

89-1A-C

Kosmos 1987-1989

Упр: 10 jan пр. Байконур

9749U	89	1	A	89	10.03800163	.00000021	00000-0	99999-4 0	1
9749	64.8919	175.9896	0011256	308.4705	51.3358	2.13440487			1
9750U	89	1	B	89	11.91424125	.00000021	00000-0	99999-4 0	5
9750	64.8691	175.9205	0009194	257.8228	101.9910	2.13157427			5
9751U	89	1	C	89	10.97613052	.00000021	00000-0	99999-4 0	3
9751	64.9074	175.9702	0007263	267.4630	92.5124	2.13184792			3

89-02A

Kosmos 1990

Upp: 12 Jan fr. Plesetsk

Ned: 11 Feb

9756U	89	2	A	89	12.53347224	.00000830	-56552-5	00000	0	0	1
9756	82.5639	311.5109	0038093	101.9212	259.4652	16.25122620					1
9756U	89002	A	89012.59491621	.00000829	00000-0	00000-0	0	0	0002		
9756	082.5691	311.4347	0036503	101.5699	259.0348	16.2514542200002					
9756U	89002	A	89012.77963302	.00492582	00000-0	00000-0	0	0	0003		
9756	082.5687	311.2217	0036573	101.1287	259.4774	16.2533536600005					
9756U	89	2	A	89	16.82210742	.00169639	11798-4	24564-3	0	13	
9756	82.5677	306.6733	0008690	318.9005	41.2755	16.05180582					70
9756U	89	2	A	89	17.81943831	.00179267	13433-4	25407-3	0	14	
9756	82.5682	305.5571	0008414	314.5031	45.6053	16.05541176					86
9756U	89	2	A	89	18.13105411	.00149410	86627-5	25407-3	0	15	
9756	82.5707	305.2074	0006495	75.8537	282.9870	16.02517738					91
9756U	89	2	A	89	18.81813614	.00150877	88462-5	25407-3	0	16	
9756	82.5675	304.4411	0006765	71.2354	288.8638	16.02681253					102

9756U	89	2	A	89	20.75341796	.00132768	67749-5	21696-3	0	18
9756	82.5665	302.2836	0006403			69.7681	290.3821	16.03193677		133
9756U	89	2	A	89	21.75203479	.00148292	87119-5	23809-3	0	20
9756	82.5661	301.1701	0006178			68.2428	292.0417	16.03498865		149
9756U	89	2	A	89	22.75042869	.00149407	88354-5	23568-3	0	21
9756	82.5653	300.0559	0005958			63.2424	296.9603	16.03797848		165
9756U	89	2	A	89	23.74864925	.00140697	78032-5	21846-3	0	22
9756	82.5649	298.9419	0005682			61.0384	299.0604	16.04064693		181
9756U	89	2	A	89	24.74672638	.00133019	68421-5	20340-3	0	23
9756	82.5648	297.8275	0005376			58.6516	301.4646	16.04320180		197
9756U	89	2	A	89	25.80700987	.00129289	64218-5	19456-3	0	24
9756	82.5631	296.6428	0005006			57.4532	302.6866	16.04587809		214
9756U	89	2	A	89	27.74000914	.00127119	62349-5	18577-3	0	26
9756	82.5644	294.4819	0004840			51.5647	308.5982	16.05074369		245
9756U	89	2	A	89	28.73745445	.00128532	63933-5	18493-3	0	27
9756	82.5651	293.3651	0004818			46.9176	313.2577	16.05330991		261
9756U	89	2	A	89	28.92445612	.00110304	43193-5	18493-3	0	28
9756	82.5673	293.1553	0015045			81.6732	278.0218	16.02551831		264
9756U	89	2	A	89	35.78979703	.00090214	26341-5	13682-3	0	40
9756	82.5644	285.4939	0014397			58.4643	301.8011	16.04241704		374
9756U	89	2	A	89	36.78774746	.00132285	67241-5	19755-3	0	42
9756	82.5648	284.3791	0014168			55.6582	304.6465	16.04526012		390

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Kosmos 1991

Upp: 18 jan fr.

Ned: 1 feb

9758U	89	3	A	89	18.40492073	-.00000318	00000-0	00000	0	0	1
9758	69.9790	285.0941	0127680		64.2050	297.1381	15.93651291				1
9758U	89	3	A	89	18.46770428	.00327643	60293-5	39972-3	0		3
9758	69.9770	284.9090	0127423		63.9731	297.4540	15.93666813				2
9758U	89	3	A	89	18.53047063	.00140707	62265-5	17263-3	0		4
9758	69.9778	284.7265	0127448		63.8946	297.5242	15.93673256				3
9758U	89	3	A	89	18.59323928	.00141765	59541-5	17263-3	0		5
9758	69.9705	284.5462	0126948		63.4528	297.9607	15.93859492				4
9758U	89	3	A	89	18.84427320	.00070101	00000-0	85681-4	0		6
9758	69.9749	283.8098	0127089		63.5954	297.6320	15.93699132				8
9758U	89	3	A	89	19.09536845	.00008079	00000-0	85681-4	0		7
9758	69.9818	283.1482	0053019		212.9124	123.2294	15.62354642				12
9758U	89	3	A	89	19.16359936	.00008005	00000-0	85681-4	0		8
9758	69.9862	282.9355	0049631		214.9900	144.7640	15.62346475				13

9758U	89	3	A	89	20.76426657	.00008384	00000-0	89642-4	0	10
9758	69.9868	278.4834		0049691	212.1900	147.7055	15.62356226			38
9758U	89	3	A	89	21.98073113	.00072956	00000-0	76652-3	0	13
9758	69.9870	275.0974		0049627	209.9988	149.8500	15.62396172			57
9758U	89	3	A	89	22.55692544	.00018933	00000-0	20221-3	0	14
9758	69.9850	273.4961		0048842	209.6742	150.0462	15.62388092			66
9758U	89	3	A	89	22.74901857	-.00011458	00000-0	-12036-3	0	15
9758	69.9860	272.9620		0049293	209.0620	150.7724	15.62371218			69
9758U	89	3	A	89	23.77342296	.00004135	00000-0	44810-4	0	16
9758	69.9864	270.1131		0049322	207.2436	152.7350	15.62393972			85
9758U	89	3	A	89	24.73375574	.00002311	00000-0	25552-4	0	17
9758	69.9859	267.4405		0049231	205.7974	154.0847	15.62400785			100
9758U	89	3	A	89	25.75812821	.00000458	00000-0	59795-5	0	18
9758	69.9845	264.5893		0049059	204.0524	155.8549	15.62405797			116
9758U	89	3	A	89	27.74283954	.00000106	00000-0	22660-5	0	20
9758	69.9842	259.0668		0048759	200.7114	159.2383	15.62415729			147
9758U	89	3	A	89	28.76720024	-.00006835	00000-0	-71308-4	0	21
9758	69.9846	256.2144		0048443	199.3975	160.5593	15.62412765			163
9758U	89	3	A	89	29.02328944	.00002968	00000-0	32500-4	0	22
9758	69.9855	255.5038		0048494	198.5814	161.3935	15.62428557			167

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Horizont 17

Upp: 26 jan fr. Bailonur

9765U	89	4	A	89	26.16185661	-.00000025	00000-0	99999-4	0	1	
9765					1.4859	276.5640	0017819	285.1024	75.5467	0.97756078	1
9765U	89	4	A	89	27.17378965	-.00000013	00000-0	99999-4	0	3	
9765					1.4841	276.6211	0017541	283.1926	73.5101	0.97751588	2
9765U	89	4	A	89	31.24410426	.00000087	00000-0	99999-4	0	11	
9765					1.4496	276.6850	0021483	261.1885	97.7659	0.99204502	7
9766U	89	4	B	89	26.50105215	.11391706	58226-4	22100-2	0	1	
9766					51.6304	273.5654	0007598	268.3508	91.6753	16.30882835	2
9767U	89	4	C	89	26.50132800	.12707319	58596-4	31255-2	0	1	
9767					51.6156	273.5720	0013157	114.4774	246.0035	16.28177245	2
9768U	89	4	D	89	27.33869743	.00000102	00000-0	99999-4	0	1	
9768					47.4049	273.6450	7303694	0.0700	0.0657	2.22411552	1
9771U	89	4	E	89	27.33997841	.00000035	00000-0	99999-4	0	1	
9771					47.4643	273.6500	7284408	0.0704	0.1790	2.22039064	1
9776U	89	4	F	89	30.24216866	-.00000008	00000-0	99999-4	0	2	
9776					1.4982	276.1665	0025264	314.7034	45.3801	0.97994218	6

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Kosmos 1992

Urip: 26 jan fr. Plesetsk

9769U	89005	A	89026.70885528	.00000000	00000-0	00000-0	0	0002
9769	074.0484		008.0754 0024796	331.3387	028.6891	14.3045333000001		
9769U	89005	A	89026.84871753	.00000000	00000-0	00000-0	0	0003
9769	074.0519		007.8192 0024985	329.8525	030.1679	14.3054285300003		
9769U	89	5	A 89 29.50608258	.00007942	00000-0	30396-2	0	12
9769	74.0514		2.9850 0024637	323.5603	36.4915	14.30574780		41
9769U	89	5	A 89 29.85571408	.00007783	00000-0	29800-2	0	13
9769	74.0529		2.3538 0024334	322.4174	37.5263	14.30561659		46
9769U	89	5	A 89 31.39415807	-.00000152	00000-0	-53624-4	0	19
9769	74.0522		359.5556 0024579	320.2810	39.5200	14.30564092		68
9769U	89	5	A 89 34.96062717	.00008033	00000-0	30760-2	0	21
9769	74.0514		353.0683 0024052	312.2404	47.6975	14.30580918		119

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Intelsat SA (F-15)

Lpp: 27, jan från Kouros m. Ariane 2-04

772U	89	6	A	89	30.58581493	.00000099	00000-0	99999-4	0	1	
772					0.2693	269.5051	0040974	207.3734	243.4582	1.01192408	2
9772U	89	6	A	89	34.54449227	.00000183	00000-0	99999-4	0	6	
9772					0.2709	260.5796	0006622	218.7108	240.8408	1.00271523	6
9773U	89	6	B	89	27.29041566	-.00000026	00000-0	99999-4	0	1	
9773					8.4224	313.8258	7196492	178.6029	181.3892	2.25486641	1

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Kosmos 1993

Upp: 28 jan

9774U	89	7	A	89	28.57771714	-.00004970	34203-4	00000	0	0	1
9774	64.7612	350.6532	0132546	65.3105	296.1221	16.04897305					1
9774U	89	7	A	89	28.57779975	-.00004979	34408-4	00000	0	0	2
9774	64.7473	350.6024	0141296	65.7843	295.7700	16.02807946					1
9774U	89	7	A	89	28.70259470	.00620275	34473-4	27325-3	0		3
9774	64.7479	350.1437	0140989	65.7407	295.8582	16.02912412					3
9774U	89	7	A	89	28.88974882	.00269610	34724-4	12038-3	0		4
9774	64.7600	349.4666	0140234	65.6674	295.8887	16.03035377					6
9774U	89	7	A	89	28.95213238	.00516778	34635-4	22431-3	0		5
9774	64.7438	349.2225	0140498	65.8718	295.7102	16.03177800					7
9774U	89	7	A	89	29.13926028	.00589627	34741-4	25227-3	0		6
9774	64.7451	348.5318	0139868	65.7990	295.8118	16.03438821					10
774U	89	7	A	89	29.82514614	.00766364	34757-4	31722-3	0		7
774	64.7451	346.0016	0136420	65.7536	295.9787	16.04449362					21

774U	89	7	A	89	30.07440354	.00696013	34666-4	28618-3	0	8
774	64.7447	345.0831	0135304			65.6996	295.7379	16.04748029		25
774U	89	7	A	89	30.44827008	.00560206	34867-4	22317-3	0	9
774	64.7452	343.7033	0134845			65.2202	296.1820	16.05172572		31
774U	89	7	A	89	31.50696160	.00610732	34955-4	23155-3	0	11
774	64.7451	339.7847	0130196			64.8070	296.7119	16.06591072		43
9774U	89	7	A	89	35.48272563	.01018575	34993-4	27454-3	0	19
9774	64.7442	324.9902	0111955			63.7343	297.5282	16.13445741		112
9774U	89	7	A	89	35.79257821	.00928691	35695-4	24361-3	0	20
9774	64.7438	323.8313	0110389			63.7618	297.4263	16.14009228		117
9774U	89	7	A	89	36.10233844	.00702388	34954-4	24361-3	0	21
9774	64.7660	322.6797	0133096			77.3373	280.8360	16.06856826		122
9774U	89	7	A	89	36.16516639	.00568710	34443-4	21900-3	0	22
9774	64.7445	322.4420	0130681			76.3439	285.0961	16.06345688		123
9774U	89	7	A	89	36.66315523	.00631853	34420-4	23314-3	0	23
9774	64.7423	320.5991	0129184			75.9772	285.6817	16.07057209		131
9774U	89	7	A	89	36.78758873	.00363535	34382-4	13447-3	0	24
9774	64.7410	320.1370	0128834			75.8088	285.7257	16.07159983		133
774U	89	7	A	89	37.09869582	.00845910	34722-4	29831-3	0	25
774	64.7460	318.9826	0128020			76.1035	285.6376	16.07712460		138
9774U	89	7	A	89	37.53398672	.00742097	34566-4	25979-3	0	26
9774	64.7427	317.3666	0125238			76.1329	285.3009	16.08349640		145

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Kosmos 1993

forts. 1

9774U	89	7	A	89	38.15561183	.00796795	34675-4	26441-3	0	27
9774	64.7452	315.0561	0122648			75.7486	285.8174	16.09378982		155
9774U	89	7	A	89	38.77679804	.00804719	34822-4	25630-3	0	28
9774	64.7439	312.7457	0119573			75.8389	285.6205	16.10383839		165
9774U	89	7	A	89	39.14932914	.00894168	35153-4	27104-3	0	29
9774	64.7452	311.3602	0118198			75.5053	286.0480	16.11120180		171
9774U	89	7	A	89	39.70778267	.00878492	35238-4	25116-3	0	30
9774	64.7423	309.2769	0116031			75.4891	285.8717	16.12099117		180
9774U	89	7	A	89	40.76169847	.00929356	35375-4	23895-3	0	33
9774	64.7426	305.3368	0110574			75.0932	286.2302	16.14155203		197
9774U	89007	A	89040	.82366288	.01021970	00000-0	00000-0	0	0	0034
9774	064.7443	305.0994	0117957			076.3652	285.0533	16.1431973100198		
9774U	89	7	A	89	41.00948746	.01210302	35220-4	29981-3	0	35
9774	64.7429	304.4083	0109051			75.3306	286.0797	16.14782266		201
9774U	89	7	A	89	41.75227548	.01153077	35692-4	26185-3	0	36
9774	64.7411	301.6221	0104464			74.9691	286.3247	16.16467568		213
9774U	89	7	A	89	42.61785294	.00268576	35511-4	54085-4	0	38
9774	64.7419	298.3662	0099761			75.1936	286.0593	16.18570008		227

9774U	89	7	A	89	42.67963367	-.01125767	35409-4	-19355-3	0	40
9774	64.7564	293.1453	0102282			72.2271	288.9874	16.18557084		228
9774U	89	7	A	89	42.74142757	-.00704005	35071-4	-14399-3	0	41
9774	64.8134	297.9463	0098274			69.0272	292.1275	16.18499066		229
9774U	89	7	A	89	42.92673132	.01883514	35627-4	35532-3	0	43
9774	64.7401	297.1959	0096523			74.6934	286.6752	16.19499092		232
9774U	89	7	A	89	43.17362982	.01550783	35725-4	26571-3	0	44
9774	64.7401	296.2679	0095225			74.7228	286.2781	16.20169763		236
9774U	89	7	A	89	43.85223766	.01616559	35998-4	22703-3	0	46
9774	64.7456	293.7066	0089471			74.5423	286.7205	16.22248519		247
9774U	89	7	A	89	44.09873370	.02247575	36163-4	27899-3	0	47
9774	64.7419	292.7549	0087591			74.5703	286.5902	16.23177534		251
9774U	89	7	A	89	44.34507747	.01759478	36424-4	20219-3	0	48
9774	64.7419	291.3302	0085213			74.4425	286.4829	16.24030103		255
9774U	89	7	A	89	44.59134722	.01787450	35966-4	18739-3	0	49
9774	64.7404	290.8951	0082863			74.0733	286.9990	16.24940947		259
9774U	89	7	A	89	44.71441070	.01921219	36472-4	18982-3	0	50
9774	64.7428	290.4266	0081518			74.1469	286.9309	16.25494115		261
9774U	89	7	A	89	45.02190171	.00359735	34777-4	18982-3	0	51
9774	64.7418	289.2684	0116642			77.7694	273.7536	16.05872703		266
774U	89	7	A	89	46.20619091	.00613508	34653-4	29455-3	0	54
774	64.7370	284.8815	0113057			77.1577	284.0702	16.07515788		285

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Kosmos 1993

Forts. 2

9774U	89	7	A	89	46.76600033	.00657952	34807-4	30532-3	0	55
9774	64.7370	282.8028	0110961			76.9971	284.4323	16.08271124		294
9774U	89	7	A	89	47.01469103	.00670287	34592-4	30532-3	0	56
9774	64.7421	281.8784	0109495			77.0664	284.4118	16.08744066		298
9774U	89	7	A	89	47.20114433	.00692582	34964-4	30532-3	0	57
9774	64.7353	281.1885	0108969			76.4770	284.9555	16.09188113		301
9774U	89	7	A	89	47.76022767	.00736453	35152-4	30883-3	0	59
9774	64.7354	279.1074	0106116			76.2340	285.0583	16.10246491		310
9774U	89	7	A	89	48.75541412	.00784055	35207-4	30267-3	0	61
9774	64.7369	275.4044	0102118			76.0669	285.1636	16.11850556		326
19774U	89	7	A	89	49.49767642	.00844648	35209-4	30269-3	0	62
19774	64.7346	272.6219	0099453			75.9730	285.3540	16.13102684		338
9774U	89	7	A	89	49.86956115	.00911290	35440-4	31774-3	0	63
9774	64.7358	271.2320	0097274			76.1452	285.0718	16.13780350		344
9774U	89	7	A	89	50.73670927	.00894351	35017-4	28722-3	0	64
9774	64.7340	267.9829	0093259			75.8931	285.2254	16.15346201		358
9774U	89	7	A	89	51.23185737	.00887445	35443-4	26452-3	0	65
9774	64.7333	266.1215	0091658			75.6705	285.6880	16.16377814		366

9774U	89	7	A	89	51.54111762	.01072627	35258-4	30581-3	0	66
9774	64.7332	264.9622	0090078			75.3447	285.8821	16.17091266		371
9774U	89	7	A	89	51.72660419	.01074296	35655-4	30001-3	0	67
9774	64.7326	264.2639	0088997			75.3114	285.7864	16.17489371		374
9774U	89	7	A	89	52.22106351	.01136806	35405-4	29423-3	0	68
9774	64.7333	262.3993	0086465			75.2487	285.9797	16.18678139		382
9774U	89	7	A	89	52.59163386	.01179988	35738-4	29026-3	0	69
9774	64.7310	261.0002	0084196			75.1625	285.9251	16.19570389		388
9774U	89	7	A	89	52.71511245	.01172841	35439-4	28376-3	0	70
9774	64.7310	260.5346	0083469			75.1554	285.8805	16.19857555		390
9774U	89	7	A	89	52.90030016	.00463426	34170-4	28376-3	0	71
9774	64.7330	259.8523	0124711			108.2147	242.7111	16.02644484		393
19774U	89	7	A	89	53.58839980	.00496379	34619-4	28376-3	0	72
19774	64.7325	257.3201	0123840			107.7337	253.8086	16.03348997		404
19774U	89	7	A	89	53.58838691	.00530307	34608-4	30871-3	0	73
19774	64.7321	257.3180	0123738			107.5812	253.9074	16.03383915		404
19774U	89	7	A	89	54.02492441	.00546192	34696-4	30871-3	0	74
19774	64.7322	255.7061	0122605			107.4533	254.0891	16.03926535		411
19774U	89	7	A	89	54.71060826	.00574429	34792-4	31383-3	0	75
19774	64.7302	253.1741	0120440			107.2477	254.2066	16.04711017		422
9774U	89	7	A	89	55.64508744	.00586857	34165-4	30491-3	0	76
9774	64.7317	249.7190	0117461			106.6635	254.7679	16.05826945		437

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Kosmos 1993

forts. 3

19774U	89	7	A	89	56.20546151	.00591682	34896-4	29785-3	0	77
19774	64.7316	247.6422	0115529	106.3337	255.1503	16.06539035				446
19774U	89	7	A	89	56.64112109	.00615252	34719-4	30155-3	0	78
19774	64.7308	246.0292	0114135	106.2129	255.1946	16.07088888				453
9774U	89	7	A	89	58.13366895	.00640893	34744-4	28675-3	0	80
9774	64.7300	240.4852	0108658	105.5937	255.8209	16.09095199				477
9774U	89	7	A	89	58.56863036	.00675947	35137-4	29400-3	0	81
9774	64.7299	238.8692	0106984	105.3552	256.0032	16.09705417				484
9774U	89	7	A	89	59.12763101	.00722540	35045-4	30147-3	0	82
9774	64.7303	236.7861	0104784	105.0796	256.3124	16.10549305				493
9774U	89	7	A	89	59.74838115	.00860383	35015-4	34496-3	0	83
9774	64.7308	234.4718	0101634	104.4135	256.8950	16.11540938				503
9774U	89	7	A	89	60.74073858	.01057543	35390-4	38531-3	0	84
9774	64.7276	230.7610	0097182	104.2634	256.8812	16.13341557				519
19774U	89	7	A	89	66.82701622	.00876495	34951-4	31960-3	0	95
19774	64.7275	208.0939	0097372	118.8641	242.4247	16.13307977				617
19774U	89	7	A	89	67.75629402	.02849324	35702-4	94702-3	0	96
19774	64.7276	204.6135	0092242	118.4969	242.5233	16.15148761				632

19774U	89	7	A	89	67.88010485	.01031515	35137-4	34395-3	0	97
19774	64.7254	204.1480	0091189	118.0573	242.8435	16.15338442	634			
19774U	89	7	A	89	68.68449515	.00810167	34518-4	35546-3	0	99
19774	64.7246	201.1388	0127840	131.6311	225.3487	16.05574152	647			
19774U	89	7	A	89	69.74347207	.00912399	34587-4	37175-3	0	100
19774	64.7211	197.2113	0121768	130.7043	230.4927	16.07520880	664			
19774U	89	7	A	89	72.04207171	.01146995	35335-4	38032-3	0	104
19774	64.7238	188.6560	0108386	129.4060	231.5302	16.12169883	701			
19774U	89	7	A	89	73.71426621	.01583237	35890-4	39526-3	0	106
19774	64.7250	182.3852	0094359	128.4103	232.5335	16.17542160	728			
19774U	89	7	A	89	74.27039692	.01558273	35804-4	35614-3	0	107
19774	64.7212	180.2893	0089487	128.2544	232.6131	16.19270916	737			
19774U	89	7	A	89	74.76424827	.01569311	36167-4	32982-3	0	108
19774	64.7210	178.4182	0085181	127.8713	233.0275	16.20831787	745			
19774U	89	7	A	89	75.75044504	.01889716	36300-4	32531-3	0	109
19774	64.7211	174.5778	0075820	126.4910	234.3241	16.24302404	761			
19774U	89	7	A	89	76.05817606	.00611771	34812-4	32531-3	0	110
19774	64.7214	173.5280	0115600	168.7120	177.4687	16.05923071	766			
19774U	89	7	A	89	76.49647442	.00951267	34604-4	47624-3	0	111
19774	64.7181	171.9020	0114828	168.7358	191.8200	16.06696307	773			
19774U	89	7	A	89	77.86477998	.00871428	35004-4	39615-3	0	113
19774	64.7187	166.8244	0107738	168.1384	192.1682	16.09076259	795			

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Kosmos 1993

forts. 4

9774U	89	7	A	89	78.54820484	.01442012	35438-4	39615-3	0	114
9774	64.7212	164.2739	0094162	154.9581	207.3280	16.16680785	806			
9774U	89	7	A	89	79.66024118	.01714952	35830-4	39833-3	0	117
9774	64.7183	160.0807	0083985	154.5988	206.0524	16.20132521	824			
9774U	89007		A	89080.64684681	.01832627	00000-0	00000-0	0	0	0119
9774	064.7081	156.3434	0080684	150.5256	210.0346	16.2360724400840				
19774U	89	7	A	89	84.54160516	.01716713	36379-4	33822-3	0	130
19774	64.7114	141.6700	0074724	126.4057	234.6294	16.23301752	903			
19774U	89	7	A	89	85.77859930	.01331320	35769-4	33752-3	0	134
19774	64.7115	137.0147	0096078	108.8750	252.3493	16.17079328	923			
19774U	89	7	A	89	86.45948133	.01503326	35821-4	33764-3	0	135
19774	64.7108	134.4518	0091196	108.5990	252.7431	16.19092391	934			
19774U	89	7	A	89	86.76718399	.01545787	35935-4	33065-3	0	136
19774	64.7094	133.2878	0088461	108.4373	252.6744	16.20063496	939			

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Progress 40

Upp: 10 feb från Baikonur

9783U	89	8	A	89	47.93600488	.00050150	00000-0	38193-3 0	15
9783	51.6221	249.6	57	0011474	286.7049	73.2986	15.71655144	104	
19783U	89	8	A	89	55.81840521	.00048027	00000-0	41664-3 0	25
19783	51.6234	209.2678	0009331	55.7001	295.4756	15.68567074	228		
19783U	89	8	A	89	54.99220296	.00056603	00000-0	41664-3 0	24
19783	51.6189	213.4802	0011639	305.4414	54.4024	15.72407081	215		

89-09A-F

Kosmos 1994-1999

Upp: 10 / 16 från Plesetsk

9785U	89	9	A	89	46.29057783	.00000004	00000-0	00000	0	0	8
9785	82.6200	33.0987	0013439			23.2025	336.9673	12.64000958			59
9786U	89	9	B	89	42.25476813	.00000004	00000-0	00000	0	0	3
9786	82.6222	35.6708	0003056			69.1217	291.0208	12.61810837			7
9787U	89	9	C	89	45.26563551	.00000004	00000-0	00000	0	0	4
9787	82.6132	33.7535	0006476			32.9112	327.2382	12.62575408			45
9788U	89	9	D	89	46.37212432	.00000004	00000-0	00000	0	0	10
9788	82.6190	33.0501	0010111			16.5786	343.5645	12.63355292			60
9789U	89	9	E	89	47.63345019	.00000004	00000-0	00000	0	0	5
9789	82.6110	32.2358	0016567			11.3477	348.8695	12.64585309			75
9790U	89	9	F	89	42.56940904	.00000004	00000-0	00000	0	0	4
9790	82.6191	35.4655	0020456			21.6471	338.5484	12.65339171			12

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Kosmos 2000

Upp: 10 feb från Plesetsk

Ned: 3 mars

19792U	89	10	A	89	45.89238967	.00043504	00000-0	39911-3	0	10
19792	82.3561	56.4426	0038582	113.7752	246.6105	15.66542955				66
19792U	89	10	A	89	46.78667393	.00009853	00000-0	90443-4	0	11
19792	82.3563	55.4712	0038782	111.0042	249.3750	15.66540829				80
19792U	89	10	A	89	53.62092360	.00037246	00000-0	33686-3	0	18
19792	82.3566	48.0432	0038522	87.2195	273.3254	15.66907373				187
19792U	89	10	A	89	54.70655679	.00032197	00000-0	29053-3	0	19
19792	82.3573	46.8609	0038510	83.1497	277.3691	15.66971422				204
19792U	89	10	A	89	55.60058229	.00030504	00000-0	27473-3	0	20
19792	82.3584	45.8875	0038396	80.2992	280.2421	15.67021334				218
19792U	89	10	A	89	56.55843040	.00080279	00000-0	71961-3	0	21
19792	82.3580	44.8468	0038225	75.9133	284.5607	15.67045844				233

19792U	89	10	A	89	56.75001158	.00015736	00000-0	14158-3	0	22
19792	82.3566	44.6404	0038276			75.9608	284.5840	15.67050075		236
19792U	89	10	A	89	57.89941322	.00012865	00000-0	11554-3	0	23
19792	82.3570	43.3905	0038221			71.8133	288.6973	15.67076143		254
19792U	89	10	A	89	58.53796780	.00015668	00000-0	14063-3	0	24
19792	82.3572	42.6968	0038284			69.5955	290.9486	15.67098419		264
19792U	89	10	A	89	59.75118383	.00012183	00000-0	10918-3	0	25
19792	82.3577	41.3771	0038211			65.6456	294.8491	15.67125432		283

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Kosmos 2001

Upp: 14 Feb

9796U	89	11	A	89	45.23140220	.00000003	00000-0	99999-4	0	2
9796	62.8078	159.3229	7343041	318.2200	4.2733	2.03247483				1
9796U	89	11	A	89	45.70749344	.00000207	00000-0	99999-4	0	4
9796	62.8739	159.1376	7341757	318.2494	4.5618	2.03290328				4

89-12A

Kosmos 2002

Upp: 14feb

9800U	89	12	A	89	45.92374393	.00469396	15785-4	12281-2	0	2
9800	65.8551	20.4754			1388874	148.7420	220.3590	13.04323997		1
9800U	89	12	A	89	46.00043333	.00441421	15732-4	11052-2	0	5
9800	65.8455	20.2908			1390402	148.6873	220.5130	13.04386924		2
19800U	89	12	A	89	101.49879737	.00457733	17448-4	10411-2	0	108
19800	65.8214	250.2974			1206175	122.5765	249.7554	13.46500208		738
9801U	89	12	J	89	45.84708239	-.00002271	15748-4	00000	0	0
9801	65.8553	20.6497			1383453	148.6474	221.2547	13.06029379		0
9805U	89	12	C	89	46.22714228	.03780979	16318-4	93134-2	0	1
9805	65.8092	19.7879			1346847	149.1828	219.5932	13.14209452		5
9806U	89	12	D	89	46.22651957	.03887978	16107-4	97508-2	0	1
9806	65.8897	19.7477			1339413	149.1199	219.2810	13.15704716		5
9821U	89	12	E	89	52.44127414	.03682703	17286-4	77046-2	0	6
9821	65.8616	5.3270			1218582	145.0866	226.1017	13.44440399		87

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Navstar 2-01

(USA 35)

Upp: 14 feb från Cape Canaveral m. Delta II

9802U	89	13	A	89	49.61553610	.00000015	00000-0	99999-4 0	2
9802	55.1150	216.4765	0090439	179.8887	179.9325	2.01393534		4	
9803U	89	13	B	89	46.07737577	.02379119	-18052-4	30754-2 0	1
9803	30.3260	207.1162	0496644	20.8293	341.2102	15.12519876		6	
9804U	89	13	C	89	46.61899389	.00161833	25877-5	11748-2 0	2
9804	37.3932	212.1179	6092020	198.3645	122.9724	4.01493766		1	

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Molniya 1-75

Upp: 15 feb

9807U	89	14	A	89	46.51711021	.00000163	00000-0	99999-4	0	1
9807	62.9275	343.2615	7381587	279.9471	11.3266	2.06194440				1
9807U	89	14	A	89	47.97204403	-.00000025	00000-0	99999-4	0	2
9807	62.9347	343.0687	7381222	279.9603	11.4063	2.06215674				4

89-15A

Kosmos 2003

Upp: 17 feb

Ned: 3 mars

9818U	89 15	A 89	48.67490076	-.00000454	00000-0	00000 0 0	1
9818	62.8119	322.4330	0008180	225.1515	134.8356	16.08347574	1
9818U	89 15	A 89	48.79925925	-.00061455	00000-0	-71681-4 0	3
9818	62.8115	321.9389	0008186	225.3828	134.6614	16.08323931	3
9818U	89 15	A 89	49.17231279	.00086649	92511-5	10228-3 0	4
9818	62.8118	320.4546	0007996	225.1378	135.0848	16.08463050	9
9818U	89 15	A 89	49.48312362	.00068664	70293-5	10228-3 0	5
9818	62.8074	319.2242	0009948	99.9835	257.7195	16.04768114	14
9818U	89 15	A 89	49.48356053	.00093582	11332-4	10228-3 0	6
9818	62.8114	319.2231	0025932	79.3638	281.1190	16.08959411	14
9818U	89 15	A 89	50.78862891	.00095119	11671-4	10228-3 0	8
9818	62.8110	314.0269	0025967	80.3527	280.0877	16.09202115	35
9818U	89 15	A 89	49.85643912	.00093579	11394-4	10228-3 0	7
9818	62.8109	317.7392	0026017	80.2317	280.0783	16.08953322	20

9818U	89 15	A 89	51.41000612	.00094665	11641-4	10073-3 0	9
9818	62.8086	311.5528	0025646	80.0403	280.4729	16.09381156	45
9818U	89 15	A 89	51.78278117	.00111881	13385-4	11789-3 0	10
9818	62.8088	310.0690	0025588	80.3768	280.0485	16.09473605	51
9818U	89 15	A 89	52.52829942	.00117950	14029-4	12234-3 0	11
9818	62.8084	307.0999	0025473	80.4944	280.0335	16.09699392	63
9818U	89 15	A 89	52.71463947	.00118110	14264-4	12216-3 0	12
9818	62.8081	306.3565	0025535	80.1062	280.2924	16.09742829	66
9818U	89 15	A 89	53.70848159	.00126739	15229-4	12858-3 0	13
9818	62.8071	302.3952	0025372	79.7191	280.7730	16.10018212	82
9818U	89 15	A 89	54.01900634	.00099031	11839-4	12858-3 0	15
9818	62.8112	301.1655	0046123	64.2100	293.9510	16.04735419	87
9818U	89 15	A 89	54.70485216	.00087449	10871-4	11338-3 0	18
9818	62.8085	298.4513	0045656	64.2322	296.3470	16.04848335	98
9818U	89 15	A 89	55.70173957	.00105923	12432-4	13488-3 0	19
9818	62.8090	294.5063	0045419	64.0984	296.5657	16.05075246	114
9818U	89 15	A 89	56.76075580	.00100047	11916-4	12612-3 0	20
9818	62.8091	290.3158	0045003	64.1267	296.4094	16.05288541	131
9818U	89 15	A 89	57.88194032	.00101174	12029-4	12577-3 0	21
9818	62.8095	285.8779	0044751	64.0349	296.5594	16.05522995	149
9818U	89 15	A 89	58.56701974	.00102467	12379-4	12628-3 0	22
9818	62.8094	283.1636	0044572	64.1260	296.4703	16.05670945	160

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Kosmos 2003

parts. 1

9818U	89 15 A	89 58.94067032	.00205621	12064-4	12628-3 0	23
9818	62.8095	281.6763 0028632	121.6647	241.5330	16.16785876	166
9818U	89 15 A	89 59.74414370	.00203792	11992-4	12317-3 0	24
9818	62.8061	273.4438 0027160	119.6496	240.7296	16.17105452	179
9818U	89 15 A	89 60.73340944	.00207620	12382-4	12134-3 0	25
9818	62.8087	274.4604 0027172	120.7194	239.7667	16.17544354	195

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EXOS-D (АКЕБОН)

Upp: 21 feb m. M435-2 fr.

19822U	89	16	A	89	53.22368121	.02305841	00000-0	12410	0	0	2
19822	75.1137	105.9009			4335818	158.1071	228.3171	6.81965251			2
19822U	89	16	A	89	53.22368121	.02305841	00000-0	12410	0	0	3
19822	75.1137	105.9009			4335818	158.1071	228.3171	6.81965251			2
19822U	89	16	A	89	54.83895855	.00051083	00000-0	38288-2	0	0	6
19822	75.0885	105.1496			4337839	157.1246	230.3522	6.81457099			13
19822U	89	16	A	89	55.57300204	.00053505	00000-0	38288-2	0	0	7
19822	75.1204	104.8329			4339658	156.7127	231.1755	6.81524392			18
19822U	89	10	A	89	58.65575204	.00026854	00000-0	20426-2	0	0	14
19822	75.1035	103.4007			4336284	154.8339	234.9242	6.81636099			39
19822U	89	16	A	89	61.44420815	.00025946	00000-0	19778-2	0	0	16
19822	75.1070	102.1232			4335390	153.1726	238.1742	6.81777027			58
19822U	89	16	A	89	73.47163885	.00030097	00000-0	24742-2	0	0	25
19822	75.1079	96.6019			4327986	145.9313	251.6429	6.82426425			140

9822U	89	16	A	89	79.48048339	.00025388	00000-0	20450-2	0	34
9822	75.0941	93.8645	4327128	142.3673	257.7708	6.82761893	181			
19822U	89	16	A	89	86.95134092	.00020219	00000-0	16349-2	0	40
19822	75.0877	90.4392	4325198	137.9134	265.0816	6.83076365	232			
19822U	89	16	A	89	106.27331013	.00022467	00000-0	19237-2	0	60
19822	75.0946	81.5688	4318286	126.2618	281.9038	6.83791077	364			
9822U	89	16	A	89	135.49659177	.00036551	00000-0	30438-2	0	94
9822	75.1089	68.1147	4309906	108.6733	301.9805	6.85499637	564			

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Kosmos 2004

Upp: 22 feb. fr. Plestisk

19826U	89 17	A 89	53.42301049	.00070155	00000-0	77378-1	0	3
19826	82.9480	232.1178	0028841	277.3314	82.4553	13.71049152		4
19826U	89 17	A 89	53.56896785	.00070132	00000-0	77378-1	0	4
19826	82.9473	232.0096	0029157	277.1388	82.6340	13.71025148		6

89-18A

Meteor 2-18

Upp: 28 feb. från Plcsotsk

9851U	89 18	A 89	59.37464173	.00000006	00000-0	00000 0 0	3
9851	82.5186	245.8822	0013239	252.2237	107.9042	13.83732896	3
9851U	89 18	A 89	60.60386091	.00000117	00000-0	99999-4 0	8
9851	82.5218	244.8942	0011934	239.8591	120.1434	13.83728703	20
9851U	89 18	A 89	61.11001707	.00000117	00000-0	99999-4 0	9
9851	82.5176	244.4995	0013414	247.0277	113.0261	13.83746689	27

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19862U	89	19	A	89	66.68957346	.00691478	40676-4	31528-3	0	13
19862	62.8077	16.1747	0090985	114.5551	246.5072	16.12052432				79
19862U	89	19	A	89	66.93766893	.00575604	40340-4	25826-3	0	14
19862	62.8034	15.1828	0090175	114.1782	246.8529	16.12388079				83
19862U	89	19	A	89	67.18572179	.00603049	39053-4	25826-3	0	15
19862	62.8046	14.2098	0138888	73.2238	277.9913	16.03577607				87
19862U	89	19	A	89	67.49927972	.00659670	39687-4	27527-3	0	16
19862	62.8041	12.9677	0139270	72.7745	288.5880	16.03751888				92
19862U	89	19	A	89	67.74870609	.00720244	39528-4	29513-3	0	17
19862	62.8032	11.9827	0138282	72.6764	288.9668	16.04125945				96
19862U	89	19	A	89	68.68332414	.00769643	39478-4	30028-3	0	19
19862	62.8030	8.2846	0133413	73.0087	288.5620	16.05592613				111
19862U	89	19	A	89	68.99467621	.01352823	39816-4	49832-3	0	20
19862	62.8043	7.0504	0132675	72.9942	288.7122	16.06273226				116
19862U	89	19	A	89	69.36805103	.00878910	40019-4	31720-3	0	21
19862	62.8050	5.5708	0130632	73.1428	288.1153	16.06907164				122

19862U	89	19	A	89	69.74139575	.00899559	39756-4	31720-3	0	22
19862	62.8030				4.0909	0128399	73.2513	288.2721	16.07580103	128
19862U	89	19	A	89	70.17670676	.00851132	39073-4	31720-3	0	23
19862	62.7958				2.3824	0141564	73.0823	286.7815	16.04368810	135
19862U	89	19	A	89	70.17701794	.00870977	39645-4	31720-3	0	24
19862	62.8038				2.3595	0142564	72.6437	289.0107	16.04383113	135
19862U	89	19	A	89	71.98267704	.00783383	39705-4	24555-3	0	28
19862	62.8024				355.1965	0133429	73.2494	288.3179	16.07680496	164
19862U	89	19	A	89	72.16925763	.00907982	40286-4	24555-3	0	29
19862	62.8026				354.4581	0109579	74.2780	289.6749	16.13833693	167
19862U	89	19	A	89	72.47855848	.00907576	40303-4	24555-3	0	30
19862	62.8008				353.2115	0105666	75.3874	286.0709	16.14594688	172
19862U	89	19	A	89	72.72622347	.00962795	40871-4	24555-3	0	31
19862	62.8132				352.2216	0103782	74.7958	286.7739	16.15503973	176
19862U	89	19	A	89	72.78806553	.05571843	40684-4	13229-2	0	32
19862	62.8112				351.9776	0104542	75.1660	286.1383	16.15959953	177
19862U	89	19	A	89	73.59166506	.01625028	41093-4	33684-3	0	35
19862	62.8004				348.7292	0095509	74.7855	286.0705	16.18944503	190
19862U	89	19	A	89	73.71523446	.08793104	41284-4	17562-2	0	36
19862	62.8063				348.2375	0094232	74.2166	286.8804	16.19489978	192
19862U	89	19	A	89	73.77696306	.01401787	41148-4	28211-3	0	37
19862	62.8013				347.9822	0094378	74.7028	286.2865	16.19426264	193
19862U	89	19	A	89	74.20906039	.01635895	40785-4	30313-3	0	38
19862	62.8005				346.2316	0090178	75.3647	286.0741	16.20941870	200

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9862U	89 19	A 89	74.82551343	.01695726	41382-4	24662-3 0	39
9862	62.8005	343.7283	0085050	75.0639	286.1737	16.23091047	210
19862U	89 19	A 89	75.13342138	.00555426	40002-4	24662-3 0	40
19862	62.8054	342.4945	0122957	42.7842	306.6441	16.06397440	215
19862U	89019	A.890	75.75772445	.00883911	00000-0	00000-0 0 0041	
19862	062.8073	340.0191	0119875	042.3265	318.7986	16.0748890600225	
19862U	89 19	A 89	75.81992135	.00865009	40252-4	34715-3 0	41
19862	62.8025	339.7716	0121907	42.5606	318.5005	16.07599225	220
19862U	89 19	A 89	76.19305727	.01033525	39683-4	39943-3 0	42
19862	62.8026	338.2854	0119652	42.8212	318.3876	16.08410287	232
19862U	89 19	A 89	77.12505816	.01027554	40130-4	36315-3 0	44
19862	62.8018	334.5748	0114309	42.9770	318.1330	16.10345689	247
19862U	89 19	A 89	78.24198338	.01012300	40453-4	32111-3 0	46
19862	62.7990	330.1076	0107726	43.6383	317.4226	16.12680344	255
19862U	89 19	A 89	79.72839128	.01286659	40947-4	33836-3 0	48
19862	62.7983	324.1431	0096765	44.1973	317.0040	16.16551660	289
19862U	89 19	A 89	80.34660534	.01431104	40854-4	34129-3 0	49
19862	62.7983	321.6488	0092443	44.4176	316.5458	16.18270569	299

9862U 89019 A 89080.65546557 .01466803 00000-0 00000-0 0 0050	
9862 062.8071 320.3923 0090142 042.8329 318.0740 16.1918508500304	
19862U 89019 A 89081.33829380 .00632143 00000-0 00000-0 0 0052	
19862 062.8060 317.6722 0119483 070.8761 290.6208 16.0596689000315	
19862U 89019 A 89080.96465149 .01499905 00000-0 00000-0 0 0051	
19862 062.8051 319.1378 0121985 071.3369 290.1907 16.0562464500309	
19862U 89019 A 89081.89849932 .00767727 00000-0 00000-0 0 0054	
19862 062.7914 315.4540 0119578 071.1423 290.3589 16.0691363000325	
19862U 89019 A 89082.45835533 .00865722 00000-0 00000-0 0 0055	
19862 062.7940 313.2310 0118168 070.6606 290.8215 16.0796548000334	
19862U 89 19 A 89 85.49993844 .01023020 40524-4 31238-3 0 63	
19862 62.7929 301.0803 0103023 71.9608 289.2572 16.13950798 392	
19862U 89 19 A 89 85.74776905 .01026163 40743-4 30636-3 0 64	
19862 62.7927 300.0863 0101510 72.1285 289.3094 16.14455981 386	
19862U 89 19 A 89 85.87159695 .00562399 39264-4 30636-3 0 65	
19862 62.7947 299.5916 0132512 91.9398 267.5764 16.02355710 388	
19862U 89 19 A 89 86.24634805 .00633045 39798-4 33770-3 0 66	
19862 62.7912 298.1130 0130741 92.0597 269.7113 16.02918539 394	
19862U 89 19 A 89 86.74529079 .00655646 39568-4 33761-3 0 67	
19862 62.7930 296.1407 0129274 91.9486 269.6639 16.03582268 402	
19862U 89 19 A 89 87.55566884 .00725348 39601-4 35476-3 0 68	
19862 62.7921 292.9374 0125698 92.3246 269.5585 16.04821753 415	

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19862U	89 19	A 89	88.36533830	.00777979	39631-4	36120-3 0	69
19862	62.7907	289.7273	0121951	92.3913	269.2526	16.066 6493	428
19862U	89 19	A 89	88.67656886	.00897102	39563-4	40839-3 0	70
19862	62.7887	288.4915	0120418	92.5815	268.9378	16.06613848	433
19862U	89 19	A 89	89.54749676	.00853155	40161-4	36292-3 0	71
19862	62.7900	285.0323	0116083	92.6523	268.7406	16.08139627	447
19862U	89 19	A 89	89.98257133	.00879772	39740-4	36122-3 0	72
19862	62.7901	283.2985	0114026	92.7105	268.7070	16.08898681	454
19862U	89 19	A 89	90.66608256	.00917876	40492-4	35591-3 0	73
19862	62.7888	280.5748	0110579	92.8323	268.5624	16.10143626	465
19862U	89 19	A 89	90.91445905	.01043918	40507-4	35591-3 0	74
19862	62.7886	279.5809	0093726	95.5713	268.3016	16.14597812	469
19862U	89 19	A 89	91.40929476	.01115111	40631-4	35591-3 0	75
19862	62.7394	277.5922	0091091	95.5360	265.7327	16.15737555	477
19862U	89 19	A 89	91.71855106	.01115921	41182-4	34379-3 0	76
19862	62.7893	276.3478	0089240	95.6161	265.5213	16.16434889	482
19862U	89 19	A 89	92.33700214	.01138472	40789-4	32201-3 0	77
19862	62.7880	273.8541	0085772	95.9773	265.2457	16.17890632	492
19862U	89 19	A 89	92.76949012	.01147523	41285-4	30891-3 0	78
19862	62.7883	272.1108	0082856	95.9338	265.1397	16.18893230	499

19862U	89	19	A	89	95.12275817	.00946225	39673-4	42772-3	0	85
19862	62.7868	262.0573	0114960	123.3397	232.5572	16.07713225				537
19862U	89	19	A	89	95.62023634	.00909758	40146-4	39702-3	0	86
19862	62.7870	260.6799	0112015	128.2173	232.9169	16.08648450				545
19862U	89	19	A	89	96.17950998	.00975994	40206-4	40476-3	0	87
19862	62.7855	258.4511	0108971	128.0923	233.1302	16.09753983				554
19862U	89	19	A	89	96.55211678	.00920586	40120-4	37147-3	0	88
19862	62.7852	256.9654	0106824	128.1683	232.8927	16.10447536				560
19862U	89	19	A	89	96.92459249	.00955970	4.096-4	37173-3	0	89
19862	62.7873	255.4755	0104831	128.1176	233.0151	16.11202633				566
19862U	89	19	A	89	97.66900388	.01077049	40495-4	39027-3	0	90
19862	62.7860	252.4984	0100348	128.3484	232.7813	16.12756317				578
19862U	89	19	A	89	98.10287978	.01208542	40795-4	41723-3	0	91
19862	62.7848	250.7595	0097369	127.9920	233.0951	16.13793862				585
19862U	89	19	A	89	98.47453900	.01166391	40737-4	38392-3	0	92
19862	62.7859	249.2670	0095249	128.2393	232.7217	16.14666290				591
19862U	89	19	A	89	98.84601917	.01212057	40499-4	38026-3	0	93
19862	62.7880	247.7732	0092692	128.2104	232.8053	16.15611754				597
19862U	89	19	A	89	99.09353584	.01237141	40282-4	37637-3	0	94
19862	62.7822	246.7778	0091012	128.0322	232.9051	16.16222048				601
19862U	89	19	A	89	99.77374970	.01400294	40848-4	38452-3	0	95
19862	62.7867	244.0357	0086313	128.2696	232.7849	16.18071380				612

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Meteorat 4

Upp: 6 mars från Kourou; Ariane 4-03

19876U	89 20	H 89	67.47397614	-.00000022	00000-0	99999-5 0	1
19876	1.1779	298.1452	0081483	30.2936	334.9624	1.01140058	0
19876U	89 20	H 89	70.41878347	-.00000098	00000-0	99999-5 0	3
19876	1.1870	297.9934	0041115	30.8765	325.8159	1.00540554	3
19876U	89 20	H 89	71.42102675	-.00000092	00000-0	99999-5 0	4
19876	1.1762	298.2176	0041723	30.5265	328.6898	1.00534538	4

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JCSat 1

Upp: 6 mars från Kourou; Ariane 4-03

19874U	89 20	A	89	69.11552056	-.00000169	00000-0	99999-4 0	1
19874	0.1084	349.9519	0023403	139.6517	230.5277	1.00257930		2
19874U	89 20	A	89	70.11308023	-.00000157	00000-0	99999-4 0	2
19874	0.1072	350.7415	0022163	133.9003	235.6123	1.00297082		3
19874U	89 20	A	89	71.10990743	-.00000157	00000-0	99999-4 0	3
19874	0.0915	350.2090	0022111	128.0584	241.8479	1.00289696		4
19877U	89 20	C	89	69.76624826	.00049673	00000-0	51558-2 0	9
19877	7.1750	330.3833	7322242	180.3416	178.5125	2.25166268		9

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TDRS 4

Upp: 13 mars från Cape Canaveral m. STS 29

9883U	89	21	B	89	73.02036238	.00000115	00000-0	99999-4 0	1
9883		0.1484		45.4403	0022711	246.0773	68.1969	1.00419555	1
9883U	89	21	B	89	74.01620620	.00000119	00000-0	99999-4 0	2
ORR3		0.1556		42.6847	0021228	249.2811	67.7728	1.00432302	2

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STS 29 (Discovery F8)

Upp: 13 mars från Cape Canaveral

Ned: 18 mars vid Edwards AFB

19882U	89	21	A	89	72.61074390	.00000516	00000-0	74863-6 0	1
19882	28.4602	227.6442	0007712	248.6964	111.2824	15.91256639			0
19882U	89	21	A	89	72.67345375	.00000509	00000-0	74863-6 0	2
19882	28.4613	226.8707	0005187	308.6727	51.3470	15.90950631			1
19882U	89	21	A	89	72.67345287	.17350392	00000-0	17473-1 0	3
19882	28.4582	226.8767	0002479	315.1376	44.8854	15.90116006			1
19882U	89	21	A	89	72.73618920	.00191636	00000-0	58238-3 0	4
19882	28.4585	226.4097	0002584	296.5147	63.4955	15.90363531			2
19882U	89	21	A	89	72.96683101	.00064313	00000-0	25599-3 0	5
19882	28.4550	224.6966	0022407	189.2766	52.5498	15.84724700			4
19882U	89	21	A	89	73.16457175	.00008639	-59707-4	00000 0 0	6
19882	28.7451	350.8556	1087044	115.0904	178.6197	18.48993939			7
19882U	89	21	A	89	73.16458310	.00000249	00000-0	00000 0 0	7
19882	28.4613	223.2113	0023004	194.1713	98.3518	15.84881046			8
19882U	89	21	A	89	73.55415843	-.00101560	00000-0	-41670-3 0	8
19882	28.4595	220.3275	0023371	200.1716	159.8216	15.84857645			14

9882U	89	21	A	89	73.68008187	-.00267239	00000-0	-11405-2	0	9
9882	28.4601	219.3909	0023148	201.6673	158.2606	15.84742729				17
9882U	89	21	A	89	73.68008187	-.00267239	00000-0	-11405-2	0	10
9882	28.4601	219.3909	0023148	201.6673	158.2606	15.84742729				17
9882U	89	21	A	89	74.12499999	.00064097	00000-0	25599-3	0	11
9882	28.4618	216.0890	0023584	207.3252	176.1663	15.84611246				24
9882U	89	21	A	89	74.68762285	.00189322	00000-0	74414-3	0	13
9882	28.4596	211.9263	0024151	213.6005	146.3154	15.84747595				33
9882U	89	21	A	89	75.12499999	.00064605	00000-0	25599-3	0	14
9882	28.4601	208.6779	0024519	218.7252	121.6414	15.84735133				39
9882U	89	21	A	89	75.75808132	.00039808	00000-0	16097-3	0	15
9882	28.4609	203.9936	0024551	221.2966	137.9221	15.84272933				49
9882U	89	21	A	89	75.88416932	-.00173436	00000-0	-74311-3	0	17
9882	28.4395	203.0386	0024478	222.6431	137.2274	15.84213241				52
9882U	89	21	A	89	76.12499999	.00063243	00000-0	25599-3	0	18
9882	28.4659	201.2785	0024356	226.5993	69.7006	15.84304602				56
9882U	89	21	A	89	76.70297730	-.00133142	00000-0	-56528-3	0	19
9882	28.4633	197.0006	0024255	234.0088	125.7035	15.84244813				65
9882U	89	21	A	89	77.12499999	.00062299	00000-0	25599-3	0	20
9882	28.4657	193.8721	0024377	239.2146	12.1117	15.83994282				71
9882U	89	21	A	89	77.56614560	.00062365	00000-0	25599-3	0	21
9882	28.4622	190.6081	0024433	242.9371	9.2870	15.84013618				78

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Upp: 16 mars

Ned: 30 mars

9893U	89022	A	89075.67565010	.00000000	00000-0	00000-0	0	0001
9893	062.8429		348.7449 0101422	116.4859	244.7613	15.8664285600001		
9893U	89022	A	89075.80169826	.00000000	00000-0	00000-0	0	0002
9893	062.8443		348.2635 0101408	116.8285	244.4154	15.8664465800003		
9893U	89 22	A	89 75.92773781	.00312606	40486-4	77022-3	0	2
9893	62.8453		347.7785 0104354	116.0435	245.1729	15.86730495		5
9893U	89 22	A	89 76.24281723	-.00049765	00000-0	-12172-3	0	3
9893	62.8460		346.5649 0104076	116.0976	244.9885	15.86743437		10
9893U	89 22	A	89 76.43189749	-.00010810	00000-0	-12172-3	0	4
9893	62.8516		345.8384 0055286	204.2998	149.3704	15.59796446		13
9893U	89 22	A	89 76.68843240	-.00014146	00000-0	-12172-3	0	6
9893	62.8489		344.8926 0063095	227.2095	132.2106	15.65900386		17

9893U	89 22	A 89	77.45478824	-.00017794	00000-0	-15366-3	0	8
9893	62.8454	342.0327	0063183	227.0597	132.6404	15.65906385		29
9893U	89 22	A 89	77.83792255	-.00009233	00000-0	-78556-4	0	9
9893	62.8459	340.6025	0063338	226.8787	132.7240	15.65906277		35
19893U	89 22	A 89	78.85966797	-.00001513	00000-0	-11114-4	0	10
19893	62.8448	336.7855	0062901	227.4917	132.2232	15.65932823		51
9893U	89 22	A 89	79.68979686	.00002377	00000-0	22783-4	0	11
9893	62.8459	333.6927	0062654	227.6473	132.0217	15.65963140		64
9893U	89022	A 89080	.64762892	.00012876	00000-0	00000-0	0 0012	
9893	062.8455	330.1231	0064955	229.2408	130.3938	15.6599392400079		
19893U	89022	A 89081	.35003312	.00019427	00000-0	00000-0	0 0013	
19893	062.8463	327.4993	0064571	229.9480	129.6839	15.6602133100090		
19893U	89022	A 89082	.37170115	.00012569	00000-0	00000-0	0 0014	
19893	062.8457	323.6891	0064546	229.8345	129.7986	15.6603685200106		
19893U	89 22	A 89	82.69095164	-.00002689	00000-0	-21310-4	0	15
19893	62.8452	322.4938	0062362	228.5469	130.9871	15.66034040		111
19893U	89 22	A 89	83.64876655	.00014054	00000-0	12617-3	0	16
19893	62.8447	318.9206	0062084	228.6153	131.0692	15.66075943		126
19893U	89 22	A 89	84.79807186	-.00014076	00000-0	-12072-3	0	18
19893	62.8460	314.6310	0061949	229.4437	130.0828	15.66071791		144
19893U	89 22	A 89	84.92578459	.00009180	00000-0	81777-4	0	19
19893	62.8454	314.1508	0061785	229.5683	130.0272	15.66093110		146

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19893U	89 22	A 89	85.81969437	-.00002335	00000-0	-18245-4 0	20
19893	62.8444	310.8160	0061759	229.5133	130.0710	15.66101728	160
19893U	89 22	A 89	86.77745827	-.00002642	00000-0	-20903-4 0	21
19893	62.8434	307.2407	0061571	229.8160	129.8403	15.66120753	175
19893U	89 22	A 89	85.56522743	-.00129613	00000-0	-11554-2 0	23
19893	62.9418	300.5669	0061112	230.6532	128.9959	15.66143029	203
19893U	89 22	A 89	89.07599591	-.00011829	00000-0	-10090-3 0	24
19893	62.3445	298.6618	0061020	230.7484	128.8279	15.66186828	211

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Progress 41

Upp: 16 mars från Baikonur

9895U	89	23	A	89	75.77983152	-.00008322	57476-4	00000	0	0	1
9895	51.6287	107.8423	0042334	85.3795	275.1430	16.21568376					0
9895U	89	23	A	89	75.77983152	-.00008322	57476-4	00000	0	0	2
9895	51.6287	107.8423	0042334	85.3795	275.1430	16.21568376					0
9895U	89	23	A	89	76.02635570	.00849709	57757-4	30174-3	0		3
9895	51.6345	106.4813	0041374	86.4798	274.3012	16.21909311					4
9895U	89	23	A	89	76.08793056	.00276871	16711-4	30174-3	0		4
9895	51.6403	106.1468	0121785	145.6494	211.8118	15.95839511					5
9895U	89	23	A	89	76.21376307	.01310421	16570-4	13805-2	0		5
9895	51.6394	105.4780	0120887	146.6768	214.3199	15.96286439					7
9895U	89	23	A	89	76.40151481	.00606463	16842-4	63465-3	0		6
9895	51.6411	104.4820	0121095	147.4136	213.2996	15.96387093					10
9895U	89	23	A	89	76.96484282	.00072510	00000-0	28460-3	0		8
9895	51.6382	101.5539	0072743	174.8127	178.7566	15.82107665					19
9895U	89	23	A	89	77.78709353	.00074099	00000-0	28460-3	0		9
9895	51.6394	97.2334	0074933	178.5585	181.7440	15.82283666					32

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Kosmos 2007

Upp: 23 mars

19900U	89024	A	89082.57379502	.00000000	00000-0	00000-0	0	0001
19900	064.7470		042.5438 0076978	069.5348	291.3978	16.1612215400001		
19900U	89 23	A	89 82.88312480	.00851581	34893-4	34712-3	0	5
19900	64.7440		41.3904 0070532	67.4948	293.3702	16.16725047		6
19900U	89 24	A	89 83.25419492	.01071472	35430-4	41346-3	0	6
19900	64.7431		39.9915 0068444	67.7279	293.3560	16.17642890		12
19900U	89 24	A	89 83.56320094	.00550517	10698-4	41346-3	0	7
19900	64.7450		38.3328 0050207	48.3777	310.7469	16.11977609		17
19900U	89 24	A	89 83.68752023	.00341742	60349-4	41346-3	0	8
19900	64.7325		38.3738 0041091	78.6644	279.8353	16.06062939		19
19900U	89 24	A	89 84.31047774	.00446100	10138-3	52317-3	0	9
19900	64.7470		36.0658 0040777	79.0897	281.5151	16.06556068		29
19900U	89 24	A	89 84.80839549	.00398527	82013-4	45684-3	0	10
19900	64.7448		34.2227 0040414	78.9060	281.5861	16.06937932		37
19900U	89 24	A	89 85.80390624	.00424688	94068-4	46263-3	0	11
19900	64.7456		30.5345 0039540	78.0814	282.5210	16.07781393		53

19900U	89 24	A	89 86.79885715	.00435785	10026-3	45078-3 0	12
19900	64.7454		26.8435 0038785	77.6876	282.7554	16.08616426	69
19900U	89 24	A	89 87.48260968	.00460497	11287-3	45764-3 0	13
19900	64.7453		24.3014 0037749	77.3853	283.2528	16.09292394	80
19900U	89 24	A	89 88.41448575	.00532415	15741-3	50422-3 0	14
19900	64.7448		20.9360 0036745	76.9723	283.7002	16.10273115	95
19900U	89 24	A	89 88.72495489	.00540826	80043-5	49408-3 0	15
19900	64.7419		19.6796 0036354	76.9547	283.5257	16.10601911	100
19900U	89 24	A	89 89.46988233	.00608397	82615-5	52424-3 0	16
19900	64.7427		16.9035 0035548	76.5871	284.0197	16.11500656	112
19900U	89024	A	89089.96689725	.00510817	00000-0	00000-0 0 0017	
19900	064.7704		015.0811 0071313	088.6117	272.3115	16.0353652500120	
19900U	89 24	A	89 90.21629661	.00356303	80152-5	41552-3 0	18
19900	64.7448		14.1336 0067361	90.6603	270.0155	16.03731508	124
19900U	89 24	A	89 90.77749125	.00430845	80811-5	48904-3 0	19
19900	64.7430		12.0631 0066512	90.1844	270.7800	16.04219128	133
19900U	89 24	A	89 91.71233575	.00433401	84103-5	47069-3 0	20
19900	64.7430		8.6119 0065144	89.7430	271.1283	16.05036046	148
19900U	89 24	A	89 94.87946701	.00690031	10096-4	47821-3 0	25
19900	64.7445		356.8211 0035372	87.1302	273.4063	16.14535696	199
19900U	89 24	A	89 95.12786309	-.00258025	00000-0	-28332-3 0	27
19900	54.7442		355.8954 0026385	45.4011	315.0276	16.09161608	203

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Ant. 1

19900U	89 24	A 89	95.00334076	.00442167	10321-3	47821-3 0	26
19900	64.7473	356.3568	0026542	46.7314	312.4158	16.08847061	201
19900U	89 24	A 89	95.37645055	.00419222	93852-4	43653-3 0	28
19900	64.7428	354.9731	0026477	45.2197	315.3150	16.09424655	207
19900U	89 24	A 89	95.68708105	.00483003	12512-3	49302-3 0	29
19900	64.7435	353.8171	0026137	44.7955	315.5811	16.09743967	212
19900U	89 24	A 89	96.12189595	.00335966	55470-4	49302-3 0	30
19900	64.7447	352.2054	0042825	87.4310	266.9525	16.02883565	219
19900U	89 24	A 89	96.49729509	.00341628	57611-4	49302-3 0	31
19900	64.7420	350.8239	0043075	86.5720	274.0103	16.03130004	225
19900U	89 24	A 89	97.37049537	.00352254	61355-4	49302-3 0	32
19900	64.7406	347.6059	0042158	85.6682	274.8977	16.03693606	239
19900U	89 24	A 89	97.68228047	.00356744	63271-4	49302-3 0	33
19900	64.7401	346.4590	0041953	85.4919	275.0981	16.03913396	244
19900U	89 24	A 89	98.49270417	.00363391	66028-4	48515-3 0	34
19900	64.7410	343.4660	0041428	84.8193	275.7778	16.04502008	257
9900U	89 24	A 89	100.73533567	.00331947	57269-4	40272-3 0	37
9900	64.7398	335.1740	0038973	83.8763	276.7705	16.06203478	293
9900U	89 24	A 89	101.91794767	.00472232	11477-3	53949-3 0	40
9900	64.7423	330.7948	0037780	83.8128	276.7860	16.07200011	310

19900U	89 24	A	89102.47785892	.00491237	12503-3	54687-3 0	41
19900	64.7383	328.7189	0036735	83.2490	277.2005	16.07685765	321
19900U	89 24	A	89102.72667589	.00414823	89886-4	45696-3 0	42
19900	64.7376	327.7932	0036694	83.3515	277.1294	16.07851612	325
19900U	89 24	A	89104.21884415	.00429376	98331-4	43604-3 0	45
19900	64.7388	322.2519	0034915	81.7427	278.8800	16.09209363	349
19900U	89 24	A	89104.65379922	.00479860	12323-3	47464-3 0	46
19900	64.7366	320.6389	0034416	81.6224	278.9286	16.09635622	356
19900U	89 24	A	89105.64756839	.00533560	15512-3	49512-3 0	47
19900	64.7376	316.9365	0033160	81.4010	279.1612	16.10667937	372
19900U	89 24	A	89106.51656126	.00507219	78186-5	44308-3 0	48
19900	64.7370	313.6972	0032223	80.2666	280.1779	16.11578016	386
19900U	89 24	A	89107.57115262	.00237131	85842-5	19395-3 0	49
19900	64.7361	309.7589	0031130	78.8636	281.7153	16.12679379	403
19900U	89 24	A	89107.63314555	-.02726305	00000-0	-21996-2 0	50
19900	64.7408	309.5262	0031445	76.1128	284.3604	16.12698038	404
19900U	89 24	A	89107.69516366	.00735040	83050-5	58952-3 0	51
19900	64.7384	309.2929	0030819	78.5071	282.0315	16.12877945	405
19900U	89 24	A	89107.88115006	.00574170	82883-5	58952-3 0	52
19900	64.7398	308.6016	0056721	86.1414	273.2612	16.06857178	408
9900U	89 24	A	89108.62809914	.00408916	85566-5	41028-3 0	54
9900	64.7344	305.8340	0055007	84.5653	276.0494	16.07413721	420

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forts. 2

9900U	89 24	A	89118.71857131	.00556377	16397-3	57069-3 0	69
9900	64.7353	268.5163	0037919	107.4278	253.0813	16.08814860	582
9900U	89 24	A	89120.64461289	.00467242	11859-3	43252-3 0	72
9900	64.7321	251.3311	0035957	105.5141	254.8360	16.10480846	613
9900U	89 24	A	89121.69999931	.00437824	82861-5	38303-3 0	74
9900	64.7317	257.4162	0034555	104.7413	255.7234	16.11387744	630
9900U	89 24	A	89122.19543775	.00267821	37235-4	38303-3 0	75
9900	64.7266	255.5687	0039365	159.1796	198.7305	16.03605576	638
9900U	89 24	A	89123.38150606	.00261968	36221-4	36049-3 0	76
9900	64.7324	251.1933	0038624	158.1101	202.0911	16.04282046	657
9900U	89 24	A	89123.63085957	.00313169	49878-4	42493-3 0	77
9900	64.7333	250.2727	0038996	158.1287	202.1882	16.04458661	661
9900U	89 24	A	89123.81783867	.00325788	53813-4	43914-3 0	78
9900	64.7333	249.5831	0038603	157.7885	202.5118	16.04592923	664
9900U	89 24	A	89127.74103171	.00462894	11075-3	53165-3 0	83
9900	64.7338	235.0618	0033905	156.6755	203.7288	16.07432799	727

9900U	89 24	A	89128.36304713	.00350226	64886-4	39254-3 0	84
9900	64.7310		232.7554 0032630	156.0169	204.1265	16.07906775	737
9900U	89 24	A	89128.73621946	.00360685	69040-4	39619-3 0	85
9900	64.7318		231.3708 0032395	156.1447	204.1852	16.08229561	743
9900U	89 24	A	89128.98493231	.00412186	89508-4	44659-3 0	86
9900	64.7313		230.4475 0032328	156.0758	204.1999	16.08436520	747
9900U	89 24	A	89129.66874889	.00418448	92971-4	43826-3 0	87
9900	64.7314		227.9085 0031737	155.8089	204.3894	16.08988466	758
9900U	89 24	A	89130.72512752	.00426869	97960-4	42433-3 0	89
9900	64.7309		223.9775 0030415	154.9346	205.3716	16.09859330	775
9900U	89 24	A	89131.78088064	.00423518	98179-4	39722-3 0	90
9900	64.7297		220.0455 0029254	156.4784	203.7913	16.10797432	792
9900U	89 24	A	89132.02920212	.00285853	41930-4	39722-3 0	91
9900	64.7314		219.1249 0043899	111.8019	245.4965	16.03669427	796
9900U	89 24	A	89132.46626501	.00370682	68120-4	50405-3 0	92
9900	64.7303		217.5131 0043723	111.8206	248.8436	16.04009926	803
9900U	89 24	A	89132.65328644	.00424044	88549-4	57089-3 0	93
9900	64.7313		216.8225 0043312	111.5803	249.0386	16.04198816	806
9900U	89 24	A	89133.08961232	.00370250	68511-4	49023-3 0	94
9900	64.7287		215.2096 0042893	111.1515	249.3515	16.04502676	813
9900U	89 24	A	89133.46356475	.00382330	73072-4	49618-3 0	95
9900	64.7293		213.8293 0043241	111.5696	248.9907	16.04782218	819

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Parts. 3

9900U	89 24	A	89134.08666876	.00404508	82101-4	51494-3	0	96
9900	64.7289		211.5244	0041728	110.3244	250.2105	16.05214468	829
9900U	89 24	A	89134.70958562	.00368632	69176-4	45624-3	0	97
9900	64.7297		209.2218	0041728	110.4667	249.9857	16.05653613	839
9900U	89 24	A	89135.64366148	.00394003	79475-4	46771-3	0	98
9900	64.7295		205.7646	0040629	109.7289	250.8860	16.06387684	854
9900U	89 24	A	89136.57726655	.00423108	92297-4	48169-3	0	99
9900	64.7300		202.3059	0039328	108.7644	251.7268	16.07133780	869
9900U	89 24	A	89136.70172504	.00405677	85244-4	45887-3	0	100
9900	64.7292		201.8437	0039438	108.9476	251.5917	16.07223989	871
9900U	89 24	A	89137.32385868	.00402804	84756-4	44234-3	0	101
9900	64.7296		199.5367	0039075	108.7334	251.7342	16.07703581	881
9900U	89 24	A	89137.69706405	.00407496	87020-4	43999-3	0	102
9900	64.7289		198.1515	0038506	108.4032	252.1216	16.08002657	887
9900U	89 24	A	89138.62973641	.00425225	95760-4	43999-3	0	103
9900	64.7298		194.6865	0037239	107.4587	252.9499	16.08743340	902

9900U	89 24	A	89140.05905899	.00387697	81690-4	37572-3 0	105
9900	64.7288		189.3698 0035601	106.1441	254.3751	16.09847479	925
9900U	89 24	A	89140.49386389	.00455186	11224-3	43059-3 0	106
9900	64.7276		187.7511 0035164	106.0566	254.4688	16.10231076	932
9900U	89 24	A	89141.17690268	.00431171	10187-3	39345-3 0	108
9900	64.7252		185.2074 0034717	106.3261	254.0478	16.10790837	943
9900U	89 24	A	89141.79767340	.00442967	81946-5	38972-3 0	109
9900	64.7258		182.8913 0034016	105.6670	254.8425	16.11348677	953
9900U	89 24	A	89141.92179417	.00426249	81036-5	37243-3 0	110
9900	64.7263		182.4280 0034184	104.9161	255.5519	16.11436452	955
9900U	89 24	A	89141.98385856	.00448191	80337-5	38995-3 0	111
9900	64.7255		182.1966 0033837	105.3728	255.1565	16.11520196	956
9900U	89 24	A	89142.54228081	.00462116	81800-5	38995-3 0	112
9900	64.7226		180.1098 0032781	104.7082	255.7740	16.12037293	965
9900U	89 24	A	89142.60431690	.00465090	84568-5	38995-3 0	113
9900	64.7236		179.8758 0031976	106.0296	254.4522	16.12191427	966
9900U	89 24	A	89142.79039927	.00317094	51864-4	38995-3 0	114
9900	64.7274		179.1907 0059939	75.9740	280.9397	16.03880305	969
9900U	89 24	A	89143.35218182	.00433862	93150-4	52469-3 0	115
9900	64.7242		177.1142 0058594	75.9939	284.7736	16.04269402	978

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Lpp: 24mars

19902U	89 25 A	89 84.50543396	-.00000006	00000-0	00000 0 0	2
19902	74.0129	33.4702 0049320	95.3349 265.4039	12.57617339		12
19904U	89 25 C	89 84.02938341	-.00000006	00000-0	00000 0 0	2
19904	74.0104	34.0947 0029732	109.6944 250.7667	12.53878952		7
19903U	89 25 B	89 84.02880125	-.00000006	00000-0	00000 0 0	2
19903	74.0103	34.1245 0040690	109.9680 250.6254	12.55700332		7
19905U	89 25 D	89 84.02997929	-.00000007	00000-0	00000 0 0	1
19905	74.0086	34.1224 0020739	113.1557 247.1650	12.51971882		7
19906U	89 25 E	89 84.03060973	-.00000006	00000-0	00000 0 0	1
19906	74.0123	34.1081 0009793	121.3596 238.8712	12.50011221		7
19907U	89 25 F	89 84.03128396	-.00000007	00000-0	00000 0 0	1
19907	74.0104	34.1428 0010338	194.3016 165.7924	12.47951430		7
19908U	89 25 G	89 83.95149397	-.00000006	00000-0	00000 0 0	1
19908	74.0135	34.2313 0013345	240.9648 118.5285	12.45994944		6

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Delta Star (USA 36)

Upp: 24 mars från Cape Canaveral med Delta 183

199110	89 26	A	89 86.92054063	.00010872	00000-0	44809-3 0	7
19911	47.6892		26.4932 0015556	339.1440	20.879	.00010872 00000	
199110	89 26	A	89 88.75576139	.00011495	00000-0	47240-3 0	9
19911	47.6897		17.0006 0015476	347.8220	12.1893	15.24372998	73
199110	89 26	A	89 89.54227964	-.00010401	00000-0	-41131-3 0	10
19911	47.6892		12.9404 0015093	356.4206	9.5571	15.24344193	85
199110	89 26	A	89 89.54227964	-.00010401	00000-0	-41131-3 0	11
19911	47.6892		12.9404 0015093	356.4206	9.5571	15.24344193	85
199110	89 26	A	89 90.00110579	-.00007864	00000-0	-30859-3 0	12
19911	47.6900		10.5712 0015463	352.1719	8.0069	15.24401912	92
199110	89 26	A	89 90.78758897	.00013900	00000-0	56737-3 0	13
19911	47.6884		6.5019 0015310	356.4473	3.7191	15.24434853	104
199110	89 26	A	89 91.70512927	.00022188	00000-0	89577-3 0	14
19911	47.6888		1.7552 0015109	0.6571	359.4721	15.24479691	118
199110	89 26	A	89 92.03281291	.00021004	00000-0	89577-3 0	15
19911	47.6879		0.0671 0019672	22.6913	337.0332	15.22587952	123

19911U	89 26	A	89 92.75470713	.00005744	00000-0	25470-3	0	16
19911	47.6872		356.3425 0020202	25.4091	334.9243	15.22666122		134
19911U	89026	A	89101.60840297	.00014513	00000-0	00000-0	0	0029
19911	047.6876		310.6336 0015036	064.4729	295.8335	15.2375029100269		
19911U	89 26	A	89107.96666742	.00025088	00000-0	10161-2	0	37
19911	47.6844		277.7715 0013318	96.0468	264.2537	15.24323787		366
19911U	89 26	A	89108.68764159	-.00001311	00000-0	-46074-4	0	38
19911	47.6830		274.0427 0013271	99.6107	260.5397	15.24307719		377
9911U	89 26	A	89121.73337951	.00010390	00000-0	43694-3	0	56
9911	47.6781		206.6208 0009651	168.4615	191.6496	15.23756632		576
9911U	89 26	A	89123.37261783	-.00012451	00000-0	-50439-3	0	58
9911	47.5783		198.1516 0009627	177.1324	182.8884	15.23714677		601
9911U	89 26	A	89123.50377142	.00005818	00000-0	25558-3	0	59
9911	47.6779		197.4774 0007573	189.4363	170.5068	15.23099700		603
9911U	89 26	A	89124.68454499	.00011624	00000-0	49681-3	0	60
9911	47.6781		191.3838 0007136	193.8311	166.1873	15.23116936		621
9911U	89 26	A	89125.73409411	.00013814	00000-0	58728-3	0	61
9911	47.6765		185.9664 0007324	197.7441	162.2851	15.23136845		637
9911U	89 26	A	89126.71803012	.00005358	00000-0	23593-3	0	62
9911	47.6755		180.8893 0007316	203.0822	156.9808	15.23165035		652

89-26A

Delta Star (USA 36) parts.1

9911U	89 26	A	89127.37397445	.00005176	00000-0	23593-3 0	63
9911	47.6759	177.5045	0005478	246.0160	113.7513	15.22044347	662
9911U	89 26	A	89127.63659525	.00011012	00000-0	48640-3 0	64
9911	47.6750	176.1510	0005330	248.3017	111.7348	15.22052714	666
9911U	89 26	A	89128.75251184	.00048156	00000-0	20675-2 0	65
9911	47.6738	170.3994	0005344	251.8665	108.1740	15.22108177	683
9911U	89 26	A	89143.39256948	.00033498	00000-0	14451-2 0	86
9911	47.6737	94.9762	0004883	340.5962	19.4928	15.22110807	906

89-27A

Tele-X

Upp: 2 April kl. 0228 UT från Kourou, Ariane 2-05

TM:

TC:

9U	89	93.65775848	-.00000044			10000-3 0	1
9	1.2926	40.3154	4088254	179.0921	184.1278	1.67677923	0
9919U	89	94.73165030	-.00000072			10000-3 0	2
9919	0.1465	48.5060	0670995	170.8512	135.5534	1.10430102	1
19U	89	95.63721811	-.00000062			10000-3 0	4
19	0.1418	42.8288	0671037	176.4794	135.5951	1.10416189	2
19919U	89 27 A	89 97.44844534	.00000132	00000-0	99999-4 0		5
19919	0.2649	325.1403	0054129	325.1209	67.8773	1.00921751	4
19919U	89 27 A	89 97.45087978	.00000070	00000-0	00000 0 0		8
19919	0.0649	51.8956	0023760	210.2857	97.5198	1.00400869	4
19919U	89 27 A	89 98.44692898	.00000073	00000-0	00000 0 0		10
19919	0.0656	51.8199	0023740	209.9488	97.9500	1.00398869	5

19U			89 99.44294505	0.00000077				0	11
19	0.0788		41.2287	0024691	220.9866	97.5461	1.00402848		6
9919U			89100.43876676	0.00000082				0	12
9919	0.0801		50.6182	0025793	213.2804	95.7931	1.00407623		7
9919U	89 27 A		89102.43060425	.00000101	00000-0	00000 0 0			13
9919	0.3205		167.9143	0016582	103.3167	88.6100	1.00460180		9
9919U	89 27 A		89103.42587986	.00000086	00000-0	00000 0 0			14
9919	0.0585		93.4820	0006395	191.3670	74.5337	1.00382390		10
9919U	89 27 A		89105.09999999	.00000088	00000-0	99999-4 0			15
9919	0.0485		193.9100	0006178	81.1480	329.3030	1.00372866		0
9919U	89 27 A		89106.41606432	.00000062	00000-0	99999-4 0			16
9919	0.0801		71.3093	0003368	300.3156	347.6875	1.00267031		1
9919U	89 27 A		89107.41529249	.00000063	00000-0	99999-4 0			17
9919	0.0936		101.2414	0004008	280.8394	337.9328	1.00269417		2
J			89108.41252706	0.00000063			10000-3 0		19
	0.0956		100.3697	0004004	282.7043	336.9206	1.00270933		3
9919U	89 27 A		89108.41259148	.00000063	00000-0	99999-4 0			18
9919	0.0956		99.7950	0004008	282.3901	337.8316	1.00270213		3
919U			89115.39349429	0.00000064			10000-3 0		21
919	0.0999		92.6385	0003757	294.6060	332.8282	1.00274867		10

89-27A

Tele-x

forts. 1

9919U	89	27	A	39115.39349429	.000000064	00000-0	99999-4 0	21
9919	0.0999	92.5385	0003757	294.6060	332.8282	1.00274867		10
		89113.39894763	0.00000063			10000-3 0		20
	0.0946	90.6478	0003727	295.9918	333.3798	1.00272578		8
9919U	89	27	A	89338.78166537	.000000060	00000-0	99999-4 0	42
9919	0.0328	227.5920	0050196	124.3797	7.4907	1.00275466		234
9919U	89	27	A	89344.76633286	.000000062	00000-0	99999-4 0	43
9919	0.0555	235.0852	0042647	119.4100	5.5435	1.00277207		240

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Tele-X raketsteg

Upp: 2 april 0228 UT från Kourou, Ariane 2-05

	89	92.34627699	-.00001000	20902-4	10000-3	0	1			
3.8870	40.2697	7318207	177.8465	189.8683	2.26923561		0			
	89	92.78502498	-.00077767	20853-4	-27406-2	0	2			
3.9303	39.3381	7321278	178.9008	188.3347	2.26974481		1			
20U	89	93.21996288	-.00057925	20855-4	-20289-2	0	4			
20	3.9304	39.2384	7321572	179.1846	183.6810	2.26926404	2			
19920U	89	27	3	89	96.72344270	.00200374	20476-4	75204-2	0	13
19920	3.9450	38.2009	7309972	181.6350	175.6208	2.28385809				10
19920U	89	27	8	89	97.15584010	.00169173	20309-4	75801-2	0	14
19920	3.8997	37.1627	7307375	182.9695	171.1831	2.28457970				11

89-28A

Kosmos 2016

Upp: 4 april från Plesetsk

9921U	89 28	A	89103.06389928	.00000187	00000-0	18820-3 0	22
9921	82.9598	134.3054	0038540	272.3244	87.3489	13.73915819	114

89-29A

Kosmos 2017

Upp: 6 apríl

Ned: 19 apríl

19923U	89 29	A 89	96.88235383	.00224533	28705-4	29487-3 0	3
19923	62.8053	353.7400	0018434	168.6699	191.4996	16.06237579	5
19923U	89 29	A 89	97.19361435	.00078699	86582-5	10508-3 0	4
19923	62.8064	352.5085	0017671	169.2048	190.8879	16.06281107	10
19923U	89 29	A 89	97.19362481	.00005724	00000-0	80127-5 0	5
19923	62.8039	352.5091	0017671	169.2042	190.9510	16.06273213	10
19923U	89 29	A 89	97.38038611	.00003508	00000-0	80127-5 0	6
19923	62.8061	351.7759	0030900	78.9966	277.6584	15.97943773	13
19923U	89 29	A 89	97.44362629	.00005525	00000-0	80127-5 0	7
19923	62.8052	351.5265	0051766	67.0389	293.8758	16.03429982	14
19923U	89 29	A 89	97.56831075	.00005527	00000-0	80127-5 0	8
19923	62.8059	351.0361	0051658	67.0122	293.6542	16.03452734	16
19923U	89 29	A 89	104.24102554	.00122282	12709-4	22391-3 0	25
19923	62.8035	324.6855	0092110	83.7412	277.2964	15.93578610	123

19923U	89	29	A	89104.68028084	.00026210	00000-0	47563-4	0	26
19923	62.8051	322.9746	0092387	83.3413	277.7700	15.93613796			130
19923U	89	29	A	89104.93128304	.00086832	40719-4	47563-4	0	27
19923	62.8065	321.9911	0037515	119.0397	248.2380	16.18146959			134
19923U	89	29	A	89105.67156817	.00237048	40866-4	12224-3	0	29
19923	62.8047	319.0024	0035754	114.4497	245.9048	16.18555392			146
19923U	89	29	A	89106.10403327	.00217725	40769-4	10999-3	0	30
19923	62.8055	317.2574	0035782	114.8453	245.7384	16.18835569			153
19923U	89	29	A	89106.53638633	.00279642	40759-4	13796-3	0	31
19923	62.8057	315.5116	0035419	114.9273	245.6105	16.19090219			160
19923U	89	29	A	89107.64785743	.00249798	40801-4	11872-3	0	32
19923	62.8033	311.0188	0033942	113.6902	246.7898	16.19718543			178
19923U	89	29	A	89108.07998606	.00295027	40911-4	13603-3	0	33
19923	62.8043	309.2737	0034316	115.2398	245.3286	16.20011967			185
19923U	89	29	A	89108.63544501	.00286934	41073-4	12954-3	0	34
19923	62.8051	307.0272	0033532	114.5728	245.9081	16.20347195			194

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Raduga 23

Lpp: 14 april

19928U	89 30	A	89104.96433439	-.00000013	00000-0	99999-4	0	3
19928			1.4554 277.2822 0008012	57.8492	298.6578	0.97698375		2
19929U	89 30	B	89104.40993932	.02447044	58472-4	54597-3	0	1
19929			51.6270 272.5600 0010214	148.2662	211.8260	16.29368777		4
19930U	89 30	C	89104.40993932	.16299481	58707-4	28678-2	0	1
19930			51.6152 272.5762 0015063	121.8125	237.5737	16.31565555		4

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Kosmos 2018

Upp: 20 april

19938U	89 31	A	39118.17372003	.00551521	39345-4	34298-3 0	24
19938	62.8094		47.1664 0114481	67.9356	293.3337	16.04337785	119
19938U	89 31	A	89118.73457022	.00536161	39211-4	32225-3 0	25
19938	62.8105		44.9474 0113250	67.8219	293.4694	16.04959818	128
19938U	89 31	A	39120.41578789	.00520769	39746-4	28608-3 0	27
19938	62.3061		33.2939 0108205	68.4304	292.8946	16.06914864	155
19938U	89 31	A	39120.66467205	.01077594	40847-4	23603-3 0	28
19938	62.3091		37.2871 0093962	89.5949	278.1615	16.16999053	159
19938U	89 31	A	89121.46703555	.01185554	40962-4	28608-3 0	29
19938	62.8062		34.0519 0089024	89.7452	271.4344	16.18808316	172
19938U	89 31	A	89121.71406724	.01122457	41076-4	26089-3 0	30
19938	62.8077		33.0535 0087978	89.8794	271.2054	16.19351288	176

9938U	89	31	A	89122.14619635	.01367435	41126-4	29489-3	0	31
9938	62.8093			31.3063 0085521	90.1340	271.0169	16.20481251		183
9938U	89	31	A	89123.19428102	.01682685	41813-4	30095-3	0	33
9938	62.8086			27.0561 0077868	90.4647	270.6656	16.23540876		200
9938U	89	31	A	89123.37899668	.01391274	41624-4	24999-3	0	34
9938	62.8094			26.3044 0075479	88.3068	272.5578	16.23936556		203
9938U	89	31	A	89123.44058908	.01582118	41293-4	27550-3	0	35
9938	62.8071			26.0544 0075024	88.3179	272.7512	16.24288332		204
9938U	89	31	A	89123.62522691	.01574757	41525-4	25976-3	0	36
9938	62.8078			25.3024 0074385	90.7329	270.2549	16.24873630		207
9938U	89	31	A	89128.34095907	.00868987	40114-4	33799-3	0	46
9938	62.8036			6.4586 0103449	41.2739	319.5267	16.11465778		283
9938U	89	31	A	89128.77524287	.00863451	40078-4	32285-3	0	47
9938	62.8045			4.7234 0101560	41.2920	319.5849	16.12224196		290
9938U	89	31	A	89129.02330485	.00904687	40617-4	33065-3	0	48
9938	62.8044			3.7317 0100191	41.4468	319.4678	16.12709301		294
9938U	89	31	A	89129.64313084	.00896060	40611-4	31125-3	0	49
9938	62.8040			1.2485 0096986	41.6510	319.1673	16.13820302		304
9938U	89	31	A	89130.07676772	.01028110	40594-4	34004-3	0	50
9938	62.8030			359.5084 0094830	41.7330	319.1934	16.14702323		311

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Kosmos 2018

forts. 1

19938U	89	31	A	89130.75766800	.00991307	40354-4	30630-3	0	51
9938	62.8029	356.7721	0091204	41.8843	318.8300	16.16045738			322
19938U	89	31	A	89130.94329400	.01270960	39197-4	73856-3	0	52
19938	62.8023	356.0357	0130473	65.3447	289.9528	16.01988434			325
9938U	89	31	A	89131.06919026	.00827457	39477-4	46198-3	0	53
9938	62.8018	355.5389	0132151	64.1153	297.2458	16.02125560			327
9938U	89	31	A	89131.50601166	.00642058	39954-4	35198-3	0	54
9938	62.7997	353.8142	0130614	63.9190	297.3319	16.02647637			334
9938U	89	31	A	89131.75559872	.00447167	39340-4	24173-3	0	55
9938	62.8020	352.8236	0130177	64.1870	297.2271	16.02925586			338
9938U	89	31	A	89132.12986742	.00626618	39077-4	33125-3	0	56
9938	62.8014	351.3477	0128646	64.3445	297.2304	16.03427016			344
19938U	89	31	A	89132.19220603	.00620511	39619-4	32953-3	0	57
19938	62.8007	351.1047	0128043	64.3041	297.1259	16.03497716			345
9938U	89	31	A	89132.19220603	.00620511	39619-4	32953-3	0	58
9938	62.8007	351.1047	0128043	64.3041	297.1259	16.03497716			345

9938U	89	31	A	89132.69099906	.00656246	39678-4	33920-3	0	59
9938	62.8005	349.1332	0126073	64.4344	297.0287	16.04168342			353
9938U	89	31	A	89133.12725782	.00689879	39496-4	34773-3	0	60
9938	62.8018	347.4059	0124097	64.5833	296.8998	16.04817456			360
9938U	89	31	A	89133.50104133	.00696916	40077-4	34325-3	0	61
9938	62.8011	345.9264	0122697	64.6154	296.7487	16.05336391			366
9938U	89	31	A	89134.74616039	.00796786	39735-4	36470-3	0	62
9938	62.8004	340.9862	0117288	65.0397	296.3371	16.07147154			386
9938U	89	31	A	89135.61684662	.00769492	39992-4	33014-3	0	63
9938	62.7988	337.5288	0113708	65.1492	296.1202	16.08514922			400
9938U	89	31	A	89136.11406455	.00719662	39813-4	29888-3	0	64
9938	62.7987	335.5449	0111229	65.2405	296.1056	16.09332009			408
9938U	89	31	A	89140.08171891	.01029877	40724-4	27267-3	0	73
9938	62.7959	319.6593	0088988	63.2002	297.8613	16.17948973			472
9938U	89	31	A	89141.93313712	.01447484	41440-4	28928-3	0	80
9938	62.7950	312.1631	0076658	64.1006	296.8724	16.22881702			502
9938U	89	31	A	89142.30269746	.01497817	40867-4	27660-3	0	81
9938	62.7970	310.6611	0073613	63.6965	297.2328	16.24022041			508
9938U	89	31	A	89143.71908897	.00746792	39640-4	34006-3	0	86
9938	62.7970	304.8935	0124045	110.8220	250.6441	16.05894131			531

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Foton 2

Upp: 26 april

Ned: 11 maj 89

9941U	89 32	A	89116.75908979	-.00000531	00000-0	00000 0 0	1
9941	62.8212		59.3588 0117287	99.1645	262.8341	15.90797146	1
9941U	89 32	A	89116.82185246	-.07595794	00000-0	-11805-1 0	2
9941	62.8281		59.4948 0123505	109.8356	251.9753	15.90703324	2
9941U	89 32	A	89116.88465454	-.07109499	00000-0	-10928-1 0	3
9941	62.8178		59.1189 0127084	110.7568	250.9656	15.90235459	3
9941U	89 32	A	89116.94751648	.07962272	93798-5	11770-1 0	4
9941	62.8202		58.3645 0122715	111.7403	250.0426	15.91570213	4
9941U	89 32	A	89117.01025857	.00340216	93337-5	51282-3 0	5
9941	62.8192		58.6208 0122795	111.7860	249.4698	15.91386363	5
9941U	89 32	A	89117.07312359	.00149702	91990-5	22807-3 0	6
9941	62.8212		58.3798 0122708	111.8327	249.5838	15.91390791	6
9941U	89 32	A	89117.13596076	.00302071	94246-5	45547-3 0	7
9941	62.8215		58.1344 0122506	111.7966	249.6346	15.91447315	7

9941U	89	32	A	89117.63860937	.00180010	92694-5	27190-3	0	10
9941	62.8205	56.1866	0121928	111.6674	249.7520	15.91607491			15
9941U	89	32	A	89118.83214472	.00172785	92783-5	25797-3	0	11
9941	62.8196	51.5557	0120215	111.7841	249.6136	15.92081580			34
9941U	89	32	A	89120.65319876	.00188456	95538-5	27173-3	0	13
9941	62.8195	44.4844	0118946	112.0891	249.3112	15.92785214			63
9941U	89	32	A	89121.46926920	.00220397	97528-5	31537-3	0	14
9941	62.8189	41.3060	0117747	112.0850	249.2300	15.93073717			76
9941U	89	32	A	89121.72034851	.00176619	96246-5	25201-3	0	15
9941	62.8204	40.3339	0117725	112.2071	249.1469	15.93160791			80
9941U	89	32	A	89123.41471476	.00189568	10032-4	26384-3	0	17
9941	62.8199	33.7422	0115999	112.2010	249.1996	15.93801595			107
9941U	89	32	A	89123.66566237	.00195296	98609-5	27063-3	0	18
9941	62.8202	32.7657	0115674	112.3892	248.9789	15.93910997			111
9941U	89	32	A	89124.73204075	.00188781	10134-4	25816-3	0	19
9941	62.8203	28.6147	0114441	112.5649	248.7458	15.94320931			128
9941U	89	32	A	89125.73545220	.00209044	99004-5	28082-3	0	20
9941	62.8217	24.7042	0113226	112.6227	248.7964	15.94757198			144
9941U	89	32	A	89126.73855511	.00138397	10139-4	18505-3	0	21
9941	62.8181	20.7936	0111932	112.5847	248.7158	15.95143196			160
9941U	89	32	A	89127.17735642	.00203899	10174-4	26732-3	0	22
9941	62.8191	19.0839	0111721	112.7418	248.6551	15.95364912			167

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Foton 2

forts. 7

9941U	89	32	A	89127.74141392	.00182408	10371-4	23806-3 0	23
9941	62.8207	16.8829	0111090	112.8498	248.3886	15.95560754	176	
9941U	89	32	A	89127.86676514	.00191419	10210-4	24894-3 0	24
9941	62.8216	16.3946	0110985	112.8836	248.4132	15.95616273	178	
9941U	89	32	A	89128.36809075	.00189331	10451-4	24341-3 0	25
9941	62.8200	14.4369	0110489	112.9738	248.4141	15.95866892	186	
9941U	89	32	A	89128.74401465	.00133319	10382-4	17243-3 0	26
9941	62.8201	12.9695	0109748	113.0171	248.2663	15.95996088	192	
9941U	89	32	A	89129.43317541	.00312878	10550-4	39454-3 0	27
9941	62.8194	10.2752	0108748	113.0608	248.4473	15.96350028	203	
9941U	89	32	A	89129.68368390	.00211766	10536-4	26651-3 0	28
9941	62.8200	9.2992	0108757	113.1765	248.0427	15.96437267	207	
9941U	89	32	A	89130.74837523	.00200822	10503-4	24769-3 0	29
9941	62.8195	5.1408	0107911	113.3531	247.8625	15.96871041	224	
9941U	89	32	A	89131.24934339	.00199818	10421-4	24769-3 0	30
9941	62.8194	3.1790	0107199	113.0070	248.2067	15.96920648	232	

89-33A

STS 30

Upp: 4 maj

9968U	89	33	A	89124.77265560	.00000333	00000-0	13293-5	0	1
9968	28.8747	357.2973	0003722	287.6319	72.3888	15.69634385			0
9968U	89	33	A	89124.81499201	.00087149	00000-0	25599-3	0	2
9968	28.8878	340.6496	0006169	266.1342	346.0076	15.91174232			0
9968U	89	33	A	89124.95919992	.00087028	00000-0	25599-3	0	3
9968	28.8865	339.5883	0006210	249.6494	110.2994	15.91147694			2
9968U	89	33	A	89125.05324085	.00067479	00000-0	25599-3	0	4
9968	28.8886	338.8795	0027106	198.0201	341.7885	15.85528504			4
9968U	89	33	A	89125.15762696	.00067512	00000-0	25599-3	0	5
9968	28.8848	338.1087	0027428	199.0402	217.8403	15.85523019			6
9968U	89	33	A	89125.71405595	.00099633	00000-0	37301-3	0	6
9968	28.8878	333.9963	0027391	204.9208	155.0189	15.85759542			14
9968U	89	33	A	89126.28039404	-.00043991	00000-0	-17061-3	0	7
9968	28.8885	329.8161	0026806	209.8683	149.9199	15.85672681			23

9968U	89	33	A	89126.28555555	.00112115	00000-0	42099-3	0	8
9968	28.8906	329.7773	0026777	210.4010	178.9160	15.85711607			25
9968U	89	33	A	89126.72091695	.00031482	00000-0	11766-3	0	10
9968	28.8886	326.5631	0026645	215.8116	144.0468	15.85763178			30
9968U	89	33	A	89127.16141908	-.00335796	00000-0	-13882-2	0	11
9968	28.8886	323.3035	0026037	220.7413	138.9904	15.85549106			37
9968U	89	33	A	89127.24941319	.00111268	00000-0	42099-3	0	12
9968	28.8916	322.6592	0026216	221.2261	281.8314	15.85584148			40
9968U	89	33	A	89127.72785195	.00111990	00000-0	42099-3	0	13
9968	28.8892	319.1274	0025692	226.5038	133.4246	15.85736140			48
9968U	89	33	A	89128.01689814	.00067935	00000-0	25599-3	0	15
9968	28.8911	316.9909	0025472	227.8863	345.5938	15.85737623			51

89-34A

Kosmos 2019

Upp: 5 maj

ned: 18 maj 89

9972U	89 34	A	89130.58311280	.00134224	38935-4	88616-4	0	15
9972	62.8514	348.2054	0123449	265.0307	93.6776	16.02322239		81
9972U	89 34	A	89132.01829520	.00195587	39403-4	12453-3	0	17
9972	62.3520	342.5535	0122699	265.8619	92.7227	16.02734564		104
9972U	89 34	A	89132.82935896	.00165228	40195-4	79888-4	0	19
9972	62.8526	339.3652	0105180	266.3319	92.6616	16.09140550		117
9972U	89 34	A	89132.89148771	.00140373	39842-4	79888-4	0	20
9972	62.8516	339.1119	0101208	266.7912	91.9411	16.08119232		118
9972U	89 34	A	89132.89148771	.00140373	39842-4	79888-4	0	21
9972	62.8516	339.1119	0101208	266.7912	91.9411	16.08119232		118
9972U	89 34	A	89133.51331847	.00171327	40060-4	95943-4	0	22
9972	62.8506	336.6421	0100557	267.0151	91.9905	16.08339998		128

9972U	89	34	A	89134.38366653	.00201664	40508-4	95943-4	0	23
9972	62.8373	333.1642	0086247	268.5176	91.5255	16.12624185			142
9972U	89	34	A	89134.50752475	.00851581	40630-4	95943-4	0	24
9972	62.8682	332.6919	0110759	268.2272	93.1721	16.18540936			144
9972U	89	34	A	89136.72980648	.00457761	41030-4	49660-4	0	29
9972	62.8509	323.7150	0102260	266.8504	92.0572	16.20619945			180
9972U	89	34	A	89137.59344534	.00469687	41404-4	45618-4	0	30
9972	62.8501	320.2202	0100773	267.3215	91.7209	16.21452571			194
9972U	89	34	A	89137.71677129	-.02721443	41191-4	-31161-3	0	31
9972	62.8543	319.7197	0099578	265.8083	93.0832	16.20901433			196
9972U	89	34	A	89137.77848262	-.00810645	40925-4	-85984-4	0	32
9972	62.3524	319.4725	0100636	265.7865	93.2211	16.20987943			197
9972U	89	34	A	89137.90185962	-.00217685	41336-4	-21680-4	0	33
9972	62.8510	318.9758	0101239	265.8058	93.2068	16.21048402			199

89-35A

USA 37

Lpp: 10 maj

89-36A

19986U	86	36	A	89137.59850284	-	.00004917	34045-4	00000	0	0	1
19986	64.7862	105.6732	0151152	68.4964	292.0038	16.01316017					1
19986U	86	36	A	89137.59871450	-	.00207554	34498-4	-83866-4	0		2
19986	64.8227	105.5923	0128917	66.4218	296.1904	16.05891121					1
19986U	86	36	A	89137.72305904	.	.00413486	34149-4	17182-3	0		3
19986	64.8162	105.1345	0129840	66.5769	294.8593	16.05989534					3
19986U	86	36	A	89138.03438408	.	.00633657	34316-4	25772-3	0		5
19986	64.7808	103.9895	0127585	66.3241	295.1818	16.06413471					8
19986U	86	36	A	89138.15887697	.	.00829722	34836-4	33472-3	0		6
19986	64.7812	103.5286	0126615	66.3774	295.1072	16.06670865					10
19986U	89	36	A	89138.22111156	.	.00819231	34712-4	32882-3	0		7
19986	64.7830	103.2974	0126394	66.6048	294.8300	16.06766084					11
19986U	89	36	A	89138.23335112	.	.00834399	34641-4	32882-3	0		8
19986	64.7832	103.0675	0126967	66.3802	295.0395	16.06834400					12

9986U	89 36 A	89138.47005090	.00686825	34493-4	27307-3 0	9
9986	64.7827	102.3762 0125283	66.4490	294.9768	16.07093391	15
9986U	89 36 A	89138.59450049	.00690309	34730-4	27307-3 0	10
9986	64.7824	101.9153 0124646	66.4136	295.0115	16.07270122	17
9986U	89 36 A	89139.27872972	.00793083	35080-4	29490-3 0	11
9986	64.7837	99.3825 0122219	66.1500	295.3926	16.08358381	28
9986U	89 36 A	89139.58955082	.00745939	34819-4	27437-3 0	12
9986	64.7826	98.2294 0120470	66.1672	295.1849	16.08815490	33
9986U	89 36 A	89140.52156929	.00813343	35023-4	27831-3 0	13
9986	64.7823	94.7665 0116295	65.9853	295.5473	16.10341836	48

89-37A

0000U		89144.49444631	-.00002873	19854-4		0	1
0000	69.9683	81.8409	0061830	67.5091	293.0714	16.13685274	1

0000U		89145.11431855	0.00111417	49947-5	10994-3	0	4
0000	69.9409	79.9850	0050028	24.3455	333.5061	16.08444476	11

0000U		89145.23895233	0.00129520	54825-5	10994-3	0	6
0000	69.9539	79.5998	0048321	13.5132	346.6679	16.10742593	13

89-38A

Resurs - F-1

Upp: 25 maj

Ned: 17 juni

0006U	89 38	A	89145.73012731	.00209358	-57306-5	58088-4 0	3
0006	82.2960		41.5279 0044106	104.7962	255.8325	16.24995842	6
0006U	89 38	A	89146.22269900	.00574758	-56141-5	15447-3 0	5
0006	82.2955		40.7403 0043258	103.4000	257.2178	16.25466946	14
0006U	89 38	A	89146.34581937	.00477513	-59458-5	15447-3 0	6
0006	82.3123		40.5943 0059161	100.6981	258.3070	16.21338385	16
0006U	89 38	A	89146.59298836	.00099811	35172-5	15447-3 0	7
0006	82.3028		40.3006 0014144	286.0032	62.3069	16.03922831	20
0006U	89 38	A	89146.78217605	.00009950	00000-0	15372-4 0	8
0006	82.2957		40.0847 0012700	239.1858	70.7398	16.03901995	23

89-39 A, B, C

Kosmos 2022-2024

Upp: 31 maj

0024U	89	39	A	89188.84650639	-.00000011	00000-0	99999-3	0	47
0024	64.8474	50.5831	0002159	234.6444	125.4205	2.13103250			80
0025U	89	39	B	89187.73219168	-.00000011	00000-0	99999-4	0	40
0025	64.8487	50.6006	0013584	209.8709	150.1188	2.13102709			78
0026U	89	39	C	89188.36009699	-.00000011	00000-0	99999-4	0	36
0026	64.8391	50.5938	0008883	266.5273	93.4420	2.13204656			79

89-40A

Kosmos 2025

Upp: Tjuni

0035U	89040	A	89152.71603852	.00000000	00000-0	00000-0	0	0002
0035	062.8080		034.4281	0007593	234.8805	125.2557	16.0745544600003	
0035U	89 40	A	89152.90263512	.01122662	80903-3	14047-2	0	2
0035	62.8140		33.6875	0005263	200.6448	159.3745	16.07560232	5
0035U	89 40	A	89153.02704494	-.00499643	00000-0	-67466-3	0	3
0035	62.8112		33.1936	0005266	201.5929	158.4405	16.07517213	7
0035U	89 40	A	89153.21368453	.00054226	00000-0	66003-4	0	4
0035	62.8089		32.4526	0005850	207.4013	152.8048	16.07584024	10
0035U	89 40	A	89153.40027185	.00119226	39399-4	66003-4	0	5
0035	62.8153		31.7248	0132981	253.5261	99.5306	16.02484341	13

89-41A

Superbind A

Upp: S,uni m. Ariane 4-4
fr. Neurus

040U	89-41A	89176.80065555	-.00000100			10000-3 0	12
040	0.0727	249.1889	0004136	200.9820	269.9242	1.00271583	16
040U	89-41A	89178.79498300	-.00000098			10000-3 0	15
040	0.0851	274.8767	0004033	190.2768	254.9186	1.00278109	18
040U	89 41 A	89332.37413875	-.00000099	00000-0		99999-4 0	41
040	0.0737	80.0367	0002991	175.2673	104.6933	1.00273853	156
0042U	89 41 C	89208.51599152	-.00000033	00000-0		00000+0 0	49
0042	0.8990	29.1812	7266970	218.1983	56.2347	2.30421704	108

89-42 A

Kosmos 2026

Upp: 7 juni

045U	89 42	A	89162.56931570	-.00007146	00000-0	-74765-2 0	22
045	82.9409		358.6220	0038773	282.9972	76.6855 13.75002556	60
045U	89 42	A	89163.15145948	-.00004039	00000-0	-42238-2 0	24
045	82.9407		358.1898	0038797	281.5017	78.1965 13.75011102	68

89-43A

Molhiya 3-35

Upp: 8 juni

0520	89	43	A	89159.76692478	.00000009	00000-0	99999-4	0	1
052	62.8038	104.4180	7419371	288.2674	9.2233	1.95382133			2
00520	89	43	A	89170.36969050	-.00000160	00000-0	-84456-2	0	18
0052	62.8356	102.8677	7375115	288.3011	9.4254	2.00612201			22

89-44A

Navstar 2-2

Uppi 10, juni

061U	89	44	A	89163.78647642	-.00000029	00000-0	00000	0	0	1
061	54.5633	30.8727	0034622	115.0724	245.3779	2.00518192				8
0061U	89	44	A	89164.78376302	-.00000029	00000-0	00000	0	0	3
0061	54.5521	30.8384	0034738	114.8951	245.4875	2.00515384				10
062U	89	44	B	89162.04639251	.01173920	-17722-4	15018-2	0		2
062	30.3174	22.9410	0541758	22.6645	339.4736	15.02368467				2

89-45A

Kosmos 2027

Upp: 14 juni

0064U	89 45	A	89165.57547569	-.00000100	00000-0	00000 0 0	1
0064	65.8557		71.5473	0028288	348.4149	11.6495 15.23962212	1
0064U	89 45	A	89165.64118144	-.00000098	00000-0	00000 0 0	2
0064	65.8325		71.3415	0024141	349.8131	10.2514 15.22481262	2
0064U	89 45	A	89211.27359733	.00006523	00000-0	27641-3 0	17
0064	65.8397		288.2210	0027817	324.7101	35.2170 15.23586856	697
0064U	89 45	A	89212.71771816	.00006188	00000-0	26250-3 0	18
0064	65.8396		283.6883	0027974	323.7923	36.1321 15.23603009	719

89-46A IMEWS (DSP)

(USA 39)

Uppi 14, juni fr. Cape Canaveral

89-47A

Kosmos 2028

Upp: 16 juli

Ned: 6 juli

0073U	89 47	A	89167.45285382	-	.000000319	00000-0	00000 0 0	1
0073	69.9950		89.5145 0061829		63.9876	296.2697	16.08878089	1
0073U	89 47	A	89168.75828007		.00256622	60234-5	21157-3 0	4
0073	69.9841		85.6141 0060318		61.7335	299.0045	16.09659158	22
0073U	89 47	A	89168.75828007		.00256622	60234-5	21157-3 0	5
0073	69.9841		85.6141 0060318		61.7335	299.0045	16.09659158	22
0073U	89 47	A	89172.42198635		.00370852	66140-5	26357-3 0	11
0073	69.9831		74.6650 0055876		55.2520	305.3092	16.12180412	81
0073U	89 47	A	89171.61525561		.00330158	65250-5	24399-3 0	9
0073	69.9839		77.0797 0056920		56.9548	303.8008	16.11540643	68
0073U	89 47	A	89171.98764143		.00445942	65033-5	32210-3 0	10
0073	69.9831		75.9650 0056523		56.2802	304.4544	16.11876956	74

89-48A

Raduga 24

Lapp: 21, Juni

0083U	89-48A	89176.84655955	0.00000038			10000-3 0	8
0083		1.5642 264.8955	0010516	137.7547	232.2914	0.98872604	4
0083U	89 48 A	89212.76531175	.00000149	00000-0	99999-4 0		45
0083		1.3896 273.1589	0005789	347.4180	13.0303	1.00273497	40
084U	89 48 B	89173.15927603	.02445633	59136-4	48703-3 0		2
084		51.6176 272.4093	0007235	187.7291	174.8423	16.30650492	3
085U	89 48 C	89173.15927603	.16491426	58687-4	33195-2 0		2
085		51.6192 272.4461	0019375	118.7821	242.1284	16.29944515	3

89-49A

Results - F 2

Upp: 27 juni

Ned: 11 juli

0095U	89 49	A	89190.55168988	.00064338	10012-5	10873-3 0	26
0095	82.5609		50.1302 0010997	295.6222	64.4014	16.02493581	196
0117U	89 49	C	89192.67444923	.01575632	40874-1	65226-2 0	2
0117	82.5574		47.7642 0011691	282.0232	80.9116	16.06449117	230

89-50A

Nadezhda

(Cospas 4)

Upp: 4, 2, 1

0104U	89	50	J	89188.17327139	.00000006	00000-0	00000+0	0	4
0104	82.9612	179.2915	0028772	269.3062	90.3300	13.74884326			34
0103U	89	50	A	89188.39440118	.00005716	00000-0	61009-2	0	12
0103	82.9608	179.1284	0036528	279.3071	80.3988	13.73492222			38
0103U	89	50	A	89189.26872293	-.00000027	00000-0	-36022-4	0	13
0103	82.9621	178.4857	0036386	276.4532	83.9495	13.73487098			50

89-51A

Kosmos 2029

Lapp: Siuli

Näd: 19,461

0105U	8951A	89186.38745836	.00000829	-56544-5	00000+0	0	1
0105	82.3442	69.7257	0045725	104.2205	255.7994	16.22987641	1

89-52A

Gorizont 18

Upp: 5,24

20107U	89-52A	89191.60390529	-.00000033			10000-3 0	7
20107		1.5246 275.6744	0030828	180.4505	180.0319	1.01839858	5
20107U	89-52A	89191.60754045	-.00000041			10000-3 0	9
20107		1.5172 276.8179	0014800	165.2660	195.4272	1.01594585	5
107U 89 52	A	89326.20836497	-.00000250	00000-0		99999-4 0	121
107		1.1882 276.2566	0003596	16.4360	343.7423	1.00274258	140

89-53A

Olympus 1

Upp: 12,44' fr-Kourov m. Arianc 3-10

122U	89 53	A	89195.22695022	-.00000025	00000-0	99999-4	0	3
122	0.1866	133.3058	0342010	149.0790	73.7947	1.04246189		1
122U	89 53	A	89194.26461185	-.00000034	00000-0	99999-4	0	2
122	0.2119	131.0113	0344490	151.5958	72.5479	1.04199316		0
122U	89 53	A	89196.18618636	-.00000023	00000-0	99999-4	0	4
122	0.1982	129.2202	0341885	153.2788	73.6941	1.04246882		2
122U	89 53	A	89338.84811973	-.00000119	00000-0	99999-4	0	45
122	0.0121	274.3393	0004221	32.0313	53.5975	1.00270782		122

89-54A

Kosmos 2030

Upp: 12, juli'

Ned: 29, juli'

124U	89 54	A	89193.74034153	-.00004026	27863-4	00000+0 0	1
124	67.1677	141.7468	0140864	95.8541	266.4443	16.06121371	2
124U	89 54	A	89193.80251611	.12724506	27272-4	37571-2 0	2
124	67.1934	141.5319	0140864	95.7927	265.9634	16.06767794	3
124U	89 54	A	89196.47648904	.00807240	28268-4	22660-3 0	10
124	67.1455	132.4449	0124836	91.0726	270.5672	16.10568201	46
124U	89 54	A	89196.60066738	.00812680	28460-4	22685-3 0	11
124	67.1474	132.0270	0124197	90.6455	270.8602	16.10748786	48

89-55A

Rekurs - F 3

Lipp: 18, 261'

Ned: 8 aug

134U	89	55	A	89199.46035502	.00000847	-56889-5	00000+0 0	1
134	82.5699	109.5073	0027135	87.8598	272.6516	16.27328540	1	
134U	89	55	A	89199.46034280	.00000867	-58443-5	00000+0 0	2
134	82.5726	109.4943	0030813	93.3353	266.8450	16.25897870	1	
134U	89	55	A	89199.52194183	.00666479	-59432-5	19636-3 0	3
134	82.5733	109.4226	0031737	93.4877	266.9613	16.25722900	2.	
0134U	89	55	A	89199.89125974	.00342570	-61856-5	98973-4 0	5
0134	82.5706	109.0004	0031546	92.5847	267.9488	16.25943464	8	
0134U	89	55	A	89200.38356685	.00253888	-59107-5	98973-4 0	6
0134	82.5727	108.4286	0059602	92.7048	265.1034	16.19200952	16	
0134U	89	55	A	89200.50768338	.00059044	00000-0	98973-4 0	7
0134	82.5734	108.2903	0011144	304.3181	51.9221	16.02489426	18	
0134U	89	55	A	89200.75812035	-.00087234	00000-0	-15086-3 0	8
0134	82.5685	108.0128	0010850	303.0257	57.0016	16.02482084	22	

0134U	89 55	A	89200.94545946	.00166900	11025-4	28178-3	0	9
0134	82.5721		107.8095	0010827	302.1370	57.9313	16.02566254	25
0134U	89 55	A	89202.63131081	.00084795	22563-5	14132-3	0	12
0134	82.5710		105.9271	0010349	292.9149	67.0987	16.02764949	52
0134U	89 55	A	89203.38050117	.00075980	17823-5	12590-3	0	13
0134	82.5699		105.0892	0010443	287.0083	72.9301	16.02858444	64
0134U	89 55	A	89203.81752425	.00059888	00000-0	98144-4	0	14
0134	82.5704		104.6030	0010259	285.9458	74.0128	16.02891103	71
0134U	89 55	A	89204.81637628	.00064201	97648-6	10527-3	0	16
0134	82.5696		103.4892	0010047	279.6839	80.3747	16.03026356	87
0134U	89 55	A	89204.87880247	.00065974	10853-5	10812-3	0	17
0134	82.5701		103.4198	0010114	279.4794	80.5901	16.03036979	88
0134U	89 55	A	89205.37817748	.00098947	33563-5	16108-3	0	18
0134	82.5705		102.8627	0010123	277.4841	82.6395	16.03175772	96
0134U	89 55	A	89205.69024713	.00122508	54943-5	19842-3	0	19
0134	82.5691		102.5166	0010476	277.5699	82.4587	16.03261579	101
0134U	89 55	A	89206.37677956	.00117863	51698-5	18924-3	0	20
0134	82.5684		101.7487	0010268	273.3022	86.6773	16.03416083	112
0134U	89 55	A	89206.75123344	.00119290	52645-5	19047-3	0	21
0134	82.5685		101.3308	0010288	271.6879	88.3357	16.03507282	118
0134U	89 55	A	89219.92206973	.00172715	12063-4	26742-3	0	47
0134	82.5683		86.6489	0012765	246.0471	114.0135	16.03977304	329

89-56A

Kosmos 2031

LPP: 18,44i

Eryadade: 31.8 aug.

0136U	89 56	A	89199.93150073	.00664051	56511-4	32593-3	0	4
0136	50.5537		123.2740 0053215	89.3829	271.4325	16.16711071		7
0136U	89 56	A	89200.54938472	.00689819	56485-4	31912-3	0	5
0136	50.5541		119.8147 0051656	92.1466	268.6649	16.17609678		17
0136U	89 56	A	89200.73466450	.00705707	56954-4	32056-3	0	6
0136	50.5533		118.7742 0051165	93.5456	267.1591	16.17885617		20
0136U	89 56	A	89201.35210419	.00704086	56821-4	30150-3	0	7
0136	50.5546		115.3107 0049535	96.3129	264.3640	16.18782442		30
0136U	89 56	A	89201.84580979	.00743282	56806-4	30138-3	0	8
0136	50.5525		112.5365 0048199	99.5570	261.2746	16.19573608		38
0136U	89 56	A	89201.84580979	.00743282	56806-4	30138-3	0	9
0136	50.5525		112.5365 0048199	99.5570	261.2746	16.19573608		38
0136U	89 56	A	89202.58582707	.00329362	63883-4	30892-3	0	11
0136	50.5526		108.3956 0015146	47.8627	305.9795	16.11202182		50

0136U	89 56	A	89203.76494289	.00409120	96575-4	36106-3 0	13
0136	50.5521		101.8405 0013729	52.0917	308.1572	16.12127616	69
20136U	89 56	A	89204.07482548	.00451025	11704-3	39101-3 0	14
20136	50.5528		100.1178 0013399	54.6249	305.5969	16.12394438	74
0136U	89 56	A	89204.26073241	.00205072	24762-4	39101-3 0	15
0136	50.5523		99.0919 0092534	34.6300	321.5078	15.92487145	77
0136U	89 56	A	89204.82621850	.00205468	25248-4	37831-3 0	16
0136	50.5527		96.0446 0094650	36.2402	324.4692	15.92732576	86
0136U	89 56	A	89204.82621850	.00178175	21274-4	32898-3 0	17
0136	50.5533		96.0437 0094693	36.2469	324.4577	15.92717521	86
0136U	89 56	A	89205.39083926	.00205284	25156-4	37627-3 0	18
0136	50.5541		92.9882 0093494	38.9886	321.8724	15.92973912	95
0136U	89 56	A	89206.33164016	.00213708	26813-4	38481-3 0	19
0136	50.5531		87.8966 0092590	43.0753	317.7675	15.93381104	110
0136U	89 56	A	89206.77059950	.00212921	26538-4	38047-3 0	20
0136	50.5522		85.5202 0092144	44.9697	315.8560	15.93565162	117
0136U	89 56	A	89206.77059950	.00212921	26538-4	38047-3 0	21
0136	50.5522		85.5202 0092144	44.9697	315.8560	15.93565162	117
0136U	89 56	A	89217.79731915	.00353519	69238-4	38831-3 0	43
0136	50.5527		24.9415 0044627	100.3946	260.2285	16.06858495	294
0136U	89 56	A	89218.79206092	.00372042	76783-4	39111-3 0	44
0136	50.5521		19.4489 0043727	104.6816	255.9071	16.07590504	310

89-57A

Kosmos 2032

Upp: 20, juli

Ned: 3 aug

0145U	89 57	A	89201.42915674	.00000777	-52940-5	00000+0 0.	1
0145	82.2683		99.5312 0047240	105.9302	254.2741	16.22191128	1
0145U	89 57	A	89201.42923315	.03573066	-57199-5	12410-2 0	2
0145	82.2773		99.5190 0046494	106.2926	254.3524	16.22279247	1
0145U	89 57	A	89201.61420681	.00231314	-55073-5	76308-4 0	3
0145	82.3060		99.2542 0050748	95.9051	264.1536	16.22274911	4
0145U	89 57	A	89201.86105673	.00438191	-55009-5	14295-3 0	7
0145	82.3079		98.9645 0050722	95.5852	265.1705	16.22419351	8
0145U	89 57	A	89206.75002317	.00051150	-19215-7	10033-3 0	23
0145	82.3116		93.3835 0097667	75.8591	285.3595	15.91659321	86
0145U	89 57	A	89207.75590408	.00052971	-92102-7	10335-3 0	24
0145	82.3114		92.2437 0097456	72.0135	289.2018	15.91769968	102

89-58A

Kosmos 2033

Lpp: 24juli

0147U	89 58	A	89205.05682957	-.00000146	00000-0	00000+0	0	1
0147	65.0253	336.7055	0022916	285.5667	74.2934	15.50472279		0
0147U	89 58	A	89205.05682957	-.00000146	00000-0	00000+0	0	2
0147	65.0253	336.7055	0022916	285.5667	74.2934	15.50472279		1

89-59A

Kosmos 2034

Upp: 25, Juli

0149U	89 59	A	89206.38454361	.00000006	00000-0	00000+0	0	1
0149	82.9283		88.1843	0030222	266.1012	93.7103	13.73209341	0
0149U	89 59	A	89217.10157043	-.00000231	00000-0	-25900-3	0	23
0149	82.9373		80.2865	0030167	247.6111	112.0892	13.72418369	148

89-60A

Kosmos 2035

Upp: 2 aug.

Ned: 16 aug.

0151U	89 60	A	89214.53336777	.00000869	-60496-5	00000+0	0	1
0151	82.5676	150.5989	0045073	101.3089	259.2393	16.23675179	0	0
0151U	89 60	A	89214.71827795	.00073508	-60810-5	22807-4	0	2
0151	82.5645	150.3871	0045765	101.3731	259.1539	16.23499043	3	3
0151U	89 60	A	89214.71827795	.00073508	-60810-5	22807-4	0	3
0151	82.5645	150.3871	0045765	101.3731	259.1539	16.23499043	4	4
0151U	89 60	A	89214.96483919	.00431738	-59153-5	13333-3	0	4
0151	82.5632	150.1058	0045544	100.6531	259.9959	16.23684451	8	8
0151U	89 60	A	89226.73360771	.00194781	18080-4	15008-3	0	24
0151	82.5612	137.0759	0009257	44.3664	315.8985	16.14840413	196	196

89-61A

STS 28

(Columbia F8)

Lpp: 8 Aug. fr. Cape Canaveral

0164U	89 61	A	89220.55325462	.00084253	00000-0	25599-3 0	1
0164	57.0005		46.3102 0012736	291.1181	241.7481	15.91332191	0
0164U	89 61	A	89220.79027749	.00079075	00000-0	25599-3 0	2
0164	57.0015		45.2137 0009385	304.2600	146.5357	15.90176904	5
0164U	89 61	A	89220.77442586	.55846977	00000-0	-88936-1 0	3
0164	57.0025		45.2868 0011805	285.3057	74.6460	15.91347744	5
0164U	89 61	A	89221.08986464	.00026967	00000-0	88476-4 0	4
0164	57.0002		43.8308 0009249	309.4077	56.8652	15.90058728	10
0164U	89 61	A	89221.10520486	.00078617	00000-0	25599-3 0	5
0164	56.9981		43.7612 0008896	307.8287	146.2817	15.90071908	9
0164U	89 61	A	89221.52882946	.00078985	00000-0	25599-3 0	6
0164	56.9983		41.8057 0010007	307.1310	52.8389	15.90144009	17
0164U	89061	A	89222.28332937	.00038858	00000-0	00000-0 0 0007	
0164	057.0014		038.3276 0010393	300.7777	059.3099	15.9011760500029	

0164U	89 61	A	89222.47191480	.00080814	00000-0	26191-3 0	8
0164	56.9997		37.4554 0008191	311.1797	48.8571	15.90164428	30
0164U	89 61	A	89222.78623088	.00027649	00000-0	90329-4 0	10
0164	57.0013		36.0032 0008756	309.7955	50.1567	15.90140717	35
0164U	89 61	A	89223.02569415	.00156993	71611-4	25599-3 0	12
0164	57.4165		64.9368 0661475	111.6176	180.3407	17.52708170	40
0164U	89 61	A	89223.54060753	.00064140	00000-0	20778-3 0	14
0164	56.9998		32.5233 0008956	312.5821	47.4970	15.90247552	47
0164U	89 61	A	89223.98402749	.00079990	00000-0	25599-3 0	15
0164	56.9986		30.4755 0009163	313.9104	65.6967	15.90402907	56
0164U	89 61	A	89224.23202579	.00081651	00000-0	26144-3 0	16
0164	56.9984		29.3307 0009329	313.9598	46.0111	15.90382422	60
0164U	89 61	A	89224.73486801	.00105897	00000-0	33549-3 0	17
0164	57.0005		27.0068 0008721	314.6726	45.4207	15.90505200	68

89-62A

TV-SAT 2

Usp: 8 aug jr. Kourol m. ANANC 4-5

68U	89-62A	89235.13251957	-.00000111				10000-3 0	8
68	0.0923	228.0138	0004323	13.5291	118.4353	1.00310110		9
0168U	89 62 A	89226.16560745	-.00000010	00000-0	99999-4 0			1
0168	0.1712	261.7756	0014104	23.1040	70.2649	1.00972817		0

89-62B

Hipparcos 1

Upp: 8 aug fr. Kourov m. Arriane 4-5

69U	89-62B	89225.12490331	0.00008880			13409-2 0	1
69	6.9635	121.4232	7284067	181.7493	173.2880	2.29184976	11
169U	89-62B	89227.72935750	0.00007226			10771-2 0	2
169	6.9747	120.0750	7284038	184.1913	162.2584	2.29218903	17
169U	89 62 B	89328.73447795	.00000336	00000-0		37371-2 0	42
169	6.8746	80.7095	7183556	261.3261	18.7323	2.25160087	247
169U	89 62 B	89330.51033829	.00000314	00000-0		35082-2 0	43
169	6.8787	80.0544	7183750	262.6305	18.1933	2.25161076	251
169U	89 62 B	89340.72182242	-.00001192	00000-0		-11278-1 0	48
169	6.8676	76.1958	7182699	270.2689	15.1809	2.25144761	274

89-63A

Resurs - F 4

Lpp: 15 aug

Ned: 1450j

0175U	89 63	A	89227.49197874	.00000834	-56969-5	00000+0 0	1
0175	82.3093	147.6408	0036304	101.0429	261.3767	16.25096712	1
0175U	89 63	A	89227.92269977	.00699810	-57667-5	20149-3 0	2
0175	82.3110	147.1247	0035835	100.5159	260.3427	16.25567267	8
0175U	89 63	A	89228.66252669	.00110745	44254-5	17181-3 0	5
0175	82.3112	146.2497	0007035	299.7166	49.5063	16.04044675	20
0175U	89 63	A	89228.78917316	-.00107833	00000-0	-17194-3 0	6
0175	82.3087	146.1040	0007116	301.5311	58.5020	16.03990301	22
0175U	89 63	A	89228.97634098	.00300228	39683-4	46449-3 0	7
0175	82.3097	145.8897	0007541	302.9194	57.2013	16.04126682	25
0175U	89 63	A	89229.22584470	.00063066	00000-0	95979-4 0	8
0175	82.3087	145.6003	0007938	294.2906	65.7306	16.04169016	29
0175U	89 63	A	89241.70461555	.00133762	70171-5	19961-3 0	35
0175	82.3082	131.1885	0003163	335.6264	24.4814	16.04744999	229

89-64A

Navstar 2-3

Upp: 18 aug fr. Cape Canaveral

185U	89	64	A	89236.04380113	.00000015	00000-0	99999-4	0	3
185	54.9240	210.0455	0032935	197.6481	156.8014	2.01434674	472		
185U	89	64	A	89253.91964796	.00000015	00000-0	99999-4	0	7
185	54.9578	209.2868	0032311	199.4324	160.4262	2.01466378	508		

89-65A

Kosmos 2036

Lisp: 22 augr

89-66A

Progress-M 1

Upp: 23 aug

0191U	89 66	A	89235.18520353	-.00008393	57944-4	00000+0 0	1
0191	51.6333		28.3354	0023267	106.5876	253.7731 16.26430957	1
0191U	89 66	A	89235.43096680	-.00000488	00000-0	00000+0 0	2
0191	51.6073		26.9725	0098575	103.3902	251.4145 15.79174244	5
0191U	89 66	A	89235.43096680	-.00000488	00000-0	00000+0 0	3
0191	51.6073		26.9725	0098575	103.3902	251.4145 15.79174244	5
0191U	89 66	A	89235.55865325	.00275640	30203-4	10570-2 0	4
0191	51.6143		26.3082	0098692	104.4469	256.8418 15.79406159	7
0191U	89 66	A	89235.93824130	.00116682	95923-5	45155-3 0	5
0191	51.6140		24.3438	0098236	105.8868	255.2239 15.79504571	13
0191U	89 66	A	89236.12805484	.00100348	85506-5	38904-3 0	6
0191	51.6129		23.3623	0098263	106.3735	254.7899 15.79531834	16
0191U	89 66	A	89236.31785580	.00091182	00000-0	38904-3 0	7
0191	51.6106		22.3793	0094192	104.9633	255.7477 15.77829539	19
0191U	89 66	A	89236.44460117	.00094148	00000-0	38904-3 0	8
0191	51.6122		21.7212	0093109	106.9526	254.5054 15.78583886	21

0191U	89 66	A	89236.69775705	.00092702	75704-5	38904-3 0	9
0191	51.6146		20.4137 0093437	108.3737	252.7729	15.78674289	25
0191U	89 66	A	89237.14084736	.00043786	00000-0	38904-3 0	10
0191	51.6295		18.1264 0037055	106.4120	254.1103	15.67163068	32
0191U	89 66	A	89239.70390129	-.00116617	00000-0	-14795-2 0	11
0191	51.6219		5.2358 0010937	324.8934	35.1756	15.59431329	72
0191U	89 66	A	89240.60112096	-.00116121	00000-0	-14795-2 0	12
0191	51.6225		0.7235 0012107	340.3665	19.8638	15.59296879	86

89-67A

Marcopolo 1

Upp: 27 aug fr. Cape Canaveral

20193U	89-67A	89245.13630342	-.00000187			10000-3 0	2
20193	0.1484	275.4615	0001222	288.6205	155.8655	1.00287658	5
20193U	89-67A	89245.13642740	-.00000191			10000-3 0	3
20193	0.1505	277.3296	0002129	227.3657	215.3158	1.00264063	5
0193U	89-67A	89262.09122150	-.00000193			10000-3 0	6
0193	0.1023	276.5767	0001960	226.9552	216.4987	1.00262640	22
0194U	89 67 B	89240.06945016	.00000673	00000-0		23400-5 0	1
0194	26.7161	135.8870	0151939	125.9496	235.5604	15.59170232	1
0195U	89-67C	89240.20604055	0.00000968			10000-3 0	1
0195	23.2461	140.0628	7361067	179.2978	183.9346	2.20419368	1

89-68A

Kosmos 2037

Upp: 28 aug.

0196U	89 68	A	89240.07310081	-.00000007	00000-0	00000+0	0	1
0196	73.5445	346.2279	0025847	18.7205	341.4246	12.32827986		0
20196U	89 68	A	89240.07310081	-.00000007	00000-0	00000+0	0	2
20196	73.5445	346.2279	0025847	18.7205	341.4246	12.32827986		1
0196U	89 68	A	89240.31507476	-.00000007	00000-0	00000+0	0	3
0196	73.5698	345.9390	0026187	274.8746	85.1016	12.40426952		4
0196U	89 68	A	89240.47632275	-.00000007	00000-0	00000+0	0	4
0196	73.5726	345.7220	0026333	274.1528	85.6568	12.40435350		6
20196U	89 68	A	89247.00837247	-.00000007	00000-0	00000+0	0	16
20196	73.5715	336.9581	0026226	265.1523	94.6537	12.40435227		87

89-69

USA 43

(DSCS3?)

Upp. 4 sept. fr. Cape Canaveral

0204U	89 69	C	89247.83988118	.02190492	-26084-4	93578-3	0	2
0204	28.6030	251.6027	0687442	119.3681	247.7348	14.78283124		10
204U	89-69C		89263.98477958	0.04647743	-31261-4	41718-3	0	38
204	28.5918	142.4366	0307943	296.6435	60.5676	15.74489546		256

89-70A

Himawari 4 (SMS-4)

App: 5 sept. pm. H-7

17U	89-704	89256.42048520	-.00000043			10000-3 0	6
17	1.6317	283.0224	0062901	229.7533	128.2979	1.01195958	8
217U	89 70 A	89324.19762758	-.00000200	00000-0	99999-4 0		17
217	1.5043	284.9545	0016981	333.2839	26.5375	1.00027540	76
230U	89 70 B	89324.08969431	.00013333	00000-0	22434-2 0		58
230	28.3843	291.8046	7381811	222.4303	47.8839	2.16879815	691

89-71A

Soyuz TM 8

Upp: 5 sept.

0218U	89-71A	89248.95505118	-.00008373	57708-4	0	1
0218	51.6309	319.0743	0002471	24.7080	335.6584	16.27305579
0218U	89-71A	89249.07782401	0.02294838	58571-4	60173-3	0
0218	51.6387	318.3904	0002493	10.0343	350.1631	16.27790451
0218U	89-71A	89249.64701814	0.00107448		68091-3	0
0218	51.6242	315.3737	0036202	160.0740	200.1609	15.74771214
0218U	89-71A	89250.15468099	-.00030951		-20278-3	0
0218	51.6256	312.7671	0033105	161.8898	197.8961	15.74180400
0218U	89-71A	89250.85303127	0.00096247		62812-3	0
0218	51.6220	309.1790	0033319	164.2461	195.9592	15.74292207
0218U	89 71 A	89257.89860041	.00045327	00000-0	55062-3	0
0218	51.6210	273.7173	0013025	40.0160	318.8544	15.60018638
0218U	89 71 A	89259.05186086	.00045521	00000-0	55062-3	0
0218	51.6177	267.9117	0013446	43.5058	316.6472	15.60119444

89-72A

USA 45

(Titan 2)

Upp: 6 sept.

89-73A

Resurs-F 5

Upp: 6 sept.

Ned: 22 sept

0222U	89	73	A	89257.79518276	.00078527	19334-5	12474-3	0	23
0222	82.3066	164.7404	0007985	285.9437	74.0991	16.03617824			134
0222U	89	73	A	89259.72939316	.00093143	30457-5	14487-3	0	26
0222	82.3075	162.5058	0007829	279.9682	80.0234	16.03985465			165

89-74 A-F

Kosmas 2038-2043

Upp: 14 sept

0232U	89 74	A	89337.42865592	.00000004	00000-0	00000+0	0	31
0232	82.5720	116.1692	0011149	201.0853	158.9793	12.65101250	1011	
0233U	89 74	B	89258.26436702	.00000004	00000-0	00000+0	0	4
0233	82.5842	166.9676	0016246	21.7132	338.4648	12.65891709	9	
0234U	89 74	C	89258.26671441	.00000004	00000-0	00000+0	0	4
0234	82.5900	166.9713	0003560	162.2449	197.8767	12.62287157	10	
0235U	89 74	D	89260.71803221	.00000004	00000-0	00000+0	0	6
0235	82.5883	165.3987	0009470	29.9031	330.2601	12.64511895	42	
0236U	89 74	E	89258.74064008	.00000004	00000-0	00000+0	0	4
0236	82.5877	166.6641	0005876	26.7593	333.3803	12.63876516	17	
0237U	89 74	F	89258.42460761	.00000004	00000-0	00000+0	0	5
0237	82.5807	166.8640	0002611	63.4421	296.6938	12.63093271	12	

89-75A

Kosmos 2044

Upp: 15 sept

Ved: 29 sept

0242U	89 75	A	89258.32545768	.00000095	00000-0	00000+0 0	1
0242	82.3305		118.1412 0045680	112.6494	248.6418	16.13591878	1
0242U	89 75	A	89258.51138972	.00152382	-18764-5	10739-3 0	2
0242	82.3256		117.9137 0045175	111.8833	248.7623	16.13674034	4
0242U	89 75	A	89258.51138972	.00152382	-18764-5	10739-3 0	3
0242	82.3256		117.9137 0045175	111.8833	248.7623	16.13674034	4
0242U	89 75	A	89258.88344914	.00490276	-17744-5	33765-3 0	4
0242	82.3281		117.4777 0045044	110.3996	250.3557	16.14025435	10
0242U	89 75	A	89259.25537974	.00392549	-19287-5	26641-3 0	5
0242	82.3267		117.0414 0044235	109.9610	250.5861	16.14302376	16
0242U	89 75	A	89259.75124136	.00405449	-18115-5	26750-3 0	6
0242	82.3241		116.4609 0044018	107.9057	252.6981	16.14701948	24
0242U	89 75	A	89260.12304898	.00431606	-17239-5	27888-3 0	8
0242	82.3252		116.0257 0043481	106.6013	254.0383	16.15034512	30

89-76A

Kosmos 2045

Upp: 22 sept.

Ned: 2 okt

0244U	89 76	A	89265.39047026	.00183270	60642-5	15912-3	0	2
0244	69.9859	163.5341	0067869	68.8702	291.9785	16.07993002		1
0244U	89 76	A	89265.57709136	.00038512	00000-0	33256-4	0	3
0244	69.9845	162.9731	0068069	68.2529	292.5892	16.08039426		4
0244U	89 76	A	89265.82591756	-.02774988	00000-0	-23862-2	0	4
0244	69.9845	162.2330	0068033	67.8035	293.0502	16.07984495		8
0244U	89 76	A	89266.01260498	-.03178579	19016-4	-23862-2	0	5
0244	70.0425	161.6363	0180638	57.6857	291.6959	15.89152846		11
0244U	89 76	A	89266.07774257	-.00922827	00000-0	-23862-2	0	7
0244	69.9849	161.5098	0115771	74.3507	288.0059	15.86264928		12

89-77A

Fleetsatcom 8

(USA 46)

Upp: 25 sept fr. Cape Canaveral

0253U 89 77 A 89284.85567719 -.00000154 00000-0 99999-4 0 17

0253 4.9865 305.4040 0000158 183.7789 176.4502 1.00249757 16

0254U 89-77B 89268.60410034 0.00001191 26404-4 10000-3 0 1

0254 28.5420 318.4504 7267041 179.6388 181.5435 2.34646916 3

89-78A

Molviya 1-76

Upp: 27sept

20255U	89 78	A	89277.48754833	.00000538	00000-0	10028-2 0	11	
20255	62.7974		174.7545 7324174	288.1968	9.7571	2.05088388	15	
1	20255U	89 78	A	89292.71948866	.00000145	00000-0	89639-3 0	29
2	20255		62.7976	172.4998 7356701	288.2043	9.5696	2.00700019	47

89-79A

Kosmos 2046

Upp: 27 sept

020259U	89 79	A	89277.76033913	.00025962	00000-0	43076-3 0	16
020259	65.0341	262.4733	0008450	279.0579	81.0626	15.52027892	110
020259U	89 79	A	89278.01806764	-.00002422	00000-0	-37534-4 0	17
020259	65.0343	261.6026	0008757	279.1765	80.8094	15.52007239	114
020259U	89 79	A	89280.59550320	.00031972	00000-0	52721-3 0	21
020259	65.0351	252.8930	0008560	282.8072	77.2685	15.52121270	154
020259U	89 79	A	89283.94616834	-.00030363	00000-0	-50024-3 0	31
020259	65.0324	241.5705	0009237	280.5610	79.3553	15.52073158	206

89-80A

Interkosmos 24

Upp: 28 sept

20261U	89 80	A	89277.58714729	.00054237	00000-0	17128-1 0	22
20261	82.6020		30.6660 1264453	195.6076	160.2129	12.42383459	83
20261U	89 80	A	89283.46661781	.00060570	00000-0	19104-1 0	43
20261	82.6003		26.9406 1264225	182.3396	177.1386	12.42452774	156

89-80B

Magion 2

Upp: 28sept.

20281U	89 80	B	89277.10384423	.00003711	00000-0	11677-2 0	3
20281	82.5957	30.9779	1264898	196.6756	158.8848	12.42427382	77
0281U	89 80	B	89290.71421065	.00006358	00000-0	19953-2 0	50
0281	82.5993	22.3505	1264752	166.0199	197.9705	12.42578421	246
20262U	89 80	C	89281.69306091	.00053419	00000-0	16823-1 0	31
20262	82.6036	28.0637	1263787	186.3295	171.8101	12.42604272	134

89-81A

Gorizont 19

Upp: 28 sept.

263U	89-81A	89291.41941616	-.00000257	10000-3 0	28	
263	1.4127	275.9841	0002357	302.8729 55.6848	1.00287260	21
0263U	89 81 A	89325.33118390	-.00000250	00000-0	99999-4 0	68
0263	1.3026	276.0016	0001299	337.9036 22.2378	1.00262310	55

89-82A

Kosmos 2047

Lpp: 3 okt

Ned: 21 nov

20279U	89 82	A	89277.42361326	.00899974	28065-4	28777-3	0	4
20279	67.1287	221.0620	0121003	94.0383	267.5820	16.10120795		13
20279U	89 82	A	89277.79622292	.00916491	28320-4	28617-3	0	5
20279	67.1284	219.7980	0118647	93.6755	267.8252	16.10815555		19
0279U	89 82	A	89278.16868653	.01162776	28893-4	28617-3	0	6
0279	67.1290	218.5316	0084294	88.5617	275.9965	16.19619277		25
20279U	89 82	A	89278.90873973	.01355584	28285-4	28617-3	0	7
20279	67.1278	215.9846	0081737	87.0936	274.1011	16.21500317		37
20279U	89 82	A	89279.46359457	.01392929	28994-4	26824-3	0	8
20279	67.1288	214.0683	0077520	86.9930	274.1378	16.23090989		46
0279U	89 82	A	89280.69439997	.01821752	29238-4	22761-3	0	11
0279	67.1277	200.8355	0067646	85.7130	275.1083	16.27406417		66
0279U	89 82	A	89283.90700257	.01196381	28741-4	30388-3	0	23
0279	67.1270	198.7755	0076810	41.9790	318.7699	16.20643201		118
0279U	89 82	A	89284.09211408	.01341414	28727-4	33046-3	0	24
0279	67.1272	198.1394	0075287	41.7686	318.9898	16.21197613		121

89-83A

Kosmos 2048

Upp: 17 okt

Ned: 26 okt

0292U	89	83	A	89290.65389470	-.00000456	00000-0	00000+0	0	2
0292	62.8020	170.6323	0010760	209.7391	151.1383	16.08271149			1
1	20292U	89	83	A	89291.15112599	.00041526	00000-0	47831-4 0	5
2	20292	62.8105	168.6602	0011305	219.9615	140.0231	16.08429424		9
1	20292U	89	83	A	89291.39981451	.00015331	00000-0	47831-4 0	6
2	20292	62.8036	167.7084	0068000	68.8480	282.8045	15.87575328		13
1	20292U	89	83	A	89291.40142179	.00016098	00000-0	47831-4 0	7
2	20292	62.8085	167.6859	0073847	64.3265	296.4622	15.87804614		13
1	20292U	89	83	A	89291.77860062	.00204614	21544-4	43659-3 0	9
2	20292	62.8126	166.2192	0089798	62.9870	298.0482	15.91311563		19
1	20292U	89	83	A	89292.21844854	-.00008170	00000-0	-16240-4 0	10
2	20292	62.8144	164.5160	0089876	63.0632	297.8771	15.91361602		26
1	20292U	89	83	A	89292.97251496	.00068467	78430-5	14792-3 0	13
2	20292	62.8144	161.5924	0089543	63.2362	297.9997	15.91483715		39

89-84A

STS 34

(Atlantis FS)

Ltp: 18 okt.

Nod: 23 okt

1	20297U	89 84	A	89291.73333059	.00085300	00000-0	25599-3 0	1
2	20297	34.3150	148.5416	0006349	265.2700	302.1406	15.90963529	0
1	20297U	89 84	A	89292.09976832	.00065197	00000-0	25599-3 0	2
2	20297	34.3137	146.0000	0024514	199.2263	307.8708	15.85184492	6
1	20297U	89 84	A	89292.24560165	.00690992	00000-0	25599-2 0	3
2	20297	34.3167	144.9663	0025147	199.4649	61.1687	15.84968595	8
1	20297U	89 84	A	89292.45190441	.00234128	00000-0	90865-3 0	4
2	20297	34.3224	143.5305	0025178	203.9077	155.9578	15.85021319	11
1	20297U	89 84	A	89292.89273867	.00087421	00000-0	34416-3 0	6
2	20297	34.3198	140.4639	0025405	205.8909	153.8729	15.85043422	18
1	20297U	89 84	A	89293.45957629	.00037742	00000-0	14966-3 0	8
2	20297	34.3208	136.5162	0025698	212.5388	147.3462	15.85001393	27
1	20297U	89 84	A	89293.77450672	-.00138432	00000-0	-56943-3 0	10
2	20297	34.3195	134.3257	0026119	213.4539	146.5504	15.84885491	30
	20297U	89 84	A	89294.20393498	.00064712	00000-0	25599-3 0	13
	20297	34.3172	131.3376	0026374	218.8677	75.7256	15.84954198	39

299U	89-840	89292.01084705	0.00000162			10000-3 0	1
299	34.2027	146.5394	7096301	3.1241	359.5755	2.49417770	0

89-85A

Navstar 2-4

Upp: 21 okt

1	20302U	89 85	A	89296.48767222	-.00000031	00000-0	99999-4 0	1
2	20302	54.7791	326.6884	0056226	1.3880 358.6033	1.99107256		0
1	20302U	89 85	A	89297.49223160	-.00000031	00000-0	99999-4 0	2
2	20302	54.7792	326.6605	0056692	1.8703 358.1145	1.99089903		2

89-86 A

Meteor 3-3

Lpp: 24 okt

20305U	89 36	A	89297.96121372	.00000005	00000-0	00000+0 0	1
20305	82.5553		23.9031 0015961	193.5985	166.4721	13.15908208	0
20305U	89 86	A	89298.03723864	-.00310592	00000-0	-89113+0 0	2
20305	82.5747		23.8443 0015750	198.6984	161.3642	13.16005261	1
20305U	89 36	A	89298.34140295	.03307560	00000-0	50639+1 0	3
20305	82.5552		23.6341 0015968	191.0076	169.1252	13.14917913	6
0305U	89 86	A	89298.34138177	.00000043	00000-0	99999-4 0	5
0305	82.5558		23.6354 0016197	190.7463	169.2337	13.15826585	6
0305U	89 86	A	89298.41744044	.00003167	00000-0	83495-2 0	6
0305	82.5564		23.5811 0016180	190.6946	169.3840	13.15827312	7
20305U	89 86	A	89300.92668086	.00000385	00000-0	99999-3 0	11
20305	82.5580		21.8123 0016144	184.4214	175.6772	13.15833905	40
20305U	89 86	A	89301.83913198	-.00000377	00000-0	-10090-2 0	12
20305	82.5576		21.1694 0016184	182.0013	178.1016	13.15832409	52

305U 89 86 A 89357.42223227 .00000056 00000-0 13034-3 0 37
J05 82.5508 341.9667 0017392 48.9339 311.3270 13.15844727 783

89-87A Intelsat G F-2

Upp: 27 out. fr. Kourou m. Ariane 4-6

1	20315U	89-87A	89311.97196605	-.00000221			10000-3 0	9
2	20315	0.0836	47.6079	0013481	217.3987	94.7653	1.00269857	7
0315U	89-87A	89314.96404615	-.00000221				10000-3 0	13
0315	0.1033	51.3732	0014714	212.4149	96.0840		1.00273608	10
0315U	89-87A	89315.96128391	-.00000221				10000-3 0	14
0315	0.1084	53.3081	0014670	211.0773	95.4773		1.00273164	11
0316U	89-87B	89314.76806624	0.00007814				58742-2 0	14
0316	7.0344	190.7575	7263018	190.2740	136.3658		2.27545899	32
20316U	89-87B	89341.03139726	0.00005964				41604-2 0	36
20316	7.0233	179.2574	7261981	212.2333	68.9029		2.27913743	92

89-88A

Kosmos 2049

Upp: 17 Nov

320U	89 88	A	89321.50773177	-.00005124	35279-4	00000+0 0	1
320	64.8000	254.3902	0066923	68.2667	292.3392	16.17485569	1
320U	89 88	A	89329.53081497	.00482991	12571-3	46234-3 0	22
320	64.7811	224.6481	0034914	75.7683	284.7809	16.10078064	130
320U	89 88	A	89330.02765581	.00324381	54737-4	40335-3 0	24
320	64.7841	222.8044	0027751	105.6926	253.5761	16.06633529	138
320U	89 88	A	89330.09010097	.00265777	36102-4	40335-3 0	25
320	64.7811	222.5750	0039914	83.8921	275.7414	16.02605746	139

89-89A

COBE

Upp: 18 nov m. Delta Jr. Vandenberg

0322U	89	89	A	89322.86292452	-	00000018	00000-0	00000+0:0	5
0322	99.0237	330.4885	0006248	230.8080	129.2535	14.00356135			3
0322U	89	89	A	89332.57978897	.00008837	00000-0	59706-2	0	16
0322	99.0228	340.0876	0006709	196.6234	163.5005	14.00477854			139

89-90A

STS 33

(Discovery F9)

Lpp: 23 nov

Ned: 28 nov

329U	89	90	A	89327.04087187	.00784299	-10970-4	25599-3	0	1
329	28.4608	259.5605	0005807	272.2559	299.7991	16.24749568			0
329U	89	90	A	89327.12751891	.00405319	-11017-4	12897-3	0	2
329	28.4671	258.9020	0005311	277.8707	82.1523	16.25014408			1
329U	89	90	A	89327.20034709	.00154846	-78425-5	25599-3	0	3
329	28.4669	258.3318	0244160	42.4217	23.7290	15.65273708			2
329U	89	90	A	89327.41223864	.00078852	-28956-5	25599-3	0	5
329	28.4688	256.7897	0238053	48.1470	132.7618	15.56721476			6
329U	89	90	A	89328.85495539	-.00153785	00000-0	-52749-3	0	6
329	28.4625	246.5320	0238485	65.3326	297.0416	15.56411492			28
329U	89	90	A	89329.23969253	-.00139196	00000-0	-47466-3	0	8
329	28.4631	243.7969	0239257	69.7691	292.7646	15.56326782			34
329U	89	90	A	89329.23970728	-.00060683	00000-0	-20918-3	0	9
329	28.4622	243.7968	0237547	69.7149	292.9584	15.56413406			34
329U	89	90	A	89329.43205498	-.00140768	00000-0	-48038-3	0	10
329	28.4631	242.4293	0239497	71.9744	290.5253	15.56268560			3

329U	89	90	A	89330.13755862	-.00001749	00000-0	-74040-5	0	14
329	28.4614	237.4162	0235975	80.5446	282.1812	15.56089567			48
329U	89	90	A	89330.58651151	.00129739	-13608-7	45669-3	0	15
329	28.4624	234.2292	0236033	85.7381	277.0310	15.55979583			56
329U	89	90	A	89330.90717989	.00004303	00000-0	14122-4	0	16
329	28.4619	231.9499	0236005	89.5794	273.1420	15.55979763			61
329U	89	90	A	89331.16372993	.00285328	16452-4	99213-3	0	17
329	28.4606	230.1211	0236930	92.4441	270.3782	15.56111200			65
329U	89	90	A	89331.35610387	.00034792	-40038-5	11430-3	0	18
329	28.4593	228.7503	0238033	94.6569	268.0569	15.56103905			68
329U	89	90	A	89331.80502451	.00082156	-26018-5	28504-3	0	19
329	28.4624	225.5669	0235703	99.9924	262.7588	15.56154155			74
329U	89	90	A	89331.86914764	.00071909	-29150-5	24855-3	0	20
329	28.4621	225.1098	0235799	100.7198	261.9955	15.56153418			75

89-91A

Kosmos 2050

Lpp: 23 nov

0330U	89-91A	89341.32049733	-.00000820			37934-2 0	17	
0330	62.9998	319.0359	7372260	316.3946	4.6839	2.00592566	28	
0330U	89-91A	89353.28574394	-.00000780			56179-2 0	32	
0330	63.0189	317.1984	7369916	316.5259	4.7071	2.00575092	52	
0331U	89 91 B	89339.46777284	.01186799			37434-4	15620-2 0	22
0331	62.8421	278.0293	0203983	121.0080	241.2808	15.77504303	183	

89-92A

Kosmos 2051

Usp: 24 nov

334U	89 92	A	89329.02889701	-.00000274	00000-0	00000+0 0	1
334	64.8452		88.7767 0104012	262.2010	96.6913	15.73016142	0
334U	89 92	A	89333.31993222	.00010384	00000-0	17257-3 0	25
334	64.9116		74.1259 0068240	223.3574	136.2848	15.49912232	68
334U	89 92	A	89336.28767637	.00041232	00000-0	66025-3 0	31
334	64.9104		64.0780 0067585	222.1705	137.3904	15.50253764	114
0334U	89 92	A	89340.15401549	.00145305	00000-0	22011-2 0	44
0334	64.9090		50.9516 0058405	221.9822	137.4926	15.51953505	174
0334U	89 92	A	89345.82419493	.00055837	00000-0	85644-3 0	59
0334	64.9094		31.6987 0054932	220.6782	138.9829	15.52211040	262

89-93A

Kvant 2

Lpp: 26 nov m. Praton fr. BaiKohur

335U	89	93	A	89330.53513639	-.00000813	00000-0	00000+0	0	1
335	51.6074	270.4732	0080390	85.6237	275.3628	16.02223249			0
335U	89	93	A	89330.59751215	-.00000810	00000-0	00000+0	0	2
335	51.6238	270.1331	0080257	85.7512	275.2719	16.02212119			1
335U	89	93	A	89330.78462305	.00416259	13561-4	46315-3	0	3
335	51.6247	269.1333	0079459	86.4269	274.6723	16.02420840			4
335U	89	93	A	89330.84696825	.00329823	13686-4	36594-3	0	4
335	51.6232	268.7963	0079826	86.9021	274.1028	16.02443459			5
335U	89	93	A	89331.03404674	.00486169	13601-4	53101-3	0	5
335	51.6237	267.7921	0079481	87.5729	273.4779	16.02660456			8
335U	89	93	A	89331.84442563	.00503783	14009-4	52669-3	0	6
335	51.6235	263.4450	0077921	91.1899	269.9001	16.03498498			21
335U	89	93	A	89331.90672797	.00488623	14255-4	51010-3	0	7
335	51.6242	263.1103	0077751	91.5357	269.4523	16.03547804			22

335U	89	93	A	89332.28059529	.00492000	14463-4	50106-3	0	8
335	51.6215	261.1080	0077035	92.9167	268.1238	16.03996	766		28
335U	89	93	A	89333.77531305	.00068299	00000-0	59832-3	0	12
335	51.6167	253.1010	0041177	112.2311	236.9090	15.67101642			52
335U	89	93	A	89333.77531305	.00068299	00000-0	59832-3	0	13
335	51.6167	253.1010	0041177	112.2311	236.9090	15.67101642			52
335U	89	93	A	89334.09617266	.00158314	00000-0	13682-2	0	14
335	51.6205	251.4683	0041864	112.7847	247.5846	15.67025859			57
335U	89093		A	89334.79775639	.00112164	00000-0	00000-0	0	0015
335	051.6188	247.9126	0043406	115.3437	245.2730	15.66350734	00068		
335U	89	93	A	89335.43572635	.00018923	00000-0	17388-3	0	17
335	51.6201	244.6653	0044655	117.8567	242.7733	15.66451543			78
335U	89	93	A	89335.49950820	.00018435	00000-0	17388-3	0	18
335	51.6262	244.3385	0048684	118.1902	242.2335	15.65592891			79
335U	89	93	A	89335.75485954	.00018402	00000-0	17388-3	0	19
335	51.6224	243.0424	0047891	119.5137	241.0632	15.65597922			83
335U	89	93	A	89336.26549920	.00016104	00000-0	15214-3	0	20
335	51.6235	240.4503	0048410	121.8418	238.8196	15.65694571			91
335U	89	93	A	89336.39313595	.00038449	00000-0	35414-3	0	21
335	51.6239	239.8015	0048370	122.1766	238.3956	15.65708222			93

89-93 A

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335U	89	93	A	89336.39313595	.00038449	00000-0	35414-3 0	21
335	51.6239	239.8015	0048370	122.1766	238.3956	15.65708922	93	
0335U	89	93	A	89336.64843706	.00030344	00000-0	35414-3 0	22
0335	51.6173	238.4741	0019845	101.2377	257.1352	15.61123414	97	
335U	89	93	A	89336.96883737	.00158198	00000-0	17821-2 0	23
335	51.6239	236.8949	0021377	115.8258	244.5304	15.61233380	102	
335U	89	93	A	89337.09684741	.00124572	00000-0	14090-2 0	24
335	51.6242	236.2494	0021456	116.0124	244.2980	15.61254447	104	
335U	89	93	A	89337.48088664	.00104380	00000-0	14090-2 0	25
335	51.6079	234.3221	0007286	170.4718	188.5442	15.56925870	110	
335U	89	93	A	89337.73782288	.00018199	00000-0	25396-3 0	26
335	51.6215	233.0317	0007997	173.1198	186.9563	15.56916834	114	
335U	89	93	A	89338.12294731	.00055099	00000-0	75021-3 0	27
335	51.6238	231.1020	0008105	175.9209	184.2145	15.56966703	120	
335U	89	93	A	89338.76477375	.00060533	00000-0	82042-3 0	28
335	51.6232	227.8857	0008147	179.1598	180.9643	15.57048973	130	

0335U	89 93	A	89339.08567175	.00057891	00000-0	78420-3 0	29
0335	51.6238	226.2773	0008269	181.1623	178.9255	15.57081629	135
0335U	89 93	A	89339.34239057	.00076745	00000-0	10333-2 0	30
0335	51.6244	224.9921	0007914	185.2211	174.8800	15.57126560	139
0335U	89 93	A	89339.72824261	-.00047713	00000-0	-76107-3 0	32
0335	51.6231	223.0725	0011035	284.3651	75.5295	15.53891961	145
0335U	89 93	A	89340.17844668	.00055113	00000-0	43685-3 0	33
0335	51.6237	220.8269	0010912	285.0402	75.0623	15.53971694	152
0335U	89 93	A	89340.37134881	-.00077532	00000-0	-11958-2 0	34
0335	51.6233	219.8651	0011571	282.3266	77.6253	15.53916692	155
0335U	89 93	A	89340.88581869	.00024990	00000-0	34439-3 0	35
0335	51.6212	217.2896	0002755	345.6293	18.0594	15.57062525	163
0335U	89 93	A	89341.91205237	.00090848	00000-0	12188-2 0	36
0335	51.6207	212.1486	0002943	138.0924	222.1381	15.57178431	179
0335U	89 93	A	89343.90136874	.00076314	00000-0	10207-2 0	38
0335	51.6233	202.1802	0003347	145.6263	214.3114	15.57335734	210

89-94A

Molniya 3-36

Угг: 28 нор

338U	89	94	A	89332.46986303	.00000028	00000-0	99999-4 0	1
338	62.8389	167.7630	7404340	288.0346	9.3823	1.95755488	0	0
338U	89	94	A	89332.98061669	.00000085	00000-0	99999-4 0	2
338	62.8348	167.6931	7403306	288.0665	9.3154	1.95748168	2	2
338U	89	94	A	89333.49148012	.00000082	00000-0	-12325-2 0	3
338	62.8298	167.6180	7403128	288.0690	9.3183	1.95744654	3	3
338U	89	94	A	89334.00234611	.00000103	00000-0	-20731-2 0	4
338	62.8431	167.5224	7402927	288.0758	9.3239	1.95743064	4	4

89-95A

Kosmos 2052

Lpp: 30 nov

350U	89095A	89334.74011592	.00000000	00000-0	00000-0	0	0001
350	067.1542	280.8039 0134105	094.5994	267.0760	16.0799659600002		
350U	89 95 A	89334.74024187	-.00004018	27640-4	00000+0	0	2
350	67.1496	280.8008 0136464	96.3132	265.5202	16.06650938		2
350U	89 95 A	89334.86461506	.04867742	27919-4	15439-2	0	3
350	67.1410	280.3950 0132810	96.8752	264.2088	16.07774883		4
350U	89 95 A	89335.73567404	.00925270	28048-4	27123-3	0	7
350	67.1553	277.4419 0132924	95.2574	266.3595	16.08512809		18
350U	89 95 A	89337.72282248	.01082994	28081-4	26227-3	0	13
350	67.1525	270.7088 0120472	93.3819	268.0335	16.12769060		50
350U	89 95 A	89338.15680749	.00481699	27420-4	25866-3	0	15
350	67.1558	269.2385 0129001	73.4409	283.4763	16.03310272		57

89-96A

Granat

Lipp: T dec

0352U	89-96A	89338.02083333	-.00000843			10000-3 0	2
0352	51.8649	23.4611 9249571	286.8769 184.5246	0.24291372			1
0352U	89-96A	89346.00000000	-.00000838			10000-3 0	4
0352	51.7220	23.3800 9238040	285.6830 168.2810	0.24433004			4
353U	89 96 B	89335.98748181	-.00000315	00000-0	00000+0 0		1
353	51.5449	24.7696 1187776	121.4709 251.0990	13.38753512			2
353U	89 96 B	89336.13671156	-.00024924	00000-0	-17182-3 0		2
353	51.5403	24.2032 1184891	121.8283 250.3509	13.38750031			4

89-97A

NAVSTAR-2 FS

Upp: 11 dec

203620	89 97	B	89345.79841799	-.00000041	00000-0	-24903-5 0	1
20362	35.6130	142.2049	0336292	97.5937	266.1364	14.46539210	0
203620	89 97	B	89346.14301217	-.00005555	00000-0	-62763-3 0	2
20362	35.6339	140.2604	0333389	98.0019	265.8563	14.49138643	5
203620	89 97	B	89346.76311724	.00007702	00000-0	97682-3 0	4
20362	35.6375	136.8038	0332925	103.0550	260.7547	14.49153176	14

89-98A

Raduga 25

367U	89-98A	89349.25862775	-.00000026			10000-3 0	1		
367		1.4296	267.7199	0011298	120.3569	241.9235	0.97554814	0	
367U	89-98A	89352.31938536	-.00000011			10000-3 0	8		
367		1.5138	264.4487	0009537	128.4712	232.6045	0.97602516	4	
0368U	89 98	B	89349.65499210	.00769170	58885-4	14999-3 0	0		
0368			51.6459	265.0463	0007986	193.0182	165.2080	16.30924416	3
0369U	89 98	C	89349.65499209	.00820917	58563-4	14999-3 0	0		
0369			51.6454	265.0945	0042519	153.0211	203.9808	16.28682230	3

89-99A

Progress-172

Upp: 20 DEC.

73U	89-99A	89354.19993952	-.00008464	58438-4		0	1
73	51.5970	150.8301	0018400	108.0748	252.2127	16.27422619	1
73U	89-99A	89354.57400215	0.00284090	31739-4	11348-2	0	3
73	51.6145	148.9347	0089907	110.0871	250.6528	15.79780602	7
73U	89-99A	89355.33310729	0.00030222		13168-3	0	5
73	51.6057	145.0092	0084448	112.2573	248.4148	15.79123187	19
373U	89 99 A	89354.44555540	-.00000475	00000-0	00000+0	0	2
373	51.6125	149.6010	0089649	109.5722	240.1793	15.79725589	5
373U	89 99 A	89355.90269004	.00093352	00000-0	37031-3	0	9
373	51.6140	142.0570	0085803	114.8638	246.1255	15.79244260	28

89-100A

Rosmos 2053

Upp: 27dec

0389U	89-100A	89361.18667609	0.01693502			75631-1	0	2
0389	.73.5511	101.6631	0013121	249.2370	110.8176	15.13111687		3

89-101A

Kosmos 2054

Upp: 27 dec

20391U	89-101A	89361.48029239	-.00000020			10000-3	0	1
20391	1.5094	273.9357	0015828	150.3480	295.8580	0.97981875		0
20392U	89-101B	89362.12984992	0.29397945	60934-4	77431-3	0		7
20392	51.6068	269.1929	0004042	125.0556	235.1813	16.45644212		11