033	A	90303.89933142	.00317497	00000-0	00000-0	0	0	0480
20568	064.7157	135.3251	0037931	092.4044	268.1364	16.0522293203217			
20568U	90	33	A	90306.50471534	.00309771	50665-4	37781-3	0	522
20568	64.7127	128.6433	0030314	88.2192	272.2423	16.06775412	3259		
20568U	90	33	A	90308.37131588	.00319978	54778-4	36471-3	0	525
20568	64.7110	121.7142	0029055	85.6841	274.8149	16.07901369	3289		
20568U	90	33	A	90310.60936576	.00352410	67281-4	36508-3	0	529
20568	64.7127	113.3937	0027987	83.8714	276.5714	16.09413914	3325		
20568U	90	33	A	90311.72757711	.00387857	81970-4	38030-3	0	530
20568	64.7132	109.2310	0027244	82.8919	277.6603	16.10277063	3343		
20568U	90	33	A	90312.73303518	.00440138	10657-3	40687-3	0	532
20568	64.7136	105.2948	0026218	81.3635	279.0510	16.11206663	3360		

90-33A

Kosmos 2072

font 5.8

20568U	90 33 A	90314.70604120	.00540059	16615-3	43775-3 0	538
20568	64.7135	98.1082 0024948	79.5829	280.9175	16.13180560	3391
20568U	90 33 A	90315.07793710	.00483557	79064-5	43775-3 0	539
20568	64.7123	96.7117 0035106	75.0587	284.2179	16.10842486	3397
20568U	90 33 A	90315.20231108	.00403644	85776-4	43775-3 0	540
20568	64.7118	96.2526 0032340	57.2359	302.6316	16.08420187	3399
20568U	90 33 A	90316.69409438	.00430051	99075-4	43245-3 0	544
20568	64.7079	90.7026 0031119	57.3092	303.0258	16.09638437	3423
20568U	90 33 A	90317.68793782	.00421517	96728-4	40249-3 0	546
20568	64.7112	86.9994 0030451	55.0777	304.3149	16.10451488	3439
20568U	90 33 A	90321.10013452	.00585878	87407-5	44823-3 0	553
20568	64.7088	74.2504 0028656	52.6932	307.8240	16.13708208	3494
20568U	90 33 A	90322.58668360	.00588030	94353-5	40063-3 0	555
20568	64.7119	68.6762 0026847	51.6308	308.7284	16.15432657	3518
20568U	90 33 A	90323.32936556	.00583449	97414-5	37387-3 0	556
20568	64.7101	65.8869 0026243	51.6581	308.6819	16.16302780	3530
20568U	90 33 A	90323.76241542	.00587164	10289-4	36208-3 0	557
20568	64.7102	64.2578 0026135	51.1834	309.1971	16.16824167	3537

20568U 90 33 A 90324.62808865 .00696770 10531-4 39767-3 0 558
20568 64.7105 60.9968 0025058 49.2931 311.0971 16.17907567 3551

90-34A

Palapa-B2R

Lpp: 13 April fr. Cape Canaveral

20570U	90-34A	90109.09810604	-.00000335			10000-3 0	6
20570	0.0555	288.6812	0027826	205.0635	226.4799	1.00284813	1
0571U	90 34 B	90103.98722099	.00000199	00000-0		11499-4 0	1
0571	22.7527	354.5520	0630013	163.9668	198.1715	13.81572014	0
20572U	90-34C	90107.42000401	0.00047324			48196-2 0	8
20572	18.9110	358.5969	7396580	181.2215	174.3960	2.16009140	7

90-35A

Kosmos 2073

Upp: 17 april

Ned: 28 april

0573U	90	35	A	90107.38859990	.00000831	-56614-5	00000+0	0	1
0573	82.3503	351.5506	0050233	99.4629	267.2819	16.23756118			1
0573U	90	35	A	90107.57244987	.00038202	-55323-5	11021-4	0	2
0573	82.3341	351.3550	0047688	103.7286	257.1271	16.23935986			4
0573U	90	35	A	90107.75728043	.00292196	-57683-5	85486-4	0	3
0573	82.3463	351.1867	0046890	102.6830	258.0307	16.24091035			7
0573U	90	35	A	90107.81888514	.00557075	-58430-5	16239-3	0	4
0573	82.3476	351.1171	0046473	102.5073	258.1566	16.24198005			8
0573U	90	35	A	90107.94210043	.00274864	-54412-5	16239-3	0	5
0573	82.3635	350.9848	0073242	64.6734	290.8778	16.12299515			10
20573U	90	35	A	90108.06714824	.00116102	47203-5	16239-3	0	6
20573	82.3633	350.8338	0049508	89.1973	268.7111	16.03240742			12
20573U	90	35	A	90108.56694281	.00142072	74624-5	19726-3	0	7
20573	82.3627	350.2596	0049481	86.5619	274.1210	16.03365679			20

205730	90	35	A	90108.94140008	.00217009	18968-4	29995-3	0	8
20573	82.3612	349.8311	0049361	85.0855	275.5590	16.03463149			26
205730	90	35	A	90109.44063415	.00100298	31998-5	13793-3	0	9
20573	82.3613	349.2587	0049121	83.7523	276.7866	16.03536158			34
205730	90	35	A	90109.69027465	.00109686	39364-5	15014-3	0	10
20573	82.3625	348.9721	0049299	82.3784	278.3072	16.03593954			38
205730	90	35	A	90110.12707878	.00071059	00000-0	95922-4	0	11
20573	82.3631	348.4699	0049156	81.2946	279.3870	16.03683751			45
205730	90	35	A	90110.31427449	.00109224	39285-5	14837-3	0	12
20573	82.3627	348.2564	0049171	79.9622	280.7214	16.03727067			48
205730	90035	A	90112.12334853	.00108773	00000-0	00000-0	0	0	0015
20573	082.3609	346.1849	0044946	081.2086	279.4922	16.0598791900077			
205730	90035	A	90113.05791589	.00108773	00000-0	00000-0	0	0	0016
20573	032.3590	345.1061	0044296	078.4256	282.2634	16.0621499000092			

90-36A

Kosmos 2074

Upp: 20 april

577U 90036 A 90110.83758457 .00000000 00000-0 00000-0 0 0001
577 082.9372 156.9145 0006920 282.4162 077.6761 13.7324274600001

90-37A

STS-31

Upp: 24 April fr. Cape Canaveral

579U	90037	A	90114.50928168	.00000154	00000-0	00000-0	0	0001
579	028.4530		231.2440	0022633	059.2926	301.0352	14.9008004700000	
20579U	90037	A	90114.77685535	.00000000	00000-0	00000-0	0	0003
20579	028.4672		229.2774	0004856	253.6906	106.3605	14.8417718100000	
579U	90 37	A	90116.72723136	.00026600	00000-0	30980-2	0	42
579	28.4691		216.8790	0005603	320.8492	39.1428	14.84044175	32

90-37B Hubble Space Telescope

Upp: 24 April W. Cape Canaveral m. STS-35

580U	90-37B	90117.60133758	0.00011205			12958-2 0	43
580		28.4685	211.3135	0005403	327.9438	32.0816 14.84117973	45
580U	90 37 B	90117.66958747	.00023279		00000-0	27050-2 0	44
580		28.4688	210.8962	0005451	328.7885	31.2402 14.84126962	46

90-38A

Kosmos 2075

Урл: 25 april

20581U 90038 A 90115.66374747 .00000000 00000-0 00000-0 0 0002
20581 074.0288 056.2106 0021276 341.0800 019.0130 15.2204331300002

90-39A

Molnija 1-77

Upp: 26 april

0583U	90-39A	90118.67611734	0.00000298	10000-4 0	45		
0583	62.7872	187.7413	7411388	288.1624	9.2865	1.95534798	6

90-40A

Kosmos 2076

Upp: 28 april

0596U	90-40A	90118.53443999	0.00015796			20950+0	0	2
0596	63.0107	339.8071	7360209	318.1710	4.6590	2.03426665		0

90-41A

Progress 41

Upp: 5 maj

Ned: 27 maj

20602U	90	41	A	90125.91768658	-.00008294	57370-4	00000+0	0	1
20602	51.6365	184.0364	0041711	91.7684	268.8042	16.21451804			1
20602U	90	41	A	90126.16420717	-.00000758	00000-0	00000+0	0	2
20602	51.6260	182.6679	0078492	4.3927	351.2288	16.00603228			5
20602U	90	41	A	90126.28986366	.00391837	77138-4	50725-3	0	3
20602	51.6262	181.9949	0079448	5.9646	354.0479	16.00249080			7
20602U	90	41	A	90127.10162701	.00036572	00000-0	28500-3	0	5
20602	51.6262	177.7022	0055036	207.6522	135.2205	15.69269690			20
20602U	90	41	A	90127.61406147	.00016600	00000-0	13277-3	0	6
20602	51.6276	175.0890	0054383	209.5819	150.1234	15.69269087			28
20602U	90	41	A	90127.86880288	-.00014757	00000-0	-11146-3	0	8
20602	51.6272	173.7895	0053933	210.2974	149.4911	15.69258085			32
20602U	90	41	A	90128.06061327	.00011374	00000-0	15015-3	0	9
20602	51.6142	172.7945	0011128	262.3170	97.6737	15.5884033224183			

90-42A

Kosmos 2077

Lpp: 7 maj

20604U	90 42 A	90127.95237088	-.03071254	39305-4	-17602-2 0	2
20604	62.8466	94.4345 0109867	118.1514	243.0080	16.05985812	2
20604U	90 42 A	90128.07694696	.00608314	39712-4	36906-3 0	3
20604	62.8403	93.9308 0104051	118.2984	243.3152	16.06519725	4
20604U	90 42 A	90128.07694696	.00608314	39712-4	36906-3 0	4
20604	62.8403	93.9308 0104051	118.2984	243.3152	16.06519725	5
20604U	90 42 A	90129.13471640	.00151165	16353-4	26573-3 0	6
20604	62.8443	89.7450 0123622	80.3954	276.9277	15.89115530	22
20604U	90 42 A	90129.19837370	.00149153	15978-4	26573-3 0	7
20604	62.8422	89.4990 0122595	80.1925	281.2923	15.89091740	23
20604U	90 42 A	90129.32422830	.00556617	39078-4	26573-3 0	8
20604	62.8428	89.0059 0150687	65.9637	299.1184	16.00080379	25

20604U	90 42 A	90129.32422830	.00556617	39078-4	26573-3 0	9
20604	62.8428	89.0059 0150687	65.9637	299.1184	16.00080379	25
20604U	90 42 A	90130.32320100	.00700564	39296-4	30747-3 0	10
20604	62.8421	85.0814 0148123	65.7748	296.1854	16.01433724	41
20604U	90 42 A	90131.19699380	.00692974	39537-4	29321-3 0	12
20604	62.8409	81.6407 0143944	65.8906	295.7030	16.02656958	55
20604U	90 42 A	90131.75840585	.00728231	39090-4	29314-3 0	13
20604	62.8400	79.4280 0142172	66.0266	295.6710	16.03507637	64
20604U	90 42 A	90131.94545492	.00720724	39651-4	28943-3 0	14
20604	62.8401	78.6913 0140989	66.0717	295.5097	16.03774443	67
20604U	90 42 A	90132.25716403	.00827591	38933-4	32045-3 0	15
20604	62.8435	77.4580 0139935	66.2728	295.3942	16.04335943	72
20604U	90 42 A	90132.31947569	.00833400	39097-4	32045-3 0	16
20604	62.8406	77.2133 0139811	66.2250	295.3482	16.04429167	73
20604U	90 42 A	90132.75565126	.00855424	39625-4	32045-3 0	17
20604	62.8401	75.4896 0137433	66.3004	295.2373	16.05167315	80
20604U	90 42 A	90132.94252363	.00751245	39989-4	28150-3 0	18
20604	62.8407	74.7516 0136500	66.4056	295.0045	16.05363921	83
20604U	90 42 A	90133.93869828	.00757359	39814-4	27341-3 0	19
20604	62.8401	70.8103 0130774	66.3199	295.2015	16.06886395	99

90-42A

Kosmos 2077

font. 1

0604U	90 42 A	90134.12536403	.00755922	39614-4	26235-3 0	20
0604	62.8405	70.0683 0131220	66.7185	294.7720	16.07174991	102
0604U	90 42 A	90134.43641097	.00821023	40176-4	27673-3 0	21
0604	62.8394	68.8311 0129637	67.1903	294.4567	16.07769987	107
0604U	90 42 A	90135.80369205	.00917814	40006-4	27463-3 0	23
0604	62.8375	63.3983 0123179	67.2500	294.2549	16.10187674	129
0604U	90 42 A	90137.73082997	.00932102	39625-4	26723-3 0	28
0604	62.8364	55.7330 0138338	66.7734	294.7735	16.07471589	160
0604U	90 42 A	90138.10399240	.01209576	40831-4	26723-3 0	29
0604	62.8381	54.2437 0097880	70.3619	297.3599	16.17935100	166
0604U	90 42 A	90139.02923615	.01787610	41238-4	34027-3 0	31
0604	62.8377	50.5071 0090264	70.6257	290.6141	16.20691625	181
0604U	90 42 A	90141.61952574	.01301961	41171-4	28234-3 0	41
0604	62.8356	40.0254 0071978	55.6672	304.1297	16.22864785	223
0604U	90 42 A	90142.05066453	.00473361	39755-4	27520-3 0	42
0604	62.8353	38.2780 0119415	15.8087	340.4418	16.04196096	230
0604U	90 42 A	90143.54642739	.00682236	39654-4	35348-3 0	46
0604	62.8353	32.3643 0114733	15.6178	344.7769	16.06317130	254

0604U	90 42 A	90144.23101305	.00715179	39503-4	35097-3 0	47
20604	62.8360	29.6479 0112523	15.8681	344.6911	16.07320776	265
0604U	90 42 A	90146.65468268	.00786523	40419-4	33011-3 0	53
0604	62.8302	20.0060 0102021	15.6174	344.7687	16.10946040	304
0604U	90 42 A	90148.63892490	.00856788	40610-4	30332-3 0	57
0604	62.8298	12.0731 0092685	15.6747	344.8570	16.14417643	336
0604U	90 42 A	90148.88662851	.00412102	39261-4	30332-3 0	58
0604	62.8333	11.0823 0088536	36.4408	322.7584	16.06903501	340
0604U	90 42 A	90150.75290644	.00449666	39741-4	30717-3 0	67
0604	62.8311	3.6734 0084361	36.7652	323.9272	16.08496702	370
0604U	90 42 A	90151.37447473	.00467981	40084-4	30864-3 0	68
0604	62.8310	1.2013 0083051	36.8765	323.9437	16.09135526	380
0604U	90 42 A	90155.53286868	.00477833	40396-4	25492-3 0	74
0604	62.8298	344.6117 0073788	36.6733	323.9551	16.13148048	447
0604U	90042 A	90156.15311432	.00526975	00000-0	00000-0 0	0070
0604	062.8276	342.1284 0055264	061.9832	298.7804	16.0583655700457	
0604U	90042 A	90156.40098861	.00526975	00000-0	00000-0 0	007
0604	062.8599	341.2526 0060137	100.9934	259.8890	16.165341610046	
20604U	90 42 A	90158.37886313	.00725924	40759-4	27080-3 0	81
20604	62.8257	333.1699 0060076	101.9574	258.8145	16.19247749	493

90-42A

Kosmos 2077

font. 2

0604U	90	42	A	90163.75554283	.00948962	41151-4	30152-3	0	98
0604	62.8252	311.5051	0083628	117.8392	243.2325	16.17127952	580		
20604U	90	42	A	90163.87918678	.01148840	40985-4	35591-3	0	99
20604	62.8256	311.0070	0083018	117.8620	243.1440	16.17478894	582		
20604U	90	42	A	90164.06462037	.00593453	39577-4	35591-3	0	101
20604	62.8229	310.2645	0107819	93.9181	262.1295	16.05973387	585		
20604U	90	42	A	90166.05625378	.00680478	39910-4	35349-3	0	106
20604	62.8240	302.3620	0101424	94.3140	266.8241	16.08749740	617		
20604U	90	42	A	90167.79537217	.00680511	40363-4	31859-3	0	110
20604	62.8229	295.4303	0094499	93.5192	267.6310	16.11143631	645		
20604U	90	42	A	90175.17957187	.00553557	40317-4	28292-3	0	125
20604	62.8213	265.9480	0095097	116.1399	244.7707	16.10083096	764		
20604U	90	42	A	90177.53752770	.00610078	40260-4	27402-3	0	130
20604	62.8183	256.5301	0086831	116.5925	244.3316	16.12949708	802		
20604U	90	42	A	90179.82919973	.01024962	40879-4	29316-3	0	133
20604	62.8150	247.3361	0083373	120.7963	240.6009	16.18216305	839		

604U	90	42	A	90182.05048178	.01237404	41207-4	26562-3	0	139
604	62.8143	238.3507	0070799	120.5976	240.3034	16.23146231	875		
604U	90	42	A	90183.28397428	.01166453	41211-4	25628-3	0	142
604	62.8127	233.3531	0090398	123.7681	237.4091	16.19411570	895		
604U	90	42	A	90183.96278241	.01287694	41023-4	25594-3	0	145
604	62.8145	230.6080	0085504	123.6239	237.3246	16.21218356	906		
604U	90	42	A	90185.13339786	.01546703	41447-4	24770-3	0	148
604	62.8114	225.8608	0075318	123.8702	237.0151	16.24816266	925		
604U	90	42	A	90185.50251465	.01720165	41814-4	23164-3	0	149
604	62.8109	224.3557	0072307	124.7451	236.2322	16.26155439	931		

90-43A

Macsat 1

Lpp: 9 maj

607U	90-43A	90129.92380993	0.00000007						0	2
607	89.8946	195.2304	0110494	280.0684	78.7992	14.60750520				3

90-43B

Macsat 2

Lpp: 9 maj

608U	90-43B	90129.92380993	0.00000008						0	2
608	89.8842	195.2174	0108253	278.8607	80.1071	14.60883200				3

90-44A

Kosmos 2078

Upp: 15 maj

0615U 90-44A	90135.47018763	-.00002868	19893-4	0	1
0615 69.9910	64.0219 0063939	64.7342	295.7862	16.12226057	1
0615U 90-44A	90135.96656484	0.00258936	20024-4	16725-3 0	3
0615 69.9907	62.5325 0063842	63.8894	296.9009	16.12460923	9
0615U 90-44A	90136.09063249	0.00127325	10615-4	16725-3 0	4
0615 69.9914	62.1580 0045883	35.3104	323.3887	16.04532528	11
0615U 90-44A	90136.83630589	0.00182513	55194-5	15337-3 0	7
0615 69.9911	59.9418 0048761	1.4704	359.0800	16.10789394	23
0615U 90-44A	90137.20882208	0.00236239	54945-5	19615-3 0	8
0615 69.9912	58.8287 0048217	0.6177	359.5708	16.10989594	29
0615U 90-44A	90137.70551826	0.00223575	57172-5	18329-3 0	9
0615 69.9909	57.3445 0047944	359.9700	0.1069	16.11201501	37
0615U 90 44 A	90139.25731657	.00267908	58874-5	20941-3 0	11
0615 69.9911	52.7030 0046673	356.7726	3.4203	16.11979043	62

20615U	90 44	A	90140.93234235	.00474300	61584-5	35021-3 0	14
20615	69.9902		47.6358 0045123	353.5240	6.5526	16.12884796	89
20615U	90 44	A	90141.05637543	.00360875	47378-5	35021-3 0	15
20615	69.9922		47.3191 0047000	13.4794	344.9615	16.08874174	91
20615U	90 44	A	90141.11886077	.14780300	58787-5	12075-1 0	16
20615	69.9935		47.1312 0053425	19.6072	340.6672	16.10541916	92
20615U	90 44	A	90141.42923837	.16583787	67936-5	12075-1 0	19
20615	69.9826		45.2032 0061336	22.5034	336.6687	16.11186816	97
20615U	90 44	A	90141.55361729	.00113773	00000-0	99999-4 0	20
20615	69.9900		45.8325 0049020	19.7646	340.5699	16.10657986	99
20615U	90 44	A	90142.36084898	.00274283	57340-5	22457-3 0	24
20615	69.9906		43.4213 0048355	18.6543	341.6570	16.11157949	112
20615U	90 44	A	90144.78129524	.00204422	58808-5	15632-3 0	30
20615	69.9911		36.1830 0046519	13.5362	346.6737	16.12319318	151
20615U	90 44	A	90145.02946032	.00182248	54624-5	15632-3 0	31
20615	69.9937		35.4428 0048946	22.4327	337.0697	16.10484684	155
20615U	90 44	A	90145.77488975	.00169645	54442-5	14325-3 0	32
20615	69.9918		33.2154 0048360	20.9230	339.4487	16.10773136	167
20615U	90 44	A	90149.62311161	.00172507	60761-5	13229-3 0	42
20615	69.9894		21.7085 0045762	12.1323	348.0062	16.12381909	229

90-44A

Kosmos 2078

forts. 1

615U	90	44	A	90149.93331366	.00126735	45595-5	13229-3 0	43
615	69.9969	20.7818	0048419	35.8848	322.5030	16.07769215	234	
615U	90	44	A	90149.99588613	.00159556	58103-5	13229-3 0	44
615	69.9890	20.5961	0053045	47.3562	313.1902	16.10515667	235	
615U	90	44	A	90151.92089799	.00193167	60843-5	15211-3 0	50
615	69.9892	14.8457	0052594	43.9159	316.5783	16.11252561	266	
615U	90	44	A	90154.65172979	.00161920	64476-5	12134-3 0	56
615	69.9865	6.6736	0050550	38.0401	322.3434	16.12182571	310	
615U	90	44	A	90154.89992748	.00117557	47227-5	12134-3 0	57
615	69.9870	5.9331	0053386	58.8696	299.8075	16.07413074	314	
615U	90	44	A	90154.96249815	.00156864	62517-5	12134-3 0	58
615	69.9859	5.7459	0059068	70.4915	290.2458	16.10732565	315	
615U	90	44	A	90155.33510518	.00128386	00000-0	98724-4 0	60
615	69.9842	4.6346	0059256	69.8102	290.7447	16.10686478	321	
20615U	90	44	A	90164.15105401	.00248396	69423-5	18115-3 0	82
20615	69.9871	338.2802	0058979	99.8015	261.0988	16.11480968	463	

0615U	90044	A	90165.76477669	.00286786	00000-0	00000-0	0	0085
0615	069.9200		333.4247 0054053	118.7824	241.9267	16.0696959700489		
0615U	90 44	A	90165.88925071	.00206222	58361-5	17342-3	0	87
0615	69.9853		333.0839 0055644	131.5916	230.2699	16.09984799		491
0615U	90 44	A	90167.19358710	.00137093	58814-5	11282-3	0	91
0615	69.9853		329.1898 0054362	128.9202	231.6676	16.10484573		512
0615U	90 44	A	90169.80142431	.00236693	64460-5	18276-3	0	96
0615	69.9841		321.3942 0051766	123.6511	236.9872	16.11596952		554
0615U	90 44	A	90170.29794196	.00190529	61875-5	14549-3	0	99
0615	69.9839		319.9079 0051638	122.5340	238.0300	16.11780641		562
0615U	90 44	A	90170.73235360	.00480746	54399-5	43664-3	0	100
0615	69.9926		318.6031 0051774	121.7835	237.8490	16.09298906		569
0615U	90 44	A	90170.85683729	.02401766	58390-5	20020-2	0	101
0615	69.9921		318.2317 0054779	131.8308	229.1170	16.10114983		571
0615U	90 44	A	90170.98100532	.01003032	58847-5	84279-3	0	102
0615	69.9843		317.8628 0053871	132.3414	228.0521	16.10124083		573
0615U	90 44	A	90175.63835746	.00182283	62632-5	14020-3	0	109
0615	69.9869		303.9511 0051210	125.6035	234.9446	16.11738280		648
0615U	90 44	A	90175.94867708	.00129340	11910-4	14020-3	0	110
0615	69.9913		303.0022 0048254	145.6390	213.5781	16.07226444		653
0615U	90 44	A	90176.13563249	-.03865218	00000-0	-33902-2	0	112
0615	69.9807		302.4674 0049365	162.3206	200.3046	16.10010164		656

90-44A

Kosmos 2078

forts. 2

0615U	90	44	A	90176.13523030	.00117170	00000-0	99999-4	0	114
0615	69.9841	302.4679	0049812	161.0755	199.2015	16.10382283			656
615U	90	44	A	90178.55724550	.00177001	55629-5	14533-3	0	118
615	69.9829	295.2327	0048442	156.8841	203.6084	16.11149941			695

90-45A

Kosmos 2080 & 2081

Upp: 19 maj

619U	90	45	A	90186.46645198	-.00000015	00000-0	99999-4	0	69
619	64.8989	38.3521	0021533	211.2876	148.6546	2.13103189			101
620U	90	45	B	90187.05360533	-.00000015	00000-0	99999-4	0	89
620	64.8915	38.3420	0008602	39.9510	320.1805	2.13102926			103
20622U	90	45	D	90139.71514960	.22460648	37705-4	13934-3	0	2
20622	64.8674	38.3465	0010650	258.4808	102.3977	16.53666045			6

90-46A

Kosmos 2082

Upp: 22 maj

0624U	90	45	A	90142.29351217	-.00000020	00000-0	00000+0	0	1
0624	70.9983			4.5773	0006437	317.9414	42.2254	14.13995651	1

90-47A

Resurs-F 6

Upp: 29 maj

0632U	90 47 A	90149.35962086	.00000858	-59455-5	00000+0 0	1
0632	82.3506	22.9612 0042321	108.3911	251.6327	16.24828701	1
0632U	90 47 A	90149.42130553	.02758030	-56040-5	80652-3 0	2
0632	82.3430	22.8759 0040398	104.6822	255.8630	16.24909332	2
0632U	90 47 A	90149.60605747	.00098977	-56464-5	28737-4 0	5
0632	82.3334	22.6556 0040620	103.8027	256.7027	16.24874993	5
0632U	90 47 A	90149.66765625	.00152639	-59024-5	44448-4 0	6
0632	82.3341	22.5839 0040334	103.4315	257.1517	16.24904919	6
0632U	90 47 A	90149.66765625	.00152639	-59024-5	44448-4 0	7
0632	82.3341	22.5839 0040334	103.4315	257.1517	16.24904919	6
632U	90 47 A	90150.16031143	.00162785	-57481-5	44448-4 0:	8
632	82.3373	21.9944 0041987	97.4198	263.4118	16.25412988	14
632U	90 47 A	90150.28340253	.00125353	-55013-5	44448-4 0	9
632	82.3395	21.8425 0061390	105.9924	252.5926	16.19960577	16

632U	90	47	A	90150.40732785	.00027287	00000-0	44448-4 0	10
632	82.3560	21.7050	0010614	312.4593	43.7825	16.03075519		18
632U	90	47	A	90150.53283103	.00294584	37707-4	48115-3 0	13
632	82.3376	21.5586	0009605	316.6418	43.4401	16.03178671		20
632U	90	47	A	90150.78248856	.00032383	00000-0	52587-4 0	14
632	82.3348	21.2723	0009450	316.0330	43.9016	16.03137771		24
632U	90	47	A	90151.34428405	.00026190	00000-0	42354-4 0	15
632	82.3380	20.6221	0009628	312.9043	47.2442	16.03217881		33
632U	90	47	A	90151.53151700	.00069730	13104-5	11285-3 0	17
632	82.3354	20.4090	0009281	313.4632	46.6125	16.03268592		36
632U	90047	A	90151.59393862	.00072710	00000-0	00000-0 0	0017	
632	082.3331	020.3403	0009607	311.4648	048.6452	16.0327768800037		
632U	90	47	A	90151.90599695	.00057938	00000-0	92827-4 0	18
632	82.3355	19.9789	0009349	310.0627	49.9470	16.03296291		42

90-48A

Kristall

Upp: 31 maj

635U	90048	A	90151.49452397	.00000000	00000-0	00000-0	0	0001
635	051.6249		056.2700	0083576	087.1687	273.9578	16.0155748300001	
635U	90048	A	90151.55691858	.00000000	00000-0	00000-0	0	0002
635	051.6512		055.9225	0083286	087.8389	273.2850	16.0153911500002	
635U	90048	A	90151.68170919	.00000000	00000-0	00000-0	0	0003
635	051.6289		055.2647	0083322	088.0534	273.0710	16.0157114000004	
635U	90 48	A	90151.80654306	.00404357	14225-4	44143-3	0	3
635	51.6174		54.5988	0085663	89.8891	272.5779	16.01774680	6
635U	90 48	A	90152.36785030	.00340185	14085-4	37051-3	0	6
635	51.6196		51.5932	0082997	90.8084	270.1107	16.02233922	15
635U	90 48	A	90152.49260899	.00404181	14184-4	43657-3	0	7
635	51.6189		50.9247	0082805	91.3064	269.7562	16.02353495	17

0635U	90 48	A	90153.61894868	.00317706	13943-4	38804-3 0	10
0635	51.6180		44.9415 0104669	97.3703	263.9513	15.97215470	35
0635U	90 48	A	90153.74407137	.00162234	13823-4	20112-3 0	11
0635	51.6179		44.2767 0104244	97.7081	263.5598	15.97240442	37
0635U	90 48	A	90153.93176474	.00444878	14006-4	53866-3 0	12
0635	51.6192		43.2774 0103780	98.5173	262.8186	15.97435416	40
0635U	90 48	A	90154.11942190	.00449501	14146-4	53866-3 0	13
0635	51.6202		42.2795 0103941	99.2090	262.0683	15.97552057	43
0635U	90 48	A	90154.36961316	.00301478	14032-4	36248-3 0	14
0635	51.6189		40.9490 0103195	100.4252	260.7998	15.97688104	47
0635U	90 48	A	90154.68233630	.00092095	00000-0	36248-3 0	15
0635	51.6024		39.3017 0066804	89.6233	260.7913	15.82586492	52
0635U	90 48	A	90154.81045770	.00364080	00000-0	13734-2 0	16
0635	51.6028		38.6336 0066129	90.6167	270.3394	15.82856428	54
0635U	90 48	A	90155.06296109	.00104871	00000-0	40681-3 0	17
0635	51.6093		37.3224 0066097	92.0132	268.7761	15.82899510	58
0635U	90 48	A	90155.44175612	.00103473	00000-0	39970-3 0	18
0635	51.6081		35.3500 0066294	93.3788	267.4548	15.82967283	64
0635U	90048	A	90156.51510061	.00075381	00000-0	00000-0 0 0022	
0635	051.6130		029.7444 0055661	089.2894	271.5163	15.8054958500081	

90-48A

Kristall

font. 1

0635U	90 48	A	90158.28686499	.00107940	00000-0	52092-3 0	27
0635	51.6137		20.5835 0071188	97.1048	263.8461	15.77955460	109
0635U	90 48	A	90158.47684551	.00037857	00000-0	52092-3 0	28
0635	51.6219		19.6431 0025887	300.6576	49.2469	15.56490615	112
0635U	90 48	A	90158.67123064	.00037557	00000-0	52092-3 0	29
0635	51.6132		18.6675 0023632	305.2724	54.4622	15.56347888	115
0635U	90 48	A	90163.86556523	.00042178	00000-0	48882-3 0	39
0635	51.6155		352.5764 0011044	31.4679	328.7029	15.61308000	196
0635U	90 48	A	90165.91364506	.00046041	00000-0	52924-3 0	41
0635	51.6148		342.2544 0011146	37.1503	322.9783	15.61476884	228

90-49A

ROSAT

Upp: 1, juhi

0638U	90	49	A	90153.17145153	.00066003	00000-0	55559-2	0	2
0638	52.9879	116.8867	0014023	298.7280	61.2278	14.97555526			3
0638U	90	49	A	90153.37166815	-.00012590	00000-0	-10583-2	0	3
0638	52.9868	115.9991	0014103	298.7007	61.2551	14.97544058			6
0638U	90	49	A	90153.77210423	-.00008871	00000-0	-74194-3	0	4
0638	52.9867	114.2225	0013913	301.5640	58.3831	14.97532634			12
0638U	90	49	A	90154.10580551	-.00006501	00000-0	-54043-3	0	5
0638	52.9867	112.7418	0013792	301.9781	57.9891	14.97529802			17
0638U	90	49	A	90155.37385008	.00001518	00000-0	15079-3	0	7
0638	52.9866	107.1199	0013840	305.6356	54.3344	14.97543174			36
0638U	90	49	A	90167.31983891	.00004748	00000-0	42302-3	0	16
0638	52.9889	54.1314	0013921	345.5417	14.5174	14.97643087			215

20638U 90 49 A 90199.81778757 .00001270 00000-0 12881-3 0 36
20638 52.9889 269.9793 0016626 77.7683 282.5161 14.97810180 702

90-51A

Insat 1D

Upp: 12, juni

0643U			90177.00809125	-	.00000135			10000-3 0	9
0643	0.1794	276.9094	0005347	155.9646	287.1527	1.00259182			11
0644U	90 51 B	90163.67133813		.00484420	73074-4	16778-2 0			30
0644	27.2731	161.7203	0116160	119.7721	241.4917	15.78083845			6

90-52A

Molniya 3-38

Црр: 13, уни

20646U	90	52	A	90164.09819170	.00000019	00000-0	99999-4	0	1
20646	62.7881	227.6304	7472907	280.0701	10.7072	1.95440067			1
20646U	90	52	A	90166.65721643	.00001095	00000-0	43680-2	0	4
20646	62.8437	227.2695	7473139	280.0595	10.6882	1.95381327			6

90-53A

Kosmos 2083

Upp: 19 juni

Ned: 3,261

20657U	90	53	A	90170.41950992	.00000877	-59162-5	00000+0	0	
20657	82.5880	65.6795	0034348	93.3794	271.8061	16.26705950			
0657U	90	53	A	90171.15770177	.00314243	-56987-5	90766-4	0	5
0657	82.5828	64.8259	0037338	99.9415	260.6952	16.25361018			13
0657U	90	53	A	90171.46952479	.00000055	00000-0	00000+0	0	6
0657	82.5827	64.5014	0122544	215.9222	132.1206	15.76036774			3
0657U	90	53	A	90171.59849742	.00000042	00000-0	00000+0	0	7
0657	82.5980	64.3668	0085601	227.0677	129.9327	15.71544407			20
0657U	90	53	A	90181.72451341	.00003106	00000-0	19391-4	0	23
0657	82.5898	53.6181	0085060	188.9030	171.0830	15.71396903			179

90-54A

Gorizont 20

Upp: 20 juni

0659U	90-54A	90186.71567026	-.00000198			10000-3 0	16	
0659		1.4866	270.2906	0017761	240.9594	119.9440	1.00258550	16
0660U	54A	90173.38070512	0.07917580		60509-4	35076-3 0	8	
0660		51.6311	264.5955	0004652	251.8573	108.3063	16.43310070	23

90-55A

Kosmos 2084

Upp: 21 juni

0663U	90 55	A	90172.98511182	-.00000085	00000-0	00000+0	0	1
0663	62.7908		171.0023 0118105	10.4927	349.8640	14.69515270		1
0663U	90 55	A	90173.05315839	-.00000084	00000-0	00000+0	0	2
0663	62.7898		170.7831 0118286	10.7635	349.5665	14.69413261		2
0663U	90 55	A	90177.48496255	.00008141	00000-0	13259-2	0	12
0663	62.8043		156.5614 0122473	4.6687	355.5388	14.66723191		67
20664U	90 55	B	90176.11730774	.00616249	10170-4	10964-2	0	7
20664	62.8220		159.3087 0249428	121.7212	240.2560	15.64122051		50

90-56A

Intelsat 6

F-4

Upp: 23, juni

0667U	90	56	A	90175.48236770	.00000064	00000-0	99999-4	0	1
0667		3.6929		263.8833	6624389	0.9073	359.9282	1.96815802	1
0667U	90	56	A	90177.55726157	-.00000044	00000-0	99999-4	0	4
0667		1.4321		263.1953	3894188	1.6173	180.4867	1.50198700	4
0667U	90	56	A	90181.36780401	-.00000226	00000-0	99999-4	0	6
0667		0.3951		259.4141	0023319	327.7363	145.2700	1.00268077	9
20668U	90	56	B	90174.52079605	.00014425	-34749-4	18796-5	0	1
20668		28.6034		264.2509	0102522	97.2032	264.0221	16.17175340	1

90-57A

Meteor 2-19

Upp: 27, juni

670U	90	57	A	90178.99737222	.00000006	00000-0	00000+0	0	1
670	82.5447	280.0886	0016347	260.4324	99.6101	13.84073213			0
670U	90	57	A	90183.04636009	-.00000050	00000-0	-50471-4	0	7
670	82.5475	276.8747	0014659	243.7424	116.2234	13.83835295			57

90-59A

BADR-1

App: 16, Juli fr. Xichang ut. 0040UT m. CZ-2E

20685U	90 59	A	90197.34810199	.00000390	00000-0	00000+0 0	1
20685	28.4900		302.4837 0559421	130.4323	236.3458	14.91137546	1

0685U	90-59A		90198.08455060	0.00197292	-62599-5	48209-3 0	8
0685	28.4931		297.7287 0562305	138.0890	226.3844	14.90429605	16

20686U 90 59 B 90197.41470756 .00451708 -61965-5 11319-2 0 1
20686 28.4924 302.0611 0562360 131.0651 232.5908 14.90177901 2

90-60A

Resurs - F 7

20687U	90-60A	90198.45006275	0.00000867	-60383-5			0	
20687	82.2932	103.8268	0045247	96.9373	263.8161	16.23519397		
20687U	90 60 A	90198.69659322	.00000834	-58702-5	00000+0	0		2
20687	82.3196	103.4966	0051711	94.8932	263.7457	16.21659551		5
20687U	90 60 A	90198.75865782	.00181627	-54890-5	62264-4	0		3
20687	82.3158	103.4234	0051711	94.6424	266.0867	16.21713140		6

20687U	90-60A	90199.00547359	0.00039255	-54173-5	12946-4	0		4
20687	82.3220	103.1300	0051636	94.1092	266.7234	16.21971297		10
20687U	90 60 A	90199.43732226	.00036618	-53807-5	12946-4	0		5
20687	82.3188	102.6183	0063112	91.7970	268.0797	16.19565977		17
20687U	90 60 A	90199.62285167	.00008129	00000-0	12946-4	0		6
20687	82.3201	102.4034	0005594	315.5459	37.3535	16.03521529		20

20687U	90 60	A	90200.24814731	.00106669	41920-5	16967-3 0	7
20687	82.3198		101.6809 0006022	316.5720	43.6098	16.03644288	30
20687U	90 60	A	90200.62252310	.00119033	53767-5	18873-3 0	8
20687	82.3198		101.2494 0006012	314.3672	45.6716	16.03702390	36
20687U	90 60	A	90201.43365754	.00085573	23727-5	13459-3 0	9
20687	82.3211		100.3145 0005332	313.7668	46.1689	16.03823925	49
20687U	90 60	A	90201.99520767	.00194618	15716-4	30425-3 0	10
20687	82.3192		99.6660 0005444	304.3403	55.7663	16.03963509	58
20687U	90 60	A	90202.43189554	.00092410	29467-5	14380-3 0	11
20687	82.3203		99.1619 0005358	304.1913	55.7558	16.04010451	65
20687U	90 60	A	90202.86861071	.00085670	24116-5	13276-3 0	12
20687	82.3201		98.6588 0005491	302.7739	57.2683	16.04073445	72
20687U	90 60	A	90203.55481288	.00086601	24221-5	13324-3 0	13
20687	82.3197		97.8661 0005477	294.9564	65.1179	16.04189954	83
20687U	90 60	A	90204.55282672	.00083592	22904-5	12741-3 0	14
20687	82.3195		96.7139 0005329	288.4270	71.5999	16.04349568	99
20687U	90 60	A	90205.61310875	.00084400	23452-5	12726-3 0	15
20687	82.3178		95.4892 0005572	284.0697	75.9472	16.04527840	110
20687U	90-60A		90211.72936748	0.00098585	33047-5	15639-3 0	30
20687	82.3133		88.4384 0014174	276.3487	83.5173	16.03502512	214

90-60A

Resurs - F7

for 12.1

0687U	90 60	A	90213.66375810	.00092291	28900-5	14339-3 0	33
0687	82.3158		86.2073 0013966	264.1292	91.8344	16.03855965	245
0687U	90 60	A	90214.28765917	.00096761	32760-5	14925-3 0	34
0687	82.3164		85.4867 0013887	265.0846	94.9086	16.03982403	255
0687U	90 60	A	90214.91149875	.00094501	29558-5	14457-3 0	36
0687	82.3168		84.7671 0014041	262.7901	97.1717	16.04110328	265
0687U	90 60	A	90215.66005563	.00089338	25975-5	13542-3 0	37
0687	82.3170		83.9018 0013916	253.1870	101.8409	16.04263004	277
0687U	90 60	A	90218.34178923	.00096130	32712-5	14123-3 0	41
0687	82.3151		80.8024 0013959	246.3798	113.6174	16.04787385	320
0687U	90 60	A	90216.34616094	.00109849	43288-5	16508-3 0	38
0687	82.3164		83.1037 0013849	254.7576	105.2642	16.04418916	288
0687U	90 60	A	90216.59563047	.00099737	33993-5	14949-3 0	39
0687	82.3170		82.8216 0013830	252.9732	106.9856	16.04456883	292
0687U	90 60	A	90217.73955617	.00094036	30719-5	13914-3 0	40
0687	82.3164		81.4523 0013707	243.1134	111.8259	16.04676034	311
0687U	90 60	A	90218.77826801	.00078409	18803-5	11462-3 0	42
0687	82.3144		80.2994 0014352	243.9229	116.0347	16.04845756	327

0687U	90	60	A	90218.77826801	.00078409	18803-5	11462-3 0	43
0687	82.3144			80.2994 0014352	243.9229	116.0347	16.04845756	327
0687U	90	60	A	90218.96533186	.00067961	13111-5	11462-3 0	44
0687	82.3153			80.0845 0010414	283.8144	75.1659	16.02551431	330
0687U	90	60	A	90219.71480286	.00069712	13418-5	11694-3 0	45
0687	82.3134			79.2201 0010270	283.7159	76.2570	16.02642591	342
0687U	90	60	A	90220.71377811	.00083187	21368-5	13817-3 0	47
0687	82.3126			78.0686 0010266	278.8957	81.0995	16.02819384	358
0687U	90	60	A	90222.33690099	.00080821	20717-5	13219-3 0	50
0687	82.3119			76.1961 0010550	272.0365	87.9789	16.03076190	384
0687U	90	60	A	90222.71142793	.00078656	18954-5	12818-3 0	51
0687	82.3112			75.7654 0010662	269.3928	90.6123	16.03133337	390
0687U	90	60	A	90223.27319579	.00023237	00000-0	37538-4 0	52
0687	82.3110			75.1161 0011381	265.1538	94.8706	16.03203141	399
0687U	90	60	A	90224.20939212	.00089073	25848-5	14288-3 0	54
0687	82.3115			74.0369 0010715	262.6009	97.4213	16.03402692	414
0687U	90	60	A	90224.64624845	.00071889	14306-5	11470-3 0	55
0687	82.3112			73.5337 0011250	262.4242	97.5823	16.03466607	421
0687U	90	60	A	90225.64464871	.00071825	13689-5	11329-3 0	57
0687	82.3125			72.3838 0011367	259.8661	99.8629	16.03654133	1
0687U	90	60	A	90226.08148797	.00101342	35671-5	15914-3 0	58
0687	82.3126			71.8786 0010669	254.6232	105.4546	16.03768694	8

90-60A

Returns - F7

Parts. 2.

0687U	90	60	A	90226.08148797	.00101342	35671-5	15914-3	0	59
0687	82.3126			71.8786	0010669	254.6232	105.4546	16.03768694	444
0687U	90	60	A	90226.64301737	.00097519	33354-5	15216-3	0	60
0687	82.3125			71.2306	0010734	251.3214	108.1802	16.03875302	453
20687U	90	60	A	90227.01735972	.00102889	38217-5	15982-3	0	61
20687	82.3122			70.7985	0010536	249.2335	110.7947	16.03958274	459
20687U	90	60	A	90227.70359867	.00086960	24816-5	13394-3	0	62
20687	82.3129			70.0054	0010916	249.0296	110.9643	16.04078671	470
20687U	90	60	A	90228.01551459	.00085924	24071-5	13155-3	0	63
20687	82.3134			69.6458	0011373	243.9445	116.1188	16.04167527	475
20687U	90	60	A	90228.07788660	.00085827	23586-5	13155-3	0	65
20687	82.3115			69.5751	0010764	245.8267	114.1799	16.04161416	476

90-61A

Kosmos 2085

0694U	90-61B	90199.96060695	-.00008408	58029-4				0	1
0694	51.6264	272.1557	0003935	331.8766	28.2043	16.28802920			1

90-62A

Kosmos 2086

Ned: 3 aug 90

0702U		90201.41548223	0.00000849	-58930-5		0	1
0702	82.3173	94.2819	0031660	101.2743	260.6627	16.26197672	1
0702U		90201.72311932	0.00166914	-53927-5	48158-4	0	3
0702	82.3259	93.8814	0037287	102.2727	258.2776	16.25352407	2
0702U		90201.84625295	0.00078880	-58409-5	48158-4	0	4
0702	82.3275	93.7461	0126413	80.2248	281.3582	16.02528739	4
0702U		90201.97107489	0.00242597	-51273-5	14555-3	0	6
0702	82.3311	93.5954	0123503	78.7958	282.7157	16.03369761	6
0702U		90202.15830278	0.00067582	82729-6	13576-3	0	11
0702	82.3295	93.3848	0083139	82.6922	273.5925	15.93376648	13
0702U	90062 A	90202.47315200	.00081711	00000-0	00000-0	0 0012	
0702	082.3291	093.0279	0081951	081.6687	279.4500	15.9342349200018	
0702U		90205.61295021	0.00041023		81528-4	0	16
0702	82.3293	89.4646	0081978	69.8795	291.1612	15.93657076	68

0702U		90207.11985850	0.00044793			88614-4	0	19
0702	82.3288	87.7541	0081474	64.1972	296.7591	15.93793964		92
0702U	90-62A	90209.37998527	0.00049620			97200-4	0	22
0702	82.3290	85.1882	0080973	55.6808	305.2301	15.94013429		128
0702U	90-62A	90210.07051134	0.00084448			97200-4	0	23
0702	82.3311	84.3976	0024885	75.1917	291.6192	16.08022046		139
0702U	90-62A	90211.00280899	0.00123163	57617-5		14174-3	0	25
0702	82.3274	83.3212	0024661	69.7677	290.6404	16.08235383		154
0702U	90-62A	90211.74944410	0.00091020	25829-5		10380-3	0	27
0702	82.3261	82.4555	0024746	67.0184	293.3195	16.08353639		166
0702U	90 62 A	90212.12275221	.00063797	00000-0		71862-4	0	28
0702	82.3273	82.0214	0024830	65.1413	295.2384	16.08410439		172
0702U	90 62 A	90212.80710719	.00088291	00000-0		98360-4	0	29
0702	82.3260	81.2289	0024620	63.0087	297.4181	16.08532549		183
0702U	90 62 A	90213.67801089	.00087130	00000-0		96180-4	0	30
0702	82.3256	80.2189	0024550	59.1544	301.2076	16.08680379		197
0702U	90 62 A	90214.30004357	.00090392	00000-0		99124-4	0	31
0702	82.3260	79.4974	0024178	56.6144	303.7608	16.08794179		207
0702U	90 62 A	90214.85982418	.00095430	31985-5		10547-3	0	33
0702	82.3248	78.6485	0023574	53.9386	306.4143	16.08909057		216

90-63A

20705U	90-6JA	90207.52087143	-.00000040			81493-1 0	1
20705	1.3530	90.9782 3764031	178.4544 202.7256			1.61610474	2
20706U	90-6JB	90207.48973449	-.00000043			10000-3 0	1
20706	1.0760	94.9797 3097639	174.1806 184.0823			1.50030713	5
0717U	90-63C	90207.50290441	0.00000018			10000-3 0	1
0717	3.8766	91.0466 7248862	179.2636 183.4414			2.25150278	2
0706U	90-63B	90211.30781333	0.00000172			10000-3 0	9
0706	0.0917	251.8537 0007886	357.2386 199.9692			1.00157292	3

90-64A

0707U	90-64A	90206.81005280	0.00000084			10000-3 0	1
0707	62.8949	166.1289	7340505	318.3078	4.5671	2.04122689	0

90-65A

0712U	90-65A	90207.35582428	0.00010142			10414-1	0	2
0712	18.1329	47.1103	7125054	199.8961	104.3866	2.43363920		2
712U	90-65A	90208.58498307	-.00002360			-23842-2	0	3
712	18.1506	46.6174	7125005	200.8258	101.2545	2.43360233		5

90-66A

0720U	90-66A	90211.06753976	-.00000007					0	1
0720	73.5842	315.4734	0026580	277.0148	82.7775	12.40347350			0
0720U	90-66A	90211.47072217	-.00000007					0	5
0720	73.6105	314.9696	0026645	274.5037	85.2738	12.40559757			5
0720U	90 66 A	90212.27705931	-.00000007		00000-0	00000+0 0			7
0720	73.6023	313.8824	0025936	272.9275	86.8774	12.40556131			15

90-67A

Soyuz TM-10

Upp: 1 aug. kl. 0932 UT från Baikonur.

722U	90-67A	90213.45107856	-.00008378	58027-4		0	1
722	51.6210	102.3485	0016182	100.1321	259.7372	16.24054670	1
722U	90-67A	90213.69723328	-.00001437			-62411-5	3
722	51.6111	101.0132	0044060	128.8612	218.0366	15.76138401	5
722U	90-67A	90214.01663209	0.00141432			81686-3	4
722	51.6135	99.3675	0044111	129.8551	230.6687	15.76267969	10
722U	90067 A	90214.52383446	.00000000	00000-0	00000-0	0 0005	
722	051.5976	096.7405	0041772	139.0968	221.3848	15.7611421000018	
722U	90067 A	90214.71413045	.00126567	00000-0	00000-0	0 0006	
722	051.6107	095.7733	0039512	133.4044	227.0927	15.7549414700021	
722U	90-67A	90215.22153811	0.00010149			63771-4	8
722	51.6137	93.1630	0040249	134.2969	226.1835	15.75584280	29

90-68A

724U	90-68A	90214.82951677	0.00013453	50522-5	10000-3	0	1
724	37.6687	185.4858	6077735	199.7764	120.4846	4.03733087	3
725U	90068	B 90214.46886624	.00596445	00000-0	00000-0	0 0003	
725	030.1271	180.4112	0263077	014.8964	345.9795	15.6778315600003	
20724U	90-68A	90216.59189362	0.00000016		10000-3	0	4
20724	54.7053	194.2982	0178873	115.9068	245.9326	2.00464576	1

90-69A

Kosmos 2089

Lpp: 3a49

0732U	90	69	A	90215.93497272	-.00005787	40052-4	00000+0	0	1
0732	62.8443	197.7165	0099751	116.7656	242.8716	16.06992288			1
0732U	90	69	A	90216.24634857	.00303323	39622-4	18744-3	0	3
0732	62.8446	196.4779	0099069	116.9202	244.3172	16.07298244			7
0732U	90	69	A	90216.30854369	.00372773	39817-4	22882-3	0	4
0732	62.8442	196.2316	0099039	116.8424	244.2860	16.07342643			8
0732U	90	69	A	90216.61958353	.00405068	39949-4	24503-3	0	5
0732	62.8430	194.9975	0098494	116.7343	244.3952	16.07595723			13
0732U	90	69	A	90217.30369185	.00365364	38911-4	24503-3	0	6
0732	62.8439	192.2931	0123393	114.2099	243.0722	16.01854059			24
0732U	90	69	A	90217.80375409	.00338111	39262-4	22780-3	0	7
0732	62.8427	190.3196	0121487	113.8478	247.4756	16.02176657			32
0732U	90	69	A	90218.35541545	.00374321	38977-4	24539-3	0	8
0732	62.8426	188.1073	0120663	114.0540	247.4116	16.02628974			41
0732U	90	69	A	90218.80212336	.00375925	39797-4	24304-3	0	9
0732	62.8401	186.3873	0119812	114.0023	247.3441	16.02951001			48

0732U	90	69	A	90224.22300903	.00777627	40465-4	30157-3	0	25
0732	62.8409	164.9620	0067444	72.1805	288.6856	16.17713275			135
0732U	90	69	A	90226.07591060	.00757804	40783-4	24635-3	0	29
0732	62.8417	157.4910	0062107	72.8193	287.9788	16.20436230			165
20732U	90	69	A	90227.74042259	.00951155	41070-4	24611-3	0	35
20732	62.8401	150.7478	0056605	73.4940	287.2445	16.23607423			192
20732U	90	69	A	90228.72509415	.01274888	41581-4	27437-3	0	38
20732	62.8392	146.7424	0051995	73.7039	286.9897	16.26094706			208
20732U	90	69	A	90229.15540905	.00692193	39300-4	27437-3	0	39
20732	62.8382	145.0120	0143103	90.3305	256.0878	16.03471830			215
20732U	90	69	A	90230.52918540	.00669994	39694-4	24531-3	0	42
20732	62.8395	139.5811	0137183	90.7281	270.9626	16.05456737			237
20732U	90	69	A	90231.52525977	.00795623	39927-4	27158-3	0	44
20732	62.8386	135.6368	0132432	91.0051	270.7854	16.07084012			253
20732U	90	69	A	90232.52025700	.00854462	39785-4	26869-3	0	47
20732	62.8397	131.6832	0127737	91.0392	270.5707	16.08806828			269
20732U	90	69	A	90232.89310916	.00924376	39984-4	27949-3	0	48
20732	62.8384	130.2031	0125982	91.4134	270.2258	16.09523715			275
0732U	90	69	A	90233.82446474	.00985990	39955-4	27213-3	0	50
0732	62.8386	126.4919	0120870	91.3902	270.1232	16.11392768			290

90-69A

Kosmos 2089

parts. 1

0732U	90 69	A	90234.01060754	.00881117	39775-4	27213-3	0	5
0732	62.8403		125.7482 0121266	90.1597	270.6600	16.10278275		293
0732U	90 69	A	90234.01072571	-.00995374	40287-4	-29554-3	0	52
0732	62.8408		125.7450 0123865	88.0231	273.4428	16.10008210		293
0732U	90 69	A	90234.13496761	.01259919	39996-4	37654-3	0	53
0732	62.8391		125.2524 0122195	88.2127	273.4811	16.10381213		295
0732U	90 69	A	90234.44533208	.01140843	40479-4	33263-3	0	55
0732	62.8378		124.0162 0119921	88.3458	273.0741	16.11072638		300
0732U	90 69	A	90235.74752940	.01195751	39966-4	30247-3	0	57
0732	62.8335		118.8119 0110877	88.7120	272.6965	16.14175094		321
0732U	90 69	A	90235.93334474	.01480691	40422-4	35128-3	0	58
0732	62.8329		118.0653 0110705	89.0446	272.4168	16.14776303		324
0732U	90 69	A	90236.24286840	.01364404	40819-4	32073-3	0	59
0732	62.8346		116.8224 0106857	89.1491	272.1760	16.15624275		329
0732U	90 69	A	90236.55225298	.00928595	40963-4	20864-3	0	60
0732	62.8367		115.5817 0105020	88.7786	272.5000	16.16406129		334
0732U	90 69	A	90237.78826159	.01304871	41067-4	23958-3	0	63
0732	62.8336		110.5996 0096370	83.9836	272.2198	16.19669605		354

0732U	90	69	A	90238.59021295	.01702227	41408-4	23371-3	0	65
0732	62.8303	107.3558	0089649	88.6435	272.5240	16.22324198			367
0732U	90	69	A	90239.08293791	.02103267	41061-4	23274-3	0	67
0732	62.8332	105.3532	0083543	89.4248	271.6365	16.24570327			375
0732U	90	69	A	90239.45207130	.00688920	40603-4	23274-3	0	68
0732	62.8310	103.8643	0085962	62.4233	287.9151	16.16115974			381
0732U	90	69	A	90239.51577394	.00897684	40587-4	30022-3	0	69
0732	62.8311	103.6078	0085447	62.7051	298.2959	16.16290149			382
0732U	90	69	A	90240.25783837	.00945967	40735-4	29413-3	0	71
0732	62.8315	100.6270	0081487	63.9140	296.9683	16.17721064			394
20732U	90	69	A	90241.67829998	.01134131	41192-4	29483-3	0	74
20732	62.8287	94.8957	0074530	63.7492	297.2068	16.20686896			417
20732U	90	69	A	90241.98671846	.01154902	40895-4	28388-3	0	75
20732	62.8307	93.6509	0073304	64.5080	296.4169	16.21437669			422
20732U	90	69	A	90242.04837774	.00415924	39311-4	28388-3	0	76
20732	62.8308	93.3993	0102808	104.5804	254.1739	16.05399868			423
0732U	90	69	A	90244.72482501	.00551141	40096-4	32504-3	0	81
0732	62.8331	82.7918	0095828	104.5578	256.6104	16.08314735			466
0732U	90	69	A	90247.70599379	.00578227	40391-4	28702-3	0	85
0732	62.8305	70.9159	0087123	104.9256	256.2349	16.11789114			514

90-69A

Kosmos 2089

forts. 2

0732U	90	69	A	90249.75151443	.00797396	40370-4	33945-3	0	89
0732	62.3288	62.7279	0079498	104.8940	256.3448	16.14754876			547
0732U	90	69	A	90250.06105789	.00752662	40032-4	31084-3	0	90
0732	62.8284	61.4854	0078716	104.8165	256.1520	16.15221363			552
0732U	90	69	A	90251.23661529	.00551098	39177-4	30532-3	0	92
0732	62.8195	56.7793	0116778	116.7778	234.7008	16.05409520			571
0732U	90	69	A	90252.11002891	.00643671	39506-4	33038-3	0	94
0732	62.8288	53.3190	0114051	117.0711	244.2442	16.06553697			585
20732U	90	69	A	90254.47289875	.00746790	40011-4	33643-3	0	98
20732	62.8275	43.9315	0103940	117.1264	244.0451	16.09841997			623
20732U	90	69	A	90255.52824787	.00834890	40486-4	34931-3	0	101
20732	62.8271	39.7241	0098258	117.4172	243.6871	16.11665543			640
20732U	90	69	A	90257.57334103	.01067592	40435-4	36407-3	0	106
20732	62.8266	31.5336	0088239	117.2615	243.8876	16.15585193			673
20732U	90	69	A	90258.06831171	.00553566	39383-4	36407-3	0	107
20732	62.8258	29.5486	0112204	90.6095	265.1330	16.04108219			681
20732U	90	69	A	90260.49823292	.00642625	40014-4	37021-3	0	113
20732	62.8251	19.9333	0103904	91.2855	270.0308	16.07137071			720

20732U	90 69	A	90261.74199710	.00762815	40415-4	40613-3 0	115
20732	62.8260		14.9916 0099235	91.3035	269.9953	16.08856700	740
20732U	90 69	A	90262.11488220	.00733747	39558-4	38086-3 0	116
20732	62.8254		13.5076 0097847	91.1964	270.2165	16.09392424	746
20732U	90 69	A	90265.58832843	.01034151	40548-4	39425-3 0	122
20732	62.8218		359.6266 0083747	91.1736	269.9019	16.15212557	802
20732U	90 69	A	90265.89781053	.00688816	40508-4	39425-3 0	123
20732	62.8205		358.3840 0074918	101.1816	258.6906	16.12091017	807
20732U	90 69	A	90268.62393576	.00811230	40985-4	36324-3 0	132
20732	62.8208		347.4590 0066776	99.8539	261.0623	16.16197334	851
20732U	90 69	A	90269.30427766	.00788009	40577-4	33280-3 0	133
20732	62.8191		344.7234 0064149	99.9416	260.8124	16.17255813	862
20732U	90 69	A	90269.79881029	.00964747	40896-4	32127-3 0	135
20732	62.8194		342.7310 0063962	107.0094	255.0254	16.19880955	870
20732U	90 69	A	90270.47735508	.01228703	40866-4	37578-3 0	137
20732	62.8221		339.9854 0060092	105.8520	254.9852	16.21351230	881
20732U	90 69	A	90271.52509952	.01228635	40950-4	31774-3 0	140
20732	62.8209		335.7340 0055791	106.1610	254.6775	16.23717282	898
20732U	90 69	A	90271.64823869	.00976994	40508-4	31774-3 0	141
20732	62.8195		335.2347 0086133	105.6207	253.9081	16.16447300	900

90-69A

Kosmos 2089

Parts. 3

732U	90	69	A	90273.19360050	.00989178	40853-4	27503-3	0	144
732	62.8191	329.0067	0077525	105.7736	255.1519	16.19520100			925

90-70A-F

Kosmos 2090-2095

LPP: 8 Aug. fr. Plesetsk

0735U	90	70	A	90220.55842604	.00000004	00000-0	00000+0	0	3
735	82.5609	46.8346	0015303	17.9008	342.0354	12.64972609			5
736U	90	70	B	90220.55847585	.00000004	00000-0	00000+0	0	3
736	82.5715	46.8385	0000687	348.2602	8.4052	12.62209719			5
737U	90	70	C	90220.55847585	.00000004	00000-0	00000+0	0	1
737	82.5646	46.8354	0004697	13.0078	344.6451	12.62984669			6
738U	90	70	D	90220.55847585	.00000005	00000-0	00000+0	0	1
738	82.5685	46.8367	0008964	9.4179	349.2254	12.63760499			6
739U	90	70	E	90220.55847585	.00000004	00000-0	00000+0	0	1
739	82.5686	46.8362	0012156	20.3907	339.0331	12.64395229			6
740U	90	70	F	90220.55847627	.00000004	00000-0	00000+0	0	1
740	82.5657	46.8353	0019507	14.3835	346.7940	12.65767773			5

90-71A

Molniya 1-78

Upp: 10 aug

20742U	90	71	A	90226.98706926	.00000968	00000-0	13052-1	0	8
20742	62.8366	213.1234	7402597	288.0844	9.2513	1.95648266			9

90-72A

Progress M-4

Lpp: 15 aug fr. Bai Komur

20752U	90 72	A	90227.15926671	-.00008384	57776-4	00000+0 0	1
20752	51.6107		33.3663	0026817	117.2377	243.1372 16.26662709	0
20752U	90 72	A	90227.15926671	-.00008384	57776-4	00000+0 0	2
20752	51.6107		33.3663	0026817	117.2377	243.1372 16.26662709	0
20752U	90 72	A	90227.40499500	.01157851	58241-4	29451-3 0	3
20752	51.6235		31.9995	0025752	119.0788	241.4281 16.27089320	4
20752U	90 72	A	90227.46638299	.00213013	27617-4	29451-3 0	4
20752	51.6024		31.6548	0015074	279.3783	80.0187 16.05285568	5
20752U	90 72	A	90227.65322357	.00209916	26857-4	29451-3 0	5
20752	51.6145		30.6589	0013357	283.6691	76.0882 16.05104924	8
20752U	90 72	A	90228.33801916	.00178656	21316-4	25443-3 0	6
20752	51.6145		26.9829	0015879	287.5799	72.0831 16.04817572	19
20752U	90 72	A	90228.71166448	.00269804	40221-4	37800-3 0	7
20752	51.6139		24.9718	0016017	287.6272	72.3082 16.05001304	25
20752U	90 72	A	90229.08521170	.00273361	41255-4	37811-3 0	8
20752	51.6130		22.9613	0015878	290.2376	69.6990 16.05211005	31

90-73A

Resurs-F8

Lpp: 16 aug pr. Plesetsk

20754U	90073	A	90228.46735651	.00000000	00000-0	00000-0	0	0001
20754	082.3419	139.6805	0039362	106.4270	254.2005	16.2504879800001		
20754U	90 73	A	90228.71366670	.00097793	-56481-5	27880-4	0	2
20754	82.3378	139.3886	0039766	105.8774	254.7803	16.25168017		5
20754U	90073	A	90228.77523615	.00000000	00000-0	00000-0	0	0002
20754	082.3396	139.3169	0039118	105.5908	255.0358	16.2513785100006		
20754U	90 73	A	90228.95994732	.00083311	-59391-5	27880-4	0	3
20754	82.3431	139.0953	0056865	107.4771	252.3450	16.21208926		9
20754U	90 73	A	90229.14528049	.00017315	00000-0	27880-4	0	4
20754	82.3444	138.8750	0008939	298.7499	56.9748	16.03317156		12
20754U	90 73	A	90229.52048708	.00135756	70266-5	21731-3	0	5
20754	82.3435	138.4416	0010808	304.5724	55.4533	16.03455675		18
20754U	90 73	A	90229.89492202	.00039781	00000-0	63173-4	0	6
20754	82.3415	138.0125	0011286	302.0289	57.9111	16.03457616		24
20754U	90 73	A	90230.39419125	.00056102	00000-0	88421-4	0	7
20754	82.3431	137.4373	0010784	300.4802	59.6288	16.03549485		32

20754U	90 73	A	90230.51898384	.00070745	12713-5	11223-3	0	8
20754	82.3416	137.2950	0010743	299.5707	60.4530	16.03568728		34
20754U	90 73	A	90230.51898384	.00070745	12713-5	11223-3	0	9
20754	82.3416	137.2950	0010743	299.5707	60.4530	16.03568728		34
20754U	90 73	A	90231.51739397	.00072508	14118-5	11410-3	0	10
20754	82.3418	136.1476	0010430	294.3413	65.6930	16.03715721		50
20754U	90 73	A	90232.45331734	.00076184	17589-5	11894-3	0	11
20754	82.3420	135.0703	0010333	290.9568	69.0720	16.03858921		65
20754U	90 73	A	90232.51570731	.00021795	00000-0	33925-4	0	12
20754	82.3425	134.9977	0011044	287.2595	72.7557	16.03837738		66
20754U	90 73	A	90232.89006186	.00058074	00000-0	89518-4	0	13
20754	82.3416	134.5684	0010913	287.5520	72.5223	16.03912319		72
20754U	90 73	A	90233.38916214	.00080303	19604-5	12420-3	0	14
20754	82.3427	133.9928	0010545	286.1044	73.9692	16.04010597		80
20754U	90 73	A	90233.76346198	.00078833	18876-5	12155-3	0	15
20754	82.3418	133.5629	0010378	285.4031	74.6011	16.04067109		86
20754U	90 73	A	90234.44966512	.00089557	26891-5	13704-3	0	16
20754	82.3412	132.7733	0010480	280.1818	79.8768	16.04199669		97
20754U	90 73	A	90235.94661904	.00092030	28288-5	13838-3	0	18
20754	82.3388	131.0510	0011185	271.5696	88.4411	16.04474866		121

90-73 A

Resurs-F8

754U	90	73	A	90236.25845279	.00094168	29880-5	14107-3	0	19
754	82.3403	130.6910	0011061	270.2145	89.8004	16.04539016			126
754U	90	73	A	90236.25845279	.00094168	29880-5	14107-3	0	20
754	82.3403	130.6910	0011061	270.2145	89.8004	16.04539016			126
754U	90	73	A	90237.00680658	.00087002	24468-5	14107-3	0	21
754	82.3405	129.8311	0010532	297.2294	62.4442	16.03226367			138
754U	90	73	A	90237.44377347	.00031729	00000-0	51162-4	0	22
754	82.3379	129.3269	0010513	296.3100	63.6463	16.03238560			145
754U	90	73	A	90237.75586384	-.00010066	00000-0	-16447-4	0	23
754	82.3382	128.9723	0011030	298.0962	61.9566	16.03268842			150
754U	90	73	A	90238.06793351	.00146997	84838-5	23640-3	0	24
754	82.3391	128.6131	0010539	293.0913	67.0229	16.03389950			155
754U	90	73	A	90238.31755238	.00077699	17910-5	12460-3	0	25
754	82.3386	128.3254	0010548	292.0547	67.9170	16.03402151			159
754U	90	73	A	90240.87600108	.00066783	11754-5	10444-3	0	30
754	82.3376	125.3825	0010476	280.3769	79.5743	16.03817362			200
754U	90	73	A	90241.43754207	.00078260	18204-5	12179-3	0	31
754	82.3386	124.7364	0010040	279.8466	80.2107	16.03917686			209

754U	90	73	A	90241.81186710	.00063898	00000-0	98167-4 0	32
754	82.3378	124.3054	0010468	277.4102	82.5957	16.03960621	215	
754U	90	73	A	90242.49811941	.00087885	25015-5	13538-3 0	33
754	82.3399	123.5166	0009982	273.0030	87.0946	16.04095942	226	
754U	90	73	A	90243.68331039	.00075289	16573-5	11462-3 0	35
754	82.3401	122.1528	0010044	266.8733	93.1329	16.04283364	245	
754U	90	73	A	90244.18230540	-.27487619	00000-0	-27939-1 0	36
754	82.3302	121.5852	0043534	13.2869	347.0097	16.08725751	253	

90-74A

BSB-R2

Hip: 18 aug fr. C. Canaveral

20762U	90	74	A	90231.24943587	-.00000256	00000-0	99999-4	0	1	
20762				0.4343	201.1694	0436572	136.1506	20.7658	1.00287371	0
20763U	90	74	B	90230.08128119	.00000197	00000-0	10671-4	0	1	
20763				24.7569	149.8765	0573232	105.9336	261.0178	14.00497922	0

90-75A

Kosmos 2096

Upp: 23 aug

0765U	90075	A	90235.79911853	.00000000	00000-0	00000-0	0	0001
0765	065.0129		250.4896	0016891	289.8416	070.0839	15.50647331	00002
0765U	90 75	A	90238.05441410	.00000751	00000-0	14728-4	0	10
0765	65.0212		242.8629	0010467	265.8167	94.0657	15.52083803	37
20765U	90 75	A	90268.59700489	.00014201	00000-0	23757-3	0	71
20765	65.0186		139.6022	0009738	267.4240	92.5909	15.52084170	511

90-76A

Kosmos 2097

0767U	90	76	A	90240.37627466	.00000034	00000-0	00000+0	0	1
0767	62.8747	43.4873	7341762	318.1987	4.6172	2.03807398			1

90-77A

BS-3A

Upp: 28 aug.

771U 90-77A	90241.09392654	-.00030163	22440-4	-21387-2	0	2	
771	28.7447	146.5594	7403763	179.7392	181.3056	2.15534452	2
771U 90 77 A	90249.73677978	-.00000299	00000-0	99999-4	0	15	
771	0.2509	248.9532	0105674	104.6443	6.2769	1.00810287	31

90-78A

Kosmos 2098

774U	90-78A	90241.02450429	0.00213872			21109-1	0	2
774	82.9598	240.6791	1044872	129.5574	240.2300	13.19530475		5

90-79A

SKynet 4C

Upp: 30 aug

776U	90	79	A	90244.49978146	.00003199	00000-0	41639-3 0	3	
776				6.9725	134.2518	7296548	179.3450 183.9673	2.27961744	3
776U	90	79	A	90245.24760802	-.00000077	00000-0	99999-4 0	5	
776				4.3547	293.8385	0096507	201.7425 158.0693	1.02691438	0

90-79B

Eutelsat II F1

07770	90	79	3	90243.19003372	.00000707	00000-0	99999-4	0	1	
0777				6.9493	135.0261	7298632	178.0798	188.8326	2.27598796	0
07770	90	79	3	90244.50178775	-.00000068	00000-0	99999-4	0	2	
0777				3.4372	135.2921	5317118	178.5684	182.3302	1.89658110	3

90-80A

Kosmos 2099

Lpp: 31 a49.

0779U	90	80	A	90247.71062799	.00047594	00000-0	94967-4 0	14
0779	82.3211	120.6448	0080641	59.2270	301.6677	15.93755654	70	
0779U	90	80	A	90248.33848937	.00049602	00000-0	98672-4 0	15
0779	82.3199	119.9311	0080510	56.8618	304.0422	15.93820172	80	
20779U	90	80	A	90246.64321046	.00052811	12593-6	10629-3 0	12
20779	82.3231	121.8580	0080606	63.4134	297.4870	15.93662037	53	
20779U	90	80	A	90246.70600960	.00050099	18161-7	10073-3 0	13
20779	82.3223	121.7855	0080646	63.2684	297.6763	15.93664301	54	
0779U	90	80	A	90248.65240655	.00050404	43167-7	10045-3 0	16
0779	82.3213	119.5742	0080344	55.2895	305.6007	15.93854822	85	
0779U	90	80	A	90249.78245847	.00039281	00000-0	77846-4 0	17
0779	82.3194	118.2910	0079997	51.0709	309.8109	15.93971552	103	
0779U	90	80	A	90250.09634011	.00089762	19277-5	17817-3 0	19
0779	82.3201	117.9336	0079738	49.9431	310.9186	15.94041198	108	

0779U	90	80	A	90250.34743230	.00113445	38228-5	22551-3	0	21
0779	82.3225	117.6449	0079557	49.0965	311.6855	15.94057492			112
0779U	90	80	A	90250.84963281	.00049509	00000-0	97785-4	0	23
0779	82.3205	117.0779	0079353	47.2789	313.5069	15.94092706			120
0779U	90	80	A	90251.60289918	.00057908	40027-6	11446-3	0	24
0779	82.3186	116.2199	0078989	44.2223	316.5897	15.94184829			132
0779U	90	80	A	90251.97950366	.00108969	40710-5	11446-3	0	25
0779	82.3200	115.7897	0035665	92.1000	275.1042	16.08871734			138
0779U	90	80	A	90252.66252668	.00050514	00000-0	52472-4	0	27
0779	82.3148	114.9959	0035432	86.6854	273.9399	16.08964801			149