

88-01 A

Kormos 1908

Upp: 6 Jan

8748U	88	1	A	88	6.37748570	.00000011	00000-0	00000 0 0	1
8748	82.5184	247.1505	0018337	276.5453	83.3734	14.72903108		0	
8748U	88	1	A	88	6.44541912	.00000012	00000-0	00000 0 0	2
8748	82.5182	247.0826	0021569	276.9571	83.0805	14.73647359		1	
8748U	88	1	A	88	6.51328910	.00191787	00000-0	28516-1 0	3
8748	82.5172	247.0204	0021223	277.1477	82.7356	14.73670222		2	
8748U	88	1	A	88	7.73547209	.00003302	00000-0	50188-3 0	12
8748	82.5130	245.8915	0021294	272.8187	86.9630	14.73634638		21	

88-02A-F

Kosmos 1909 - 1914

Upp: 15 jan

88U	88	2	A	88	15.22406708	.00000004	00000-0	00000	0	0	1
88	82.5946	198.0015	0067727	103.9802	257.0774	12.54446116					0
789U	88	2	H	88	15.46329207	.00000004	00000-0	00000	0	0	1
789	82.7097	197.8944	0029079	98.7369	267.9620	12.60923757					3
790U	88	2	C	88	15.46329207	.00000004	00000-0	00000	0	0	1
790	82.6099	197.9093	0065600	75.3375	293.3080	12.57340741					3
791U	88	2	D	88	15.46329207	.00000004	00000-0	00000	0	0	1
791	82.5957	197.8800	0011380	17.5352	350.9443	12.64587141					1
792U	88	2	E	88	15.46329207	.00000004	00000-0	00000	0	0	1
792	82.6007	197.8810	0013273	16.4422	352.6105	12.65372276					3
793U	88	2	F	88	15.69820815	.00000004	00000-0	00000	0	0	2
793	82.6049	197.7355	0017546	18.9026	341.0607	12.65987344					6
794U	88	2	G	88	15.46329207	.00000004	00000-0	00000	0	0	1
794	82.6024	197.8840	0038012	206.5899	152.8236	12.55409813					3

88-03A

Progress 34

Upps 20, an

18795U	88	3	A	88	21.00658456	-.00008292	57265-4	00000	0	0	1
18795	51.6481	112.1191	0055459			91.5919	269.2603	16.19297875			1
18795U	88	3	A	88	21.43849350	.00747734	57417-4	27776-3	0		3
18795	51.6394	109.7417	0054574			93.6254	267.1448	16.19769166			8
18795U	88003		A	88021	.62357129	.00499046	00000-0	00000-0	0	0004	
18795	051.6419	108.7319	0053883			094.5528	266.2348	16.1992473500011			
18795U	88	3	A	88	21.93196904	.00486885	56957-4	17623-3	0		4
18795	51.6402	107.0351	0053776			95.7151	265.0011	16.20229614			16
18795U	88	3	A	88	22.17865474	.00146076	18392-4	17623-3	0		5
18795	51.6222	105.7330	0022085			3.0363	350.9519	16.07273189			20
18795U	88	3	A	88	22.24188654	.00140111	17155-4	17623-3	0		6
18795	51.6383	105.3535	0021948			10.8430	349.1890	16.06634978			21
18795U	88	3	A	88	23.79663549	.00038080	00000-0	25452-3	0		7
18795	51.6281	97.1129	0015644			9.5586	255.2798	15.74757240			46
18795U	88	3	A	88	24.76529630	.00038162	00000-0	25452-3	0		8
18795	51.6314	92.1307	0016004			12.5690	347.4718	15.74799224			61

8795U	88	3	A	88	25.78060696	.00038193	00000-0	25452-3 0	9
8795	51.6293	86.9040	0015578	20.1792	339.8386	15.74827984			77
8795U	88	3	A	88	33.07749883	.00019676	00000-0	13191-3 0	14
8795	51.6318	49.3800	0016417	46.9848	313.2458	15.75092472			192
8795U	88	3	A	88	35.99587670	.00019790	00000-0	13191-3 0	17
8795	51.6307	34.3643	0016459	58.5802	301.6553	15.75215900			238
8795U	88	3	A	88	37.96240970	.00020134	00000-0	13191-3 0	18
8795	51.6221	24.2330	0016183	68.1574	292.8296	15.75606097			269
8795U	88	3	A	88	39.80156014	.00020145	00000-0	13191-3 0	20
8795	51.6279	14.7754	0016485	73.1266	287.0623	15.75611707			298
18795U	88	3	A	88	39.80156014	.00020145	00000-0	13191-3 0	20
18795	51.6279	14.7754	0016485	73.1266	287.0623	15.75611707			298

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Kosmos 1915

8809U	88	4	A	88	26.52665031	-	.00001639	11409-4	00000 0'0	1
8809	72.9082	299.6948	0136656				87.2996	274.5304	15.96404368	1
8809U	88	4	A	88	26.65197166		.00092604	11350-4	85907-4 0	2
8809	72.8740	299.3846	0134780				86.6380	274.9555	15.96105334	3
8809U	88	4	A	88	26.90269661		.00139858	11830-4	12959-3 0	3
8809	72.3718	298.7524	0134554				86.2972	275.3132	15.96092387	7
8809U	88	4	A	88	26.90269661		.00139858	11830-4	12959-3 0	5
8809	72.8718	298.7524	0134554				86.2972	275.3132	15.96092387	7
8809U	88	4	A	88	27.21609314		.00040738	11130-4	38607-4 0	6
8809	72.8740	297.9655	0134614				85.4257	276.2196	15.96139594	12
8809U	88	4	A	88	27.90553560		.00040557	11540-4	38607-4 0	7
8809	72.8716	296.2294	0134149				83.8599	277.7943	15.96186584	23
8809U	88	4	A	88	28.28158495		.00040811	11542-4	38607-4 0	8
8809	72.8737	295.2823	0134102				82.8961	278.8244	15.96268479	29
8809U	88	4	A	88	29.91098395		.00031901	11574-4	30629-4 0	9
8809	72.8719	291.1806	0133053				78.7822	282.9445	15.96418071	55

18809U	88	4	A	88	30.28696055	.00016139	00000-0	30629-4 0	10
18809	72.8764	290.2267	0118346			61.9851	297.5105	15.88951082	61
18809U	88	4	A	88	30.35023921	.00030651	00000-0	59468-4 0	11
18809	72.8749	290.0753	0120297			62.8706	298.3185	15.88186673	62
18809U	88	4	A	88	30.85418921	.00025706	00000-0	49999-4 0	12
18809	72.8757	288.8241	0120134			62.1629	299.1487	15.88199955	70
18809U	88	4	A	88	31.86202387	.00004080	00000-0	81930-5 0	13
18809	72.8754	286.3181	0120159			59.4843	301.7282	15.88203673	86
18809U	88	4	A	88	33.87771144	.00015602	00000-0	30716-4 0	15
18809	72.8759	281.3074	0119186			54.9257	306.3754	15.88246514	118
18809U	88	4	A	88	34.94849363	.00020491	00000-0	39992-4 0	17
18809	72.8755	278.6431	0119405			52.1755	309.0805	15.88300300	135
18809U	88	4	A	88	35.95625229	.00015730	00000-0	30752-4 0	18
18809	72.8759	276.1362	0119250			49.7192	311.4744	15.88343945	151
18809U	88	4	A	88	36.96397650	.00025952	00000-0	50226-4 0	19
18809	72.8745	273.6287	0119353			47.2478	313.8645	15.88405265	167
18809U	88	4	A	88	38.85336506	.00312621	37519-4	60232-3 0	23
18809	72.8743	268.9294	0118715			42.6508	318.4173	15.88588675	197
18809U	88	4	A	88	39.29414440	.00003745	00000-0	74859-5 0	24
18809	72.8746	267.8296	0118835			41.4225	319.3074	15.88543307	204
18809U	88	4	A	88	39.60907766	.00014793	00000-0	28540-4 0	26
18809	72.8748	267.0482	0119184			40.6135	320.4065	15.88567420	209

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Meteor 2-17

Upp: 30, an

8820U	88	5	A	88	30.51816382	.00000006	00000-0	00000	0	0	1
8820	82.5445	320.7293	0016978	238.5392	121.3574	13.84399685					0
8820U	88	5	A	88	30.73505824	.00000006	00000-0	00000	0	0	4
8820	82.5108	320.5470	0014868	231.7229	128.2657	13.84178918					4
8820U	88	5	A	88	31.74717709	.00002086	00000-0	18657-2	0	0	7
8820	82.5467	319.7626	0015545	237.5696	122.3966	13.84019096					18

88-06A

DMSP 2-04

Upp: 3 feb fr. Vandenberg AFP

8822U	88	6	A	88	34.43166768	-.00000019	00000-0	00000	0	0	2
8822	.98.7682	275.5065	0005486	244.0269	116.7404	14.20277116					2
18822U	88	6	A	88	34.99511856	.00065728	00000-0	30429-1	0		3
18822	.98.7676	276.0655	0005634	244.1667	115.8712	14.20278478					10

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Kosmos 1916

Upp: 3 feb

Ned: 29 feb

8823U	88	7	A	88	34.94176915	.00278386	34260-4	11794-3	0	4
8823	64.8785	350.9736	0143251			67.5307	294.1114	16.02942382		7
18823U	88	7	A	88	34.94176915	.00278386	34260-4	11794-3	0	5
18823	64.8785	350.9736	0143251			67.5307	294.1114	16.02942382		7
18823U	88	7	A	88	35.37846068	.00424153	34097-4	17521-3	0	6
18823	64.8809	349.3744	0142099			67.4840	294.3153	16.03368470		14
18823U	88	7	A	88	35.93970147	.00406963	34217-4	16514-3	0	7
18823	64.8800	347.3142	0140770			67.1819	294.3665	16.03820404		23
18823U	88	7	A	88	37.49785191	.00445885	34140-4	16985-3	0	11
18823	64.8796	341.5892	0136015			66.8008	294.9121	16.05399030		48
18823U	88	7	A	88	37.87154803	.00508054	34051-4	18866-3	0	12
18823	64.8804	340.2155	0135198			66.4717	295.1049	16.05799842		50
18823U	88	7	A	88	38.86767945	.00386231	34264-4	13772-3	0	14
18823	64.8773	336.5450	0132558			66.4417	294.9743	16.06757694		70
18823U	88	7	A	88	39.30330887	.00558709	34493-4	19456-3	0	15
18823	64.8787	334.9382	0130920			66.2520	295.2430	16.07280338		77

18823U	88	7	A	88	41.60378106	.00617835	34407-4	19041-3	0	18
18823	64.8775	326.4363	0123612			65.7896	296.0298	16.09905985		114
18823U	88	7	A	88	41.91427015	.00632031	34395-4	18910-3	0	19
18823	64.8772	325.2855	0123043			65.7052	295.6885	16.10295565		119
8823U	88	7	A	88	42.78343590	.00593684	34573-4	16964-3	0	20
8823	64.8777	322.0638	0119627			65.4479	295.9842	16.11414281		133
8823U	88	7	A	88	44.89025193	.00811983	35340-4	19002-3	0	25
8823	64.3769	314.2157	0101504			64.8593	296.5383	16.16797499		167
18823U	88	7	A	88	45.38492676	.00828303	34757-4	18476-3	0	26
18823	64.8768	312.3642	0099209			64.9692	296.2740	16.17671087		175
8823U	88	7	A	88	45.87935252	.00845770	35283-4	18073-3	0	27
8823	64.3770	310.5131	0096815			64.8195	296.3003	16.18515034		183
8823U	88	7	A	88	46.86746462	.01011706	35144-4	19388-3	0	28
8823	64.8763	306.8046	0091768			64.6497	296.7377	16.20430286		199
8823U	88	7	A	88	47.11423516	.00942847	35513-4	17196-3	0	29
8823	64.8784	305.8766	0090350			64.7871	296.3363	16.21006129		203
8823U	88	7	A	88	47.66928984	.00816346	34614-4	17196-3	0	30
8823	64.8773	303.7996	0128801			66.8205	290.2040	16.11811562		212
8823U	88	7	A	88	47.85617598	.00847991	34508-4	17196-3	0	31
8823	64.8774	303.1043	0128201			66.7602	294.6795	16.12098064		215

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Kosmos 1916

Parts, 1

18823U	88	7	A	88	48.91011446	.00902218	34903-4	15972-3	0	33
18823	64.3773	299.1789	0121860			66.7423	294.7381	16.14083336		232
18823U	88	7	A	88	48.72427033	.00590483	34506-4	10585-3	0	32
18823	64.3744	299.8687	0123410			66.9856	294.8035	16.13693397		229
18823U	88	7	A	88	49.34370464	.00901066	34970-4	15018-3	0	34
18823	64.8753	297.5607	0119142			66.7852	294.6833	16.14945694		239
18823U	88	7	A	88	51.88690158	.00622289	34613-4	19463-3	0	39
18823	64.8708	288.1090	0110460			53.4925	307.6845	16.12373836		280
18823U	88	7	A	88	52.69296010	.00720957	34731-4	21309-3	0	40
18823	64.8693	285.1111	0107291			53.2650	308.0065	16.13520558		293
18823U	88	7	A	88	52.81688405	.00721629	34701-4	21309-3	0	41
18823	64.8691	284.6481	0106385			53.4420	307.6635	16.13704727		295
18823U	88	7	A	88	53.25061058	.00759889	34984-4	21309-3	0	42
18823	64.8697	283.0324	0104789			53.1943	308.0619	16.14499061		302
18823U	88	7	A	88	53.56024812	.01059817	35184-4	28864-3	0	43
18823	64.8680	281.8782	0102410			53.3214	307.9080	16.15214994		307

8823U	88	7	A	88	53.68403825	.01026971	34592-4	27538-3	0	44
8823	64.8674	281.4162	0101943	53.4249	307.6002	16.15451211	309			
8823U	88	7	A	88	53.80973925	.01023533	34690-4	26968-3	0	45
8823	64.8691	280.7233	0100805	53.2520	307.7875	16.15834002	312			
8823U	88	7	A	88	54.11726626	.01206425	35018-4	30488-3	0	46
8823	64.8697	279.7946	0099063	53.6793	307.5221	16.16548548	316			
8823U	88	7	A	88	54.42648522	.01613003	35159-4	38959-3	0	47
8823	64.8667	278.6381	0095308	53.2368	308.0199	16.17671700	321			
8823U	88	7	A	88	54.92076209	.01376487	35448-4	30937-3	0	48
8823	64.8697	276.7824	0091106	53.4183	307.4207	16.19128790	329			
8823U	88	7	A	88	55.29125707	-.04671960	35150-4	-10207-2	0	49
8823	64.8654	275.3893	0091340	52.3551	308.3260	16.19297000	335			
8823U	88	7	A	88	55.35307517	.01221365	35287-4	26408-3	0	50
8823	64.8645	275.1581	0090009	52.8896	308.1993	16.19688739	336			
8823U	88	7	A	88	55.90851295	.12244627	35743-4	25112-2	0	51
8823	64.8686	273.0666	0087498	53.3418	307.7369	16.20599637	345			
8823U	88	7	A	88	55.97016025	.12630245	35119-4	25112-2	0	52
8823	64.8663	272.8362	0087797	53.4201	307.4479	16.20819021	346			
8823U	88	7	A	88	56.27816766	.01545149	35571-4	28893-3	0	53
8823	64.8655	271.6753	0082382	52.8217	306.3164	16.22393144	351			

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Kosmos 1916

Part 2

8823U	88	7	A	88	56.95595654	.02085191	35981-4	31730-3	0	55
8823	64.8647	269.1125	0074565			53.1938	307.6030	16.25151065		362
8823U	88	7	A	88	57.20202425	.02340568	35670-4	30631-3	0	56
8823	64.8627	268.1793	0071983			52.7888	308.0425	16.26314617		366
8823U	88	7	A	88	57.50933875	.02216601	36280-4	25796-3	0	57
8823	64.8640	267.0149	0068818			53.0126	307.5030	16.27476445		371
8823U	88	7	A	88	58.06189998	.03106027	36363-4	25822-3	0	58
8823	64.8620	264.9091	0060756			53.5033	307.1818	16.30619092		380
8823U	88	7	A	88	58.12322153	.03233928	36690-4	25587-3	0	59
8823	64.8359	264.6529	0060041			51.6410	309.0154	16.30989909		381
8823U	88	7	A	88	58.12322153	.03233928	36690-4	25587-3	0	60
8823	64.8359	264.6529	0060041			51.6410	309.0154	16.30989909		381
8823U	88	7	A	88	58.12322153	.03233928	36690-4	25587-3	0	61
8823	64.8359	264.6529	0060041			51.6410	309.0154	16.30989909		381
8823U	88	7	A	88	59.53574250	.06370743	36439-4	13258-3	0	62
8823	64.8614	259.3380	0084146			89.7770	271.4487	16.33554075		404
8823U	88	7	A	88	59.90292452	.04082454	37052-4	14130-3	0	63
8823	64.8710	257.9311	0057396			55.4190	305.2535	16.35705643		410

8823U	88	7	A	88	59.96405130	.04625716	36885-4	14974-3	0	64
8823	64.8684	257.6966	0055868			56.2856	304.3964	16.36374193		411
8823U	88	7	A	88	60.20830948	.05654731	37017-4	13796-3	0	65
8823	64.8654	256.7568	0050440			55.3020	305.2972	16.39036665		415
8823U	88	7	A	88	60.45216489	.07252105	37025-4	13092-3	0	67
8823	64.8667	255.8116	0041692			56.4021	304.4221	16.42425250		419

88-08C

8849U	88	8	C	88	41.03221801	.00000703	00000-0	56729-6 0	1
8849	28.5718	283.1766	0077969	249.8630	109.3878	15.94889109			18
8849U	88	8	C	88	41.72044533	.00282941	25168-4	50419-3 0	2
8849	28.5770	277.9949	0074605	259.5172	100.1077	15.95271027			29
8849U	88	8	C	88	42.84608812	.00206667	10780-4	35542-3 0	3
8849	28.5811	269.5399	0074315	276.4701	82.5683	15.95834591			47

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USA 30

Ved: 1 mars

18847U	88	8	A	88	39.96894249	.00000873	00000-0	56729-6 0	1
18847	28.5806	291.1798	0087637	246.8017	112.3069	15.98112656			1
18847U	88	8	A	88	40.21865242	.00000855	00000-0	56729-6 0	2
18847	28.5827	289.2960	0085881	249.0988	109.8369	15.98093192			5
18847U	88	8	A	88	40.28112851	.00000860	00000-0	56729-6 0	3
18847	28.5750	288.8151	0088648	247.1011	112.0250	15.97612257			6
18847U	88	8	A	88	40.34357168	.00000879	00000-0	56729-6 0	5
18847	28.5775	288.3434	0088083	249.7103	109.4027	15.98285893			7
18847U	88	8	A	88	40.78060349	.00000840	00000-0	56729-6 0	6
18847	28.5760	285.0469	0084330	255.1868	102.8080	15.97876897			14
18847U	88	8	A	88	41.40519008	.00000852	00000-0	56729-6 0	10
18847	28.5672	280.3197	0084102	260.4874	98.6299	15.98204657			24
18847U	88	8	A	88	41.96699389	.00352364	42560-4	46714-3 0	11
18847	28.5773	276.0873	0082721	268.5319	90.5803	15.98757476			33

88-09

Kosmos 1917-1919

Upp: 17 feb. fr. Baikonur. "GLONASS failure"

8858U 88009 D 88049.47347771 .01907610 00000-0 00000-0 0 0011
8858 064.8056 181.7153 0012465 047.9640 312.2489 16.4371999100024

88-10A

Kormos 1920

Upp: 18 Feb.

Net: 9 MAR 5

18860U	88	10	A	88	49.46387606	.00000803	-54013-5	00000	0	0	
18860	82.5560	322.2392	0035928	112.6221	247.7944	16.22731601					0
18860U	88	10	A	88	53.91909797	.00021469	00000-0	11721-3	0		9
18860	82.5941	317.3383	0014449	209.9027	150.2779	15.79555489					71
18860U	88	10	A	88	54.93268666	.00028002	00000-0	15244-3	0		10
18860	82.5929	316.2499	0014371	204.8763	155.2511	15.79622146					87
18860U	88	10	A	88	54.93268666	.00028002	00000-0	15244-3	0		11
18860	82.5929	316.2499	0014371	204.8763	155.2511	15.79622146					88
18860U	88	10	A	88	55.88289333	.00005305	00000-0	28787-4	0		12
18860	82.5947	315.2283	0014578	201.8650	158.1350	15.79634037					103
18860U	88	10	A	88	57.90988268	.00125097	00000-0	67212-3	0		13
18860	82.5961	313.0542	0015143	193.1370	166.2274	15.79705962					2

8860U	88	10	A	88	58.03669995	.00012312	00000-0	66804-4	0	14	
8860					82.5936	312.9164	0014839	193.5966	166.4743	15.79686932	4
8860U	88	10	A	88	59.87373965	.00002161	00000-0	11579-4	0	16	
8860					82.5931	310.9437	0015126	185.4684	174.6416	15.79699405	165
8860U	88	10	A	88	60.95061912	.00085642	00000-0	46138-3	0	17	
8860					82.5937	309.7896	0015150	182.0573	178.1008	15.79737080	182
8860U	88	10	A	88	69.69256230	.00330073	00000-0	16790-2	0	29	
8860					82.5894	300.4002	0016157	151.9297	212.4926	15.80395031	321
8860U	88	10	A	88	70.00839325	.00507296	00000-0	24935-2	0	30	
8860					82.5908	300.0607	0016016	151.3450	208.9614	15.80719744	326

88-11 A

Kosmos 1921

Wed: 4mars

18875U	88 11 A 88	50.39102851	-.00000324	00000-0	00000 0 0	1
18875	70.0226	310.9101 0129091	62.3321	299.0281	15.94004553	1
18875U	88 11 A 88	50.39103962	-.00000279	00000-0	00000 0 0	2
18875	70.1283	310.8879 0123341	60.7958	300.4250	15.91626706	1
18875U	88 11 A 88	50.64236270	.00005057	00000-0	65161-5 0	3
18875	70.0064	310.1802 0134074	63.4615	298.0673	15.92475452	5
18875U	88 11 A 88	50.83079892	.00005038	00000-0	65161-5 0	4
18875	70.0060	309.6324 0133843	63.3379	298.1364	15.92468799	8
18875U	88 11 A 88	51.01924367	.00000516	00000-0	65161-5 0	5
18875	70.0252	309.1071 0053672	214.1051	129.3662	15.62414540	11
18875U	88 11 A 88	51.72639594	.00046412	00000-0	49032-3 0	6
18875	70.0116	307.1500 0050216	212.6877	146.9583	15.62333886	22

8875U	88	11	A	88	51.91849697	.00046563	00000-0	49032-3	0	7
8875	70.0132	306.6199	0050878			212.1989	147.6004	15.62372087		25
8875U	88	11	A	88	52.87884184	.00046557	00000-0	49032-3	0	8
8875	70.0155	303.9496	0050574			210.4875	149.1760	15.62388580		40
8875U	88	11	A	88	53.45507713	.00046477	00000-0	49032-3	0	9
8875	70.0129	302.3483	0050066			210.4242	149.2964	15.62377442		49
8875U	88	11	A	88	54.60749397	.00008931	00000-0	95325-4	0	11
8875	70.0129	299.1458	0049741			208.4745	151.0444	15.62362935		67
8875U	88	11	A	88	54.99170209	.00007159	00000-0	76604-4	0	12
8875	70.0158	298.0765	0050183			207.7327	152.0970	15.62365731		73
8875U	88	11	A	88	55.88806764	.00000011	00000-0	12389-5	0	13
8875	70.0133	295.5868	0049948			206.3511	153.5120	15.62343081		87
8875U	88	11	A	88	60.30587881	.00244228	00000-0	25238-2	0	14
8875	70.0146	283.3071	0048379			198.8367	160.8572	15.62369640		156
8875U	88	11	A	88	59.85773314	.00244785	00000-0	25238-2	0	17
8875	70.0147	284.5568	0049645			199.8023	160.1459	15.62347298		149
8875U	88	11	A	88	60.69004910	.00094264	00000-0	99289-3	0	19
8875	70.0098	282.2427	0049416			198.0354	161.6756	15.62270065		162
8875U	88	11	A	88	60.94620224	.00071897	00000-0	75805-3	0	20
8875	70.0108	281.5320	0049378			197.6106	162.3518	15.62327496		166

88-11A

Kosmos 1921

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18875U	88 11 A 88	61.84259365	.00167447	00000-0	17450-2 0	22
18875	70.0115	279.0413 0049272	196.3100	163.6486	15.62322646	180
18875U	88 11 A 88	62.54683587	.02896834	00000-0	22500-1 0	23
18875	70.0058	277.0842 0049689	194.4107	165.1790	15.62340475	191
18875U	88 11 A 88	62.67493552	.00084477	00000-0	89209-3 0	24
18875	70.0091	276.7288 0049044	194.9101	164.8978	15.62261793	193
18875U	88 11 A 88	62.93107867	.00076104	00000-0	80320-3 0	25
18875	70.0125	276.0199 0049109	194.3596	165.6223	15.62303966	197
18875U	88 11 A 88	63.89144634	.00075752	00000-0	80320-3 0	26
18875	70.0121	273.3583 0047409	192.0635	167.5408	15.62292179	212
18875U	88 11 A 88	63.89144634	.00075752	00000-0	80320-3 0	27
18875	70.0121	273.3583 0047409	192.0635	167.5408	15.62292179	209
18875U	88 11 A 88	63.89144634	.00075752	00000-0	80320-3 0	28
18875	70.0121	273.3583 0047409	192.0635	167.5408	15.62292179	209

88-12A

18877U	88	12	A	88	55.04614483	.00000047	00000-0	99999-4	0	6
18877		0.1470		256.8815	0123140	249.5085	214.4474	0.99833925		5
18877U	88	12	A	88	52.08930814	.00000038	00000-0	99999-4	0	2
18877		0.1879		267.1363	0259881	238.9594	215.3216	1.01858729		2
18879U	88	12	C	88	64.46370452	.00000018	00000-0	99999-4	0	7
18879		28.2769		329.6778	7371671	186.2892	151.7733	2.17119970		29

88-13A

Kosmos 1922

188810	88	13	A	88	57.44601722	.00000019	00000-0	99999-4	0	2
18881	62.9035	248.1691	7337649	316.1270	4.0402	2.03905753				1
188810	88	13	A	88	67.87268290	-.00001056	00000-0	00000	0 0	17
18881	62.9334	246.6252	7363449	316.2357	4.7344	2.00577713				22

88-14A

Kina 22

Lapp: 7 mars från Xichang

189220	88	14	A	88	69.12697430	-.00000188	00000-0	99999-4 0	2
18922		0.5128		326.2960	0103733	12.6314	20.2033	0.98967771	30
89220	88	14	A	88	97.21601472	-.00000178	00000-0	00000 0 0	39
8922		0.0499		286.2807	0002817	321.8047	111.9361	1.00273779	33
189230	88	14	B	88	69.07482189	.00156961	32044-4	71703-2 0	1
18923		31.1522		340.5785	7307071	180.1750	179.2239	2.28474996	1
89230	88	14	B	88	69.94727480	.00082614	32003-4	42893-2 0	3
8923		31.1391		340.2373	7304472	180.6761	177.1101	2.28645851	3

88-15A

Kosmos 1923

Nov: 22 mars

18931U	88 15	A 88	70.49136499	-.00001722	11891-4	00000 0 0	1
18931	72.3651	330.4216	0084889	94.1278	266.8035	16.09213380	1
18931U	88 15	A 88	70.55356186	.02621185	12091-4	17265-2 0	2
18931	72.3412	330.2609	0083828	93.0348	268.0102	16.09164469	2
18931U	88 15	A 88	70.55356186	.02621185	12091-4	17265-2 0	3
18931	72.8412	330.2609	0083828	93.0348	268.0102	16.09164469	2
18931U	88 15	A 88	70.74001888	-.11387261	12037-4	-66700-2 0	4
18931	72.8430	329.7770	0094836	98.7715	262.1299	16.08728760	5
18931U	88 15	A 83	70.92690125	.00096880	12108-4	64514-4 0	5
18931	72.3477	329.3002	0084159	92.9820	269.9015	16.09189341	8
18931U	88 15	A 88	71.11308589	.00191958	18912-4	22329-3 0	6
18931	72.3513	328.8208	0046640	74.9429	283.5127	16.06311232	11
18931U	88 15	A 88	72.04777378	.00085011	00000-0	96557-4 0	9
18931	72.8507	326.4327	0048501	73.5560	287.1507	16.06250025	26

18931U	88 15	A 88	73.85999178	.00178576	14462-4	29794-3 0	15
18931	72.8490	321.8352	0091199	83.1084	278.0280	15.95186470	55
18931U	88 15	A 88	74.86341811	.00235836	23681-4	39260-3 0	17
18931	72.8478	319.3115	0090821	80.4942	280.6158	15.95263544	71
18931U	88 15	A 88	76.87014135	.00037241	00000-0	61468-4 0	20
18931	72.8491	314.2608	0090344	75.4011	285.7781	15.95397919	103
18931U	88 15	A 88	77.87341246	.00032361	00000-0	53218-4 0	21
18931	72.8504	311.7369	0090349	73.0253	288.1155	15.95474278	119
18931U	88 15	A 88	78.87664302	.00023137	00000-0	38021-4 0	22
18931	72.8473	309.2115	0090342	70.6335	290.4758	15.95533884	135
18931U	88 15	A 88	79.81714532	.00179298	14672-4	29430-3 0	23
18931	72.8546	306.8464	0089852	68.0758	293.0735	15.95638929	150
18931U	88 15	A 88	79.81713239	.00032624	00000-0	53515-4 0	24
18931	72.8459	306.8432	0089749	67.9560	293.1162	15.95600555	150
18931U	88 15	A 88	79.94252928	.00061131	00000-0	53515-4 0	25
18931	72.8467	306.5237	0032394	99.9090	267.8359	16.11723361	152
18931U	88 15	A 88	80.25163004	.00007608	00000-0	68580-5 0	26
18931	72.8462	305.7249	0031985	100.2171	260.1174	16.11607864	157
18931U	88 15	A 88	80.87241743	.00029030	00000-0	25571-4 0	27
18931	72.8455	304.1232	0031647	98.9643	261.6733	16.11734820	167

88-15A

Kosmos 1923

forts.1

9310	88	15	A	88	81.86551573	.00074925	00000-0	65117-4	0	28
931	72.8477	301.5659	0031517	95.8431	264.8090	16.11885666				183
9310	88	15	A	88	82.11374621	.00308081	28089-5	26499-3	0	29
931	72.8513	300.9260	0030822	95.5684	265.0224	16.12091419				187

88-16 A-7

Kosmas 1924-1931

18937U	88	16	A	88	71.15660939	-.00000006	00000-0	00000	0	0	1
18937	74.0343	131.3643	0054648	127.5131	242.3625	12.52536049					1
8938U	88	16	J	88	71.31510910	-.00000006	00000-0	00000	0	0	2
8938	74.0039	131.1950	0022053	287.8242	74.1439	12.46595630					3
18939U	88	16	C	88	71.39538475	-.00000006	00000-0	00000	0	0	2
18939	74.0038	131.0903	0011456	280.0185	79.9719	12.48574526					4
18940U	88	16	J	88	71.39483507	-.00000006	00000-0	00000	0	0	2
18940	74.0043	131.0599	0007919	348.1235	11.9654	12.50654955					4
18941U	88	16	E	88	73.71019698	-.00000006	00000-0	00000	0	0	5
18941	74.0066	177.9975	0010295	57.5801	302.5276	12.52652351					33
18943U	88	16	G	88	72.42844433	-.00000006	00000-0	00000	0	0	4
18943	74.0053	179.6740	0029142	86.3351	274.1034	12.56387603					18
18945U	88	16	J	88	73.69046868	-.00000006	00000-0	00000	0	0	8
18945	74.0111	178.1917	0141756	269.1947	89.3305	12.23903765					33

88-17A

Malniya 1-71

Upp = 11 mars

18946U	88	17	A	88	71.33529242	.00000198	00000-0	99999-4	0	1
18946	62.9597	301.6348	7383534	280.1906	11.1489	2.05931243				1
18946U	88	17	A	88	113.05105805	.00000105	00000-0	99999-4	0	49
18946	62.9951	294.9781	7409194	280.4620	10.7636	2.00606331				85

88-18 A, B

Spacenet 3R, Telecom 1C

Lopp: 4 mars från Kourou m. Ar. 3

951U	88	18	A	88	75.77978059	-.00000198	00000-0	99999-4 0	1	
951					0.0262	233.1593	0025708	248.2241 238.8354	1.00741521	0
951U	88	18	A	88	105.67753847	-.00000166	00000-0	00000 0 0	23	
951					0.0389	72.3029	0002254	271.2550 16.3915	1.00270520	30
952U	88	18	B	88	75.56555871	.00000067	00000-0	99999-4 0	3	
952					0.0560	281.3737	0080695	188.8527 250.8372	1.01446695	4
951U	88	18	A	88	131.60666027	-.00000166	00000-0	00000 0 0	33	
951					0.0389	126.5362	0000214	3.0411 228.4131	1.00270478	56
953U	88	18	C	88	97.05550889	.00008388	00000-0	31118-2 0	8	
953					7.0472	324.0060	7302361	199.1514 108.6548	2.24803079	58

88-19A

Kormos 1932

Upp: 14mars

18957U	88 19	A	88	74.65331967	-.00000379	00000-0	00000 0 0	2
18957	64.9914			62.3815	0014826	253.5839	106.2878 16.06196123	1
18957U	88 19	A	88	74.84012580	.00586549	17886-3	77111-3 0	3
18957	64.9909			61.6977	0014615	255.4423	104.5699 16.06379068	4
18957U	88 19	A	88	74.90237139	.00643225	21830-3	84165-3 0	4
18957	64.9910			61.4695	0014678	255.2544	104.7031 16.06463188	5
18957U	88 19	A	88	75.27583576	.00108917	10137-4	14297-3 0	5
18957	64.9896			60.0972	0014459	253.0276	106.6657 16.06557503	11
8957U	88 19	A	88	79.88301606	.00692975	25767-3	92900-3 0	11
8957	64.9887			43.2028	0009095	270.3658	89.4995 16.06240986	85
18957U	88 19	A	88	80.87920805	.00038901	00000-0	51490-4 0	13
18957	64.9911			39.5497	0009128	273.6696	86.3225 16.06322829	101
18957U	88 19	A	88	81.87533217	.00039120	00000-0	51490-4 0	14
18957	64.9920			35.8974	0009267	272.6658	87.3766 16.06409702	11

8957U	88 19	A	88 82.93364590	.00043647	00000-0	57009-4 0	15
8957	64.9919		32.0151 0009213	272.8157	87.2273	16.06505994	134
8957U	88 19	A	88 82.93364590	.00043647	00000-0	57009-4 0	16
8957	64.9919		32.0151 0009213	272.8157	87.2273	16.06505994	134
8957U	88 19	A	88 82.99589232	.00277184	40118-4	37042-3 0	17
8957	64.9938		31.7882 0010414	271.5462	88.0967	16.06232403	135
8957U	88 19	A	88 83.80534616	.00278238	40368-4	37042-3 0	18
8957	64.9891		28.8183 0010310	269.0648	90.9087	16.06294953	148
8957U	88 19	A	88 83.92986810	.00121623	11210-4	16316-3 0	19
8957	64.9914		28.3634 0010302	269.0069	90.9615	16.06292039	150
18957U	88 19	A	88 84.98821082	.00017038	00000-0	22818-4 0	20
18957	64.9932		24.4786 0009708	265.0215	94.7446	16.06390241	167
18957U	88 19	A	88 85.92208950	.00268649	37928-4	35650-3 0	21
18957	64.9921		21.0547 0009841	265.4361	94.6115	16.06360191	182
18957U	88 19	A	88 86.54459229	.00093386	84247-5	12476-3 0	22
18957	64.9902		18.7727 0010107	267.2250	92.4805	16.06428725	192
18957U	88 19	A	88 86.91816480	.00092637	84294-5	12476-3 0	23
18957	64.9908		17.4008 0009841	263.2562	96.6014	16.06311058	198
18957U	88 19	A	88 90.90276592	.00046733	00000-0	61228-4 0	27
18957	64.9931		2.7907 0009653	265.4021	94.6891	16.06428209	262
8957U	88 19	A	88 91.96105312	.00010606	00000-0	14613-4 0	28
8957	64.9951		358.9089 0010756	270.2112	89.3579	16.06134223	279

88-19A

Kosmos 1932

forts. 1

18957U	88 19	A 88	92.21022593	.00002313	00000-0	35616-5	0	29
18957	64.9930	357.9963	0011257	271.8237	88.4246	16.06201630		283
18957U	88 19	A 88	93.01960855	.00170887	17904-4	22743-3	0	30
18957	64.9952	355.0291	0011668	271.4571	88.6334	16.06324776		296
18957U	88 19	A 88	93.95338029	.00071857	00000-0	93358-4	0	31
18957	64.9912	351.6035	0011563	271.1368	88.3399	16.06398552		311
18957U	88 19	A 88	94.88727097	.00054575	00000-0	71779-4	0	33
18957	64.9965	348.1819	0009703	264.8590	94.8589	16.06323419		326
18957U	88 19	A 88	95.88343178	.00068633	00000-0	88965-4	0	34
18957	64.9924	344.5241	0010843	270.7449	89.3285	16.06466570		342
18957U	88 19	A 88	96.69268523	-.00351277	00000-0	-50421-3	0	35
18957	64.9890	341.5563	0009138	267.0210	92.6295	16.06060864		355
18957U	88 19	A 88	96.81728986	-.00071904	00000-0	-97233-4	0	36
18957	64.9909	341.1001	0009165	267.7225	92.3274	16.06090275		357
8957U	88 19	A 88	97.56452520	.00081481	74529-5	11056-3	0	37
8957	64.9902	338.3615	0009469	265.6839	94.7434	16.06234731		369
8957U	88 19	A 88	97.87576009	.00051438	00000-0	68040-4	0	38
8957	64.9917	337.2181	0009418	264.5360	95.4480	16.06254274		374

18957U	88	19	A	88	99.80574442	.00038126	00000-0	50066-4	0	40
18957	64.9905	330.1396	0009556	265.3258	94.6855	16.06448988				405
18957U	88	19	A	88100.73953536	.00047323	00000-0	62741-4	0	0	41
18957	64.9886	326.7127	0011093	266.2869	93.4915	16.06202638				420
18957U	88	19	A	88100.80183557	.00810424	36464-3	10822-2	0	0	42
18957	64.9924	326.4850	0011549	269.5394	90.4491	16.06282538				421
18957U	88	19	A	88100.98959391	.00386285	75633-4	51361-3	0	0	43
18957	64.9925	325.8028	0011047	267.9629	91.9083	16.06283455				424
18957U	88	19	A	88101.17539284	.00233192	29457-4	31006-3	0	0	44
18957	64.9935	325.1119	0011166	268.7370	91.1475	16.06309836				427
18957U	88	19	A	88101.54893914	.00713284	27405-3	95086-3	0	0	45
18957	64.9921	323.7477	0011195	268.1426	91.6907	16.06287103				433
18957U	88	19	A	88101.79797981	.00157509	15749-4	20968-3	0	0	46
18957	64.9907	322.8303	0011012	267.5149	92.3372	16.06347341				437
18957U	88	19	A	88102.35829542	.00128171	11994-4	17031-3	0	0	47
18957	64.9888	320.7781	0011179	270.7399	89.1106	16.06412666				446
18957U	88	19	A	88	94.88727097	.00054575	00000-0	71779-4	0	53
18957	64.9965	348.1819	0009703	264.8590	94.8589	16.06323419				326
18957U	88	19	A	88105.84478827	.00046059	00000-0	60364-4	0	0	56
18957	64.9879	307.9928	0009872	272.2488	87.8520	16.06424081				502
18957U	88	19	A	88106.84090726	.00045537	00000-0	60364-4	0	0	57
18957	64.9952	304.3393	0009342	256.0445	104.0166	16.06253256				518

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18957U	88 19	A	88106.84090726	.00045537	00000-0	60364-4 0	58
18957	64.9952	304.3393	0009342	256.0445	104.0166	16.06253256	518
18957U	88 19	A	88107.83705887	.00056276	00000-0	73865-4 0	59
18957	64.9895	300.6845	0010169	268.5978	91.3367	16.06337016	534
18957U	88 19	A	88108.83317141	.00050284	00000-0	65700-4 0	60
18957	64.9878	297.0308	0010293	267.3412	92.6601	16.06439887	550
18957U	88 19	A	88109.58020756	.00049629	00000-0	65700-4 0	61
18957	64.9869	294.2855	0009346	257.4501	102.2758	16.06250542	562
18957U	88 19	A	88109.82930257	.00057475	00000-0	75901-4 0	62
18957	64.9887	293.3730	0009344	257.3435	102.6301	16.06249374	566
18957U	88 19	A	88110.82546402	.00055604	00000-0	72996-4 0	63
18957	64.9884	289.7225	0009626	263.0987	96.8591	16.06348126	582
18957U	88 19	A	88114.49866416	-.00042067	00000-0	-55190-4 0	69
18957	64.9857	276.2501	0010753	274.3654	85.4426	16.06387962	641
18957U	88 19	A	88114.87223902	.00111732	10245-4	14793-3 0	70
18957	64.9913	274.8808	0010757	274.1944	85.9311	16.06514216	647
18957U	88 19	A	88115.68158854	.00199807	22713-4	26784-3 0	71
18957	64.9926	271.9167	0009567	264.5001	95.5661	16.06234261	660

8957U	88 19	A	88115.86836153	.00101317	91708-5	13680-3	0	72
8957	64.9892	271.2275	0010006	267.6928	92.2701	16.06240374		663
8957U	88 19	A	88116.86450009	.00102245	92501-5	13680-3	0	73
8957	64.9850	267.5687	0010972	269.5832	90.1392	16.06360710		679
8957U	88019	A	88117.00000000	.00020658	00000-0	00000-0	0	0076
8957	064.9798	267.0817	0004799	276.5866	146.6285	16.0633027400682		
18957U	88019	A	88118.00000000	.00046664	00000-0	00000-0	0	0077
18957	064.9879	263.4092	0004514	267.4782	178.1678	16.0641326700698		
18957U	88019	A	88119.60386592	.00046664	00000-0	00000-0	0	0078
18957	064.9881	257.5259	0003806	248.4118	111.6548	16.0618707300724		
18957U	88019	A	88119.72839384	.00046664	00000-0	00000-0	0	0079
18957	064.9875	257.0690	0003750	240.5763	119.4934	16.0619722200726		
8957U	88 19	A	88122.84127173	.00043750	00000-0	57147-4	0	83
8957	64.9883	245.6525	0009938	265.7737	94.2036	16.06488328		775
18957U	88 19	A	88123.40154132	.00130805	12160-4	17713-3	0	85
18957	64.9869	243.5944	0010294	273.6136	86.0448	16.06123654		784
8957U	88 19	A	88124.77138147	.00078288	73431-5	10574-3	0	87
8957	64.9907	238.5728	0010419	275.8830	84.1117	16.06308176		806
8957U	88 19	A	88125.76748616	.00067019	00000-0	87278-4	0	88
8957	64.9892	234.9202	0010406	275.8640	83.9752	16.06408593		822
18957U	88 19	A	88126.82581426	.00075203	72014-5	10030-3	0	89
18957	64.9899	231.0397	0010319	276.1929	83.7137	16.06528107		839

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18957U	88	19	A	88127.26157880	- .00564209	00000-0	-83863-3	0	90
18957	64.9867	229.4411	0010177	272.1468	87.6064	16.06142732			846
18957U	88	19	A	88127.46584755	.00285221	42190-4	38022-3	0	91
18957	64.9869	228.6894	0010187	270.2213	190.5938	16.06274256			1
18957U	88	19	A	88127.75970107	.00122985	11318-4	16470-3	0	92
18957	64.9880	227.6130	0010238	270.5059	89.4091	16.06316506			6
18957U	88	19	A	88127.75970107	.00122985	11318-4	16470-3	0	93
18957	64.9880	227.6130	0010238	270.5059	89.4091	16.06316506			6
18957U	88	19	A	88128.69353677	.00097326	89133-5	12990-3	0	94
18957	64.9889	224.1887	0010386	270.8469	88.8743	16.06429297			21
18957U	88	19	A	88129.31610977	- .00018376	00000-0	-24049-4	0	95
18957	64.9862	221.9037	0010029	270.2431	89.4216	16.06187030			869
18957U	88	19	A	88130.25010000	- .00118708	00000-0	-15998-3	0	97
18957	64.9892	218.4805	0010347	268.2667	91.8965	16.06293380			884
18957U	88	19	A	88130.25010000	- .00118708	00000-0	-15998-3	0	98
18957	64.9892	218.4805	0010347	268.2667	91.8965	16.06293380			894
18957U	88	19	A	88130.87270247	.00011535	00000-0	15618-4	0	99
18957	64.9870	216.1930	0010342	268.4178	91.9144	16.06379524			904

189570	88	19	A	88131.86874679	.00031532	00000-0	41390-4	0	100
18957	64.9889	212.5419	0010249	269.8624	90.3396	16.06495480			920
189570	88	19	A	88132.30447447	.00030791	00000-0	41390-4	0	101
18957	64.9891	210.9452	0010176	262.0920	97.5140	16.06119946			927
189570	88	19	A	88132.86493896	.00059598	00000-0	78767-4	0	102
18957	64.9876	208.8892	0009843	259.9807	100.1250	16.06216549			936
189570	88	19	A	88135.79106925	.00044340	00000-0	58000-4	0	105
18957	64.9891	198.1589	0009807	262.6480	97.3405	16.06466305			983
189570	88	19	A	88136.47584752	.00150217	14749-4	20046-3	0	106
18957	64.9888	195.6476	0010149	268.5566	91.0885	16.06337117			994
189570	88	19	A	88136.84944669	.00128564	11974-4	17178-3	0	107
18957	64.9865	194.2754	0010158	271.5588	88.3352	16.06345772			1000
189570	88	19	A	88137.53426646	.00076928	72026-5	10335-3	0	108
18957	64.9884	191.7626	0010072	267.0529	92.7641	16.06404102			1018
189570	88	19	A	88137.84557311	.00044755	00000-0	58691-4	0	109
18957	64.9877	190.6219	0010050	269.9729	89.9932	16.06417082			1016
189570	88	19	A	88137.84557311	.00044755	00000-0	58691-4	0	110
18957	64.9877	190.6219	0010050	269.9729	89.9932	16.06417082			1016
189570	88	19	A	88138.90388949	.00047006	00000-0	61234-4	0	111
18957	64.9868	186.7399	0009898	269.6221	90.3823	16.06515477			1033

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18957U	88 19	A	88139.15289381	-.00082091	00000-0	-11117-3 0	112
18957	64.9850		185.8260	0009958	262.5216	97.1552 16.06090795	1037
18957U	88 19	A	88139.90012671	.00029717	00000-0	39789-4 0	114
18957	64.9872		183.0865	0009981	261.3669	98.6237 16.06197600	1049
18957U	88 19	A	88140.95857908	-.00073843	68137-1	69761-2 0	115
18957	64.9872		179.2078	0012397	263.0642	97.1175 16.07517141	1066
18957U	88 19	A	88140.89629944	.00083598	76927-5	11283-3 0	116
18957	64.9853		179.4350	0010034	264.4830	95.4171 16.06304441	1065
18957U	88 19	A	88141.26960976	.01558933	18439-2	19612-2 0	117
18957	64.9904		178.0624	0014877	259.3306	100.6659 16.07641505	1071
18957U	88 19	A	88141.32652471	.00000017	00000-0	49999-4 0	118
18957	65.0435		178.5312	0059852	252.3073	107.1448 13.79160262	6

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Kormas 1933

Upp: 15 mars

18958U	88	20	A	88	75.84207693	.00000011	00000-0	00000	0	0	1
18958	82.5696	122.9323	0028913	285.4563	74.3507	14.75663874					0
18958U	88	20	A	88	75.90988361	.00000011	00000-0	00000	0	0	3
18958	82.5476	122.8551	0018415	274.3646	85.1852	14.74022130					1
18958U	88	20	A	88	132.25072989	.00000583	00000-0	86517-4	0		59
18958	82.5401	70.9806	0021880	89.4732	270.8901	14.74111125					832

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Lpp: 17 mrrs

18960U	88	21	A	88	77.32915582	-.00000018	00000-0	00000	0	0	1
18960	99.0189	151.3231		0030640	24.4585	335.6321	14.00498831				0
18960U	88	21	A	88	77.32918966	-.00000018	00000-0	00000	0	0	2
18960	99.0179	151.3242		0030940	26.0934	334.1824	14.00267533				0
18960U	88	21	A	88	77.40064269	-.00000018	00000-0	00000	0	0	3
18960	99.0353	151.3846		0031263	24.6629	335.7404	14.00728484				1
18960U	88	21	A	88	77.47204561	-.00000018	00000-0	00000	0	0	4
18960	99.0239	151.4568		0031248	21.6848	338.6151	14.00949222				2
18960U	88	21	A	88	77.61487353	.00014931	00000-0	99313-2	0	0	5
18960	99.0225	151.5964		0031117	21.1394	339.1190	14.00978918				4
18960U	88	21	A	88	98.41804039	.00011849	00000-0	85391-2	0	0	42
18960	98.9918	172.0785		0010429	289.0740	70.7611	13.96748719				296
18960U	88	21	A	88	114.46993875	.00034489	00000-0	24952-1	0	0	71
18960	99.0515	187.8664		0011224	237.7519	122.1083	13.96203870				520
18960U	88	21	A	88	131.81217056	-.00005731	00000-0	-41618-2	0	0	92
18960	99.0502	204.9178		0012177	188.8225	171.3550	13.96197873				762

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Upp: 17mars

8980U	88	22	A	88	77.92391307	-.00000045	00000-0	99999-4	0	2	
8980					62.3469	77.5660	7396580	288.0414	9.3008	1.95876440	0
8980U	88	22	A	88	82.51358687	.00000381	00000-0	99999-4	0	5	
8980					62.3664	78.8729	7397431	288.0671	9.3122	1.95876154	9
8980U	88	22	A	88	128.39045257	.00000075	00000-0	00000	0	0	57
8980					62.9495	71.8894	7365991	288.2469	9.4801	2.00628013	101

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Kosmos 1934

Upp: 22mars

18985U	88 23	A	88	82.64741528	.00000006	00000-0	00000 0 0	1
18985	82.9753			60.2588 0032368	299.2154	60.5624	13.76211615	0
18985U	88 23	A	88	82.72016745	.00000006	00000-0	00000 0 0	2
18985	82.9543			60.1906 0038986	297.0283	62.7098	13.75371019	1
18985U	88 23	A	88	8131.02538455	.00000038	00000-0	32341-4 0	29
18985	82.9595			24.4617 0040054	158.5371	201.7509	13.75372979	664

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Progress 35

App: 23 mars

8992U	88	24	A	88	83.93228806	-.00008271	57195-4	00000	0	0	1
8992	51.6309	147.4208	0058500	93.3725	266.2581	16.18592797					1
8992U	88	24	A	88	84.11770061	.00566821	57411-4	21736-3	0		2
8992	51.6289	146.4012	0058863	95.0626	265.8319	16.18856565					4
8992U	88	24	A	88	84.17940698	.00619111	57467-4	21736-3	0		3
8992	51.6242	146.0549	0049982	97.8660	263.3656	16.21032124					5
8992U	88	24	A	88	84.30259573	.00868713	57677-4	29345-3	0		4
8992	51.6267	145.3779	0048782	99.7177	261.0956	16.21570947					7
8992U	88	24	A	88	84.91866016	.00661778	57811-4	21243-3	0		5
8992	51.6295	141.9900	0047441	101.9769	258.5612	16.22332772					17
18992U	88	24	A	88	85.16503531	.00153625	18771-4	21243-3	0		6
18992	51.6292	140.6561	0033580	236.3011	111.1491	16.04411650					21
18992U	88	24	A	88	85.97680107	.00408373	00000-0	20662-2	0		8
18992	51.7005	136.3407	0038101	270.0551	82.0448	15.78843952					34

18992U	88	24	A	88	86.73752498	.00402316	00000-0	20662-2	0	9
18992	51.5552	132.4082	0021566	261.7025	98.0337	15.79243600				46
18992U	88	24	A	88	89.83842298	.00065358	00000-0	35574-3	0	11
18992	51.6306	116.3176	0009365	283.7566	76.1288	15.79272166				95

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Kosmos 1935

Ned: 8 apr 7

0011U	88 25	A 88	84.64324362	-.00004072	28170-4	00000	0 0	1
0011	67.1685		21.3198 0123668	92.8121	269.2359	16.08760823		1
0011U	88025	A 88084	84.70532948	.00000000	00000-0	00000-0	0 0002	
0011	067.1659		021.1142 0125550	092.8428	268.7374	16.0883172600002		
19011U	88 25	A 88	85.01615385	-.00004058	28056-4	00000	0 0	2
19011	67.1616		20.0558 0121394	93.2427	268.4192	16.09102209		7
19011U	88 25	A 88	85.14044359	.00495634	27815-4	17233-3	0	3
19011	67.1640		19.6388 0120964	92.8103	268.7847	16.09357724		9
19011U	88 25	A 88	85.88602916	.00622146	28083-4	20617-3	0	5
19011	67.1623		17.1162 0118529	91.7971	269.9211	16.10290056		21
19011U	88 25	A 88	86.38278557	.00727273	27764-4	23164-3	0	6
19011	67.1627		15.4317 0116440	91.4314	270.2234	16.11075273		29
19011U	88 25	A 88	86.87929015	.00768150	28476-4	23212-3	0	7
19011	67.1629		13.7478 0115014	90.8737	270.6040	16.11856029		37

19011U	88 25	A 88	87.12745894	.01191634	27810-4	35245-3 0	8
19011	67.1680		12.9065 0112925	90.9090	270.6319	16.12452594	41
19011U	88 25	A 88	87.68545837	.00828423	28326-4	23219-3 0	9
19011	67.1617		11.0113 0110615	90.0943	270.9231	16.13426142	50
9011U	88 25	A 88	87.87147686	.00809259	28693-4	22190-3 0	10
9011	67.1627		10.3768 0110097	89.8405	271.5417	16.13733607	53
19011U	88 25	A 88	88.80072744	.00911944	28791-4	22851-3 0	11
19011	67.1619		7.2074 0105251	89.4623	272.4132	16.15507725	68
9011U	88 25	A 88	88.92444615	.00934413	28705-4	23175-3 0	12
9011	67.1634		6.7845 0104497	89.2319	272.0899	16.15747819	70
19011U	88 25	A 88	89.04823995	.00797987	27832-4	23175-3 0	13
19011	67.1743		6.3727 0127202	84.3572	274.4456	16.09776217	72
19011U	88 25	A 88	89.17297230	.00960920	28030-4	27397-3 0	14
19011	67.1646		5.9457 0126911	84.4172	277.1534	16.09996503	74
19011U	88 25	A 88	89.91811124	.00907796	28333-4	24289-3 0	15
19011	67.1627		3.4213 0123165	83.4697	277.8754	16.11338443	86
19011U	88 25	A 88	90.10433495	.00820752	28386-4	21434-3 0	16
19011	67.1660		2.7900 0122205	83.4347	278.1509	16.11756537	89
19011U	88 25	A 88	90.84869846	.00887010	28119-4	21434-3 0	17
19011	67.1638		0.2600 0118373	83.0827	278.7350	16.13221932	101

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9011U	88 25	A 88	92.02584546	.00981725	28335-4	21168-3	0	18
9011	67.1639	356.2499	0111748	81.7466	280.1460	16.15550483		120
9011U	88 25	A 88	92.21146488	.01016444	28366-4	21179-3	0	19
9011	67.1606	355.6146	0110350	81.6921	279.7469	16.15997810		123
9011U	88 25	A 88	92.76828553	.00888908	28106-4	16831-3	0	20
9011	67.1624	353.7161	0106924	80.9817	280.3820	16.17146416		132
9011U	88 25	A 88	93.20723486	.00160174	26577-4	16831-3	0	22
9011	67.1515	352.2807	0196212	63.1232	282.0075	15.82234434		139
9011U	88 25	A 88	92.83012551	.00684967	27008-4	16831-3	0	21
9011	67.1874	353.5845	0195149	80.9072	274.8897	15.95874855		133
9011U	88 25	A 88	93.90550784	.00276602	26355-4	28006-3	0	23
9011	67.1577	350.0084	0195955	62.3030	299.9392	15.82612750		150
9011U	88 25	A 88	94.09506819	.00718102	28314-4	28006-3	0	24
9011	67.1618	349.3867	0093901	30.3751	344.0121	16.13317832		153
9011U	88 25	A 88	97.74289307	.01033213	28652-4	25452-3	0	28
9011	67.1582	336.9036	0080223	25.0239	335.8482	16.20344571		212
011U	88025	A 88098	.54481744	.01136449	00000-0	00000-0	0	0029
011	067.1596	334.1423	0080796	026.4543	334.1001	16.2220311800225		

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San Marco 5

Upp: 25 mms fr. San Marco utanf. Kenya.

190130	88	26	A	88	85.90943991	.03619787	00000-0	17185-1	0	1	
19013					2.9948	249.1805	0261715	301.9919	57.7061	15.41992460	1
190130	88	26	A	88	85.97371967	.00080360	00000-0	46965-3	0	2	
19013					2.9929	248.5496	0260709	302.9111	54.7356	15.41828414	2
190130	88	26	A	88	127.04012467	.00068378	-13043-4	34179-3	0	60	
19013					2.9952	281.2732	0243123	236.6193	121.0383	15.46961630	638

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19015U	88 27	A	88	90.55637984	-	.00005079	34952-4	00000 0 0	1
19015	64.7726			43.4722	0064096	61.8582	298.9242	16.17681164	1
19015U	88 27	A	88	90.55637651		.00099975	35373-4	42212-4 0	2
19015	64.7574			43.4534	0065061	59.4240	301.3211	16.17663055	1
19015U	88 27	A	88	90.92730061		.00354545	35087-4	13896-3 0	3
19015	64.7538			42.0551	0064899	59.2766	301.7258	16.18117424	7
19015U	88 27	A	88	91.29800304		.00909419	35968-4	34108-3 0	5
19015	64.7571			40.6627	0063183	59.4982	301.2384	16.18766697	13
19015U	88 27	A	88	91.66860184		.00280868	42394-4	34108-3 0	6
19015	64.7550			39.2941	0045384	90.2897	258.1992	16.05632145	19
19015U	88 27	A	88	91.73298786		.00259384	36020-4	34108-3 0	7
19015	64.7556			39.0463	0051312	90.7830	269.5681	16.03830107	20
19015U	88 27	A	88	91.98245881		.00263039	36946-4	34108-3 0	8
19015	64.7572			38.1270	0052576	92.8046	267.8796	16.03912839	24

19015U	88	27	A	88	92.97991232	.00267713	38508-4	34108-3	0	9
19015	64.7575				34.4466 0050555	91.1806	269.3427	16.04393667		40
19015U	88	27	A	88	92.97991232	.00267713	38508-4	34108-3	0	10
19015	64.7575				34.4466 0050555	91.1806	269.3427	16.04393667		40
19015U	88	27	A	88	93.97710196	.00258634	36498-4	32007-3	0	11
19015	64.7568				30.7679 0049888	90.7700	269.8715	16.04908980		56
19015U	88	27	A	88	95.40996325	.00271878	40346-4	32217-3	0	13
19015	64.7559				25.4744 0048264	90.6652	270.1011	16.05728087		79
19015U	88	27	A	88	97.83770111	.00292276	47149-4	31668-3	0	16
19015	64.7560				16.4922 0046715	89.6712	270.7964	16.07219575		118
19015U	88	27	A	88	99.82814022	.00258603	39309-4	26267-3	0	18
19015	64.7553				9.1115 0045007	88.9491	271.5896	16.08355091		150
19015U	88	27	A	88	100.82286672	.00279383	80527-5	27292-3	0	19
19015	64.7553				5.4182 0044563	88.7018	272.1023	16.08949371		166
19015U	88	27	A	88	101.56861780	.00390648	81431-5	37018-3	0	20
19015	64.7567				2.6482 0043494	87.8112	272.9256	16.09456791		178
19015U	88	27	A	88	101.81712956	.00229124	82436-5	21677-3	0	21
19015	64.7579				1.7273 0043388	87.8537	272.7063	16.09553923		182
19015U	88	27	A	88	103.49414354	.00370672	85626-5	32604-3	0	25
19015	64.7536				355.4856 0041425	87.4161	273.3985	16.10725923		209
19015U	88	27	A	88	105.85226127	.00360401	91820-5	28608-3	0	28
19015	64.7547				346.6948 0038829	86.8498	273.8708	16.12413506		247

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190150	88	27	A	88105.85226127	.00360401	91820-5	28608-3	0	28
19015	64.7547	346.6948	0038829	86.8498	273.8708	16.12413506			247
190150	88	27	A	88106.84393537	.00000548	00000-0	00000	0 0	29
19015	64.7545	342.9883	0038317	83.1982	269.9179	16.13174542			2
190150	88	27	A	88106.90634942	.00442575	97616-5	33167-3	0	30
19015	64.7539	342.7549	0037895	87.2996	273.2678	16.13276154			3
190150	88	27	A	88107.83595573	.00410994	99875-5	29347-3	0	33
19015	64.7530	339.2800	0037098	86.8864	273.4554	16.14014265			280
190150	88	27	A	88107.83599013	.00561051	10050-4	39873-3	0	34
19015	64.7520	339.2761	0037232	87.3966	273.1520	16.14043083			280
190150	88	27	A	88107.95990461	.00411473	84608-5	39873-3	0	35
19015	64.7563	338.8157	0051290	117.5742	242.0918	16.08329104			282
190150	88	27	A	88108.02229572	.00357506	67617-4	39873-3	0	36
19015	64.7317	338.6273	0036339	94.4210	266.0947	16.07700019			283
190150	88	27	A	88108.02229857	.00357743	67587-4	39873-3	0	37
19015	64.7352	338.6254	0035421	94.2145	266.3150	16.07781391			283
190150	88	27	A	88108.14669714	.00301732	46772-4	39873-3	0	38
19015	64.7518	338.1296	0052407	97.2064	261.6951	16.03626063			285

19015U	88 27	A	88108.83291248	.00226702	29088-4	29524-3	0	39
19015	64.7514	335.5994	0051777	97.0863	263.5132	16.03948642		296
19015U	88 27	A	88110.82755673	.00229486	30202-4	28363-3	0	41
19015	64.7520	328.2378	0050391	96.2731	264.4563	16.04892666		328
19015U	88 27	A	88111.82442413	.00241808	33058-4	29080-3	0	43
19015	64.7516	324.5556	0049560	95.8410	264.9240	16.05386831		344
19015U	88 27	A	88114.50181158	.00363020	69157-4	39551-3	0	46
19015	64.7500	314.6493	0047508	94.8548	265.9430	16.07039564		387
19015U	88 27	A	88115.80830816	.00259357	38816-4	27245-3	0	48
19015	64.7495	309.8080	0046418	94.5846	265.7925	16.07718249		408
19015U	88 27	A	88116.80345831	.00256684	38525-4	26215-3	0	49
19015	64.7518	306.1161	0045452	94.6359	265.9836	16.08229649		424
19015U	88027	A	88119.00000000	.00266944	00000-0	00000-0	0	0053
19015	064.7493	297.9601	0050408	092.8884	028.7915	16.0941922400459		
19015U	88027	A	88119.84891492	.00324536	00000-0	00000-0	0	0054
19015	064.7541	294.7998	0048408	092.4159	268.2447	16.0994729200473		
19015U	88027	A	88120.00000000	.00284745	00000-0	00000-0	0	0055
19015	064.7528	294.2384	0049489	092.1349	064.1349	16.1000463600475		
19015U	88 27	A	88120.71841693	.00411076	83880-5	36782-3	0	56
19015	64.7493	291.5655	0040946	91.8658	268.7549	16.10517262		487
19015U	88 27	A	88121.27721044	.00112431	85171-5	10063-3	0	58
19015	64.7452	289.4892	0040530	90.6169	269.8463	16.10777323		496

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9015U	88 27 A	88121.89806418	.00302936	86423-5	26089-3 0	59
9015	64.7486	267.1712 0039940	90.7056	270.1897	16.11184418	506
9015U	88 27 A	88124.81364143	.00376316	95242-5	28693-3 0	62
9015	64.7478	276.2901 0036794	88.1377	272.5381	16.13150003	553
9015U	88 27 A	88125.74333520	.00272964	78282-5	28693-3 0	63
9015	64.6973	272.8376 0050439	79.4482	279.1179	16.07281256	568
9015U	88 27 A	88125.74333520	.00272964	78282-5	28693-3 0	64
9015	64.6973	272.8376 0050439	79.4482	279.1179	16.07281256	568
9015U	88 27 A	88125.86814047	.00215198	26589-4	28693-3 0	65
9015	64.7478	272.3578 0051243	96.6028	262.8412	16.03645864	570
9015U	88 27 A	88126.86601584	.00250872	34412-4	32624-3 0	66
9015	64.7491	268.6787 0050294	96.6546	264.0484	16.04112087	586
9015U	88 27 A	88127.80103400	.00432805	93035-4	54432-3 0	67
9015	64.7476	265.2268 0048719	95.4421	265.3413	16.04743907	601
9015U	88 27 A	88127.80103400	.00432805	93035-4	54432-3 0	68
9015	64.7476	265.2268 0048719	95.4421	265.3413	16.04743907	601
9015U	88 27 A	88128.54869358	.00270191	39383-4	33353-3 0	69
9015	64.7483	262.4661 0048214	95.8379	264.4099	16.05111195	613

19015U	88	27	A	88128.54869358	.00270191	39383-4	33353-3	0	70
19015	64.7483	262.4661	0048214	95.8379	264.4099	16.05111195			613
19015U	88	27	A	88128.79797626	.00268502	39169-4	32895-3	0	71
19015	64.7480	261.5445	0047961	95.6625	265.0112	16.05253484			617
19015U	88	27	A	88129.48319099	.00350563	63038-4	42368-3	0	72
19015	64.7488	259.0119	0046880	94.4756	266.0281	16.05543745			628
19015U	88	27	A	88130.79102165	.00254082	36079-4	29658-3	0	74
19015	64.7463	254.1764	0046020	94.1451	266.5346	16.06182732			649
19015U	88	27	A	88131.72482894	.00290808	45941-4	33018-3	0	75
19015	64.7470	250.7191	0045192	93.6857	266.9044	16.06668208			664
19015U	88	27	A	88132.84501048	.00274142	41874-4	30235-3	0	76
19015	64.7464	246.5700	0043752	93.1115	267.2774	16.07245206			682
19015U	88	27	A	88133.52941585	.00510551	13500-3	55116-3	0	77
19015	64.7494	244.0322	0042852	91.7846	268.7117	16.07616175			693
19015U	88	27	A	88135.70599951	.00254692	38070-4	25856-3	0	80
19015	64.7475	235.9584	0041440	90.6050	269.9021	16.08697744			728
19015U	88	27	A	88137.88109604	.00254515	78410-5	24235-3	0	82
19015	64.7467	227.8729	0039682	88.2863	272.2027	16.09785764			763
19015U	88	27	A	88138.93704504	.00319501	82182-5	29136-3	0	83
19015	64.7464	223.9422	0038320	87.7211	273.1584	16.10505829			780

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017U	88	28	A	88	90.95033999	-.00000022	00000-0	99999-4	0	1	
017					1.8829	264.3390	0019876	310.9827	48.4564	0.97875045	18
0017U	88	28	A	88	92.99239396	-.00000008	00000-0	99999-4	0	2	
0017					1.4507	262.5169	0015495	238.9891	120.0760	0.97555402	1
0017U	88	28	A	88	94.00932672	-.00000010	00000-0	99999-4	0	4	
0017					1.4475	262.6552	0015011	239.5031	116.5203	0.97551860	2
0017U	88	28	A	88	114.17730169	-.00000075	00000-0	99999-4	0	29	
0017					1.3917	261.7750	0001685	154.2202	205.3942	1.00293506	22
0017U	88	28	A	88	127.17005483	-.00000079	00000-0	99999-4	0	38	
0017					1.1401	271.5454	0004850	34.0945	326.1971	1.00269559	35
0018U	88	28	B	88	91.54018993	.02660450	58751-4	45636-3	0	2	
0018					51.6170	260.7272	0004412	192.2078	174.6764	16.32225327	6
0019U	88	28	C	88	91.47818686	.18359217	58913-4	27484-2	0	1	
0019					51.5967	261.0992	0012855	131.3864	228.8621	16.33260799	2

9036U	88	28	E	88	92.58348931	.00000064	00000-0	99999-4	0	1
9036	47.4656	262.1724		7295566		0.2365	359.8419	2.22016363		5
9037U	88	28	F	88	93.48086083	.00000178	00000-0	99999-4	0	1
9037	47.4109	261.9473		7314934		0.4606	359.7797	2.22389860		8

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038U	88	29	A	88	96.81046697	-.00000012	00000-0	00000	0	0	2
038	74.0406	62.2410	0026347	332.6669	27.2955	14.31244164					3
9038U	88	29	A	88113.03049353	.00000092	00000-0	39229-4	0			27
9038	74.0502	32.7416	0026278	302.1535	57.7069	14.30903909					235

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19041U	88 30	A	88102.58465045	-.00001719	11838-4	00000 0 0	2
19041	72.8645		13.2977 0070309	88.5532	272.3842	16.11383988	1
19041U	88 30	A	88102.83297182	.00566260	11921-4	36770-3 0	5
19041	72.8641		12.6574 0070107	87.4942	273.3698	16.11479264	6
19041U	88 30	A	88103.14335355	.00324193	50545-4	36770-3 0	6
19041	72.8683		11.8567 0049640	76.4476	284.1041	16.06371856	11
19041U	88 30	A	88103.39247609	.00322444	49879-4	36770-3 0	8
19041	72.8673		11.2196 0050056	75.9295	284.5179	16.06247118	15
19041U	88 30	A	88103.39247609	.00322444	49879-4	36770-3 0	9
19041	72.8673		11.2196 0050056	75.9295	284.5179	16.06247118	15
19041U	88 30	A	88105.88360492	.00071827	00000-0	79694-4 0	14
19041	72.8673		4.8595 0049032	70.0155	290.5998	16.06585300	55
19041U	88 30	A	88106.07042007	.00048429	00000-0	79694-4 0	15
19041	72.8659		4.3897 0101575	74.1351	278.4661	15.93701337	58

19041U	88 30	A	88106.88795835	.00037622	00000-0	61743-4 0	16
19041	72.8674		2.3429 0101789	72.3977	288.7512	15.93745003	71
19041U	88 30	A	88107.82952432	.00037222	00000-0	60889-4 0	17
19041	72.8672		359.9796 0101499	69.9849	291.3188	15.93841929	86
19041U	88 30	A	88109.83787621	.00053520	00000-0	86155-4 0	19
19041	72.8663		354.9409 0101224	64.9437	296.0218	15.94076441	118
19041U	88 30	A	88108.83376781	.00106964	66967-5	17452-3 0	18
19041	72.8637		357.4603 0101657	67.4984	293.8235	15.93973725	102
19041U	88 30	A	88110.84201250	.00035397	00000-0	57229-4 0	20
19041	72.8661		352.4197 0100619	62.4037	298.7384	15.94163858	134
19041U	88 30	A	88111.84606911	.00042512	00000-0	68455-4 0	21
19041	72.8645		349.8996 0100164	60.0693	301.1685	15.94272043	150
19041U	88030	A	88112.59773925	.00064662	00000-0	00000-0 0	0022
19041	072.8621		347.9992 0036073	077.0119	283.5671	16.1084899400039	
19041U	88 30	A	88112.66178846	.00119114	11640-4	68455-4 0	22
19041	72.8134		347.8092 0084441	103.5403	268.9433	16.10876715	163
9041U	88 30	A	88113.34295136	.00102801	00000-0	92205-4 0	26
9041	72.8659		346.0877 0036486	76.8530	283.6788	16.11030340	174
19041U	88 30	A	88112.97035528	.00227646	28009-5	20526-3 0	25
19041	72.8644		347.0467 0036428	80.5665	280.0110	16.10987868	168

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9041U	88	30	A	88114.21229435	-.00175909	00000-0	-15567-3	0	28
9041	72.8656	343.8540	0035871	76.8844	283.8385	16.11236666	188		
9041U	88	30	A	88114.52272371	.00111085	00000-0	97635-4	0	29
9041	72.8680	343.0530	0035981	74.2618	286.3978	16.11362477	193		
9041U	88	30	A	88114.83312165	.00124559	28318-5	10953-3	0	30
9041	72.8661	342.2550	0036057	75.3733	285.1254	16.11422258	198		
9041U	88	30	A	88116.01261759	.00306689	30065-5	26344-3	0	32
9041	72.8653	339.2252	0036049	71.8398	288.6578	16.11702727	217		

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19043U	88 31	A	88105.82171332	-.00000564	00000-0	00000 0 0	1
19043	62.8180		47.7232 0117923	112.4623	248.9047	15.92425827	0
19043U	88031	A	88105.82172345	.00046700	00000-0	00000-0 0 0001	
19043	062.8305		047.7479 0116818	112.7384	248.7054	15.9208253100002	
19043U	88031	A	88105.88453377	.00046700	00000-0	00000-0 0 0002	
19043	062.8171		047.4739 0116033	112.3635	249.0760	15.9203508500003	
19043U	88 31	A	88105.94733134	.09740024	93123-5	14355-1 0	2
19043	62.8194		47.2316 0118607	112.7752	248.5917	15.92324338	2
19043U	88 31	A	88106.19854748	.00159619	93457-5	24122-3 0	5
19043	62.8213		46.2583 0118760	112.0851	249.2318	15.92177097	8
19043U	88 31	A	88106.88935718	.00704284	92963-5	10463-2 0	8
19043	62.8154		43.5714 0118196	112.1017	249.1233	15.92331127	19
19043U	88 31	A	88106.95218009	.02279913	93338-5	33308-2 0	9
19043	62.8160		43.3275 0117441	112.1276	249.2744	15.92664422	20

9043U	88	31	A	88107.07772024	-.00151900	00000-0	-21995-3	0	10
9043	62.8165	42.8416	0119609	112.2425	248.8273	15.92348517			22
9043U	88	31	A	88107.76860431	.00146970	93417-5	21958-3	0	11
9043	62.8183	40.1627	0117435	112.1130	249.8823	15.92591207			33
9043U	88	31	A	88107.83128290	.00123418	91973-5	18472-3	0	12
9043	62.8184	39.9180	0117556	112.2087	249.1465	15.92590924			34
9043U	88	31	A	88108.83582476	.00116675	93680-5	17312-3	0	13
9043	62.8198	36.0151	0116830	112.3514	249.0728	15.92860851			50
9043U	88	31	A	88109.40079219	.00126115	94521-5	18579-3	0	14
9043	62.8199	33.8175	0116356	112.4109	248.9833	15.93023206			59
9043U	88	31	A	88109.84017115	.00129669	95149-5	19012-3	0	15
9043	62.8197	32.1110	0116042	112.3905	248.9549	15.93138006			66
9043U	88	31	A	88110.84436273	.00118908	94348-5	17362-3	0	16
9043	62.8199	28.2048	0114969	112.5512	248.8293	15.93407224			82
9043U	88	31	A	88111.84838326	.00119536	94930-5	17254-3	0	17
9043	62.8192	24.2993	0114334	112.7420	248.6698	15.93678137			98
9043U	88	31	A	88113.35406902	.00100550	95002-5	14398-3	0	19
9043	62.8185	18.4384	0112915	112.3915	248.9569	15.94095096			122
9043U	88	31	A	88114.23220008	.00160849	97963-5	22508-3	0	21
9043	62.8204	15.0181	0112293	112.8715	248.4850	15.94390649			136

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043U	88	31	A	88114.23220008	.00160849	97963-5	22508-3	0	22
043	62.8204	15.0181	0112293	112.8715	248.4850	15.94390649			136
043U	88	31	A	88114.85932917	.00121007	97790-5	16979-3	0	23
043	62.8197	12.5750	0111566	112.8485	248.4093	15.94554204			146
043U	88	31	A	88116.48963919	.00188722	97879-5	25765-3	0	25
043	62.8184	6.2198	0110600	113.0452	248.3816	15.94992631			172
043U	88	31	A	88116.86576249	.00133926	97274-5	18296-3	0	26
043	62.8175	4.7543	0110684	113.2294	247.9503	15.95052190			178
043U	88031	A	88117.00000000	.00138328	00000-0	00000-0	0	0	0029
043	062.8303	004.2495	0113121	113.6046	298.4095	15.9512592400180			
043U	88031	A	88118.49559211	.00118232	00000-0	00000-0	0	0	0030
043	062.8233	358.4072	0107931	114.6921	246.6413	15.9542692100204			
043U	88031	A	88118.00000000	.00134176	00000-0	00000-0	0	0	0031
043	062.8230	000.3411	0111899	114.8814	280.0380	15.9536507400196			

88-32A

Kosmos 1939

Up: 20 apr?

19045U	88	32	A	88111.28824424	-.00000025	00000-0	00000	0	0	1
19045	97.9801	172.1107	0048202	56.2161	304.3940	14.69865157				0
19045U	88	32	A	88111.28824424	-.00000025	00000-0	00000	0	0	2
19045	97.9801	172.1107	0048202	56.2161	304.3940	14.69865157				1
19045U	88	32	A	88111.35631246	-.00000026	00000-0	00000	0	0	3
19045	97.9687	172.1714	0030620	19.4889	342.4340	14.77047823				2
19045U	88	32	A	88111.83020085	.00461538	00000-0	60741-1	0	0	4
19045	97.9674	172.6379	0030579	18.0647	342.1411	14.77046500				9
19045U	88	32	A	88141.02738658	.00000202	00000-0	32216-4	0	0	41
19045	97.9644	201.4742	0028606	281.2439	78.5594	14.77082109				440

88-33A,B

Transit 23, 24

9070U	88	33	A	88117.12954777	.00000003	00000-0	00000	0	0	2
9070	90.3671	303.9113	0194099	193.4684	166.1906	13.25222742				0
9070U	88	33	A	88125.05420415	.00024347	00000-0	50126-1	0		19
9070	90.3545	304.1849	0191331	172.0104	188.4155	13.25798497				105
9071U	88	33	B	88117.12954777	.00000003	00000-0	00000	0	0	1
9071	90.3251	303.9366	0194728	189.9754	169.8536	13.23798988				0

88-34A

Kosmos 1940

9073U	88	34	A	88121.20576668	-.00000188	00000-0	99999-4	0	5
9073				1.2728 273.3441 0006151	50.3591 309.4513	0.99882815			3
9073U	88	34	A	88124.21732748	-.00000173	00000-0	99999-4	0	8
9073				1.2922 272.8432 0011114	242.9202 121.0099	1.00119138			6
9073U	88	34	A	88126.20018151	-.00000151	00000-0	99999-4	0	9
9073				1.2705 271.7840 0003078	209.1110 150.7379	1.00263131			0
9073U	88	34	A	88146.14550273	-.00000152	00000-0	99999-4	0	25
9073				1.2018 272.4108 0001312	152.8345 205.9073	1.00275460			29
0082U	88	34	E	88122.86641947	.00000980	00000-0	11822-2	0	3
0082				47.4522 270.2115 7305058	354.5432	0.3547	2.20934896		9

88-35A

Kosmos 1941

Ned: 11 maj

9079U	88035	A	88119.98989189	.00063049	00000-0	00000-0	0	0012
9079	070.3382		031.4868 0024493	088.5744	271.8735	16.1226215800026		
9079U	88 35	A	88121.85099610	.00084134	00000-0	71001-4	0	14
9079	70.3374		26.0049 0023016	83.8515	276.4653	16.12608513		56
9079U	88 35	A	88121.97507024	.00047920	00000-0	71001-4	0	15
9079	70.3280		25.6202 0086636	88.9735	265.5708	15.97532856		58
9079U	88 35	A	88122.85282432	.00047462	00000-0	71001-4	0	16
9079	70.3372		23.1154 0084847	83.5632	277.5809	15.97647095		72
9079U	88 35	A	88123.85458077	.00038368	00000-0	57399-4	0	17
9079	70.3360		20.2290 0084422	81.5210	279.5971	15.97745045		88
9079U	88 35	A	88124.79367874	.00036044	00000-0	53815-4	0	18
9079	70.3366		17.5220 0084042	79.7097	281.4513	15.97841201		103
9079U	88 35	A	88125.79531415	.00039528	00000-0	58701-4	0	19
9079	70.3373		14.6341 0083726	77.8089	283.3718	15.97951140		119

9079U	88	35	A	88126.85947028	.00044350	00000-0	65372-4	0	20
9079	70.3362	11.5666	0083575	75.7296	285.4254	15.98066010			136
9079U	88	35	A	88127.79836439	.00067904	57777-5	10107-3	0	21
9079	70.3350	8.8579	0083455	73.9681	287.2181	15.98213362			151
9079U	88	35	A	88127.79836439	.00067904	57777-5	10107-3	0	22
9079	70.3350	8.8579	0083455	73.9681	287.2181	15.98213362			151
9079U	88	35	A	88127.98610724	.00118627	44568-5	10107-3	0	23
9079	70.3386	8.3228	0031770	115.1325	251.7917	16.12212973			154
19079U	88	35	A	88128.85359281	.00098418	00000-0	81859-4	0	24
19079	70.3359	5.7563	0031711	102.0267	258.4996	16.12443937			168
9079U	88	35	A	88130.83851952	.00373524	47809-5	30158-3	0	26
9079	70.3371	359.9073	0031203	97.2628	263.1513	16.12914244			200
9079U	88	35	A	88131.33463206	.00086427	00000-0	69591-4	0	27
9079	70.3389	358.4460	0030819	96.6590	263.5227	16.12975524			208
19079U	88	35	A	88131.83080964	.00112420	00000-0	89834-4	0	28
19079	70.3385	356.9840	0030552	95.6387	264.8653	16.13091465			216
19079U	88	35	A	88132.01684081	.00112938	00000-0	89834-4	0	29
19079	70.3386	356.4378	0030580	95.2097	265.2747	16.13154647			219
19079U	88	35	A	88133.00893962	.00117438	00000-0	89834-4	0	30
19079	70.3389	353.5115	0019436	108.2307	254.3888	16.14106304			235

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9090U	88	36	A	88146.05114175	-.00000263	00000-0	99999-4	0	18	
9090				0.3944	276.8189	0004845	352.9044	90.2283	1.00280334	19
9091U	88	36	B	88127.16967903	-.00008457	58351-4	00000	0	0	1
9091				51.6258	275.1715	0008026	150.8005	209.5303	16.29090668	1
9092U	88	36	C	88127.23112158	.22984550	58338-4	57781-2	0	0	1
9092				51.6149	274.8483	0017108	100.2377	259.5188	16.27739185	3
9094U	88	36	D	88127.12649941	-.00000272	00000-0	99999-4	0	0	1
9094				0.4599	276.5384	0018993	332.4366	110.9017	1.01113107	0
9093U	88	36	D	88128.04540373	.00000189	00000-0	99999-4	0	0	6
9093				47.3727	275.0442	7264485	0.0813	1.0603	2.28754555	1
9095U	88	36	F	88127.60691896	.00000062	00000-0	99999-4	0	0	1
9095				47.4044	275.1672	7244993	0.0031	359.6538	2.28167376	0

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Kosmos 1942

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19115U	87037	A	88133.66416733	.00000000	00000-0	00000-0	0	0001
19115	067.1390		076.9479 0146449	092.8088	269.0102	16.0403094900001		
19115U	88 37	A	88133.85120314	-.02159073	27829-4	-77474-3	0	2
19115	67.1348		76.3180 0145572	92.4245	269.1702	16.03957719		4
19115U	87037	A	88133.85124493	.00317064	00000-0	00000-0	0	0002
19115	067.1429		076.3254 0149013	092.9970	268.8512	16.0407665800004		
19115U	88 37	A	88133.97597550	.00901159	27982-4	32318-3	0	3
19115	67.1383		75.8986 0144452	92.5642	269.4461	16.04255486		6
19115U	88 37	A	88134.34992553	.00544425	27602-4	19316-3	0	4
19115	67.1396		74.6432 0143037	92.1110	269.4719	16.04677171		12
19115U	88 37	A	88134.91080844	.00580289	27438-4	20095-3	0	5
19115	67.1398		72.7573 0140933	91.5296	270.2482	16.05337112		21
19115U	88 37	A	88135.78276961	.00597149	27441-4	19943-3	0	6
19115	67.1410		69.8216 0137449	90.5242	271.2378	16.06394361		35
19115U	88 37	A	88136.84079694	.00620068	28140-4	19260-3	0	7
19115	67.1389		66.2492 0134083	89.8170	272.0422	16.07761547		52

19115U	88	37	A	88137.83572587	.00730560	28113-4	21093-3	0	84
19115	67.1406	62.8854	0130297	89.1249	272.8181	16.09200857			68
19115U	88	37	A	88138.45702821	.00787246	27957-4	21519-3	0	9
19115	67.1416	60.7798	0127809	88.5293	273.1769	16.10203326			78
19115U	88	37	A	88139.07794462	.00507213	27281-4	22382-3	0	10
19115	67.1384	58.6751	0137062	98.7685	260.1492	16.03761843			88
19115U	88	37	A	88139.88895158	.00528292	27410-4	22382-3	0	11
19115	67.1394	55.9540	0134657	99.3533	262.4343	16.04655672			101
19115U	88	37	A	88142.13100960	.00675190	28842-4	19872-3	0	14
19115	67.1453	48.3937	0087906	96.9014	270.8610	16.17266509			137
19115U	88	37	A	88143.36605609	.00763279	28492-4	19872-3	0	16
19115	67.1388	44.1559	0083659	95.8617	265.4293	16.19215333			157
19115U	88	37	A	88143.86005828	.00833213	28603-4	20612-3	0	17
19115	67.1389	42.4608	0081644	95.2228	265.9165	16.20060000			165
19115U	88	37	A	88145.77172414	.01018793	28979-4	19735-3	0	21
19115	67.1397	35.8723	0073194	94.0896	266.9413	16.23815117			196
19115U	88	37	A	88145.83330344	.01016475	28884-4	19542-3	0	22
19115	67.1399	35.6592	0072879	94.0459	266.9048	16.23938455			197
19115U	88	37	A	88146.01805138	.00409475	27870-4	19542-3	0	23
19115	67.1475	35.0255	0125120	64.8539	288.1712	16.05346363			200

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9115U	88	37	A	88146.82927207	.00449273	27700-4	19542-3 0	24
9115	67.1383	32.3005	0125958	60.7823	300.7292	16.06137447	213	
19115U	88	37	A	88147.82523694	.00497494	28201-4	20696-3 0	25
19115	67.1412	28.9423	0122619	59.7303	301.5932	16.07243926	229	
9115U	88	37	A	88148.75840612	.00524249	28225-4	21036-3 0	26
9115	67.1393	25.7888	0119079	59.0202	302.5894	16.08300374	244	
9115U	88	37	A	88149.81518692	.00529943	28004-4	20390-3 0	27
9115	67.1387	22.2146	0115230	58.2547	303.1652	16.09474367	261	
9115U	88	37	A	88150.56068845	.00939151	28487-4	34948-3 0	28
9115	67.1400	19.6871	0111785	57.6238	303.7783	16.10444515	273	
9115U	88	37	A	88150.74694891	.01417592	28105-4	51667-3 0	29
9115	67.1367	19.0549	0111743	57.4268	303.6463	16.10646110	276	
9115U	88	37	A	88151.55391937	.00669998	27965-4	23450-3 0	31
9115	67.1367	15.3176	0108655	56.2299	304.4913	16.11676149	289	
9115U	88	37	A	88151.86424377	.00683108	28015-4	23450-3 0	32
9115	67.1358	15.2633	0107429	55.8955	305.2366	16.12102885	294	
19115U	88	37	A	88152.79450129	.00909792	28097-4	29263-3 0	33
19115	67.1340	12.0933	0103422	55.3677	305.8562	16.13605606	290	

19115U	88 37 A	88153.10436457	.00691610	28398-4	21875-3 0	34
19115	67.1345	11.0407 0102089	54.8174	306.1694	16.13927483	314
19115U	88 37 A	88153.53809940	.00774320	28249-4	23517-3 0	35
19115	67.1353	9.5617 0100560	54.1509	306.9515	16.14606299	321
19115U	88 37 A	88153.84777134	.00761263	28267-4	22837-3 0	36
19115	67.1331	6.5033 0098755	54.2116	306.7971	16.15067947	326
19115U	88 37 A	88154.77628457	.00850972	28436-4	23780-3 0	37
19115	67.1359	5.3287 0094264	53.5597	307.5619	16.16589021	341
19115U	88037 A	88154.90116269	.00800341	00000-0	00000-0 0	0037
19115	067.1377	004.9028 0132072	084.4982	277.1488	16.0012092100343	
19152U	87 20 BK	88154.46323503	.00060028	00000-0	10302 0 0	12
19152	73.3851	300.5727 0631685	91.8822	275.4879	12.84809784	534
19115U	88 37 A	88154.89999573	.00297489	27457-4	22207-3 0	39
19115	67.1499	4.9036 0125270	85.6520	269.3215	16.00343953	343
19115U	88 37 A	88155.21360812	.00315245	27571-4	22207-3 0	40
19115	67.1349	3.8660 0128700	83.3157	277.9721	16.00366150	348
19115U	88 37 A	88155.96351010	.00380345	27493-4	26257-3 0	41
19115	67.1357	1.3608 0127024	82.5407	279.0670	16.00896578	360
19115U	88 37 A	88158.83563643	.00397901	27217-4	25487-3 0	44
19115	67.1356	351.7400 0120488	79.6100	282.0015	16.02995997	406
19115U	88 37 A	88159.83367256	.00388114	27591-4	24141-3 0	45
19115	67.1338	348.3902 0118199	78.5046	282.8718	16.03767890	422

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19115U	88 37	A	88160.89360307	.00559287	27793-4	24141-3	0	46
19115	67.1343		344.8282 0114288	85.4755	276.8886	16.08471352		439
19115U	88 37	A	88160.89360307	.00559287	27793-4	24141-3	0	47
19115	67.1343		344.8282 0114288	85.4755	276.8886	16.08471352		439
19115U	88 37	A	88162.50922846	.00406002	27913-4	16262-3	0	49
19115	67.1336		339.3566 0108902	83.2518	277.9552	16.10303394		465
19115U	88 37	A	88163.81289186	.00604914	27933-4	22479-3	0	53
19115	67.1363		334.9332 0104044	82.1204	279.1855	16.11956868		486
19115U	88 37	A	88164.49523685	.00599301	28349-4	21395-3	0	54
19115	67.1310		332.6093 0101466	81.0274	280.3997	16.12849495		497
19115U	88 37	A	88164.86723616	.00844229	28185-4	28989-3	0	55
19115	67.1375		331.3426 0100565	80.7094	280.5933	16.13389877		503
19115U	88 37	A	88165.11516450	.00690719	28425-4	23765-3	0	56
19115	67.1345		330.4959 0099030	80.1743	280.9759	16.13668052		507
19115U	88 37	A	88165.85872060	.00719540	28454-4	23577-3	0	57
19115	67.1347		327.9637 0096281	79.6677	281.4383	16.14665826		519
19115U	88 37	A	88167.90242513	.00392207	27926-4	24156-3	0	60
19115	67.1346		320.9856 0103049	103.4625	257.8087	16.06660533		552

19115U	88	37	A	88169.83126594	.00491017	28304-4	28056-3	0	62
19115	67.1331	314.4745	0098256	101.0324	260.2558	16.08359743			583
19115U	88	37	A	88170.20433073	.00498691	28142-4	28288-3	0	63
19115	67.1330	313.2125	0097193	100.2320	260.8483	16.08629260			589
19115U	88	37	A	88170.82599311	.00429536	27825-4	23536-3	0	64
19115	67.1311	311.1089	0096434	99.6940	261.4289	16.09174675			599
19115U	88	37	A	88171.44745336	.00410366	28156-4	21768-3	0	65
19115	67.1305	309.0020	0095422	98.7665	262.5213	16.09728757			609
19115U	88	37	A	88171.82020397	.00501020	28153-4	26482-3	0	66
19115	67.1327	307.7406	0093045	98.3740	262.9291	16.10164677			615
19115U	88	37	A	88173.31026694	-.02371540	27837-4	-11660-2	0	68
19115	67.1294	302.6837	0088869	96.2289	264.8211	16.11595938			639
19115U	88	37	A	88173.43443045	.00369476	27895-4	18235-3	0	69
19115	67.1321	302.2625	0088581	96.1727	265.1473	16.11745498			641
19115U	88	37	A	88173.80670058	.00678725	28504-4	32375-3	0	70
19115	67.1319	300.9963	0087171	95.9992	265.3619	16.12315372			647
19115U	88	37	A	88174.86089631	.00557741	28591-4	25162-3	0	72
19115	67.1330	297.4103	0084331	94.4250	266.7579	16.13435498			664
19115U	88	37	A	88175.85239811	.00545628	28653-4	23387-3	0	74
19115	67.1318	294.0280	0081360	93.3459	267.6126	16.14504122			680

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9115U	88	37	A	88176.84327503	.00647687	28086-4	26184-3	0	75
9115	67.1338	290.6461	0077929	92.0615	269.0510	16.15702722			696
9115U	88	37	A	88177.46214055	.00339440	27662-4	26184-3	0	76
9115	67.1361	288.5349	0115873	123.5181	235.6028	16.01674944			706
9115U	88	37	A	88177.52495107	.48659751	27635-4	38644-1	0	77
9115	67.1420	288.3282	0107344	114.4354	246.4746	16.02706656			707
9115U	88	37	A	88177.64929274	.78832680	28394-4	38644-1	0	78
9115	67.1317	287.9156	0119054	127.3289	231.2322	16.06133731			709
9115U	88	37	A	88177.71204109	-.08734705	28064-4	-42024-2	0	79
9115	67.1360	287.6953	0125703	125.3704	235.9362	16.05038610			710
9115U	88	37	A	88177.83676677	.00552451	27785-4	26368-3	0	80
9115	67.1304	287.2758	0124792	125.7535	236.2121	16.05382255			712
9115U	88	37	A	88178.77087341	.00635916	27997-4	29243-3	0	81
9115	67.1317	284.1253	0121057	124.8346	236.5057	16.06492849			727
9115U	88	37	A	88178.77087341	.00635916	27997-4	29243-3	0	82
9115	67.1317	284.1253	0121057	124.8346	236.5057	16.06492849			727

191150	88	37	A	88179.45551887	.00601385	28013-4	26885-3	0	83
19115	67.1361	281.8189	0118391	124.2161	236.9481	16.07309528	738		
191150	88	37	A	88179.70441833	.00608013	27989-4	26673-3	0	84
19115	67.1330	280.9777	0117756	124.0256	237.2443	16.07629046	742		
191150	88	37	A	88179.70441833	.00608013	27989-4	26673-3	0	85
19115	67.1330	280.9777	0117756	124.0256	237.2443	16.07629046	742		
191150	88	37	A	88181.88014065	.00608255	27854-4	24187-3	0	87
19115	67.1297	273.6151	0109211	121.4705	239.7384	16.10284869	777		
191150	88	37	A	88182.12856267	.00716903	28101-4	28173-3	0	88
19115	67.1296	272.7702	0107486	121.0275	240.2846	16.10723828	781		
191150	88	37	A	88183.43132173	.00712125	28523-4	25707-3	0	90
19115	67.1290	268.3416	0102315	119.6979	241.5792	16.12567101	802		
191150	88	37	A	88184.73353668	.00769253	28341-4	25459-3	0	91
19115	67.1289	263.9067	0096444	118.3407	242.8832	16.14531446	823		
191150	88	37	A	88185.47663337	.00867259	28803-4	27336-3	0	92
19115	67.1279	261.3677	0092939	117.5458	243.4137	16.15658362	835		
191150	88	37	A	88185.84800975	.00739929	28572-4	22504-3	0	93
19115	67.1288	260.1040	0092084	117.0612	243.8831	16.16176240	841		
191150	88	37	A	88186.46670995	.01022579	28784-4	29815-3	0	94
19115	67.1291	257.9821	0088456	116.1625	245.0053	16.17238194	851		

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Progress 36

Ned: 5, 24 mi

9117U	88	38	A	88134.13648969	-	.00008340	57611-4	00000	0	0	1
9117	51.6579	247.8975	0045753	97.9476	262.4616	16.21452776					2
9117U	88	38	A	88134.32138693	.	.00111707	16293-4	16167-3	0	0	2
9117	51.6558	246.8835	0083718	187.5272	170.9385	15.98298977					5
9117U	88	38	A	88134.63424764	-	.00269522	00000-0	-38776-3	0	0	3
9117	51.6617	245.2202	0083703	188.9307	171.0557	15.98434278					10
9117U	88	38	A	88134.88432274	.	.00062329	00000-0	86624-4	0	0	4
9117	51.6572	243.8906	0083593	189.6928	170.3524	15.98497126					14
9117U	88	38	A	88135.13436230	.	.00042325	00000-0	86624-4	0	0	5
9117	51.6611	242.5634	0066287	193.1443	165.9129	15.94673274					18
9117U	88	38	A	88135.76115623	.	.00042386	00000-0	86624-4	0	0	6
9117	51.6593	239.2437	0066212	195.1534	164.6073	15.94705442					28
9117U	88	38	A	88136.63845652	.	.00013130	00000-0	86624-4	0	0	8
9117	51.6196	234.5665	0019486	331.6528	346.7930	15.75174083					42
9117U	88	38	A	88141.65727609	.	.00013360	00000-0	86624-4	0	0	12
9117	51.6202	208.7341	0022846	353.5914	6.4680	15.75457050					121

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0119U	88	39	A	88136.45437366	-.00000020	00000-0	00000	0	0	1
0119	71.0049	59.9059	0001900	200.5217	159.5829	14.12659442				1
09119U	88	39	A	88140.79208144	.00000049	00000-0	37408-4	0		16
09119	71.0111	38.2857	0002398	344.7461	15.3594	14.12728255				147

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19121U	88	40	A	88142.34343853	-.00000024	00000-0	99999-4	0	4	
19121				0.8729	238.2115	0288779	349.0137	130.2944	1.04863339	1
19121U	88	40	A	88143.29698149	-.00000033	00000-0	99999-4	0	5	
19121				0.8740	237.7274	0288607	349.4942	130.2927	1.04865080	2
19121U	88	40	A	88146.32675169	.00000086	00000-0	99999-4	0	10	
19121				0.3840	252.4915	0022943	107.4471	0.0681	1.00550372	1

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Kosmos 1944

Upp: 18 maj; Bailkonur,
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191230	88	41	A	88139.49401072	- .00005025	34784-4	00000	0	0	1
19123	64.7795	69.2115	0069421	66.9095	293.4400	16.11199900				1
191230	88	41	A	88139.55616639	- .00005010	34547-4	00000	0	0	2
19123	64.7799	68.9805	0068690	66.8042	294.0731	16.11377090				2
191230	88	41	A	88139.61822283	- .00005074	35045-4	00000	0	0	3
19123	64.7799	68.7495	0068714	66.7872	294.0506	16.11374945				3
191230	88	41	A	88139.86647572	.00080904	34526-4	55713-4	0	0	4
19123	64.7771	67.8251	0068800	66.9205	293.9394	16.11423629				7
191230	88	41	A	88140.11469914	.00325150	63983-4	23510-3	0	0	5
19123	64.7825	66.9022	0008749	274.2376	85.8347	16.15491130				11
191230	88	41	A	88140.11475847	.00321153	97036-5	23510-3	0	0	6
19123	64.7819	66.9022	0036344	18.7741	340.9083	16.13765777				11
191230	88	41	A	88140.36359352	.00074682	00000-0	55713-4	0	0	7
19123	64.7784	65.9745	0035073	19.0136	346.0516	16.13603077				15

191230	88	41	A	88143.89435593	.00144332	99001-5	10185-3	0	16
19123	64.7795	52.7775	0033772	17.3064	342.9247	16.14623755			72
191230	88	41	A	88145.87808392	.00122235	00000-0	90638-4	0	21
19123	64.7809	45.3711	0037861	24.1108	336.3118	16.13404779			104
191230	88	41	A	88146.86974814	.00131646	00000-0	95876-4	0	22
19123	64.7802	41.6679	0037438	23.3193	337.0831	16.13684869			120
191230	88	41	A	88147.86123669	.00083767	00000-0	60187-4	0	23
19123	64.7806	37.9614	0037398	21.7590	338.4836	16.13905372			136
191230	88	41	A	88148.85264476	.00109330	00000-0	77153-4	0	24
19123	64.7805	34.2558	0036700	20.7742	339.8433	16.14190591			152
191230	88	41	A	88149.84379591	.00100684	00000-0	69848-4	0	25
19123	64.7788	30.5482	0036523	20.0717	340.3360	16.14444321			168
191230	88	41	A	88150.46319816	.00134785	00000-0	91852-4	0	26
19123	64.7787	28.2307	0036718	19.4051	340.9717	16.14648246			178
191230	88	41	A	88150.83478991	.00127007	00000-0	86467-4	0	27
19123	64.7782	26.8404	0036041	19.2266	340.9944	16.14724413			184
191230	88	41	A	88151.82563343	.00234403	10268-4	15741-3	0	29
19123	64.7760	23.1297	0035366	18.4900	341.7336	16.15063437			200
191230	88	41	A	88154.86262288	.00165493	11520-4	11506-3	0	38
19123	64.7762	11.7828	0048147	74.2381	286.3690	16.13403475			249
191230	88	41	A	88155.97823152	.00172647	11522-4	11698-3	0	40
19123	64.7769	7.6160	0047795	73.2555	287.3420	16.13771952			267

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9123U	88 41 A	88156.16414808	.00107139	00000-0	71771-4 0	41
9123	64.7759	6.9201 0047429	72.9309	287.7113	16.13818532	270
19123U	88 41 A	88156.84577691	.00155851	11554-4	10431-3 0	42
19123	64.7758	4.3724 0046979	73.0181	287.7410	16.14048895	281
9123U	88 41 A	88157.83702322	.00162689	12019-4	10641-3 0	43
9123	64.7760	0.6674 0046535	71.8561	288.8536	16.14392704	297
9123U	88 41 A	88158.51837897	.00125908	00000-0	80077-4 0	44
9123	64.7756	358.1206 0045821	70.9648	289.7577	16.14664991	308
19123U	88 41 A	88158.82803602	.00195234	11861-4	12418-3 0	45
19123	64.7763	356.9597 0045757	71.3294	289.3183	16.14801298	313
19123U	88 41 A	88159.88118898	.01665511	89891-5	14256-2 0	47
19123	64.7792	353.0228 0044629	94.7566	265.8620	16.10726746	330
19123U	88 41 A	88159.94327410	.01964546	10657-4	14256-2 0	48
19123	64.7780	352.7911 0048161	104.5614	256.4348	16.12620087	331
9123U	88 41 A	88160.06722530	-.00394378	00000-0	-28766-3 0	49
9123	64.7750	352.3271 0047869	104.4407	256.0832	16.12544585	333
19123U	88 41 A	88160.43939065	.00161760	10906-4	11894-3 0	50
19123	64.7761	350.9387 0047511	103.8776	257.1243	16.12726510	339

19123U	88	41	A	88160.93539338	.00212975	10534-4	15417-3	0	51
19123	64.7784	349.0881	0047216	103.6797	256.9487	16.12909410			347
19123U	88	41	A	88161.49339116	.00013850	00000-0	10255-4	0	52
19123	64.7765	347.0084	0046596	103.1188	257.4211	16.13045414			356
19123U	88	41	A	88161.86537915	.05223353	11041-4	36573-2	0	53
19123	64.7771	345.6181	0045910	104.1140	256.5050	16.13331358			362
19123U	88	41	A	88161.92735450	-.00009577	00000-0	-63234-5	0	54
19123	64.7771	345.3868	0046415	102.7798	257.7446	16.13215990			363
19123U	88	41	A	88162.48530700	.00024566	00000-0	17546-4	0	55
19123	64.7763	343.3038	0045736	102.2500	258.5946	16.13388773			372
19123U	88	41	A	88163.78676379	.00169569	11230-4	11628-3	0	58
19123	64.7754	338.4416	0045508	101.9222	258.6924	16.13864813			393
19123U	88	41	A	88164.84009319	.00062136	00000-0	41743-4	0	59
19123	64.7757	334.4991	0043880	101.2000	259.3656	16.14213369			410
19123U	88	41	A	88165.21181998	.00248676	11300-4	16605-3	0	60
19123	64.7737	333.1066	0043666	99.7072	260.9308	16.14342407			416
19123U	88	41	A	88165.89318227	.00176591	11288-4	11693-3	0	61
19123	64.7732	330.5598	0043202	99.5746	260.8337	16.14561623			427
19123U	88	41	A	88166.76030166	.00147596	93230-5	11693-3	0	62
19123	64.7770	327.3174	0039492	146.7830	212.0845	16.12522743			441

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9123U	88	41	A	88166.88458970	.00151489	95737-5	11693-3	0	64
9123	64.7754	326.8500	0038196	149.0616	211.4313	16.12998476			443
9123U	88	41	A	88166.88458970	.00151489	95737-5	11693-3	0	65
9123	64.7754	326.8500	0038196	149.0616	211.4313	16.12998476			443
9123U	88	41	A	88167.50453453	.00002748	00000-0	24848-5	0	66
9123	64.7743	324.5374	0038089	148.9273	211.3046	16.13089156			453
9123U	88	41	A	88167.87651065	.00159878	98718-5	12092-3	0	67
9123	64.7740	323.1470	0038259	149.2012	211.1428	16.13262342			459
9123U	88	41	A	88168.80628206	.00181364	95732-5	13481-3	0	68
9123	64.7751	319.6747	0037604	148.8339	211.3857	16.13529629			474
9123U	88	41	A	88169.79791359	.00153725	96800-5	11281-3	0	70
9123	64.7742	315.9709	0036795	148.0426	212.3286	16.13813557			490
9123U	88	41	A	88169.79791359	.00153725	96800-5	11281-3	0	71
9123	64.7742	315.9709	0036795	148.0426	212.3286	16.13813557			490
9123U	88	41	A	88170.85128092	.00147920	10018-4	10661-3	0	72
9123	64.7741	312.0341	0036166	147.4516	212.8538	16.14127950			507
9123U	88	41	A	88173.82435097	.00153329	10128-4	10471-3	0	77
9123	64.7751	300.9116	0033537	145.2777	214.9855	16.15074230			555

19123U	88	41	A	88174.87691436	.00145068	00000-0	95787-4	0	78
19123	64.7745	296.9708	0033186	144.8937	215.3642	16.15372068			572
9123U	88	41	A	88175.80549462	.00178381	10498-4	11702-3	0	79
9123	64.7747	293.4897	0032221	144.5369	215.8640	16.15691798			587

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Kosmos 1945

Upp: 19 maj

Ned: 31 maj

19131U	88 42	A	88140.44297435	-	.00000298	00000-0	00000 0 0	
19131	70.3612		59.0412 0119702		69.7767	291.1451	15.95551411	
19131U	88 42	A	88140.81922749		.00090815	57028-5	10794-3 0	2
19131	70.3583		57.9528 0119861		68.6595	292.7049	15.95537871	7
19131U	88 42	A	88141.07039737		.00066587	51681-5	10794-3 0	4
19131	70.3699		57.2376 0066882		74.0901	288.6171	15.99072206	11
19131U	88 42	A	88142.75907329		.00050548	00000-0	79800-4 0	6
19131	70.3547		52.3622 0066802		70.4832	290.4283	15.99185208	38
19131U	88 42	A	88142.94671620		.00279937	35614-4	44408-3 0	7
19131	70.3579		51.8211 0066773		70.4071	290.4288	15.99233487	41
19131U	88 42	A	88143.38453480		.00210669	21397-4	33743-3 0	8
19131	70.3576		50.5557 0065462		69.4419	291.2089	15.99255524	48
19131U	88 42	A	88146.82450598		.00038911	00000-0	60658-4 0	13
19131	70.3568		40.6307 0065974		62.7866	298.1533	15.99534512	103
19131U	88 42	A	88147.88760544		.00035713	00000-0	55517-4 0	14
19131	70.3561		37.5008 0065777		60.2846	300.5179	15.99619980	120

9131U	88 42 A	88148.07520482	.00075238	00000-0	55517-4 0	15
9131	70.3608	37.0212 0030833	134.7618	232.3285	16.14202421	123
9131U	88 42 A	88148.81767002	.00091186	00000-0	67391-4 0	16
9131	70.3573	34.8222 0028347	124.8422	235.5545	16.14351342	135
9131U	88 42 A	88149.43729550	.00086439	00000-0	63507-4 0	17
9131	70.3575	32.9940 0027808	123.1420	237.2793	16.14473317	145
9131U	88 42 A	88149.80904364	.00210450	48882-5	15446-3 0	18
9131	70.3600	31.8998 0027612	122.3798	238.0093	16.14545840	151
9131U	88 42 A	88150.55245969	.00712189	47513-5	51403-3 0	19
9131	70.3594	29.7046 0027224	120.7923	239.4173	16.14739444	163
9131U	88 42 A	88150.80026318	.00331231	51549-5	23816-3 0	20
9131	70.3592	28.9717 0027915	121.2770	238.9332	16.14777477	167
9131U	88 42 A	88150.86224285	.00331369	51409-5	23816-3 0	21
9131	70.3613	28.7893 0027536	121.0198	239.3694	16.14809690	168
9131U	88 42 A	88151.54356736	.00125337	00000-0	89206-4 0	22
9131	70.3593	26.7804 0027253	118.4338	241.5169	16.14936551	179
9131U	88 42 A	88151.85335074	.00238004	51353-5	16880-3 0	23
9131	70.3621	25.8645 0027359	119.0662	241.3274	16.15027770	184

88-43A;C Kormos 1946-1948 (GLONASS)

Lpp: 21 maj

91630	88	43	A	88146.45006350	.00000021	00000-0	99999-4	0	9
9163	64.9079	183.8271	0008741	272.6038	87.1999	2.13246383			10
91640	88	43	B	88145.51223890	.00000021	00000-0	99999-4	0	4
9164	64.9156	183.8559	0006170	284.6129	75.3927	2.13259753			8
91650	88	43	C	88146.45006349	.00000021	00000-0	99999-4	0	4
9165	64.9141	183.8214	0006366	280.6390	79.4090	2.13268135			10

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Molviya 3-32

9189U 88044 A 88147.69534194 .00000000 00000-0 00000-0 0 0001
9189 062.8141 066.0456 7414843 288.1958 009.2030 01.9529190900001

88-45A

Kosmos 1949

Lpp: 28maj

9193U	88	45	A	88149.23795861	.00514469	00000-0	79195-2 0	2
9193	65.0309	322.6675	0010733	276.1732	83.8281	15.52091916		1
9193U	88	45	A	88149.56009604	.00210569	00000-0	33755-2 0	3
9193	65.0283	321.5765	0010492	273.7516	86.0281	15.52052549		6

88-46 A

Kosmos 1950

Lpp: 30 maj.

9195U	88 46 A	88152.84792758	.09002102	00000-0	15638-1 0	8
9195	73.6024	12.7426 0024109	265.7450	94.0795	12.40744080	18
9195U	88 46 A	88153.97664306	.00000382	00000-0	28922-2 0	9
9195	73.6014	11.2298 0023919	264.2087	95.6196	12.40745505	32

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Kosmos 1951

Upp: 31 maj

Ned: 14 juni

191970	88 47 A	88152.80864269	.00318636	-58351-5	93327-4 0	4
19197	82.3259	31.2291 0051472	107.4171	253.2923	16.23479051	8
191970	88 47 A	88153.17844601	.00804468	-56193-5	23159-3 0	5
19197	82.3264	30.7880 0050856	105.2086	255.4946	16.23762943	14
191970	88 47 A	88153.30169233	.00713109	-54779-5	23159-3 0	6
19197	82.3297	30.6417 0063150	105.1748	254.2443	16.20709871	16
191970	88 47 A	88153.42541503	.00137858	73553-5	23159-3 0	7
19197	82.3289	30.4968 0011933	308.3818	47.5810	16.02617820	18
191970	88 47 A	88153.80074890	.00165758	10875-4	27858-3 0	8
19197	82.3260	30.0646 0011541	306.5933	53.3222	16.02624201	24
191970	88 47 A	88153.80076730	-.00004815	00000-0	-82195-5 0	9
19197	82.3270	30.0652 0011420	306.4937	53.5232	16.02585919	24
191970	88 47 A	88154.23786023	.00032939	00000-0	54903-4 0	10
19197	82.3281	29.5596 0011806	302.7964	57.3275	16.02641130	31
191970	88 47 A	88155.79877340	.00233328	22798-4	38908-3 0	12
19197	82.3294	27.7656 0010247	297.3854	62.7273	16.02802555	56

9197U	88 47	A	88156.11090969	.00003927	00000-0	64459-5 0	13
9197	82.3262		27.4088	0011217	300.7469	59.1674 16.02791665	61
9197U	88 47	A	88156.86012967	.00153499	92143-5	25404-3 0	14
9197	82.3293		26.5462	0011534	293.2916	66.8157 16.02882010	73
9197U	88 47	A	88157.29710465	-.00023457	00000-0	-39185-4 0	18
9197	82.3291		26.0365	0011654	290.2804	69.6163 16.02868682	80
9197U	88 47	A	88157.85900345	.00164823	10874-4	27155-3 0	16
9197	82.3274		25.3937	0011433	287.3268	72.7939 16.02966972	89
9197U	88 47	A	88158.48321093	-.00031220	00000-0	-51784-4 0	17
9197	82.3289		24.6755	0011600	285.5779	74.1995 16.03006082	99
9197U	88 47	A	88158.79537793	.00035009	00000-0	57094-4 0	18
9197	82.3275		24.3147	0011659	283.1136	76.8883 16.03011713	104
9197U	88 47	A	88159.35719613	.00121974	55470-5	19933-3 0	19
9197	82.3272		23.6677	0011758	281.1214	78.9115 16.03082053	113
9197U	88 47	A	88165.53596210	-.00100269	00000-0	-16250-3 0	26
9197	82.3278		16.5558	0011844	252.0584	107.7500 16.03592095	212
9197U	88 47	A	88165.84801419	.00102310	36781-5	16141-3 0	28
9197	82.3279		16.1977	0012041	250.0360	110.0336 16.03659114	217
9197U	88 47	A	88166.84633751	.00288877	36604-4	43821-3 0	29
9197	82.3242		15.0447	0013144	244.8214	116.2013 16.04327766	233

88-48A

Soyuz TM-5

Lpp: 7, uni fr. Baikonur

9204U	88 48	A	88159.57758412	-.00008409	58168-4	00000 0 0	1
9204	51.5927	116.8764	0015463	96.1623	263.2140	16.24981513	0
9204U	88 48	A	88159.63923420	-.00012233	57631-4	-13156-5 0	2
9204	51.6193	116.5224	0013564	87.2299	273.0277	16.24541118	1
9204U	88 48	A	88159.70074664	.06171887	57859-4	20113-2 0	3
9204	51.6171	116.1783	0013565	87.4872	272.8071	16.25016954	2
9204U	88 48	A	88159.76221940	.00562407	58170-4	18742-3 0	4
9204	51.6180	115.8372	0013705	95.5626	264.6086	16.24908649	3
9204U	88 48	A	88159.82373142	.00178484	58228-4	61345-4 0	5
9204	51.6170	115.4969	0013078	96.1839	264.0795	16.24938996	4
9204U	88 48	A	88159.88522624	.00066113	00000-0	61345-4 0	6
9204	51.6131	115.1483	0060062	285.0756	74.3443	16.07638182	5
9204U	88 48	A	88160.00954853	.00017181	00000-0	61345-4 0	7
9204	51.6111	114.4949	0044134	170.7516	181.1252	15.86928916	7

19204U	88 48	A	88160.76665126	.00016495	00000-0	61345-4	0	8
19204	51.6110		110.5406	0038367	173.0180	186.8808	15.86529210	19
19204U	88 48	A	88160.89267042	-.00146899	00000-0	-55724-3	0	9
19204	51.6115		109.8749	0038752	174.1003	185.8831	15.86161496	21
19204U	88 48	A	88160.89267042	-.00146899	00000-0	-55724-3	0	10
19204	51.6115		109.8749	0038752	174.1003	185.8831	15.86161496	21
19204U	88 48	A	88161.77465862	-.00013868	00000-0	-10015-3	0	13
19204	51.6140		105.2851	0004827	31.9175	320.8886	15.72372485	35

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Kosmos 1952

Upp: 11 juni

Ned: 25 juni

19206U	88 49	A	88163.47364131	-.00000339	00000-0	00000 0 0	1
19206	69.9803		92.3381 0049447	58.2327 302.4467	16.12904733		1
19206U	88 49	A	88163.78397316	-.00106124	00000-0	-81012-4 0	3
19206	69.9738		91.3904 0051584	62.4521 298.0078	16.11636512		6
19206U	88 49	A	88163.78397316	-.00106124	00000-0	-81012-4 0	4
19206	69.9738		91.3904 0051584	62.4521 298.0078	16.11636512		6
19206U	88 49	A	88164.09433203	.00085847	70658-5	10643-3 0	5
19206	69.9834		90.4628 0042623	82.5333 277.0779	16.05801007		11
19206U	88 49	A	88164.84199656	.00086373	70400-5	10643-3 0	6
19206	69.9782		88.2438 0042706	80.5135 280.0436	16.05885472		23
19206U	88 49	A	88166.21235393	.00036677	00000-0	44205-4 0	9
19206	69.9789		84.1773 0042296	78.3654 282.4637	16.06058459		45
19206U	88 49	A	88166.21235393	.00036677	00000-0	44205-4 0	10
19206	69.9789		84.1773 0042296	78.3654 282.4637	16.06058459		45

19206U	88	49	A	88167.89387230	.00054854	00000-0	64888-4	0	12
19206	69.9761	79.1860		0042299	75.2629	285.4135	16.06266742		72
19206U	88	49	A	88169.82424453	.00063796	00000-0	74206-4	0	14
19206	69.9790	73.4543		0042002	71.2767	289.3178	16.06518287		103
19206U	88	49	A	88170.82045397	.00060799	00000-0	70316-4	0	15
19206	69.9795	70.4961		0041718	69.4099	291.1566	16.06639361		119
19206U	88	49	A	88173.80863239	.00049645	00000-0	56553-4	0	18
19206	69.9777	61.6138		0040830	63.0599	297.4529	16.06991331		167
19206U	88	49	A	88174.55558851	.00116029	10051-4	13320-3	0	19
19206	69.9761	59.3930		0040528	61.7442	298.8536	16.07109259		179
19206U	88	49	A	88174.86678370	.00055107	00000-0	62110-4	0	20
19206	69.9779	58.4689		0041000	61.6778	298.7867	16.07118506		184
19206U	88	49	A	88175.86264131	.00056230	00000-0	62985-4	0	21
19206	69.9772	55.5074		0040630	59.9248	300.6507	16.07239675		200
19206U	88	49	A	88176.85840210	.00065010	00000-0	72160-4	0	22
19206	69.9788	52.5462		0040278	57.8694	302.7200	16.07376738		216

88-50A

Kosmos 1953

Upp: 14 juni

19210U	88	50	A	88166.19485566	.00000011	00000-0	00000	0	0	2
19210	82.5289	338.9614	0024672	288.2213	71.6054	14.73613219				1

88-51C

PAS-1

Upp: 15juni fr. Kourus (Ar. 4-01)

9217U	88	51	C	88171.37063061	-.00000245	00000-0	99999-4	0	2	
9217				0.0699	74.2382	0065066	80.6996	205.3461	0.99916544	3

88-51B

OSCAR 13

Lepp = 15, zuni pr. Kouros (Ar. 4-01)

9216U	88	51	B	88171.68109603	.00007235	00000-0	17478-2	0	5
9216	10.0398	243.2673	7302730	181.4887	173.2932	2.25819408			7
9216U	88	51	B	88175.24999999	-.00000023	00000-0	99999-4	0	8
9216	15.9110	239.2410	6963130	188.3600	183.6790	2.20567833			15
9216U	88	51	B	88243.21410557	-.00000107	00000-0	99999-4	0	17
9216	57.5634	241.4311	6563919	189.7935	145.3965	2.09701758			162

88-51A

Meteosat P2

Upp: 15,24h / Mr. Kourou (Ar. 4-01)

19215U	88	51	A	88172.999999998	-.00000102	00000-0	99999-4 0	3	
19215		1.5350		270.6280	0006980	151.1260	182.4650	1.00518888	3
19218U	88	51	D	88171.28137830	.00095447	14279-4	50830-2 0	7	
19218		9.9778		243.2247	7343736	181.3936	173.7306	2.23643255	6
19219U	88	51	E	88171.24535450	.00033743	00000-0	81637-2 0	6	
19219		10.0238		243.4622	7304339	181.1323	174.8285	2.25609214	8
19220U	88	51	F	88171.24112688	.00003637	00000-0	84582-3 0	2	
19220		9.9752		242.7160	7303842	181.8153	175.2872	2.25781517	4

88-52 A₁B

NOVA2

App: 16,241 ft. Vandenberg AFB

9223U	88	52	A	88168.39559979	.00000020	00000-0	00000	0	0	1
9223	90.1356	67.7572	0451189	178.8430	181.3962	14.80230560				1
19224U	88	52	B	88169.54500218	.00033001	00000-0	68075-3	0		5
19224	90.1347	67.7734	0450133	174.5658	186.0753	14.80158162				18

88-53A

Kosmos 1954

4 pp: 21,20 ni pr. Plesecku

9256U	88	53	A	88173.74360130	-.00000012	00000-0	00000	0	0	1
9256	74.0500	164.6889	0017345	346.0760	13.9687	14.29650229				0
9256U	88	53	A	88174.86324249	.00006052	00000-0	23665-2	0		5
9256	74.0491	162.6556	0018380	344.8580	15.1970	14.29607473				16

88-54A

Kosmos 1955

Upp: 22,24h

9258U	88 54	A	88174.72335319	.00403833	34503-4	17980-3 0	2
9258	64.7554	140.8224	0140499	66.5203	294.7066	16.02948609	3
9258U	88 54	A	88174.91057351	.00405767	34534-4	17980-3 0	3
9258	64.7587	140.1321	0139946	66.4120	295.1738	16.03108747	6
9258U	88 54	A	88177.83988732	.00596508	34887-4	23276-3 0	7
9258	64.7554	129.3203	0130665	65.7308	295.8995	16.06215643	53
9258U	88 54	A	88178.46233765	.00622679	34726-4	23276-3 0	8
9258	64.7562	127.0136	0129031	65.4767	295.9821	16.06962780	63
9258U	88 54	A	88178.52456714	.00619697	34781-4	23276-3 0	9
9258	64.7565	126.7827	0128406	65.4957	295.9539	16.07041486	64
9258U	88 54	A	88178.83567938	.00595779	34640-4	22091-3 0	10
9258	64.7564	125.6329	0127188	65.3934	296.0344	16.07415821	69
9258U	88 54	A	88178.83567938	.00595779	34640-4	22091-3 0	11
9258	64.7564	125.6329	0127188	65.3934	296.0344	16.07415821	69
9258U	88 54	A	88179.45769109	.00595439	35082-4	21265-3 0	12
9258	64.7553	123.3238	0124854	65.3315	296.2188	16.08249801	79

19258U	88	54	A	88179.76854718	.00635052	34643-4	21940-3	0	13
19258	64.7565	122.1717	0124468	65.1142	296.2794	16.08643110			84
19258U	88	54	A	88179.76854718	.00635052	34643-4	21940-3	0	14
19258	64.7565	122.1717	0124468	65.1142	296.2794	16.08643110			84
19258U	88	54	A	88181.13546423	.00289628	33917-4	21233-3	0	17
19258	64.7578	117.0943	0125793	84.2668	273.5176	16.00434507			106
19258U	88	54	A	88181.44853528	.00287996	33564-4	21233-3	0	18
19258	64.7540	115.9412	0125393	84.8563	276.5337	16.00441296			111
19258U	88	54	A	88181.88592018	.00335694	34199-4	24085-3	0	19
19258	64.7550	114.3424	0125146	84.2518	277.2970	16.00783214			118
19258U	88	54	A	88182.51057058	.00505054	34505-4	35130-3	0	20
19258	64.7552	112.0450	0124113	83.8635	277.7581	16.01285683			128
19258U	88054	A	88182.51056818	.00366492	00000-0	00000-0	0	0021	
19258	064.7552	112.0446	0131422	084.5078	277.0966	16.0125965300129			
19258U	88	54	A	88182.82279218	.00309628	34236-4	21475-3	0	21
19258	64.7499	110.9008	0123688	83.8524	277.5830	16.01469209			133
19258U	88	54	A	88184.82016197	.00275761	34029-4	17911-3	0	23
19258	64.7531	103.5546	0120166	83.2232	278.2695	16.02917377			165
19258U	88	54	A	88185.19447767	.00360174	34746-4	23012-3	0	24
19258	64.7555	102.1753	0119286	83.1786	278.3910	16.03227252			171
19258U	88	54	A	88185.81815441	.00357013	34177-4	22376-3	0	25
19258	64.7547	99.8777	0118085	82.9357	278.4954	16.03673266			181

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Kosmos 1955

forts. 1

258U	88 54	A	88186.81570830	.00353233	34710-4	21402-3 0	26
258	64.7527		96.1984 0116403	82.5646	278.8013	16.04378406	197
258U	88 54	A	88187.75052750	.00352933	34698-4	20747-3 0	27
258	64.7534		92.7459 0114620	82.5047	278.9454	16.05054654	212
258U	88 54	A	88188.80949415	.00361474	34383-4	20495-3 0	28
258	64.7541		88.8310 0112436	82.1600	279.3408	16.05865068	229
258U	88 54	A	88188.87175013	.00369209	34898-4	20874-3 0	29
258	64.7544		88.6023 0112393	82.1925	279.1806	16.05903399	230
258U	88 54	A	88190.24125890	.00417427	34727-4	22123-3 0	32
258	64.7540		83.5327 0109483	81.8586	279.5833	16.07148322	252
258U	88 54	A	88191.79623246	.00446062	34758-4	22178-3 0	34
258	64.7536		77.7658 0105662	81.3242	280.0772	16.08551368	277
258U	88 54	A	88192.79068705	.00390277	34608-4	18683-3 0	35
258	64.7524		74.0695 0103545	81.4161	279.7477	16.09372167	293
258U	88 54	A	88192.79070860	.00425407	34534-4	20359-3 0	36
258	64.7530		74.0719 0103371	81.0477	280.2424	16.09395277	293

192580	88 54	A	88193.34987640	.00486763	34987-4	22615-3 0	37
19258	64.7523		71.9912 0102130	80.9915	280.3426	16.09929857	302
192580	88 54	A	88193.72253392	.00458785	34514-4	21009-3 0	38
19258	64.7535		70.6051 0101107	81.1208	280.1435	16.10279628	308
192580	88 54	A	88194.03303045	.00598711	34882-4	26768-3 0	39
19258	64.7522		69.4406 0100165	80.9827	280.3547	16.10683429	313
192580	88 54	A	88194.46756973	.00527539	35032-4	23059-3 0	40
19258	64.7528		67.8291 0099172	80.4168	280.7171	16.11119397	320
192580	88 54	A	88194.77791842	.00508743	35000-4	21894-3 0	41
19258	64.7516		66.6725 0098485	80.1829	281.0110	16.11414711	325
192580	88 54	A	88195.46044899	.00536887	34524-4	22375-3 0	42
19258	64.7528		64.1255 0096131	80.2158	281.1180	16.12177529	336
192580	88 54	A	88195.70853284	.00502876	35167-4	20716-3 0	44
19258	64.7523		63.2005 0095549	80.2302	280.9365	16.12414089	340
192580	88 54	A	88197.07244405	.00519270	35254-4	19819-3 0	46
19258	64.7526		58.1050 0092000	79.5897	281.6551	16.13853266	362
192580	88 54	A	88197.32027806	.00501667	35198-4	18871-3 0	47
19258	64.7519		57.1763 0091296	79.6826	281.4981	16.14134923	366
192580	88 54	A	88197.75390946	.00535125	35137-4	19624-3 0	48
19258	64.7515		55.5540 0090085	79.3954	281.7656	16.14609900	373

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Kosmos 1955

forts. 2

9258U	88 54	A	88197.93970789	.00429126	34530-4	19624-3 0	49
9258	64.7515		54.8687 0119609	111.9934	241.9662	16.06814610	376
9258U	88 54	A	88197.94099301	.01213125	34979-4	54772-3 0	50
9258	64.7531		54.8635 0119262	111.8054	249.5745	16.06938032	376
9258U	88 54	A	88198.06550490	.00484227	34654-4	22726-3 0	52
9258	64.7528		54.4020 0121045	112.8238	248.5500	16.06249428	378
9258U	88 54	A	88198.81246952	.00504126	34716-4	22954-3 0	53
9258	64.7533		51.6389 0118940	112.4805	248.8464	16.06971580	390
9258U	88 54	A	88199.43468467	.00528875	34876-4	23534-3 0	54
9258	64.7503		49.3322 0116647	112.3605	249.0946	16.07650834	400
9258U	88 54	A	88199.68347348	.00510464	34949-4	22485-3 0	55
9258	64.7517		48.4097 0115965	112.2257	249.0931	16.07891964	404
9258U	88 54	A	88200.55399707	.00506481	34708-4	21403-3 0	56
9258	64.7509		45.1793 0113567	111.9143	249.4107	16.08784816	418
9258U	88 54	A	88200.86478058	.00511007	34859-4	21270-3 0	57
9258	64.7515		44.0227 0112661	111.6922	249.6481	16.09114279	423
9258U	88 54	A	88200.98907228	.00539355	34420-4	22284-3 0	59
9258	64.7509		43.5588 0112137	111.8838	249.4598	16.09285145	425

19258U	88 54	A	88201.67248599	.00504494	34473-4	20186-3	0	60
19258	64.7494		41.0179 0110102	111.6653	249.6160	16.10010871		436
19258U	88 54	A	88201.79671404	.00644099	35163-4	25538-3	0	61
19258	64.7498		40.5536 0109468	111.3572	249.9550	16.10204665		438
19258U	88 54	A	88202.41763257	.00600371	34965-4	23058-3	0	62
19258	64.7490		38.2443 0107503	111.3284	249.8031	16.10909471		448
19258U	88 54	A	88202.66595571	.00557008	35034-4	21118-3	0	63
19258	64.7499		37.3184 0106857	111.3433	249.8871	16.11170467		452
19258U	88 54	A	88203.65874703	.00602766	34845-4	21665-3	0	64
19258	64.7493		33.6149 0103332	110.7855	250.5918	16.12370681		468
19258U	88054	A	88203.84478681	.00636725	00000-0	00000-0	0	0065
19258	064.7495		032.9242 0110933	110.1770	251.1239	16.1263334500472		
19258U	88 54	A	88204.46475189	.00742052	34895-4	25158-3	0	66
19258	64.7507		30.6039 0100025	110.7158	250.5742	16.13563101		481
19258U	88 54	A	88204.65065464	.00748402	35393-4	24955-3	0	67
19258	64.7497		29.9070 0099421	110.6963	250.4872	16.13842129		484
19258U	88 54	A	88205.02239719	.00852601	34949-4	27486-3	0	68
19258	64.7494		28.5172 0097786	110.6599	250.5748	16.14473971		490
19258U	88 54	A	88205.57971180	.00723637	35520-4	22447-3	0	69
19258	64.7506		26.4287 0095246	110.3173	250.7467	16.15337516		499
19258U	88 54	A	88205.82733962	.00570708	34618-4	22447-3	0	70
19258	64.7513		25.5064 0144896	112.5979	243.9130	16.03242750		503

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Kormos 1955

forts. 3

19258U	88 54	A	88206.45186604	.00587439	34182-4	22436-3	0	71
19258	64.7487		23.2040 0142537	112.1969	249.4986	16.04010165		513
19258U	88 54	A	88206.70122333	.00593705	34825-4	22391-3	0	72
19258	64.7503		22.2846 0141719	112.1431	249.4681	16.04300717		517
19258U	88 54	A	88209.12996512	.00781797	34810-4	25607-3	0	78
19258	64.7488		13.3001 0131998	111.2222	250.5262	16.07615586		556
19258U	88 54	A	88209.68964344	.00801662	34335-4	25582-3	0	79
19258	64.7497		11.2238 0128827	111.0213	250.4725	16.08503788		566
19258U	88 54	A	88210.68392121	.00914682	35188-4	27596-3	0	80
19258	64.7473		7.5239 0123709	110.6460	250.6765	16.10058173		581
19258U	88 54	A	88210.93236830	.00762603	34619-4	22684-3	0	81
19258	64.7484		6.6001 0122557	110.4915	250.9460	16.10431762		595
19258U	88 54	A	88211.49110961	.00774961	35140-4	22234-3	0	82
19258	64.7483		4.5189 0119877	110.2678	251.1558	16.11305196		594
19258U	88 54	A	88212.11157328	.00814864	35319-4	22556-3	0	83
19258	64.7494		2.2031 0116342	110.0536	251.4279	16.12340788		604
19258U	88 54	A	88212.48363653	.00843168	35447-4	22739-3	0	84
19258	64.7488		0.8142 0114306	109.7773	251.6053	16.12983947		610

19258U	88 54	A	88213.35124387	.00852872	35028-4	21557-3 0	85
19258	64.7489	357.5660	0109536	109.7306	251.7030	16.14520239	624
19258U	88 54	A	88213.66087851	.011111729	35375-4	27434-3 0	H7
19258	64.7500	356.4073	0107298	108.7906	252.5238	16.15166573	629
9258U	88 54	A	88214.09416013	.00950139	35445-4	22588-3 0	88
9258	64.7465	354.7802	0105022	108.9040	252.1920	16.15956948	636
9258U	88 54	A	88215.26905553	.00118294	35506-4	31646-4 0	92
9258	64.7393	350.3576	0089026	106.1464	254.3675	16.18257474	655
9258U	88 54	A	88216.62733508	.01517265	36235-4	25605-3 0	96
9258	64.7483	345.2377	0088196	107.6569	253.7335	16.21780346	677
9258U	88 54	A	88216.75059608	.01360719	35443-4	22023-3 0	97
9258	64.7497	344.7715	0087594	107.9399	253.1145	16.22080782	679
9258U	88 54	A	88216.87389210	.01208963	35998-4	18934-3 0	98
9258	64.7497	344.3066	0086737	107.5795	253.4885	16.22403193	681
9258U	88 54	A	88216.87389210	.01208963	35998-4	18934-3 0	99
9258	64.7497	344.3066	0086737	107.5795	253.4885	16.22403193	681
9258U	88 54	A	88217.24363256	.00355066	34593-4	18934-3 0	100
9258	64.7510	342.9305	0108601	143.4520	201.8791	16.07266130	687
9258U	88 54	A	88217.80624147	.00560830	35001-4	28733-3 0	101
9258	64.7483	340.8417	0107519	143.5998	217.4002	16.07853977	696

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Kosmos 1955

Part 4

9258U	88 54	A	88218.17936033	.00627145	35139-4	31664-3 0	102
9258	64.7488		339.4546 0106065	143.4417	217.3732	16.08273303	702
9258U	88 54	A	88218.42807198	.00704273	34546-4	36342-3 0	103
9258	64.7490		338.5404 0103545	143.2269	217.4981	16.08482596	706
19258U	88 54	A	88218.73892041	.00628364	35093-4	31901-3 0	104
19258	64.7491		337.3860 0102349	143.1030	217.7164	16.08892034	711
9258U	88 54	A	88219.17395795	.00518158	34669-4	25983-3 0	105
9258	64.7471		335.7681 0100860	142.9307	217.7594	16.09317054	718
9258U	88 54	A	88219.73315929	.00546438	35083-4	25796-3 0	106
9258	64.7499		333.6836 0100755	143.0321	217.9193	16.09995315	727
19258U	88 54	A	88220.72665563	.00586309	34760-4	26384-3 0	107
19258	64.7474		329.9857 0097276	142.5700	218.2628	16.11138875	743
9258U	88 54	A	88221.71944003	.00605827	35160-4	25943-3 0	108
9258	64.7480		326.2797 0093622	142.1202	218.6486	16.12327490	759
9258U	88 54	A	88222.71148880	.00640016	35457-4	26014-3 0	109
9258	64.7468		322.5734 0089740	141.8835	218.8637	16.13570927	775

19258U	88 54	A	88223.57888744	.00731126	35210-4	27916-3 0	110
19258	64.7464	319.3235	0086282	141.7429	219.1908	16.14831049	789
19258U	88 54	A	88224.75490149	.00752674	35360-4	26401-3 0	111
19258	64.7444	314.9127	0081486	141.5021	219.1384	16.16550696	808
19258U	88 54	A	88225.62065860	.00506468	34291-4	26401-3 0	112
19258	64.7490	311.6759	0149037	128.0997	221.2927	15.99565598	822
19258U	88 54	A	88225.68527628	.01190242	34185-4	26401-3 0	113
19258	64.7432	311.4387	0167934	129.7408	232.5516	16.02617204	823
19258U	88 54	A	88225.68527628	.01190242	34185-4	26401-3 0	114
19258	64.7432	311.4387	0167934	129.7408	232.5516	16.02617204	823
19258U	88 54	A	88226.12182613	.01081566	34320-4	23516-3 0	115
19258	64.7470	309.8305	0164256	129.5681	231.9056	16.03548660	830
19258U	88 54	A	88226.74523430	.01094491	34351-4	22199-3 0	116
19258	64.7429	307.5271	0159246	129.2492	232.3605	16.04986002	840
19258U	88 54	A	88227.55479602	.01277213	34602-4	22945-3 0	117
19258	64.7451	304.5291	0152888	129.1864	232.4831	16.06947369	853
19258U	88 54	A	88227.61699462	.03342234	34917-4	59212-3 0	118
19258	64.7451	304.2987	0152339	129.1616	232.3106	16.07121687	854
19258U	88 54	A	88227.67921344	.01168479	34814-4	19961-3 0	119
19258	64.7423	304.0697	0152782	128.8957	232.5219	16.07185652	855

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Kosmos 1955

font. 5

19258U	88 54	A	88227.86587310	.01228001	34613-4	21290-3	0	120
19258	64.7437		303.3756 0150254	129.0348	232.5096	16.07701603		858
19258U	88 54	A	88228.73613572	.01250187	35207-4	19339-3	0	121
19258	64.7437		300.1437 0142752	128.4555	233.0476	16.09902971		872
19258U	88 54	A	88228.86034548	.01334651	34862-4	20606-3	0	122
19258	64.7419		299.6794 0141077	128.5609	232.8994	16.10291559		874
19258U	88 54	A	88229.72916104	.01328667	35330-4	17674-3	0	123
19258	64.7424		296.4422 0133649	128.0082	233.3664	16.12632076		888
19258U	88 54	A	88230.22506148	.01329058	35580-4	16921-3	0	124
19258	64.7399		294.5850 0128307	127.8128	233.6326	16.14034688		896
19258U	88 54	A	88230.72051125	.01437540	35426-4	16307-3	0	125
19258	64.7399		292.7289 0123984	127.6142	233.8337	16.15529510		904
19258U	88054	A	88231.52605655	.01466687	00000-0	00000-0	0	0128
19258	064.7428		289.7168 0173153	123.7155	238.0479	16.0490027300917		
19258U	88054	A	88231.83753684	.01437248	00000-0	00000-0	0	0129
19258	064.7377		288.5649 0172978	123.8693	237.8895	16.0578379900922		
19258U	88 54	A	88232.70883953	.01378872	34830-4	15461-3	0	130
19258	64.7372		285.3278 0156722	123.9396	237.8852	16.08171251		936

9258U	88	54	A	88233.39244463	.01507330	34941-4	14920-3	0	131
9258	64.7357	282.7841	0150446	123.6681	238.0232	16.10197155	947		
9258U	88	54	A	88233.57871212	.01553267	34971-4	15417-3	0	132
9258	64.7368	282.0925	0147518	123.4338	238.1716	16.10847756	950		

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Kosmos 1956

Upp: 23 juni

Ned: 7 juli

9263U	88 55	A	88175.37710609	.00000815	-55485-5	00000 0 0	1
9263	82.3490		54.4224 0040671	82.9624	277.3470	16.23304864	1
9263U	88055	A	88175.68538060	.00000814	00000-0	00000-0 0 0002	
9263	082.3558		054.0667 0039900	081.8136	278.8328	16.2335940300006	
263U	88055	A	88175.87123248	.00000814	00000-0	00000-0 0 0003	
263	082.3530		053.8633 0134341	050.5425	310.8278	16.0038762200009	
263U	88 55	A	88175.93193216	.00073493	-55603-5	53467-4 0	2
263	82.3615		53.7616 0127381	52.1788	298.7483	16.00301260	10
263U	88 55	A	88176.05878853	.00007457	00000-0	53467-4 0	6
263	82.3725		53.0540 0026267	109.2239	243.5108	15.72994882	12
263U	88 55	A	88176.12376036	.00034738	00000-0	24888-3 0	6
263	82.3699		53.5819 0026668	108.9068	251.5119	15.73008936	13
263U	88 55	A	88178.79559338	.00173048	00000-0	12216-2 0	10
263	82.3699		50.6574 0026645	99.4679	261.0501	15.73035433	55

192630	88	55	A	88178.85918992	-.00010596	00000-0	-76813-4	0	11
19263	82.3720			50.5857	0026423	98.9120	261.4991	15.73005416	56
192630	88	55	A	88178.85918992	-.00010596	00000-0	-76813-4	0	12
19263	82.3720			50.5857	0026423	98.9120	261.4991	15.73005416	56
192630	88	55	A	88179.81342233	.00001598	00000-0	11260-4	0	13
19263	82.3715			49.5406	0026631	95.4611	265.0786	15.73024473	71
192630	88	55	A	88179.81342233	.00001598	00000-0	11260-4	0	14
19263	82.3715			49.5406	0026631	95.4611	265.0786	15.73024473	71
192630	88	55	A	88181.91265631	.00004701	00000-0	33558-4	0	16
19263	82.3704			47.2411	0026534	88.4992	271.9388	15.73043041	104
192630	88	55	A	88187.89220465	.00003972	00000-0	28255-4	0	21
19263	82.3700			40.6899	0026432	67.8003	292.6219	15.73094464	198

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OKEAN 1

Upp: 5 juli fr. Plesetsk

192740	88	56	A	88187.59944654	.00000011	00000-0	00000	0	0	2
19274	82.5185	96.5181	0022203	278.3753	81.4933	14.73255667				3
192740	88	56	A	88243.76759795	.00051230	00000-0	78257-2	0		72
19274	82.5185	44.7117	0025124	95.2436	265.1624	14.73320975				830

88-57A

Kosmos 1957

Upp: 7, juli'

Ned: 27, juli'

19276U	88 57	A	88189.39088895	.00000823	-57043-5	00000 0 0	1
19276	82.5855		73.8713 0034864	96.1364	263.8787	16.25076147	1
9276U	88057	A	88189.82199769	.00161919	00000-0	00000-0 0 0003	
9276	082.5898		073.3766 0034274	094.2862	266.3001	16.2529231900008	
9276U	88057	A	88189.94557819	.00165281	00000-0	00000-0 0 0004	
9276	082.5857		073.2360 0058360	097.6812	263.1758	16.1927044400010	
9276U	88 57	A	88190.13096294	.00027291	00000-0	45721-4 0	5
9276	82.5892		73.0261 0011497	308.0858	44.4706	16.02577282	13
9276U	88 57	A	88190.88155628	.00027358	00000-0	45721-4 0	6
9276	82.5887		72.1949 0011514	305.9746	54.0464	16.02618758	25
19276U	88 57	A	88191.81813616	.00039698	00000-0	65956-4 0	7
19276	82.5888		71.1532 0010865	299.8432	60.1832	16.02704308	40
9276U	88 57	A	88192.87954735	.00032746	00000-0	54257-4 0	8
9276	82.5895		69.9724 0010829	294.2678	65.7474	16.02769285	57

19276U	88 57 A	88193.81604623	.00034758	00000-0	57351-4 0	9
19276	82.5883	68.9313 0010705	289.0771	70.9362	16.02838202	72
19276U	88 57 A	88194.81492845	.00034597	00000-0	56801-4 0	10
19276	82.5873	67.8219 0010759	284.2842	75.7312	16.02922620	88
19276U	88 57 A	88195.81375969	.00039921	00000-0	65150-4 0	11
19276	82.5867	66.7100 0010924	281.9080	78.0923	16.03005494	104
19276U	88 57 A	88197.06223497	.00034372	00000-0	55862-4 0	12
19276	82.5856	65.3208 0011223	274.6252	85.3228	16.03084074	124
19276U	88 57 A	88197.74888206	.00033352	00000-0	54060-4 0	13
19276	82.5855	64.5580 0011375	271.2230	88.7700	16.03127685	135
19276U	88 57 A	88198.81001424	.00035437	00000-0	57162-4 0	14
19276	82.5859	63.3775 0011247	267.8729	92.1563	16.03207274	152
19276U	88 57 A	88199.68384117	.00039681	00000-0	63662-4 0	15
19276	82.5841	62.4059 0011411	262.3940	97.6575	16.03284473	166
19276U	88 57 A	88200.86967827	.00038210	00000-0	60976-4 0	17
19276	82.5857	61.0848 0011505	257.1346	102.8659	16.03374652	185
19276U	88 57 A	88201.68100925	.00025798	00000-0	41114-4 0	18
19276	82.5846	60.1821 0011346	254.9815	105.0286	16.03430604	198

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Photos 1

Uppr 7 juli fr. Baikonur

9281U	88	58	A	88189.82152777	-.00000186	00000-0	00000	0	0	0
9281	50.8034	202.3051	8765244	10.5547	6.5019	0.44066780				0
9283U	88	58	C	88190.09395755	.01028121	58933-4	11637-3	0		3
9283	51.5229	197.7674	0019678	36.3722#323.8664	16.35490183					6

88-59

Phobos 2

Upp: 12 juli fr. Baikonur

19289U	88	59	C	88194.94640410	-.00008608	59433-4	00000	0	0	1
19289	51.5173	194.3009	0027275	24.4715	335.9417	16.35078953				4
19292U	88	59	D	88195.37334548	.07484402	60062-4	35720-3	0		1
19292	51.5526	191.8811	0015624	23.3532	337.1428	16.41480101				11

88-60A

Kosmos 1958

Upp: 14 juli

19320U	88060	A	88196.60400954	.00000000	00000-0	00000-0	0	0001
19320	065.8327	088.6193	0029215	343.9220	016.1062	15.58396464	00002	
19320U	88 60	A	88196.86070559	-.00000156	00000-0	00000	0 0	3
19320	65.8355	87.7729	0030496	335.9952	23.9749	15.58384658		6
19320U	88060	A	88196.73236272	.00000000	00000-0	00000-0	0	0002
19320	065.8373	088.2038	0028774	344.7031	015.3309	15.58402694	00004	
19320U	88 60	A	88247.20830882	.00030865	00000-0	36366-3	0	21
19320	65.8317	280.9496	0034430	307.2839	53.3620	15.60516977		791

88-61A

Progress 37

Lpp: 18, 21

19322U	88	61	A	88201.12316303	-.00008302	57422-4	00000	0	0	2
19322	51.6193	263.6528	0051962	81.8235	278.9372	16.19273104				4
19322U	88	61	A	88201.24657673	-.00008277	57253-4	00000	0	0	3
19322	51.6156	263.0083	0050636	85.0990	275.5965	16.19269197				6
19322U	88	61	A	88201.30828696	.00992449	57042-4	39666-3	0		4
19322	51.6158	262.6684	0050636	85.3525	275.3481	16.19430585				7
19322U	88	61	A	88201.61675626	.00498683	56868-4	19861-3	0		5
19322	51.6189	260.9770	0049487	86.6115	273.8453	16.19709582				12
9322U	88	61	A	88202.11028353	.00120487	14928-4	19861-3	0		6
9322	51.6150	258.2888	0063006	188.6196	160.7356	15.98911478				20
19322U	88	61	A	88202.73708844	.00137780	16879-4	22189-3	0		7
19322	51.6179	254.9486	0064276	190.8752	169.1261	15.99084627				30
19322U	88	61	A	88202.92455484	.00068011	67874-5	22189-3	0		8
19322	51.6007	253.9639	0057389	188.2286	169.7072	15.87769111				33

193220	88	61	A	88208.25496144	.00032672	00000-0	22189-3	0	14
19322	51.6090	226.5341	0006176	161.1861	198.0101	15.74607602	117		
193220	88	61	A	88214.66434308	.00033175	00000-0	22187-3	0	21
19322	51.6226	193.5822	0004549	178.1703	181.8784	15.74967098	218		
193220	88	61	A	88215.36229681	.00033247	00000-0	22187-3	0	22
19322	51.6176	189.9905	0005338	185.2966	174.7974	15.75013342	229		
193220	88	61	A	88218.91562669	.00032848	00000-0	22187-3	0	25
19322	51.6168	171.7183	0003579	219.2087	140.4893	15.74748263	285		
193220	88	61	A	88220.82221745	.00028268	00000-0	22187-3	0	27
19322	51.6140	161.9462	0020623	271.8626	88.1422	15.71026608	315		
193220	88	61	A	88223.93888562	.00028424	00000-0	22187-3	0	30
19322	51.6230	146.0002	0018317	283.2713	76.6078	15.71217231	364		

88-62A

Kosmos 1959

Upp: 18,261'

19324U	88	62	A	88201.21351070	.00000006	00000-0	00000	0	0	3
19324	82.9502	301.8922	0032960	285.3241	74.4248	13.74905009				4
19324U	88	62	A	88202.74174889	.00003309	00000-0	34483-2	0		7
19324	82.9526	300.7611	0033052	280.6071	79.1392	13.74909045				25

88-63B

ECS 5

Upp = 21 juli M. Kokroa (Ar. 3-8)

19331U	88	63	B	88225.08578984	.00000153	00000-0	00000	0	0	5
19331				0.0652 184.5237 0010083	315.5574	219.9839	1.00774126			20
19331U	88	63	B	88228.05622976	.00000133	00000-0	99999-4	0		7
19331				0.0825 221.1872 0005503	207.4175	291.4459	1.00261007			0

88-63A

Insat 1C

Upp: 21 juli fr. Kourou (Ar. 7-8)

9330U	88	63	A	88221.85942496	-.00000248	00000-0	99999-4	0	6	
9330				0.1818	254.0687	0013099	138.5627	327.4415	1.00361172	0
9330U	88	63	A	88219.88542166	-.00000068	00000-0	99999-4	0	5	
9330				0.1762	225.9330	0025555	54.7995	79.0307	0.99991169	15
19332U	88	63	C	88204.89999998	.00000227	00000-0	99999-4	0	1	
19332				7.2760	100.3410	7295033	179.4200	29.3050	2.25496115	0
9335U	88	63	D	88205.51269801	.00000774	00000-0	99999-4	0	3	
9335				7.0022	100.3560	7295182	179.5315	179.8818	2.28167462	2

88-64A

Meteor 3-02

Hpp: 26 juli fr. Plestik

9336U	88	64	A	88208.27090531	.00000005	00000-0	00000	0	0	1
9336	82.5590	46.1920	0015284	279.0844	80.9439	13.16698760				0
9336U	88	64	A	88208.65080731	.00000391	00000-0	99999-3	0		4
9336	82.5430	45.9236	0014807	276.3084	83.6276	13.16761278				5

88-65A

Kosmos 1960

19338U	88	65	A	88210.59248658	-.00000101	00000-0	00000	0	0	1
19338	65.8419	97.3847	0029160	345.9592	14.2500	15.24319086				1
9338U	88	65	A	88214.72581161	.00003744	00000-0	15831-3	0		6
9338	65.8395	84.3983	0029352	344.2406	15.7737	15.24379113				65

88-66A

Kosmos 1961

Upp: Taus. N-Baikoner

9344U	88 00	A	88214.64885125	-.00000007	00000-0	99999-4 0	1.
9344	1.4719	276.6021	0022172	273.4195	86.8533	0.98425367	0
9344U	88 66	A	88215.65269088	.00000004	00000-0	99999-4 0	3
9344	1.4890	276.7145	0023397	273.6971	82.1909	0.98423881	1
9344U	88 66	A	88215.66051288	.00000005	00000-0	99999-4 0	2
9344	1.5027	275.5862	0023487	274.4724	85.4547	0.98454804	1
9344U	88 66	A	88217.69596418	.00000013	00000-0	99999-4 0	4.
9344	1.4809	276.9900	0023372	273.9876	85.6186	0.98423269	3
9344U	88 66	A	88242.86226113	-.00000082	00000-0	99999-4 0	20
9344	1.4216	276.5453	0001652	340.9328	17.2052	1.00272210	28
9345U	88 66	B	88215.72758140	.02293121	59083-4	34639-3 0	3
9345	51.6206	271.4505	0005411	217.7526	142.3634	16.33464165	15
9348U	88 66	E	88216.27358187	.00000032	00000-0	99999-4 0	2
9348	47.3967	275.5917	7270897	0.1596	0.1313	2.23412005	4

19349U	88	66	F	88214.93158028	.00000297	00000-0	99999-4	0	0
19349	48.6846	275.9244	7310659	359.8344	0.1801	2.24194102			1

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Kina 23

Upp: Saugusti kl. 0730 UT
från Jiuquan Sat. Launch Centre.

Ned: 13 aug.

9368U	88 67	A	88218.41644002	-.00000654	00000-0	00000 0 0	1
9368	63.0213		13.8021 0080538	148.5301	211.0514	16.05480824	1
9368U	88 67	A	88218.41661635	-.00000659	00000-0	00000 0 0	2
9368	63.0120		13.7938 0081244	149.3064	211.2968	16.05403253	1
9368U	88 67	A	88218.54119146	.00373310	12570-4	32951-3 0	3
9368	63.0176		13.3077 0078792	151.3878	209.4088	16.06013394	3
9368U	88 67	A	88218.60341267	.00374467	12694-4	32951-3 0	4
9368	63.0189		13.0634 0078757	151.3872	209.1632	16.06060609	4
9368U	88 67	A	88218.79019286	.00377377	12652-4	32951-3 0	5
9368	63.0188		12.3253 0078704	151.6644	208.8724	16.06170401	7
9368U	88 67	A	88219.41273450	.00382919	12656-4	32951-3 0	6
9368	63.0163		9.8761 0078254	151.5532	208.9073	16.06429641	17
9368U	88 67	A	88219.72396822	.00297365	12473-4	25754-3 0	7
9368	63.0170		8.6483 0077240	151.2948	209.1077	16.06525350	22

19368U	88 67	A	88220.15967048	.00253309	12827-4	21995-3 0	8
19368	63.0152		6.9341 0076123	151.3838	209.0408	16.06683632	29
19368U	88 67	A	88220.78201432	.00198264	12883-4	16989-3 0	9
19368	63.0160		4.4834 0076063	151.4575	208.9538	16.06916009	39
19368U	88 67	A	88221.77758582	.00204740	13053-4	17196-3 0	10
19368	63.0163		0.5591 0075077	151.5741	208.9514	16.07321546	55
19368U	88 67	A	88222.83507865	.00207276	13402-4	17087-3 0	11
19368	63.0164		356.3871 0073752	151.5259	208.9833	16.07761848	72
19368U	88 67	A	88223.51918551	.00220784	13183-4	17944-3 0	12
19368	63.0164		353.6905 0072710	151.5188	209.0606	16.08084792	83
19368U	88 67	A	88225.19773460	.00240913	13097-4	19040-3 0	14
19368	63.0165		347.0604 0069633	151.7089	208.7716	16.08876320	110
19368U	88 67	A	88225.32204264	.00157032	13255-4	12483-3 0	15
19368	63.0135		346.5698 0069519	151.6941	208.7933	16.08912736	112
19368U	88 67	A	88225.75709229	.00227301	13579-4	17642-3 0	17
19368	63.0176		344.8507 0069655	151.5452	209.0132	16.09126368	119

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Upp: 8 aug

Ned: 22 aug.

372U	88	68	A	88221.44930839	-.00000327	00000-0	00000	0	0	1
372	70.0297	140.7840	0045237	56.6293	303.9429	16.13283380				1
372U	88	68	A	88221.44930516	-.00000321	00000-0	00000	0	0	2
372	70.0109	140.7798	0045237	56.6335	303.6766	16.12133722				1
372U	88	68	A	88221.57344510	-.00000326	00000-0	00000	0	0	3
372	70.0029	140.3921	0048881	58.2864	302.2919	16.12115453				3
372U	88	68	A	88221.75959734	-.00000735	00000-0	-30692-6	0	0	4
372	70.0099	139.8422	0049420	59.2457	301.3395	16.12096474				6
372U	88	68	A	88221.88370195	-.11299380	00000-0	-87672-2	0	0	5
372	70.0060	139.4678	0049715	57.3141	303.3047	16.11669834				8
372U	88	68	A	88221.94574871	.00110524	00000-0	88514-4	0	0	6
372	70.0085	139.2625	0052668	56.3473	304.0074	16.10942192				9

9372U	88 68	A	88222.13207695	.00072424	00000-0	88514-4 0	7
9372	70.0148	138.7336	0040803	78.9453	279.9816	16.05831867	12
9372U	88 68	A	88223.50271260	.00079053	00000-0	94986-4 0	8
9372	70.0129	134.6736	0041408	75.4516	285.0398	16.06022071	34
9372U	88 68	A	88224.81064804	.00054896	00000-0	65781-4 0	9
9372	70.0130	130.7968	0041002	72.3806	288.1805	16.06182135	55
9372U	88 68	A	88225.55797691	.00113944	94692-5	13751-3 0	10
9372	70.0133	128.5815	0040783	69.8677	290.7853	16.06324279	67
9372U	88 68	A	88225.80704962	.00070420	00000-0	83325-4 0	11
9372	70.0140	127.8444	0040808	70.7109	289.8127	16.06336691	71
9372U	88 68	A	88226.80337881	.00074294	00000-0	87090-4 0	12
9372	70.0141	124.8902	0040559	68.4942	292.1070	16.06490474	87
9372U	88 68	A	88227.79959525	.00074064	00000-0	86032-4 0	13
9372	70.0143	121.9363	0040453	66.4312	294.1283	16.06639496	103
19372U	88 68	A	88228.79572533	.00073516	00000-0	84641-4 0	14
19372	70.0141	118.9824	0040345	64.5281	296.0194	16.06786537	119
19372U	88 68	A	88228.79572533	.00073516	00000-0	84641-4 0	15
19372	70.0141	118.9824	0040345	64.5281	296.0194	16.06786537	119
19372U	88 68	A	88229.79176531	.00072027	00000-0	82263-4 0	16
19372	70.0137	116.0279	0040156	62.9201	297.6144	16.06930000	135
19372U	88 68	A	88230.72547367	.00063413	00000-0	72226-4 0	17
19372	70.0130	113.2589	0039679	61.1692	299.3013	16.07040492	150

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parts.1

9372U	88 68	A	88232.77941783	.00017458	00000-0	19958-4 0	19
9372	70.0119		107.1582 0039344	56.9665	303.5788	16.07286386	183
9372U	88 68	A	88233.33953087	.00061250	00000-0	68354-4 0	20
9372	70.0091		105.4943 0039214	55.8728	304.7600	16.07398298	192
9372U	88 68	A	88233.77512140	.00068857	00000-0	76419-4 0	21
9372	70.0114		104.2039 0039246	55.1494	305.3338	16.07454647	199

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Molniya 1-73

Upp: 12 aug.

9377U	88	69	A	88225.58832384	.00000013	00000-0	99999-4	0	1
9377	62.8829	104.3208	7427222	288.4244	9.1237	1.95199084			0
19377U	88	69	A	88238.19261798	.00000708	00000-0	24336-2	0	16
19377	62.8873	102.3356	7379786	288.5417	9.3301	2.00604153			25

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Lpp: 16 aus.

19384U	88 70	A	88229.59858305	-.00004922	33930-4	00000 0 0	1
19384	64.7732	195.5358	0131400	62.6775	298.6157	16.03433951	1
19384U	88 70	A	88229.66098021	.01263243	34602-4	56681-3 0	2
19384	64.7697	195.2925	0136231	62.2927	299.1971	16.03648289	2
19384U	88 70	A	88229.78570016	.00539233	34314-4	23985-3 0	3
19384	64.7701	194.8312	0136374	62.2432	299.2395	16.03761471	4
19384U	88 70	A	88229.78570016	.00539233	34314-4	23985-3 0	4
19384	64.7701	194.8312	0136374	62.2432	299.2395	16.03761471	4
19384U	88 70	A	88231.21929394	.00380153	34330-4	16251-3 0	8
19384	64.7699	189.5436	0131546	62.0795	299.3379	16.05172059	27
19384U	88 70	A	88231.96673863	.00497472	34590-4	20453-3 0	10
19384	64.7676	186.7824	0129419	61.7625	299.6373	16.05960450	39
19384U	88 70	A	88232.77607225	.00537570	34760-4	21405-3 0	11
19384	64.7672	183.7893	0126426	61.5945	300.0007	16.06871440	52

9384U	88	70	A	88233.08718645	.00715275	34530-4	27789-3	0	12
9384	64.7660	182.6356	0125496	61.7865	299.6357	16.07278565			57
9384U	88	70	A	88233.52265176	.00731597	35109-4	27789-3	0	13
9384	64.7647	181.0241	0124037	61.5658	299.7457	16.07792059			64
9384U	88	70	A	88233.77143540	.00618416	34728-4	23184-3	0	14
9384	64.7661	180.1015	0123247	61.5227	299.7905	16.08090819			68
9384U	88	70	A	88233.77143540	.00618416	34728-4	23184-3	0	15
9384	64.7661	180.1015	0123247	61.5227	299.7905	16.08090819			68
9384U	88	70	A	88234.76608888	.00620530	35027-4	21963-3	0	16
9384	64.7666	176.4103	0119772	61.0539	300.2918	16.09345102			84
19384U	88	70	A	88235.51155838	.00648774	35003-4	21963-3	0	17
19384	64.7658	173.6388	0116906	60.7527	300.6506	16.10341141			96
19384U	88	70	A	88235.88409582	.00553297	34432-4	18416-3	0	18
19384	64.7631	172.2468	0115160	61.4744	299.8843	16.10860386			102
19384U	88	70	A	88236.31859308	.00708723	34981-4	22632-3	0	19
19384	64.7665	170.6302	0113685	61.2969	300.1423	16.11531398			109
19384U	88	70	A	88236.69083949	.00704792	35211-4	22162-3	0	20
19384	64.7651	169.2442	0111769	61.0627	300.1640	16.12055567			115
9384U	88	70	A	88237.93083248	.00846889	35186-4	24352-3	0	23
9384	64.7650	164.6091	0106098	61.1799	300.0815	16.13999471			135

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Part 1

9384U	88	70	A	88237.74492135	.00740719	35074-4	21340-3	0	22
9384	64.7646	165.3086	0107788	60.7689	300.4035	16.13661345			132
9384U	88	70	A	88238.11668476	.00649127	34725-4	24352-3	0	24
9384	64.7692	163.9213	0138033	71.9632	285.6520	16.05100598			138
9384U	88	70	A	88239.23843868	.00728316	34747-4	26568-3	0	25
9384	64.7652	159.7736	0132307	71.5365	290.1391	16.06528910			156
9384U	88	70	A	88239.54962148	.00681684	34421-4	24476-3	0	26
9384	64.7642	158.6223	0131064	71.3054	290.1865	16.06937931			161
9384U	88	70	A	88240.79364569	.00703017	34200-4	23391-3	0	27
9384	64.7618	154.0113	0125946	70.7805	290.7730	16.08699407			181
9384U	88	70	A	88242.40866961	.00792649	35309-4	23376-3	0	30
9384	64.7646	148.0061	0118661	70.7235	290.8094	16.11292661			207
9384U	88	70	A	88243.21515968	.00910586	35126-4	25065-3	0	32
9384	64.7625	144.9975	0114520	70.6936	290.7896	16.12749378			220
9384U	88	70	A	88243.52513024	.00870207	35220-4	23346-3	0	33
9384	64.7633	143.8410	0113004	70.4448	290.8661	16.13288902			225

19384U	88 70	A	88243.58712089	.00892261	35405-4	23606-3	0	34
19384	64.7616	143.6102	0113000	70.4573	290.8827	16.13416477		226
19384U	88 70	A	88243.77305234	.00772795	35532-4	20309-3	0	35
19384	64.7632	142.9143	0111879	70.6154	290.6965	16.13708459		229
19384U	88 70	A	88244.08287199	.00987596	35587-4	25195-3	0	36
19384	64.7635	141.7528	0109900	70.7242	290.7004	16.14357428		234
19384U	88 70	A	88244.08287199	.00987596	35587-4	25195-3	0	37
19384	64.7635	141.7528	0109900	70.7242	290.7004	16.14357428		234
19384U	88 70	A	88245.25905128	.00973867	34931-4	21940-3	0	39
19384	64.7609	137.3417	0103391	70.3722	291.0550	16.16756060		253
19384U	88070	A	88245.38273533	.01081727	00000-0	00000-0	0	0040
19384	064.7601	136.8712	0110887	070.7336	290.5707	16.1702910700255		
19384U	88 70	A	88245.93909884	.00532634	34715-4	24160-3	0	41
19384	64.7662	134.7874	0126031	93.4495	266.0216	16.05622384		264
19384U	88 70	A	88246.56213833	.00854114	34590-4	36961-3	0	42
19384	64.7598	132.4851	0123135	93.1088	268.5223	16.06641463		274
19384U	88 70	A	88246.81106839	.00837307	34435-4	35676-3	0	43
19384	64.7602	131.5627	0121860	92.9713	268.5241	16.07052058		278
19384U	88 70	A	88247.18437480	.00890380	34555-4	36704-3	0	44
19384	64.7588	130.1773	0119826	93.0384	268.5660	16.07784847		284
19384U	88 70	A	88247.74398956	.00906389	34636-4	35803-3	0	45
19384	64.7582	128.1006	0116787	92.8047	268.6766	16.08810556		293

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9384U	88 70	A	88248.61381497	.00981050	35025-4	35803-3 0	46
9384	64.7599	124.8692	0112102	92.4309	269.1479	16.10512196	307
9384U	88 70	A	88249.11039843	.00724341	35267-4	25672-3 0	47
9384	64.7587	123.0198	0110181	92.1963	268.8557	16.11193058	315
19384U	88 70	A	88249.60690001	.00743371	34587-4	25465-3 0	48
19384	64.7591	121.1693	0108181	92.0314	269.2991	16.11912631	323
9384U	88 70	A	88249.79301406	.00697017	35137-4	23704-3 0	49
9384	64.7590	120.4749	0107356	91.9564	269.3569	16.12147769	326
19384U	88 70	A	88250.78511673	.00739676	35268-4	23163-3 0	50
19384	64.7589	116.7690	0103633	91.5178	270.0708	16.13664413	342
9384U	88 70	A	88250.90900989	.00554106	34521-4	23163-3 0	51
9384	64.8196	116.3180	0141606	108.6511	248.7996	16.03323411	344
9384U	88 70	A	88250.97211243	.00587231	34226-4	32698-3 0	52
9384	64.7614	116.0803	0126384	110.0224	251.8098	16.03355207	345
19384U	88 70	A	88251.53329388	.00428183	34319-4	23403-3 0	53
19384	64.7537	114.0135	0124982	109.5978	251.6942	16.03864271	354
19384U	88 70	A	88251.78272196	.00497323	34750-4	26897-3 0	54
19384	64.7631	113.0938	0124333	109.4983	251.9560	16.04088865	358

19384U	88	70	A	88253.71426087	.00497350	34368-4	24515-3	0	50
19384	64.7583	105.9586		0119457	108.9035	252.6633	16.06031792		389
19384U	88	70	A	88254.39905003	.00556806	34927-4	26314-3	0	57
19384	64.7570	103.4235		0117826	108.7330	252.7739	16.06784781		400
19384U	88	70	A	88254.39903154	.00524917	34614-4	24826-3	0	58
19384	64.7575	103.4247		0117844	108.7594	252.6405	16.06777983		400
19384U	88	70	A	88254.71020127	.00589561	34272-4	27436-3	0	59
19384	64.7565	102.2677		0117037	108.4165	252.9572	16.07092953		405
19384U	88	70	A	88255.70548720	.00598458	34589-4	26388-3	0	60
19384	64.7571	98.5824		0113655	108.0579	253.3791	16.08308314		421
19384U	88	70	A	88255.89200392	.00581776	34855-4	25045-3	0	61
19384	64.7574	97.8892		0113255	108.5690	252.8718	16.08638833		424
19384U	88	70	A	88256.38924463	.00742327	35106-4	30851-3	0	62
19384	64.7554	96.0422		0111151	108.1095	253.3743	16.09387935		432
19384U	88	70	A	88256.63774665	.00701555	35006-4	28681-3	0	63
19384	64.7553	95.1206		0110384	108.3775	252.8967	16.09708367		436
19384U	88	70	A	88257.63135148	.00596116	35012-4	23011-3	0	64
19384	64.7572	91.4207		0106776	107.4529	253.6789	16.10996397		452
19384U	88	70	A	88257.87966467	.00781594	35244-4	29483-3	0	66
19384	64.7582	90.4959		0105912	107.3526	253.9957	16.11375442		456
19384U	88	70	A	88258.74816042	.00684141	35065-4	24381-3	0	67
19384	64.7568	87.2574		0102605	107.1871	253.8221	16.12584495		470

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9384U	88 70	A	88259.18223318	.00712728	35147-4	24540-3 0	68
9384	64.7566		85.6341 0100923	106.7353	254.5778	16.13243510	477
9384U	88 70	A	88259.67803529	.00720739	35117-4	23976-3 0	69
9384	64.7569		83.7828 0098845	106.5628	254.6737	16.13975590	485
9384U	88 70	A	88259.80194844	.01135259	35763-4	23976-3 0	70
9384	64.7517		83.3134 0074481	124.3813	240.3715	16.22723941	487
9384U	88 70	A	88260.47876084	.01360901	35914-4	24352-3 0	72
9384	64.7563		80.7442 0071547	124.4009	236.5229	16.24730550	498
9384U	88 70	A	88260.66336754	.01357989	36163-4	23452-3 0	73
9384	64.7565		80.0423 0070478	124.4390	236.3456	16.25231627	501
9384U	88 70	A	88261.46270262	.01842210	36606-4	24633-3 0	75
9384	64.7556		76.9979 0064118	124.5810	236.3679	16.27894163	514
9384U	88 70	A	88261.64692350	.01867407	36367-4	22712-3 0	76
9384	64.7565		76.2956 0062618	124.4304	236.2903	16.28595273	517
9384U	88 70	A	88261.83110127	.00666264	34905-4	22712-3 0	77
9384	64.7550		75.6203 0138155	93.0607	253.3508	16.05989278	520
9384U	88 70	A	88262.39404915	.00686959	34483-4	22712-3 0	78
9384	64.7507		73.5293 0134296	90.9197	271.0399	16.07065990	529

19384U	88 70	A	88262.58066843	.00902806	34737-4	28569-3 0	79
19384	64.7545		72.8374 0134526	91.0271	270.6619	16.07412708	532
19384U	88 70	A	88263.07824607	.00920435	35034-4	28224-3 0	80
19384	64.7539		70.9890 0131190	91.1379	270.5991	16.08387541	540
19384U	88 70	A	88263.07824607	.00920435	35034-4	28224-3 0	81
19384	64.7539		70.9890 0131190	91.1379	270.5991	16.08387541	540
9384U	88 70	A	88264.07249857	.01063921	35140-4	30055-3 0	82
9384	64.7538		67.2950 0124777	90.5347	271.3644	16.10441860	556
9384U	88 70	A	88264.69316407	.01006515	35258-4	27174-3 0	83
9384	64.7530		64.9824 0120739	90.1942	271.1601	16.11675004	566
9384U	88 70	A	88265.43745035	.01036671	35586-4	26013-3 0	84
9384	64.7513		62.2022 0116212	89.7883	271.7611	16.13245952	578
9384U	88 70	A	88266.24288467	.01106807	35302-4	25879-3 0	86
9384	64.7521		59.1871 0110381	89.2465	272.2879	16.15039354	591
9384U	88070	A	88266.67616745	.01239644	00000-0	00000-0 0	0087
9384	064.7514		057.5644 0115805	089.7034	271.7298	16.1614617100598	
9384U	88 70	A	88270.03679905	.00735451	35204-4	29208-3 0	92
9384	64.7527		45.1136 0115974	109.4374	251.8758	16.08927145	652
9384U	88 70	A	88270.72024539	.00841198	34988-4	32161-3 0	93
9384	64.7548		42.5739 0111918	109.2367	251.8423	16.10088072	663
9384U	88 70	A	88271.65151507	.00846888	34599-4	30138-3 0	94
9384	64.7526		39.1043 0107471	108.5512	252.6947	16.11661152	678

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Kosmos 1963

forts. 4

9384U	88 70	A	88272.70581018	.00893939	34978-4	29672-3 0	95
9384	64.7495		35.1629 0100961	107.9523	253.4771	16.13587104	695
9384U	88 70	A	88272.82972063	.00695882	34785-4	29672-3 0	96
9384	64.7525		34.7104 0128013	116.7168	241.6315	16.05843433	697
9384U	88 70	A	88273.70181273	.00760510	34689-4	30632-3 0	97
9384	64.7502		31.4819 0124526	116.0956	245.3543	16.07105019	711
9384U	88 70	A	88273.76403061	.00695650	34929-4	27976-3 0	98
9384	64.7508		31.2496 0124182	116.2089	245.1974	16.07195429	712
9384U	88 70	A	88274.38610112	.00778126	34692-4	30077-3 0	99
9384	64.7503		28.9428 0121200	115.9252	245.5696	16.08173966	722
9384U	88 70	A	88275.75321449	.00852622	34432-4	29963-3 0	101
9384	64.7496		23.8613 0113799	115.4046	246.1187	16.10564231	744
9384U	88 70	A	88275.75321449	.00852622	34432-4	29963-3 0	102
9384	64.7496		23.8613 0113799	115.4046	246.1187	16.10564231	744
9384U	88 70	A	88275.87735544	.00802758	35398-4	27915-3 0	103
9384	64.7492		23.3990 0113257	115.2144	246.0825	16.10778408	746

9384U	88	70	A	88276.00151879	.00373816	35376-4	13018-3	0	104
9384	64.7493	22.9347	0112346	114.9448	246.3571	16.11012070			748
19384U	88	70	A	88276.31187832	.00886866	34998-4	29783-3	0	105
19384	64.7489	21.7791	0110807	114.8482	246.6408	16.11590419			753
9384U	88	70	A	88276.74611656	.00964987	35106-4	30840-3	0	106
9384	64.7509	20.1586	0108729	114.7360	246.6128	16.12471547			760

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Horizont 16

Upp: 18 aug. fr. Baikonur

9397U	88	71	A	88231.60931322	-.00000218	00000-0	99999-4	0	1
9397				1.4898 277.0410 0011106	54.6949	305.1225	1.00327015		50
9397U	88	71	A	88236.59767471	.00000022	00000-0	99999-4	0	7
9397				1.4437 277.7184 0025303	268.3404	91.1791	0.99352771		6
9397U	88	71	A	88254.57425685	-.00000107	00000-0	99999-4	0	21
9397				1.4012 276.9261 0007964	283.2472	76.1423	1.00280094		24
9398U	88	71	B	88232.06537432	.01710601	58439-4	35588-3	0	2
9398				51.6268 273.5582 0006871	151.6804	208.5230	16.30220342		4
9399U	88	71	C	88232.00407821	.08734011	58494-4	21068-2	0	1
9399				51.6129 273.9318 0017868	117.6648	240.7445	16.28146712		3
9400U	88	71	D	88231.61101859	-.00000262	00000-0	99999-4	0	1
9400				1.4959 277.4155 0022853	16.6387	343.1537	1.00531075		50
9401U	88	71	E	88232.76071358	.00000123	00000-0	99999-4	0	2
9401				47.4006 274.4651 7266162	0.0070	0.1777	2.27424316		2

19402U	88	71	F	88232.32160508	.00000042	00000-0	99999-4	0	1
19402	47.4771	274.5366	7246219	359.9217	0.3430	2.27023139			0

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Kosmos 1964

Upp: 23 aug.

Ned: 7 sept 88

19412U	88 72	A	88236.44587765	-.00000328	00000-0	00000 0 0	1
19412	70.0115	154.2895	0048578	60.3817	300.2167	16.12050994	0
19412U	88 72	A	88238.87297821	.00118644	98471-5	14511-3 0	8
19412	69.9992	147.0739	0041161	73.7678	286.7967	16.06076989	40
19412U	88 72	A	88239.05982585	.00188722	19847-4	22904-3 0	9
19412	70.0015	146.5206	0040914	73.7095	286.8886	16.06167217	43
19412U	88 72	A	88239.55802667	.00077202	00000-0	91823-4 0	10
19412	70.0020	145.0477	0041185	73.1134	287.2804	16.06203294	51
19412U	88 72	A	88240.80354350	.00065428	00000-0	77152-4 0	11
19412	70.0036	141.3501	0040962	69.9456	290.6469	16.06394903	71
19412U	88 72	A	88241.55076230	.00085233	70236-5	10174-3 0	12
19412	70.0027	139.1340	0040809	68.0378	292.6082	16.06542262	83
19412U	88 72	A	88241.79980256	.00059391	00000-0	69649-4 0	13
19412	70.0018	138.3951	0040285	68.7456	291.7935	16.06556844	87

19412U	88 72	A	88242.42243336	.00075189	00000-0	87059-4 0	14
19412	70.0026		136.5484 0040495	66.9850	293.6450	16.06681456	97
19412U	88 72	A	88243.79203951	.00053808	00000-0	61814-4 0	16
19412	70.0003		132.4850 0040239	64.5312	296.0929	16.06897032	115
19412U	88 72	A	88244.53901883	.00098502	80673-5	11398-3 0	17
19412	69.9978		130.2675 0040031	62.8480	297.8216	16.07054032	131
19412U	88 72	A	88244.78797069	.00079112	00000-0	89652-4 0	18
19412	70.0012		129.5285 0039570	61.9420	298.5532	16.07076454	135
19412U	88 72	A	88246.77953756	.00090292	00000-0	99684-4 0	20
19412	70.0001		123.6140 0039499	59.4743	300.9690	16.07445355	167
19412U	88 72	A	88247.71294813	.00088647	00000-0	96998-4 0	21
19412	69.9990		120.8409 0039219	57.1147	303.3849	16.07609428	182
19412U	88 72	A	88248.52181825	.00089544	00000-0	96998-4 0	22
19412	69.9991		118.4357 0039191	55.4891	305.0325	16.07760949	195
19412U	88 72	A	88249.82828897	.00084698	00000-0	90850-4 0	23
19412	70.0006		114.5504 0038410	53.1846	307.2982	16.07989386	216

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Kosmos 1965

Upp: 23 aug

Ned: 22 sept.

19414U	88 73	A	88241.80261742	.00063125	87226-6	10188-3 0	17
19414	82.3201	161.0145	0015101	275.1240	84.8106	16.03155312	86
19414U	88 73	A	88242.42680080	.00035363	00000-0	56472-4 0	18
19414	82.3255	160.2945	0015098	272.6627	87.3787	16.03268382	96
19414U	88 73	A	88243.48778086	.00093207	29140-5	14791-3 0	20
19414	82.3245	159.0697	0014428	265.3462	94.7175	16.03486378	113
19414U	88 73	A	88243.79979104	.00023656	00000-0	37316-4 0	21
19414	82.3232	158.7119	0014658	264.4879	95.4695	16.03513595	118
19414U	88 73	A	88244.54865056	.00065300	11006-5	10234-3 0	22
19414	82.3234	157.8486	0014749	260.4118	99.7778	16.03666286	130
19414U	88 73	A	88244.79820766	.00053326	00000-0	82846-4 0	23
19414	82.3212	157.5625	0014608	260.1009	99.8800	16.03697819	134

19414U	88	73	A	88245.23498737	-.00925737	00000-0	-17437-2	0	24
19414	82.3197	157.0587	0015202	257.8942	102.1661	16.03784014			141
19414U	88	73	A	88245.35977055	.00182456	13569-4	28378-3	0	25
19414	82.3203	156.9132	0014783	259.3630	100.6644	16.03842525			143
19414U	88073	A	88245.48455514	.00092600	00000-0	00000-0	0	0026	
19414	082.3224	156.7689	0015175	258.3877	101.6344	16.0385661400145			
19414U	88	73	A	88245.98367275	.00101929	36468-5	15711-3	0	27
19414	82.3210	156.1954	0014832	255.4468	104.5691	16.03964985			153
19414U	88	73	A	88246.10843881	.00093809	28631-5	15711-3	0	28
19414	82.3223	156.0525	0015839	275.5772	84.0682	16.02532454			155
19414U	88	73	A	88246.77534473	.00094272	29278-5	15711-3	0	29
19414	82.3206	155.2633	0015596	273.4492	86.4136	16.02624434			166
19414U	88	73	A	88247.73191017	.00089375	26127-5	14751-3	0	30
19414	82.3210	154.1815	0015408	269.5424	90.3970	16.02793316			181
19414U	88	73	A	88248.60594006	.00090202	27429-5	14751-3	0	31
19414	82.3197	153.1767	0015463	266.0978	93.8436	16.02950281			195
19414U	88	73	A	88249.85440389	.00087337	23879-5	14089-3	0	32
19414	82.3186	151.7402	0015786	259.8008	100.1068	16.03161947			215
19414U	88	73	A	88250.85306534	.00090427	28078-5	14448-3	0	33
19414	82.3203	150.5869	0015438	256.2014	103.7731	16.03345054			231

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9414U	88 73	A	88253.75306885	- .00091884	00000-0	-65352-3 0	39
9414	82.3197	147.3263	0011043	286.0169	73.6991	15.74241491	277
19414U	88 73	A	88256.74053004	.00017710	00000-0	12191-3 0	46
19414	82.3216	144.0257	0010964	272.0310	88.0636	15.74375634	324
19414U	88 73	A	88257.75745409	.00006320	00000-0	43421-4 0	47
19414	82.3198	142.9044	0011240	267.3735	92.5946	15.74391186	340
9414U	88 73	A	88258.07525423	.00010424	00000-0	71601-4 0	49
9414	82.3235	142.5556	0011401	266.6694	93.3578	15.74424876	345
9414U	88 73	A	88258.77437839	.00012557	00000-0	86271-4 0	50
9414	82.3208	141.7799	0010976	261.5711	98.3939	15.74427728	356
9414U	88 73	A	88259.72773910	.00007301	00000-0	50065-4 0	51
9414	82.3198	140.7266	0011105	258.7087	101.2982	15.74447903	371
19414U	88 73	A	88260.68108324	.00005005	00000-0	34231-4 0	52
19414	82.3183	139.6745	0011238	253.8803	106.1673	15.74473618	386
19414U	88 73	A	88261.69796143	.00012621	00000-0	86397-4 0	53
19414	82.3185	138.5507	0011145	250.1560	109.9081	15.74506598	402

9414U 88 73 A 88262.71481118 .00015979 00000-0 10916-3 0 54
9414 82.3167 137.4270 0011077 245.5340 114.5082 15.74543293 418

88-74A,B

Transit 25, 26

Upp: 25 aug. fr. Vandenberg AFB

9419U	88 74	A	88238.34339181	.00000004	00000-0	00000 0 0	1
9419	89.9823		140.4298 0100857	165.9159	194.4153	13.40028427	0
9420U	88 74	B	88251.25671128	.00000180	00000-0	30890-3 0	4
9420	89.9663		140.3603 0096400	131.8123	229.1842	13.40508312	173
9419U	88 74	A	88251.25917032	-.00000025	00000-0	-50139-4 0	9
9419	89.9666		140.3605 0098432	132.1445	228.8652	13.40251470	174

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Soyuz TM-6

LPP: 29 aug fr. Baikonur

19443U	88 75	A	88242.23649990	-.00008354	57701-4	00000 0 0	1
19443	51.5618		52.9277 0025084	109.7488	250.7081	16.23048819	1
19443U	88 75	A	88242.29805430	.01024006	57787-4	37507-3 0	2
19443	51.6184		52.5638 0024314	109.8877	250.4927	16.23118168	2
19443U	88 75	A	88242.48272822	.00395247	89024-4	37507-3 0	3
19443	51.6146		51.5712 0016282	238.3988	118.6406	16.10999413	5
19443U	88 75	A	88243.28945429	.00621151	21560-3	61380-3 0	4
19443	51.6197		47.1971 0018892	222.3707	137.0804	16.10282590	18
19443U	88 75	A	88243.53774744	.00282160	48631-4	27743-3 0	5
19443	51.6175		45.8492 0019008	222.9762	136.8853	16.10394097	22
19443U	88 75	A	88243.78596527	.00340653	67436-4	32981-3 0	6
19443	51.6192		44.5020 0018986	224.1964	135.7985	16.10600653	26
19443U	88 75	A	88244.15821851	.00296580	53357-4	28340-3 0	12
19443	51.6100		42.4845 0019127	226.6333	133.3772	16.10806551	33

194430	88	75	A	88245.87362373	.00044844	00000-0	32981-3	0	8
19443	51.6119	33.6980	0020047		3.4402	356.4430	15.72341921		59
194430	88	75	A	88250.83053571	.00045656	00000-0	32981-3	0	13
19443	51.6238	8.2703	0019708		22.1375	338.6496	15.72764319		137

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Kosmos 1966

Upp: 30 aug.

9445U	88 76	A	88243.64414337	.00000002	00000-0	99999-4 0	1
9445	62.9095		142.0672 7351814	318.1813	4.7642	2.03235315	1
19445U	88 76	A	88252.58155534	-.00000431	00000-0	98636-2 0	11
19445	62.9403		140.7711 7367978	318.2023	4.7243	2.00708422	19

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Kosmos 1967

Upp: 6 sept. fr. Plesetsk

Ned: 15 sept 88

19462U	88 79	A	88250.30423963	-.00001631	11341-4	00000 0 0	1
19462	72.9027		103.1222 0141683	89.0657	272.7665	15.95036132	0
19462U	88 79	A	88250.55510861	-.00099709	11619-4	-89106-4 0	2
19462	72.8745		102.4927 0141134	88.3916	273.2846	15.94924881	4
19462U	88 79	A	88250.93155471	-.00050600	11685-4	-44369-4 0	3
19462	72.8777		101.5465 0140755	87.6007	274.7054	15.95025330	10
19462U	88 79	A	88251.24506491	.00148737	11496-4	13465-3 0	4
19462	72.8781		100.7568 0141167	86.7695	275.0162	15.95103742	15
19462U	88 79	A	88251.68407760	.00009276	11153-4	98499-5 0	5
19462	72.8741		99.6572 0140443	85.7604	275.9521	15.95129154	22
19462U	88 79	A	88251.99766549	.00316915	11004-4	30027-3 0	6
19462	72.8779		98.8696 0136038	84.7248	277.2396	15.95445523	27
19462U	88 79	A	88252.18572147	.00270456	36228-4	30027-3 0	7
19462	72.8729		98.3838 0038409	86.7666	283.1057	16.07750391	30

19462U	88 79	A	88252.49522186	.00271213	36355-4	30027-3 0	8
19462	72.8718		97.5936 0038182	86.3706	274.0936	16.07811014	35
19462U	88 79	A	88253.11742922	.00018434	00000-0	20471-4 0	1
19462	72.8736		95.9999 0037455	84.4932	275.8548	16.07857001	4
19462U	88 79	A	88253.73967054	.00026780	00000-0	29464-4 0	1
19462	72.8717		94.4096 0037702	82.1536	278.4572	16.07918227	5
19462U	88 79	A	88254.79729576	.00249736	31348-4	27119-3 0	13
19462	72.8766		91.7061 0037455	79.3050	281.2670	16.08166271	72
19462U	88 79	A	88255.10832123	.00040345	00000-0	43583-4 0	14
19462	72.8705		90.9059 0037161	78.3987	282.0536	16.08175209	77
19462U	88 79	A	88255.10832123	.00040345	00000-0	43583-4 0	15
19462	72.8705		90.9059 0037161	78.3987	282.0536	16.08175209	77
19462U	88 79	A	88255.73041413	.00078204	00000-0	83191-4 0	16
19462	72.8733		89.3146 0037249	77.3105	283.2976	16.08279752	87
19462U	88 79	A	88256.41463129	.00087704	00000-0	92210-4 0	17
19462	72.8726		87.5601 0037154	75.6144	285.0441	16.08437044	98
19462U	88 79	A	88256.78779416	.00101041	70651-5	10785-3 0	18
19462	72.8737		86.6066 0037037	74.9139	285.6283	16.08518237	104
19462U	88 79	A	88257.84504422	.00152626	32413-5	10785-3 0	19
19462	72.8745		83.8945 0027491	27.7566	335.0847	16.15131369	121

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Kosmos 1967

font. 1

9462U	88 79	A	88257.84504422	.00152626	32413-5	10785-3 0	20
9462	72.8745		83.8945 0027491	27.7566	335.0847	16.15131369	121
9462U	88 79	A	88258.34010556	.00168968	32678-5	11646-3 0	21
9462	72.8746		82.6130 0030518	24.1768	335.9759	16.15243833	129
9462U	88 79	A	88258.77366121	.00256184	36468-5	17489-3 0	22
9462	72.8720		81.4921 0030286	23.8458	336.3539	16.15371009	136

88-80A Feng Yun-1 (FY-1)

Upp: 6 sept kl. 2030 UT från
Kelan (Taiwan)

Frekvens: 127.8 MHz
180.005 MHz

9467U	88	80	A	88250.90192210	-.00000018	00000-0	00000	0	0	1
9467	99.1198	219.2196	0015801	43.4774	317.0070	14.00307012				1
9467U	88	80	A	88251.11622670	-.00000018	00000-0	00000	0	0	3
9467	99.1274	219.4325	0016329	41.5406	318.7005	14.00330245				4
9467U	88	80	A	88251.18767716	-.00000018	00000-0	00000	0	0	4
9467	99.1293	219.5016	0016396	40.5417	319.6978	14.00339723				5
9467U	88	80	A	88273.05138475	.00002876	00000-0	19628-2	0	0	16
9467	99.1336	241.3393	0016140	344.8448	15.2274	14.00369736				311
9467U	88	80	A	88294.05607200	.00028095	00000-0	18761-1	0	0	30
9467	99.1455	262.2902	0008239	285.3640	74.4181	14.00790142				605
9467U	88	80	A	88294.34182759	.00028098	00000-0	18761-1	0	0	31
9467	99.1530	262.6077	0005357	284.5855	75.4520	14.00804364				609
19467U	88	80	A	88295.41320663	.00028129	00000-0	18761-1	0	0	32
19467	99.1552	263.6779	0005360	281.6277	78.4328	14.00864900				624

19467U	88	80	A	88296.05600861	.00028147	00000-0	18761-1 0	33
19467	99.1543	264.3226	0005237	287.3476	72.7031	14.00901086	633	
19467U	88	80	A	88296.12743175	.00028149	00000-0	18761-1 0	34
19467	99.1536	264.3950	0005326	291.0876	68.9665	14.00905035	634	
19467U	88	80	A	88296.12743279	.00028149	00000-0	18761-1 0	35
19467	99.1536	264.3950	0005326	291.0848	68.9745	14.00905036	634	
19467U	88	80	A	88296.91305578	.00028171	00000-0	18761-1 0	37
19467	99.1528	265.1821	0005276	288.9448	71.1144	14.00949237	645	
19467U	88	80	A	88297.91290394	.00028199	00000-0	18761-1 0	38
19467	99.1516	266.1805	0005318	288.4707	71.5815	14.01005287	659	
19467U	88	80	A	88339.91492307	.00000505	00000-0	36236-3 0	50
19467	99.1547	308.2448	0014606	157.3361	202.8465	14.00740300	1247	
19467U	88	80	A	88349.91506810	.00000897	00000-0	62468-3 0	60
19467	99.1585	318.2639	0015052	127.9259	232.3267	14.00753124	1387	

88-81 B

SBS 5

Upp: 8 sept från Kourou m. Anane 3-09

194840	88	81	B	88257.41773260	.00000003	00000-0	99999-4	0	4
19484	0.1028	298.0339	0059282	40.4535	19.9662	1.01170554			2

88-81A

Gstar 3

Lpp: 8 sept från Kourou m. Ariane 3-09

19483U	88	81	A	88263.37524496	-	.00000045	00000-0	99999-4 0	5	
19483				1.5248	150.2008	2987543	177.1911	185.0935	1.46484380	12
19485U	88	81	C	88256.37760146		.00006457	00000-0	34806-2 0	5	
19485				6.7830	145.9886	7334474	180.5586	178.0005	2.19874530	9
9485U	88	81	C	88253.66082291		.00000144	00000-0	99999-4 0	1	
9485				6.8096	147.3543	7334487	178.1344	187.7298	2.19842776	3

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Kosmos 1968

Upp: 9 sept

Ned: 23 sept

19488U	88	82	A	88253.74502298	.00128732	-57341-5	38717-4	0	4
0488	82.3278	174.8494	0040213	99.5103	261.0667	16.24553636			5
19488U	88	82	A	88253.92981534	.00169028	-56613-5	50382-4	0	5
19488	82.3279	174.6301	0040021	99.1767	261.4328	16.24692114			8
19488U	88	82	A	88254.17617577	.00054135	00000-0	50382-4	0	6
19488	82.4246	174.3693	0031008	207.2102	144.5464	16.10919395			12
19488U	88	82	A	88254.17617577	.00029924	00000-0	50387-4	0	7
19488	82.3313	174.3391	0011444	306.7394	45.0886	16.02487172			12
19488U	88	82	A	88254.80204464	-.00135091	00000-0	-23531-3	0	9
19488	82.3284	173.6198	0011442	305.7940	54.2520	16.02496929			22
19488U	88	82	A	88255.05182676	-.00004361	00000-0	-74484-5	0	10
19488	82.3319	173.3311	0011588	302.4588	57.6657	16.02601313			26
19488U	88	82	A	88256.06753808	.00000066	00000-0	00000	0 0	12
19488	82.3354	172.0743	0023827	312.5284	143.6748	16.07418277			1

19488U	88	82	A	88256.11314323	.00091371	28152-5	15237-3	0	13
19488	82.3334	172.1128	0011321	297.8995	61.3465	16.02736620			2
19488U	88	82	A	88256.11314323	.00091371	28152-5	15237-3	0	14
19488	82.3334	172.1128	0011321	297.8995	61.3465	16.02736620			43
19488U	88	82	A	88256.80004286	.00064264	99505-6	10665-3	0	15
19488	82.3302	171.3204	0011089	294.3879	65.5198	16.02799994			54
19488U	88	82	A	88257.79895396	.00048851	00000-0	80058-4	0	16
19488	82.3287	170.1706	0011538	291.3532	68.5822	16.02893081			70
19488U	88	82	A	88257.79895396	.00048851	00000-0	80058-4	0	17
19488	82.3287	170.1706	0011538	291.3532	68.5822	16.02893081			70
19488U	88	82	A	88258.36082365	-.00007932	00000-0	-13223-4	0	18
19488	82.3271	169.5241	0011543	289.1112	70.9101	16.02936627			79
19488U	88	82	A	88258.73538915	.00016180	00000-0	26497-4	0	19
19488	82.3284	169.0939	0011226	284.7608	75.3025	16.02982975			85
19488U	88	82	A	88259.10993459	.00014822	00000-0	26497-4	0	20
19488	82.3370	168.6576	0009657	313.8066	45.5934	16.01515940			91
19488U	88	82	A	88259.10993459	.00014822	00000-0	26497-4	0	21
19488	82.3370	168.6576	0009657	313.8066	45.5934	16.01515940			91
19488U	88	82	A	88260.48466250	.00003406	00000-0	59982-5	0	22
19488	82.3271	167.0854	0009633	310.3269	49.8056	16.01599822			113
19488U	88	82	A	88260.67208711	.00051103	00000-0	90269-4	0	23
19488	82.3271	166.8709	0009475	309.1087	50.9719	16.01647715			116

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9488U	88	82	A	88262.67126581	.00057898	68654-6	10165-3	0	25
9488	82.3262	164.5749	0009565	300.8870	59.2048	16.01864501			148
9488U	88	82	A	88263.79566523	.00060422	80463-6	10526-3	0	26
9488	82.3275	163.2832	0009229	294.3233	65.7486	16.02005832			166
9488U	88	82	A	88264.73258922	.00060628	85748-6	10494-3	0	27
9488	82.3273	162.2076	0009173	290.9213	69.1179	16.02120648			181
9488U	88	82	A	88265.29471352	.00034581	00000-0	59434-4	0	28
9488	82.3279	161.5615	0009201	286.7561	73.2598	16.02172998			190

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Progress 38

Upp: 9 sept (~2330 UT) från Barcelona
 Dockade med Mir 11 sept ~0125 UT

19486U	88 83	A	88254.03548960	-.00008346	57685-4	00000 0 0	1
19486	51.6286	352.2422	0046383	92.4583	267.9828	16.20843493	1
9486U	88 83	A	88254.22048133	.03743106	57208-4	13465-2 0	2
9486	51.6242	351.2248	0045387	87.9600	272.7162	16.21209622	4
9486U	88 83	A	88254.28210062	.00795116	29450-3	13465-2 0	3
9486	51.6273	350.8824	0073481	204.2612	154.3851	15.96928196	5
9486U	88 83	A	88254.59512689	.00515270	12124-3	85754-3 0	4
9486	51.6322	349.2222	0073709	205.4735	154.1683	15.97159497	10
9486U	88 83	A	88254.72027351	.00136395	16829-4	23022-3 0	5
9486	51.6318	348.5576	0073641	205.8183	153.8876	15.97189693	12
9486U	88 83	A	88254.97053806	.00250160	34345-4	41652-3 0	6
9486	51.6272	347.2254	0073531	206.7201	152.9804	15.97254048	16
9486U	88 83	A	88255.15822758	.00124669	00000-0	41652-3 0	7
9486	51.6303	346.2429	0039123	187.3435	168.4485	15.88034808	19

19486U	88	83	A	88255.72529378	.00141604	00000-0	46914-3	0	8
19486	51.6300	343.2652	0039023	189.5062	170.4715	15.88155696			28
19486U	88	83	A	88255.97698794	.00142525	00000-0	46914-3	0	9
19486	51.6304	341.9436	0040477	190.8468	169.1456	15.88183305			32
19486U	88	83	A	88256.10283362	.00066683	00000-0	46914-3	0	10
19486	51.6199	341.2330	0019309	37.6130	318.6654	15.73233546			34
19486U	88	83	A	88260.93118198	.00067191	00000-0	46914-3	0	15
19486	51.6193	316.4530	0020229	64.0504	296.0898	15.73381759			110

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Lpp: 15 september

9495U	88 84	A	88259.67809834	-.00004078	28203-4	00000 0 0	1
9495	67.1239	206.1855	0134525	94.6917	267.7769	16.06339070	1
9495U	88 84	A	88259.80252256	-.00004054	28022-4	00000 0 0	2
9495	67.1395	205.7585	0135633	94.0106	267.6856	16.06075533	3
9495U	88 84	A	88259.86479328	.02499197	27614-4	86193-3 0	3
9495	67.1351	205.5488	0135595	94.1116	267.5803	16.06422635	4
9495U	88 84	A	88259.98928464	.00619716	27481-4	21352-3 0	4
9495	67.1376	205.1273	0135805	93.5978	267.8752	16.06434540	6
9495U	88 84	A	88260.67400476	.00685771	28297-4	22809-3 0	5
9495	67.1377	202.8195	0132742	92.9780	268.8111	16.07390296	17
9495U	88 84	A	88261.73130022	.00804546	28048-4	25128-3 0	6
9495	67.1380	199.2473	0127990	91.8447	269.7495	16.08940848	34
9495U	88 84	A	88261.73130022	.00804546	28048-4	25128-3 0	7
9495	67.1380	199.2473	0127990	91.8447	269.7495	16.08940848	34

9495U	88 84	A	88262.72538146	.00898864	27848-4	25722-3 0	8
9495	67.1374		195.8789 0123168	90.9080	270.6637	16.10724120	50
9495U	88 84	A	88263.34610524	.00914864	28197-4	24884-3 0	9
9495	67.1362		193.7730 0119953	90.3733	271.0527	16.11837939	60
9495U	88 84	A	88263.84238387	.00956220	28573-4	24884-3 0	11
9495	67.1351		192.0853 0117187	89.6814	271.7796	16.12794745	68
9495U	88 84	A	88264.64819140	.00978549	28731-4	23574-3 0	12
9495	67.1366		189.3406 0112633	88.9403	272.5787	16.14399765	81
9495U	88 84	A	88265.45317071	.00891075	28691-4	19962-3 0	13
9495	67.1342		186.5934 0107830	88.6444	272.7821	16.16004292	94
9495U	88 84	A	88266.13364527	.00445255	27513-4	22425-3 0	15
9495	67.1368		184.2767 0129132	63.5258	288.9339	16.03979685	105
9495U	88 84	A	88270.74147650	.00701534	28418-4	26894-3 0	24
9495	67.1348		168.7305 0113252	59.5493	301.8207	16.09875496	179
9495U	88 84	A	88271.42465113	.00648055	28142-4	23641-3 0	25
9495	67.1364		166.4153 0110461	58.7021	302.5940	16.10917737	190
9495U	88 84	A	88271.61088194	.00769268	28317-4	27475-3 0	26
9495	67.1369		165.7843 0110023	58.8764	302.3311	16.11204525	193
19495U	88 84	A	88273.71928055	.00815857	28352-4	24653-3 0	29
19495	67.1324		158.6076 0100758	57.3853	303.6975	16.14615497	227

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9495U	88 84	A	88273.84316384	.00925601	28601-4	27614-3	0	31
9495	67.1283	158.1816	0100088	57.4034	303.6883	16.14860735		229
9495U	88 84	A	88274.02894920	.00516814	27248-4	27614-3	0	33
9495	67.1292	157.5816	0130770	76.9589	276.9079	16.03010541		232
9495U	88 84	A	88274.09267749	.00598275	27561-4	26392-3	0	34
9495	67.1309	157.3442	0140441	71.3839	290.0096	16.03069333		233
9495U	88 84	A	88274.21749661	.00509086	27589-4	22719-3	0	35
9495	67.1320	156.9263	0139245	71.3544	290.2850	16.03206339		235
9495U	88 84	A	88274.96591443	.00817849	27669-4	34775-3	0	37
9495	67.1331	154.4154	0136422	70.6968	290.9693	16.04236643		247
9495U	88 84	A	88275.71376302	.00513880	28022-4	21227-3	0	38
9495	67.1224	151.9030	0133425	69.2157	291.9247	16.05160728		259
9495U	88 84	A	88275.77614141	.00758834	27474-4	30596-3	0	39
9495	67.1293	151.6839	0133827	69.7719	291.7798	16.05296018		260
9495U	88 84	A	88279.25952257	.00810909	28134-4	25712-3	0	45
9495	67.1305	139.9180	0118596	67.2116	294.2956	16.10684994		316

9495U	88	84	A	88279.69407637	.00948069	28188-4	28726-3	0	46
9495	67.1301	138.4407	0116715	66.6806	294.7572	16.11482777			323
9495U	88	84	A	88280.31448629	.00983405	27866-4	28144-3	0	47
9495	67.1307	136.3323	0113056	66.0127	295.4128	16.12741470			333
9495U	88	84	A	88284.83849774	.01474920	28865-4	38475-3	0	60
9495	67.1275	120.9113	0095077	73.5332	287.7763	16.17070888			406
9495U	88	84	A	88285.58017686	.01347039	28669-4	31667-3	0	61
9495	67.1266	118.3688	0089589	72.5380	288.2759	16.19070055			418
9495U	88	84	A	88286.70233122	.00532688	27799-4	31921-3	0	63
9495	67.1298	114.5906	0125294	104.5390	257.1303	16.02810944			436
9495U	88	84	A	88289.44535736	.00580488	27811-4	30364-3	0	66
9495	67.1313	105.3698	0116838	101.7831	259.7853	16.05927329			480
9495U	88	84	A	88289.75670087	.00573677	27861-4	29532-3	0	67
9495	67.1308	104.3199	0115905	101.5281	259.8791	16.06280528			485
9495U	88	84	A	88290.81483563	.00622534	28159-4	30041-3	0	68
9495	67.1318	100.7487	0112542	100.5579	261.0647	16.07613235			502
9495U	88	84	A	88291.56115958	.00645479	28136-4	30041-3	0	69
9495	67.1307	98.2248	0109108	99.4912	262.0901	16.08646714			514
9495U	88	84	A	88291.68546370	.00633823	28104-4	29123-3	0	70
9495	67.1329	97.8076	0108928	99.6599	261.7041	16.08819288			516

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19495U	88 84	A	88292.24485391	.00533079	28595-4	23883-3 0	71
19495	67.1294		95.9122 0105885	98.7308	262.7962	16.09671748	525
19495U	88 84	A	88292.61758570	.00697809	28136-4	30425-3 0	72
19495	67.1307		94.6488 0104443	98.3247	263.0857	16.10209740	531
19495U	88 84	A	88294.35519091	.00882140	28508-4	33532-3 0	75
19495	67.1282		88.7452 0096196	96.8664	264.4438	16.13158141	559
19495U	88084	A	88294.78829166	.01083989	00000-0	00000-0 0 0076	
19495	067.1269		087.2626 0087741	114.0000	247.0635	16.2087578600567	
19495U	88 84	A	88294.84975866	.20067050	28701-4	39160-2 0	80
19495	67.1277		87.0528 0085105	114.8172	244.8237	16.21562024	567
19495U	88 84	A	88294.91161369	.01145853	28679-4	23098-3 0	81
19495	67.1285		86.8397 0085493	113.0384	247.5543	16.21231911	568
19495U	88 84	A	88295.28174470	.01548068	29172-4	28757-3 0	82
19495	67.1329		85.5640 0083132	112.6348	248.5879	16.22384504	574
19495U	88 84	A	88295.77466076	.01684251	29187-4	27874-3 0	83
19495	67.1290		83.8581 0078017	111.8419	249.2334	16.24049087	582

19495U	88	84	A	88296.69752918	.02111985	29325-4	23576-3	0	84
19495	67.1261	80.6586	0069776	111.0889	249.9425	16.27433150	597		
19495U	88	84	A	88296.94325834	.01910564	29475-4	19710-3	0	86
19495	67.1237	79.8028	0067038	110.3347	250.4704	16.28350433	601		
19495U	88	84	A	88297.06609167	.00311681	27948-4	19710-3	0	87
19495	67.1267	79.3811	0121277	171.4889	181.2388	16.03027482	603		
19495U	88	84	A	88297.44174344	.00312314	27299-4	19710-3	0	88
19495	67.1241	78.1283	0119077	170.0469	190.4977	16.03463324	609		
19495U	88	84	A	88297.75357575	.00633837	27793-4	39621-3	0	89
19495	67.1230	77.0787	0116984	170.2367	190.2618	16.03893613	614		
19495U	88	84	A	88297.75357575	.00633837	27793-4	39621-3	0	90
19495	67.1230	77.0787	0116984	170.2367	190.2618	16.03893613	614		
19495U	88	84	A	88298.56396787	.00556037	27268-4	33430-3	0	91
19495	67.1234	74.3521	0114671	169.6148	190.5053	16.04780554	627		
19495U	88	84	A	88299.00022138	.00587032	28099-4	34669-3	0	92
19495	67.1249	72.8850	0112844	169.1610	191.2739	16.05321015	634		
19495U	88084	A	88299.62311812	.00594379	00000-0	00000-0	0	0093	
19495	067.1223	070.7874	0114801	167.2649	193.1688	16.0606721600644			
19495U	88084	A	88300.05897738	.00594615	00000-0	00000-0	0	0094	
19495	067.1230	069.3166	0113216	166.8877	193.5504	16.0658738000651			

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9495U	88084	A	88301.11687823	.00614523	00000-0	00000-0	0	0095
9495	067.1214		065.7414 0109802	165.9539	194.4953	16.0790869700668		
9495U	88084	A	88301.36565776	.00630589	00000-0	00000-0	0	0096
9495	067.1242		064.9036 0107920	166.1030	194.3379	16.0825879500672		
9495U	88084	A	88302.04955954	.00649289	00000-0	00000-0	0	0097
9495	067.1235		062.5867 0107274	165.2622	195.1945	16.0916494600683		
9495U	88 84	A	88302.73304673	.00707309	28072-4	33449-3	0	98
9495	67.1239		60.2705 0099882	166.1200	194.3174	16.10168498		694
9495U	88 84	A	88303.72647375	.00707873	28461-4	31351-3	0	99
9495	67.1235		56.8997 0095987	164.9787	195.4288	16.11585715		710
9495U	88 84	A	88304.16081877	.00717416	28365-4	31062-3	0	100
9495	67.1230		55.4230 0093755	164.4324	195.9794	16.12229207		717
9495U	88 84	A	88304.71899957	.00735732	28592-4	30569-3	0	101
9495	67.1228		53.5234 0091437	163.8911	196.5221	16.13083760		726
9495U	88 84	A	88305.46280117	.00773912	28382-4	30508-3	0	102
9495	67.1221		50.9875 0087875	163.2363	197.3291	16.14270345		738

9495U	88	84	A	88305.58671869	.00970349	28799-4	37793-3	0	102
9495	67.1238	50.5649	0086819	163.1862	197.4684	16.14572537			740
9495U	88	84	A	88305.71056230	.00845006	28664-4	32443-3	0	103
9495	67.1230	50.1405	0086707	162.9547	197.4437	16.14750642			742
9495U	88	84	A	88305.95829516	.00988595	28348-4	37531-3	0	105
9495	67.1210	49.2936	0084738	162.8441	197.5905	16.15207349			746
9495U	88	84	A	88306.70102791	.00921515	28709-4	32260-3	0	106
9495	67.1219	40.7568	0081689	161.8400	198.4414	16.16586946			758
9495U	88	84	A	88307.50499298	.01013344	28276-4	32474-3	0	107
9495	67.1204	43.9985	0077564	161.1102	199.4608	16.18201964			771
9495U	88	84	A	88307.75216083	.01079628	28968-4	33482-3	0	108
9495	67.1202	43.1494	0076164	160.6974	199.7580	16.18772716			775
9495U	88	84	A	88308.06102259	.00669443	27809-4	33482-3	0	109
9495	67.1205	42.1050	0121797	142.7226	206.3270	16.05452573			780
9495U	88	84	A	88308.56137378	.00703361	28264-4	33482-3	0	110
9495	67.1162	40.4149	0120614	141.7803	219.2969	16.06206745			788
9495U	88	84	A	88308.68589022	.00799584	27545-4	37901-3	0	111
9495	67.1181	39.9967	0119510	141.7827	219.2371	16.06457268			790
9495U	88	84	A	88309.37050861	.00754933	28251-4	34404-3	0	112
9495	67.1153	37.6850	0116431	140.8166	220.0330	16.07470661			801

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Kosmos 1969

forts. 4

9495U	88	84	A	88310.05473741	.00753755	28218-4	32810-3	0	114
9495	67.1161	35.7723	0113409	139.9118	221.1123	16.08532126			812
9495U	88	84	A	88310.73848412	.00756214	28377-4	31485-3	0	115
9495	67.1158	33.0568	0110372	139.1204	221.8409	16.09575570			823
9495U	88	84	A	88311.73215302	.00830918	28370-4	31884-3	0	119
9495	67.1154	29.6822	0105793	137.5450	223.2690	16.11280947			839
9495U	88	84	A	88312.22863697	.00826555	28573-4	30864-3	0	120
9495	67.1151	27.9950	0102542	136.8123	224.2188	16.12171580			847
9495U	88	84	A	88312.53876681	.00995088	28584-4	35793-3	0	121
9495	67.1158	26.9397	0101116	136.5267	224.4742	16.12810950			852
9495U	88	84	A	88312.91075577	.00930611	28502-4	32336-3	0	122
9495	67.1150	25.6724	0099325	136.1437	224.7238	16.13497733			858
9495U	88	84	A	88313.71623591	.01055281	28805-4	33678-3	0	123
9495	67.1146	22.9226	0094694	134.7641	226.3974	16.15203298			871
9495U	88	84	A	88314.33516686	.01093613	28785-4	32659-3	0	124
9495	67.1139	20.8057	0090818	133.9211	227.0178	16.16570210			881

9495U	88	84	A	88314.70628484	.01093237	28864-4	30858-3	0	125
9495	67.1148	19.5367	0089253	133.9390	226.9896	16.17406810	887		
9495U	88	84	A	88314.89176524	.00814774	28048-4	30858-3	0	126
9495	67.1128	18.9016	0129054	125.0596	231.7022	16.06873010	890		

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Kosmos 1970-72

Upp: 16 sept
(GLONASS)

9501U	88	85	A	88260.03500488	-.00000007	00000-0	99999-4	0	1
9501	64.8757	60.5340	0010616	327.3209	32.6893	2.13456731			0
9501U	88	85	A	88260.50341135	-.00000007	00000-0	99999-4	0	3
9501	64.8355	60.5071	0003083	163.4344	196.2561	2.13239120			2

88-86 A

CS-3B

Lpp: 16 sept fr. Tanegashima

9508U	88	86	A	88261.53276386	-.00000125	00000-0	99999-4	0	1
9508				0.3051 275.2703	0198692	81.5992	3.0799	0.98234452	0
9508U	88	86	A	88262.55090443	-.00000132	00000-0	99999-4	0	4
9508				0.2236 271.7168	0186453	84.8118	3.3657	0.98267278	1
9508U	88	86	A	88264.58626642	-.00000221	00000-0	99999-4	0	5
9508				0.2336 263.1371	0114181	94.4238	1.8005	0.99170615	3
9509U	88	86	A	88260.58994103	.01709522	-67004-5	13412-2	0	1
9509				30.7212 178.0737	0103410	163.0317	197.3810	16.02704758	3

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Ofek-1

Upp: 19 sept

U	88 87A	88263.45839992	0.00000567						0	1
	142.8823	231.2937	0641161	55.7203	310.6030	14.58448303			0	
U	88 87A	88263.52680907	0.00000548						0	2
	142.8648	231.7011	0638441	56.5166	309.4541	14.57836128			1	
195190	88 87 A	88263.59532044	.00334514	10441-4	24660-2	0				3
19519	142.8643	232.0729	0641746	57.0722	308.8425	14.57637809				2
195190	88 87 A	88263.80087828	-.00962741	00000-0	-77308-2	0				4
19519	142.8627	233.2031	0641015	58.5999	307.6048	14.57727243				5
95190	88 87 A	88263.86938201	.00137689	-32831-5	99999-3	0				5
9519	142.8716	233.6029	0641103	59.2205	307.0441	14.57828338				6
95190	88 87 A	88263.86938201	.00137689	-32831-5	99999-3	0				6
9519	142.8716	233.6029	0641103	59.2205	307.0441	14.57828338				6

195190	88	87	A	88263.93787771	.00139862	-33176-5	99999-3	0	
19519	142.	8727	233.	9786	0642214	59.6492	306.6007	14.57829554	
195190	88	87	A	88264.07488457	.00169963	-29723-5	99999-3	0	8
19519	142.	8390	234.	8001	0653716	60.2328	306.1772	14.58273133	9
195190	88	87	A	88264.14331985	.00206364	-64012-6	12982-2	0	9
19519	142.	8942	235.	1417	0649483	61.6726	304.5698	14.58264029	10
195190	88	87	A	88264.28027506	.03627794	31758-2	28584-1	0	12
19519	142.	8721	235.	8822	0637254	62.2399	304.0344	14.58264764	12
195190	88	87	A	88264.34878343	.00333462	10533-4	25349-2	0	13
19519	142.	8734	236.	2627	0637194	62.7684	303.6542	14.58155576	13
195190	88	87	A	88268.25003134	.00181207	-11140-5	13659-2	0	20
19519	142.	8718	258.	0461	0629120	92.5883	274.7273	14.59947750	70
195190	88	87	A	88270.71098625	.00303145	76664-5	22501-2	0	23
19519	142.	8690	271.	8060	0624082	111.4296	255.3979	14.61388316	106
195190	88	87	A	88271.53073543	.00313050	87096-5	23089-2	0	24
19519	142.	8701	276.	3930	0622262	117.6773	248.8562	14.61892412	118
195190	88	87	A	88272.75978593	.00316833	89133-5	23240-2	0	25
19519	142.	8701	283.	2883	0619199	127.0740	238.7873	14.62648555	136
195190	88	87	A	88273.64702465	.00328922	10113-4	23982-2	0	26
19519	142.	8712	288.	2655	0617047	133.8939	231.4669	14.63219946	149

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Ofek-1

font. 1

19519U	88	87	A	88275.82943298	.00344480	11837-4	24894-2	0	28
19519	142.8704	300.5333	0611086	150.6521	213.1149	14.64671102			181
19519U	88	87	A	88276.71532363	.00440149	23639-4	31601-2	0	30
19519	142.8637	305.5283	0608666	157.4057	205.4320	14.65332456			194
19519U	88	87	A	88279.50683856	.00407645	19383-4	28525-2	0	34
19519	142.8642	321.2718	0601270	178.9955	181.1386	14.67345015			235
19519U	88	87	A	88279.71095458	.00369248	14625-4	25822-2	0	35
19519	142.8666	322.4231	0600662	180.5493	179.4324	14.67475485			238
19519U	88	87	A	88280.32315708	.00390052	17140-4	27089-2	0	36
19519	142.8648	325.8843	0598951	185.2820	174.2087	14.67964438			247
19519U	88	87	A	88284.73883209	.00416520	20724-4	27745-2	0	44
19519	142.8573	350.9216	0586763	219.4731	136.2910	14.71290299			312
19519U	88	87	A	88286.09548176	.00268755	45706-5	17712-2	0	46
19519	142.8584	358.6227	0582518	230.0311	124.6750	14.72323489			332
19519U	88	87	A	88286.70575862	.00313762	86232-5	20505-2	0	47
19519	142.8579	2.1039	0581369	234.7270	119.8649	14.72728655			341
19519U	88	87	A	88289.75462181	.00302643	75055-5	19372-2	0	50
19519	142.8536	19.5024	0574153	258.4345	95.0086	14.74624156			386

9519U	88	87	A	88290.83782915	.00318474	90842-5	20264-2	0	51
9519	142.8529	25.6930	0571603	266.8802	86.6202	14.75281293			402
9519U	88	87	A	88291.64991319	.00323255	96671-5	20472-2	0	52
9519	142.8551	30.3406	0569621	273.1680	80.3999	14.75790595			414
9519U	88	87	A	88292.66463671	.00332781	10740-4	20978-2	0	53
9519	142.8541	36.1515	0566991	281.0894	72.6489	14.76442540			429
9519U	88	87	A	88293.74653165	.00353430	12995-4	22103-2	0	54
9519	142.8546	42.3471	0564109	289.5572	64.6103	14.77203026			445
9519U	88	87	A	88294.35483390	.00268736	43865-5	16680-2	0	55
9519	142.8540	45.8331	0562937	294.3090	59.8537	14.77532787			454
9519U	88	87	A	88294.89549839	.00313214	86600-5	19419-2	0	56
9519	142.8536	48.9372	0561575	298.5333	56.0618	14.77873741			462
9519U	88	87	A	88295.77375693	.00314666	88254-5	19499-2	0	57
9519	142.8550	53.9824	0559174	305.3532	49.5927	14.78408173			475
9519U	88	87	A	88296.51667465	.00266000	42330-5	16407-2	0	58
9519	142.8562	58.2523	0557516	311.1646	44.1562	14.78814748			486
9519U	88	87	A	88296.71927116	.00325974	10078-4	20149-2	0	59
9519	142.8573	59.4186	0556861	312.7603	42.7776	14.78958826			489
9519U	88	87	A	88297.73193090	.00304905	79204-5	18750-2	0	61
9519	142.8552	65.2412	0554552	320.6968	35.4374	14.79532870			504

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forts. 2

9519U 88 87 A	88297.73193090	.00304905	79204-5	18750-2	0	62
9519 142.8552	65.2412 0554552	320.6968	35.4374	14.79532870		504
19519U 88 87 A	88298.60926038	.00312244	86281-5	19202-2	0	63
19519 142.8578	70.2899 0552090	327.5441	29.2825	14.80073299		517
9519U 88 87 A	88299.48625847	.00278275	52768-5	17014-2	0	64
9519 142.8583	75.3385 0549940	334.4010	23.0753	14.80614200		530
9519U 88087 A	88299.62115764	.00332747	00000-0	00000-0	0	0065
9519 142.8606	076.1231 0550885	335.4672	022.1233	14.8071598400532		
19519U 88087 A	88300.09322735	.00315806	00000-0	00000-0	0	0066
19519 142.8595	078.8469 0549780	339.2069	018.7567	14.8100703600539		
9519U 88087 A	88301.10448720	.00320051	00000-0	00000-0	0	0067
9519 142.8590	084.6798 0547045	347.1612	011.6181	14.8165375000554		
9519U 88087 A	88302.04791025	.00341428	00000-0	00000-0	0	0069
9519 142.8592	090.1253 0544007	354.5519	004.9996	14.8230981000568		
9519U 88 87 A	88302.72150742	.00378627	16404-4	22985-2	0	70
9519 142.8602	94.0148 0540560	359.8657	0.1820	14.82821314		578

9519U	88	87	A	88303.19290214	.00396632	18846-4	24148-2	0	71
9519	142.8600	96.7420	0538898		3.5957	356.8247	14.83145987		585
9519U	88	87	A	88303.73150945	.00583157	50511-4	35277-2	0	72
9519	142.8578	99.8611	0537700		7.7806	353.0621	14.83550348		593
9519U	88	87	A	88304.13535038	.00371099	15511-4	22310-2	0	73
9519	142.8595	102.1959	0536620		11.0248	350.0252	14.83829780		599
9519U	88	87	A	88304.60647443	.00163425	-29039-5	98181-3	0	74
9519	142.8602	104.9206	0534860		14.7079	346.8788	14.84059911		606
9519U	88	87	A	88304.74105003	.00365839	14854-4	21944-2	0	75
9519	142.8607	105.7049	0534877		15.8650	345.8851	14.84243168		608
9519U	88	87	A	88305.68286429	.00374058	16061-4	22496-2	0	77
9519	142.8606	111.1623	0531728		23.2089	339.3229	14.84894122		622
9519U	88	87	A	88306.69139917	.00394595	18769-4	23541-2	0	80
9519	142.8600	117.0138	0528643		31.2380	332.0280	14.85699013		637
9519U	88	87	A	88308.50524724	.00450805	27092-4	26551-2	0	82
9519	142.8601	127.5523	0522491		45.6271	318.3405	14.87255939		664
9519U	88	87	A	88308.70672124	.00451340	27150-4	26567-2	0	83
9519	142.8598	128.7268	0521717		47.2351	317.1149	14.87433981		667
9519U	88	87	A	88310.04889988	.00385064	17651-4	22455-2	0	85
9519	142.8605	136.5458	0517450		57.9289	306.7640	14.88489652		687

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Ofek 1

forts. 3

19519U	88	87	A	88310.71971544	.00389682	18401-4	22668-2	0	86
19519	142.8601	140.4584	0515308	63.2752	301.9626	14.88997418			697
19519U	88	87	A	88311.72540793	.00398742	19608-4	22937-2	0	88
19519	142.8605	146.3311	0512523	71.2736	294.2862	14.89779369			712
19519U	88	87	A	88312.93150277	.00410414	21276-4	23446-2	0	89
19519	142.8619	153.3836	0508591	80.9300	284.8884	14.90746897			730
19519U	88	87	A	88313.73510247	.00428603	24070-4	24336-2	0	90
19519	142.8629	158.0859	0505884	87.3343	278.6026	14.91436665			742
19519U	88	87	A	88315.80923125	.00438844	25806-4	24537-2	0	93
19519	142.8598	170.2474	0498745	103.9201	261.7424	14.93232227			773
19519U	88	87	A	88316.74509983	.00420245	23116-4	23361-2	0	94
19519	142.8592	175.7425	0495644	111.4271	253.8982	14.93992692			787
19519U	88	87	A	88318.48174796	.00470282	31225-4	25566-2	0	96
19519	142.8606	185.9651	0489856	125.3258	239.3415	14.95608885			813
19519U	88	87	A	88318.61527129	.00472528	31709-4	25724-2	0	97
19519	142.8581	186.7518	0489192	126.4543	238.2320	14.95733754			815

9519U	88	87	A	88320.81651583	.00418573	23104-4	22390-2	0	99
9519	142.8579	199.7411	0480822	144.1322	219.3599	14.97809793			848
9519U	88	87	A	88321.68276770	.00511063	39132-4	26966-2	0	101
9519	142.8573	204.8684	0477835	151.1443	211.6801	14.98694129			861
9519U	88	87	A	88322.41535694	.00572941	51915-4	29886-2	0	102
9519	142.8533	209.2122	0474990	157.0254	205.3313	14.99501662			872
9519U	88	87	A	88323.34712467	.00526874	42579-4	27363-2	0	104
9519	142.8514	214.7382	0470887	164.5017	196.9103	15.00451764			886
9519U	88	87	A	88323.67980098	.00509243	39084-4	26170-2	0	105
9519	142.8540	216.7119	0470016	167.2563	194.0685	15.00798175			891
9519U	88	87	A	88325.40835516	.00500729	37696-4	25183-2	0	107
9519	142.8513	226.9888	0463817	181.2558	178.6032	15.02473506			917
9519U	88	87	A	88326.80318304	.00467472	31772-4	23258-2	0	110
9519	142.8515	235.2979	0458687	192.6005	166.2688	15.03744089			938
9519U	88	87	A	88327.73240671	.00481524	34433-4	23730-2	0	111
9519	142.8513	240.8425	0455347	200.1482	158.0758	15.04618658			952
9519U	88	87	A	88328.79370926	.00494069	36965-4	23981-2	0	114
9519	142.8505	247.1844	0451703	208.7915	148.7347	15.05644702			968
9519U	88	87	A	88328.99261995	.00415907	23397-4	20149-2	0	113
9519	142.8476	248.3705	0451122	210.4255	146.9018	15.05777392			971

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for ts. 4

9519U	88	87	A	88329.58921159	.00477692	33863-4	22911-2	0	116
9519	142.8530	251.9467	0449255	215.2386	141.6035	15.06352003			980
9519U	88	87	A	88329.78806784	.00473206	33116-4	22670-2	0	117
9519	142.8498	253.1355	0448503	216.9011	139.9954	15.06531593			983
9519U	88	87	A	88337.91894361	.00510134	41666-4	22259-2	0	129
9519	142.8498	302.1167	0418827	283.3537	72.1601	15.14385696			1106
9519U	88	87	A	88340.75139817	.00538894	48584-4	22796-2	0	132
9519	142.8484	319.3128	0407122	306.6821	49.6108	15.17389832			1149
9519U	88	87	A	88341.80395805	.00556121	52827-4	23246-2	0	133
9519	142.8488	325.7240	0402702	315.3846	41.5150	15.18527073			1165
9519U	88	87	A	88341.93547133	.00561327	54088-4	23414-2	0	134
9519	142.8482	326.5238	0402159	316.5095	40.4657	15.18677616			1167
9519U	88	87	A	88342.85569436	.00647692	76819-4	26923-2	0	135
9519	142.8490	332.1434	0397511	324.0492	33.4310	15.19749808			1181
9519U	88	87	A	88343.38123083	.00723967	99882-4	29780-2	0	136
9519	142.8483	335.3526	0395309	328.4207	29.2468	15.20394434			1189

9519U 88 87 A	88347.57762352	.00681480	89682-4	26508-2 0	145
9519 142.8473	1.1031 0373786	3.4448	357.0556	15.25858385	1253
9519U 88 87 A	88347.70847229	.00774046	12065-3	30034-2 0	146
9519 142.8490	1.9117 0373076	4.4888	355.9187	15.26063348	1255
9519U 88 87 A	88348.62417814	.00640266	78081-4	24454-2 0	148
9519 142.8497	7.5606 0368166	12.2348	348.7108	15.27330460	1269
9519U 88 87 A	88349.08175330	.00757220	11626-3	28888-2 0	149
9519 142.8480	10.3832 0365110	16.0580	345.2479	15.28024083	1276
9519U 88 87 A	88349.60440216	.00780289	12507-3	29212-2 0	150
9519 142.8499	13.6178 0362662	20.4328	341.0765	15.28833639	1284
9519U 88 87 A	88349.86562604	.00735410	10931-3	27545-2 0	152
9519 142.8470	15.2356 0361094	22.7019	338.8194	15.29155577	1288
9519U 88 87 A	88349.93094617	.00815171	13872-3	30729-2 0	153
9519 142.8479	15.6383 0360143	23.2428	338.4322	15.29275819	1289
9519U 88 87 A	88354.29576531	.00856148	16220-3	29351-2 0	160
9519 142.8477	42.7979 0333661	60.4004	302.8013	15.36352009	1356
9519U 88 87 A	88354.75061821	.00888008	17723-3	30093-2 0	161
9519 142.8489	45.6473 0330757	64.2826	299.1872	15.37146746	1363
9519U 88 87 A	88355.39994212	.00841863	15808-3	28019-2 0	162
9519 142.8470	49.7201 0327039	69.8372	293.5533	15.38197928	1373

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Ofek 1

font 5.5

9519U	88	87	A	88355.72448205	.00890874	18044-3	29419-2	0	164
9519	142.8481	51.7544	0324873	72.6154	291.0407	15.38781241	1378		
9519U	88	87	A	88355.98399026	.00890380	18061-3	29028-2	0	165
9519	142.8463	53.3845	0323676	74.7727	288.8533	15.39224438	1382		
9519U	88	87	A	88356.76210511	.00880712	17769-3	28316-2	0	170
9519	142.8470	58.2795	0318705	81.5371	282.0604	15.40483749	1394		
9519U	88	87	A	88356.89173850	.00909955	19164-3	28986-2	0	171
9519	142.8433	59.0988	0318338	82.6669	280.9984	15.40702289	1396		
9519U	88	87	A	88356.89173850	.00909955	19164-3	28986-2	0	172
9519	142.8433	59.0988	0318338	82.6669	280.9984	15.40702289	1396		
9519U	88087	A	88357.47480173	.00909338	00000-0	00000-0	0	0	0173
9519	142.8418	062.7722	0316909	087.9168	275.8443	15.4175147801405			
9519U	88	87	A	88360.83564556	.00983995	24097-3	28008-2	0	182
9519	142.8432	84.0568	0292365	116.8697	246.0018	15.47851858	1457		
9519U	88	87	A	88361.73815918	.00983671	24369-3	26890-2	0	184
9519	142.8401	89.8058	0286139	124.7051	238.2177	15.49746171	1471		

9519U	88	87	A	89	2.79023242	.01210618	-16166-4	24086-2	0	202
9519	142.8361	135.3058	0232675			186.7789	172.9937	15.65351857		1581
9519U	88	87	A	89	3.74617364	.01309942	-16510-4	24675-2	0	204
9519	142.8316	141.5572	0224620			195.3294	164.0572	15.67767693		1596
9519U	88	87	A	89	5.14548540	.01401962	-17801-4	23978-2	0	209
9519	142.8313	150.7483	0212522			207.8146	151.1915	15.71563785		1618
9519U	88087	A	89005.39951292			.01472698	00000-0	00000-0	0	0210
9519	142.8308	152.4206	0212375			210.0625	148.8271	15.7237112701622		
9519U	88087	A	89005.65341924			.01536311	00000-0	00000-0	0	0211
9519	142.8318	154.1055	0210474			212.5718	146.2380	15.7318451501626		
9519U	88	87	A	89	6.54104807	.01597860	-19401-4	24257-2	0	212
9519	142.8284	159.9715	0198072			220.4868	138.1325	15.76105778		1640
9519U	88	87	A	89	8.87888403	.02135439	-22624-4	25686-2	0	219
9519	142.8258	175.5603	0171423			241.7340	116.8764	15.84502021		1677
9519U	88	87	A	89	9.44549922	.02210803	-24207-4	24400-2	0	220
9519	142.8251	179.3687	0164269			247.1424	111.2824	15.87015051		1686
9519U	88	87	A	89	10.82663653	.02990159	-79041-4	25986-2	0	223
9519	142.8253	188.7172	0144112			259.8800	98.6865	15.93910959		1708
19519U	88	87	A	89	11.26473434	.02968139	-78945-4	23549-2	0	225
19519	142.8254	191.7074	0137002			263.8271	94.5565	15.96380957		1715

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Ofek 1

forts. 6

19519U	88	87	A	89	11.82705588	.03671063	-79612-4	25185-2	0	226
19519	142.8260	195.5539	0127226	269.4109	89.2787	15.99975631	1724			
19519U	88	87	A	89	12.82289249	.04976042	-81397-4	22822-2	0	231
19519	142.8241	202.4276	0104782	279.0207	80.0496	16.08710459	1740			
19519U	88	87	A	89	13.07092820	.04987058	-81425-4	20355-2	0	232
19519	142.8193	204.1563	0097861	281.2703	77.7582	16.11224937	1744			
19519U	88	87	A	89	13.19480609	.05488443	-82013-4	20865-2	0	233
19519	142.8200	205.0222	0094094	281.9336	77.1718	16.12656453	1746			
19519U	88	87	A	89	13.75095329	.07874600	-83361-4	18970-2	0	234
19519	142.8233	208.9250	0075168	287.8927	72.8094	16.20570841	1756			
19519U	88	87	A	89	14.11970979	.12497333	-84500-4	15676-2	0	235
19519	142.8186	211.5539	0057283	291.3149	70.0763	16.29433055	1761			
19519U	88	87	A	89	14.18063060	.17532239	-85332-4	16683-2	0	237
19519	142.8155	211.9951	0051618	288.7260	71.1825	16.32354912	1762			
19519U	88	87	A	89	14.24169383	.21275653	-85938-4	12867-2	0	238
19519	142.8197	212.4257	0046935	287.9055	71.7652	16.35187290	1763			
19519U	88	87	A	89	14.36354611	.49374464	-87643-4	82050-3	0	240
19519	142.8202	213.3166	0032073	293.9443	65.9534	16.44399305	1765			

88-88A

Kosmos 1973

Upp: 22 sept. fr. Plesetsk

9521U	88	88	A	88267.17373228	.00007000	00000-0	83169-4	0	3
9521	72.8221	159.6038	0025420	179.2141	171.4120	15.60781944			12
9521U	88	88	A	88267.30361712	.00007001	00000-0	83169-4	0	4
9521	72.8633	159.2663	0042831	205.2459	155.1995	15.60255459			14
9521U	88	88	A	88267.36764059	.00395786	00000-0	43325-2	0	5
9521	72.8625	159.1141	0043470	207.7598	152.2429	15.60793926			15
9521U	88	88	A	88267.75216274	-.00063476	00000-0	-73604-3	0	6
9521	72.8621	158.1966	0043666	206.5423	153.1431	15.60761307			21
9521U	88	88	A	88268.26499319	-.00023668	00000-0	-27140-3	0	7
9521	72.8610	156.9713	0043343	205.6087	154.4418	15.60799192			29
9521U	88	88	A	88270.70056473	.00014295	00000-0	16402-3	0	10
9521	72.8612	151.1526	0043651	199.5927	160.4765	15.60885884			67
9521U	88	88	A	88271.66192504	.00014284	00000-0	16402-3	0	11
9521	72.8584	148.8556	0043328	197.4607	162.4874	15.60881646			82

19521U	88	88	A	88272.75149656	-.00011800	00000-0	-13419-3	0	12
19521	72.8597	146.2518	0043220	195.2068	164.7481	15.60879318			99
19521U	88	88	A	88273.71290353	-.00018171	00000-0	-20731-3	0	13
19521	72.8593	143.9541	0043295	192.7626	167.3379	15.60877163			114
19521U	88	88	A	88274.09744740	-.00048574	00000-0	-55914-3	0	14
19521	72.8615	143.0360	0042958	192.2284	167.8328	15.60896083			120
19521U	88	88	A	88275.82798355	.00084769	00000-0	95908-3	0	16
19521	72.8598	138.9002	0042614	188.1186	172.2430	15.60912467			147
19521U	88	88	A	88276.72520167	.00002341	00000-0	27389-4	0	18
19521	72.8593	136.7561	0042882	185.8010	174.2140	15.60907459			161
19521U	88	88	A	88283.96748622	-.00024994	00000-0	-28573-3	0	29
19521	72.8596	119.4491	0042001	168.9441	191.3135	15.60961184			274

88-89A

NOAA 11

Upp: 24 sept fr. Vandenberg AFB

19531U	88	89	A	88268.46361766	-.00000019	00000-0	00000	0	0	1
19531	98.9066	208.2662	0012315	262.3212	97.6663	14.10807512				0
9531U	88	89	A	88269.88220709	-.00007577	00000-0	-42448-2	0		5
9531	98.9039	209.6727	0011152	258.1896	101.8027	14.10621147				20
9531U	88	89	A	88284.70644747	.00000502	00000-0	30157-3	0		13
9531	98.9065	224.3604	0011407	213.6164	146.4284	14.10645073				229

88-90A

Molniya 3-33

Upp: 29 sept.

9541U	88	90	A	88273.43154339	.00000007	00000-0	99999-4	0	1
9541	62.8185	95.0656	7320956	288.1819	9.7367	2.04950089			0

88-91B

TDRS 3

9548U	88	91	B	88275.46583506	.00000109	00000-0	99999-4 0	3
9548				0.0925 269.2583 0010624	103.5108	347.2556	1.00343712	2
9548U	88	91	B	88290.34611450	.00000160	00000-0	99999-4 0	10
9548				0.0551 264.9568 0004148	84.4584	10.7182	1.00293538	17
9549U	88	91	C	88288.45293722	.00003006	00000-0	17875-2 0	16
9549				26.7287 67.3399 7268688	8.7578	358.8455	2.27600924	34
19550U	88	91	D	88286.14965977	.00000154	00000-0	99999-4 0	5
19550				2.2190 264.7761 0014981	129.9237	229.8032	1.00462119	13

88-91A

STS 26 (Discovery)

Opp: 29 sept 46. 1537 UT

9547U	88 91	A	88273.68009861	.00083487	00000-0	25599-3 0	1
9547	28.4710		74.6099 0003470	325.4755	272.9156	15.90353800	0
9547U	88 91	A	88273.76404909	-.00039653	00000-0	-12554-3 0	3
9547	28.4697		73.9957 0002793	320.5256	39.5099	15.90331186	1
9547U	88 91	A	88273.88954382	-.00023326	00000-0	-73909-4 0	4
9547	28.4695		73.0591 0002807	323.2208	36.8250	15.90333277	3
9547U	88 91	A	88273.95239313	.00065569	00000-0	25599-3 0	5
9547	28.4753		72.5984 0023986	187.6659	172.3608	15.85058953	5
9547U	88 91	A	88274.01535838	.00064261	00000-0	25599-3 0	6
9547	28.4692		72.1208 0021899	191.5109	168.4872	15.84726767	6
9547U	88 91	A	88274.64505769	.00075919	00000-0	30281-3 0	7
9547	28.4711		67.4519 0022259	198.9510	161.0092	15.84687704	16
9547U	88 91	A	88275.16666666	.00064442	00000-0	25599-3 0	9
9547	28.4732		63.5844 0022140	206.0015	256.0125	15.84776811	24

195470	88	91	A	88276.14583333	.00064530	00000-0	25599-3	0	10
19547	28.4729	56.3274	0022307	218.6179	81.5792	15.84798450			39

88-92A

Kosmos 1974

Upp: 3 okt

9554U	88	92	A	88279.46085722	.00000041	00000-0	99999-4	0	2
9554	62.9082	298.4561	7356500	316.1813	4.9099	2.03068967			4

88-93A

Kosmos 1975

Lpp: 11 oktober

9573U	88	93	A	88285.39199979	.00000011	00000-0	00000	0	0	1
9573	82.5475	167.4475	0023004	275.7992	83.7640	14.74089810				0
9573U	88	93	A	88285.59569564	.00000011	00000-0	00000	0	0	3
9573	82.5395	167.2639	0024173	275.5839	84.0747	14.73853133				4

88-94A

Kosmos 1976

Lpp: 13 oktober ; Ncd: 27 oktober

9582U	88094	A	88287.52655841	.00000000	00000-0	00000-0	0	0001
9582	072.8877		197.0534 0132387	089.8810	271.8109	15.9759445100001		
9582U	88094	A	88287.65180759	.00000000	00000-0	00000-0	0	0002
9582	072.8791		196.7394 0132162	089.7558	271.9334	15.9750397500003		
9582U	88094	A	88287.83967757	.00030882	00000-0	00000-0	0	0003
9582	072.8644		196.2675 0131969	089.3913	272.2954	15.9752187600006		
9582U	88 94	A	88288.09011147	.01370916	11426-4	11812-2	0	4
9582	72.8651		195.6335 0129749	88.8158	272.6063	15.97767076		10
9582U	88 94	A	88289.24243560	.00059561	00000-0	68027-3	0	7
9582	72.8636		192.8796 0037965	210.2461	149.9091	15.60995670		28
9582U	88 94	A	88289.75508522	-.00012853	00000-0	-14742-3	0	8
9582	72.8632		191.6550 0037777	208.6721	151.1422	15.60969234		36
9582U	88 94	A	88290.84462768	-.00018648	00000-0	-21442-3	0	9
9582	72.8632		189.0512 0037940	205.9246	154.1087	15.60966606		53

9582U	88	94	A	88291.67777848	.00007839	00000-0	90481-4	0	10
9582	72.8623	187.0603	0037957	204.0024	156.0747	15.60995317	66		66
9582U	88	94	A	88292.63907176	.00008850	00000-0	10283-3	0	11
9582	72.8631	184.7624	0037885	202.0057	157.9376	15.61007958	81		81
19582U	88	94	A	88294.88213927	.00000881	00000-0	10819-4	0	14
19582	72.8625	179.4035	0037444	196.6014	163.3862	15.61011811	116		116
19582U	88	94	A	88295.77936589	-.00000209	00000-0	-16929-5	0	15
19582	72.8628	177.2584	0037368	194.5481	165.4824	15.61013654	130		130
9582U	88	94	A	88297.76605698	.00002429	00000-0	28554-4	0	18
9582	72.8621	172.5119	0037495	189.9940	170.0465	15.61024694	161		161
19582U	88	94	A	88298.59918686	-.00010578	00000-0	-12108-3	0	19
19582	72.8633	170.5190	0036783	188.7627	171.3045	15.61022737	174		174
19582U	88094	A	88300.07318670	.00000403	00000-0	00000-0	0	0022	
19582	072.8612	166.9992	0036852	184.2766	175.8649	15.6103291800197			
19582U	88094	A	88301.09856920	.00003904	00000-0	00000-0	0	0023	
19582	072.8617	164.5495	0036909	182.2320	177.9246	15.6104068500213			

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Raduga 22

Upp: 20 out

19596U	88	95	A	88296.46584673	-.00000007	00000-0	99999-4	0	3
0506				1.5121 275.3406 0011361	94.5078	263.1238	0.97725826		3
19596U	88	95	A	88299.54283233	.00000030	00000-0	99999-4	0	7
19596				1.4936 274.6087 0035350	132.4884	228.7185	0.99008771		6
9597U	88095	B		88294.70850838	.00000000	00000-0	00000-0	0 0001	
9597	051.6145			274.2672 0009109	307.9390	052.1502	16.2907311800001		

88-96A

Kosmos 1977

Upp: 25 oktober från Plesecku

19608U 88096 A 88299.80226824 .00000000 00000-0 00000-0 0 0001
19608 062.9419 254.7247 7343351 316.0446 005.0028 02.0323748300001

88-97A

Kosmos 1978

Upp: 27 okt; Ned: 10 nov

19612U	88097	A	88301.53420784	.00000000	00000-0	00000-0	0	0001
19612	072.8848		213.6184 0130701	088.6866	272.9853	15.9789660400001		
19612U	88097	A	88301.59682047	.00000000	00000-0	00000-0	0	0002
19612	072.8882		213.4585 0130062	088.6936	272.9709	15.9778790400002		
19612U	88097	A	88302.16027381	.00046450	00000-0	00000-0	0	0004
19612	072.8665		212.0438 0041179	081.6273	279.0154	16.0632657900011		
19612U	88 97	A	88302.53392586	.00087654	56948-5	10543-3	0	8
19612	72.8662		211.0885 0040956	79.6008	280.9057	16.06392018		17
19612U	88 97	A	88302.72077114	-.00091346	00000-0	-11064-3	0	9
19612	72.8668		210.6118 0040646	78.4207	282.1583	16.06380553		20
19612U	88 97	A	88303.15672969	.00031518	00000-0	37407-4	0	10
19612	72.8667		209.4968 0040279	78.5577	282.2409	16.06522270		27
19612U	88 97	A	88303.71713926	-.00071423	00000-0	-85295-4	0	11
19612	72.8661		208.0667 0040298	76.0827	284.5288	16.06571953		36

196120	88	97	A	88304.15303634	.00084900	00000-0	98520-4	0	12
19612	72.8683	206.9530	0039908	75.9574	284.8089	16.06718558			43
196120	88	97	A	88304.77563331	.00021755	00000-0	25519-4	0	13
19612	72.8648	205.3615	0040071	73.8559	286.6516	16.06776139			53
196120	88	97	A	88305.14921826	-.00004934	00000-0	-55527-5	0	14
19612	72.8685	204.4054	0039826	72.8874	287.7694	16.06879804			59
196120	88	97	A	88305.70953188	.00099068	66523-5	11528-3	0	15
19612	72.8631	202.9738	0039692	72.0082	288.6684	16.06992594			68
196120	88	97	A	88305.70953188	.00099068	66523-5	11528-3	0	16
19612	72.8631	202.9738	0039692	72.0082	288.6684	16.06992594			68
196120	88	97	A	88306.70551995	.00094481	62837-5	10865-3	0	17
19612	72.8654	200.4275	0039404	69.3173	291.2772	16.07204465			84
196120	88	97	A	88307.82586932	.00098194	67036-5	11132-3	0	18
19612	72.8635	197.5617	0039032	66.2532	294.3760	16.07449146			102
196120	88	97	A	88308.57265904	.00148946	12366-4	16591-3	0	19
19612	72.8637	195.6500	0039110	63.8091	296.8433	16.07669227			114
196120	88	97	A	88308.69709297	.00108922	77470-5	12154-3	0	20
19612	72.8641	195.3324	0039035	63.9713	296.5461	16.07678495			116
196120	88	97	A	88310.06597836	.00125851	96526-5	13749-3	0	22
19612	72.8659	191.8282	0038675	60.3780	300.2246	16.08014708			138

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Kosmos 1978

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9612U	88 97	A	88310.75028831	.00111379	80374-5	12058-3	0	23
9612	72.8650	190.0758	0038741	58.6769	301.7636	16.08154912		149
9612U	88 97	A	88311.74558024	.00114882	85218-5	12254-3	0	25
9612	72.8665	187.5264	0038612	56.2454	304.2707	16.08387914		165
9612U	88 97	A	88312.86509253	.00114917	85144-5	12063-3	0	26
9612	72.8670	184.6581	0038354	53.4505	307.0301	16.08646982		183
9612U	88 97	A	88313.05166037	.00005851	00000-0	62531-5	0	27
9612	72.8677	184.1805	0038076	52.7204	307.7635	16.08690779		186
9612U	88 97	A	88314.73057814	.00119341	92104-5	12195-3	0	29
9612	72.8676	179.8753	0037813	48.7452	311.9052	16.09092816		213

88-98A

TDF-1

Upp: Nån Kolman 28 oktober

9621U	88	98	A	88313.91949616	-.00000119	00000-0	99999-4	0	2
9621				0.1310 240.3545	0039590	244.0801 235.7466	1.00271338		7
9621U	88	98	A	88314.91667377	-.00000101	00000-0	99999-4	0	3
9621				0.0997 266.9256	0050380	206.8667 246.9555	1.00330035		8
9621U	88	98	A	88316.90956059	-.00000098	00000-0	99999-4	0	4
9621				0.0928 264.7504	0050431	209.0227 246.7905	1.00329630		10
9621U	88	98	A	88328.87628738	-.00000119	00000-0	99999-4	0	8
9621				0.0692 265.4814	0003049	329.1107 124.9314	1.00269041		22
9622U	88	98	U	88302.33713160	.00661636	00000-0	33732	0 0	2
9622				3.8656 243.5214	7274399	177.8153 188.6993	2.27333337		1

88-99A

USA 33 [Titan 34D]

Upp: 6 nov

Objektur: 19625

88-100A

VKK-1 (Buran)

(F1)

Upp: 15 nov kl.
Ned: 15 nov kl.

från Barkanur
vid Barkanur

Flystid: 3h25m

9637U	88100	A	88320.17845604	-	.00000616	00000-0	00000	0	0	2
9637	51.6318	109.7727	0006413	246.6353	112.6603	16.08356862				1
9637U	88100	A	88320.17858346	-	.00000614	00000-0	00000	0	0	3
9637	51.6203	109.7433	0006023	262.0967	97.9456	16.08201012				1

88-101A

Kosmos 1979

Lpp: 1840v

9647U	88101	A	88323.06435713	-.00000146	00000-0	00000 0 0	1
9647	65.0168		95.1327 0020462	280.6871	76.7260	15.50557624	0
9647U	88101	A	88323.12929781	.00567566	00000-0	91053-2 0	3
9647	65.0181		94.9136 0020462	280.6587	79.2275	15.50599694	1
9647U	88101	A	88323.25828428	.03752145	00000-0	39462-1 0	5
9647	65.0226		94.4783 0009477	261.4449	98.9149	15.52273720	4
9647U	88101	A	88349.61236724	.00005250	00000-0	88366-4 0	42
9647	65.0173		5.3690 0009746	275.1950	84.7916	15.52121975	413

88-102A

Kosmos 1980

Lpp: 234-v.

9649U	88102	A	88328.68408249	-.00000020	00000-0	00000	0	0	1
9649	71.0037		332.0741	0005721	295.5962	64.2385	14.14185074		1
9649U	88102	A	88328.68408249	-.00000020	00000-0	00000	0	0	2
9649	71.0037		332.0741	0005721	295.5962	64.2385	14.14185074		1
9649U	88102	A	88328.68412539	-.00000019	00000-0	00000	0	0	3
9649	71.0044		332.0901	0003451	66.2519	293.4494	14.12315229		1
9649U	88102	A	88328.75503979	-.00000020	00000-0	00000	0	0	4
9649	71.0034		331.9438	0003478	67.3790	292.7634	14.12292947		2
9649U	88102	A	88328.96752426	-.00000020	00000-0	00000	0	0	5
9649	71.0015		331.5008	0003464	66.6389	293.5091	14.12285912		5
9649U	88102	A	88348.94088960	.00000159	00000-0	10777-3	0	0	27
9649	71.0039		289.7450	0003855	22.2097	337.9248	14.12306961		287

88-103 A

Kosmos 1981

Upp: 24 nov

Ned: 8 dec

9651U	88103	A	88329.66851354	-.00000457	00000-0	00000	0	0	1
9651	62.8212	236.2644	0086554	120.3637	240.4009	15.91943695			1
9651U	88103	A	88329.73136439	-.00165632	00000-0	-35454-3	0		3
9651	62.8154	236.0221	0086406	120.4997	240.4707	15.91910354			2
19651U	88103	A	88330.10827397	-.00151479	00000-0	-32222-3	0		4
19651	62.8160	234.5589	0086659	120.5597	240.5375	15.91939733			8
19651U	88103	A	88330.29675004	-.00038457	00000-0	-80025-4	0		5
19651	62.8141	233.8250	0086087	120.7235	240.5750	15.91960211			11
19651U	88103	A	88330.61076290	-.00078010	00000-0	-80025-4	0		7
19651	62.8213	232.5900	0033708	77.8722	293.4519	16.09081778			16
9651U	88103	A	88330.79533076	-.00078214	00000-0	-80025-4	0		8
9651	62.8119	231.8546	0034084	77.9848	282.5257	16.09091334			19
9651U	88103	A	88331.16820484	-.00078406	00000-0	-80025-4	0		9
9651	62.8156	230.3701	0033461	77.3362	283.3207	16.09177212			25

9651U	88103	A	88331.66532107	-.00079151	00000-0	-80025-4	0	11
9651	62.8166	228.3940	0033742	77.2801	283.4682	16.09296989		33
9651U	88103	A	88331.78955162	-.00079198	00000-0	-80025-4	0	11
9651	62.8128	227.8991	0033756	77.9412	282.5702	16.09305194		35
9651U	88103	A	88332.34879412	.00094224	00000-0	92524-4	0	12
9651	62.8139	225.6726	0033816	77.9119	282.9367	16.09488859		44
9651U	88103	A	88332.78362880	.00110403	14061-4	11145-3	0	13
9651	62.8142	223.9415	0033614	78.1802	282.3271	16.09588953		51
9651U	88103	A	88333.83968995	.00171957	22449-4	16963-3	0	14
9651	62.8116	219.7325	0033576	77.7862	282.6989	16.09812354		68
9651U	88103	A	88334.46081933	.00104615	13676-4	10341-3	0	15
9651	62.8121	217.2606	0033231	77.7571	282.6586	16.09950621		78
9651U	88103	A	88334.70927442	.00107023	13891-4	10522-3	0	16
9651	62.8125	216.2710	0033405	77.9205	282.5675	16.10006166		82
19651U	88103	A	88336.82066707	.00123444	15959-4	11717-3	0	19
19651	62.8136	207.8534	0032676	77.6029	282.9186	16.10532055		116
19651U	88103	A	88337.81401112	.00121316	15937-4	11352-3	0	20
19651	62.8131	203.8951	0032480	77.7621	282.6604	16.10766374		132
9651U	88103	A	88338.74515772	.00120826	16017-4	11149-3	0	21
9651	62.8139	200.1775	0032207	76.9973	283.4637	16.10991540		147

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Kosmos 1981

forts. 1

19652U	88103	B	88339.10565915	.01212614	10481-4	11213-2	0	25
19652	62.7987	199.2192	0053861	129.9799	230.8391	16.08600456		152
19651U	88103	A	88339.73822948	.00123306	16454-4	11181-3	0	22
19651	62.8144	196.2134	0032127	76.8501	283.6468	16.11244756		163
9651U	88103	A	88340.79318909	.00121458	16254-4	10837-3	0	23
9651	62.8141	192.0004	0031821	76.7036	283.7535	16.11504006		180
19651U	88103	A	88341.78594457	.00120533	92031-5	10589-3	0	24
19651	62.8127	188.0345	0031571	76.6979	283.7674	16.11749268		196
9651U	88103	A	88342.84057780	.00213040	92323-5	18143-3	0	25
9651	62.8120	183.8196	0031699	75.6464	284.8200	16.12043007		213
9651U	88103	A	88343.08871118	.00125879	00000-0	00000-0	0	0025
9651	062.8117	182.8296	0028829	074.7882	285.7380	16.1208030500217		

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Soyuz TM-7

Цип: 26 ноя från Baikonur

9660U	88104	A	88331.71319809	-.00008289	57189-4	00000	0	0	1
9660	51.6094		312.6898	0030927	104.1769	256.3531	16.21849564		1
9660U	88104	A	88331.83640687	.00797756	57359-4	30512-3	0		2
9660	51.6125		311.9994	0031105	104.5757	255.8997	16.22093611		3
9660U	88104	A	88331.83640687	.00797756	57359-4	30512-3	0		3
9660	51.6125		311.9994	0031105	104.5757	255.8997	16.22093611		3
9660U	88104	A	88331.95960458	.00173512	19403-4	30512-3	0		4
9660	51.6088		311.3567	0028985	138.9503	216.2026	16.00708487		5
9660U	88104	A	88332.02292774	.00391258	73983-4	67878-3	0		5
9660	51.6181		311.0213	0029363	139.6915	220.6297	16.00790308		6
9660U	88104	A	88332.70949273	.00183872	21153-4	31580-3	0		6
9660	51.6219		307.3575	0029069	142.1762	217.8731	16.01088373		17
9660U	88104	A	88332.77195094	.00207969	25211-4	35549-3	0		7
9660	51.6219		307.0209	0029159	142.3766	217.9422	16.01135923		18

9660U	88104	A	88332.83436044	.00197603	22777-4	35549-3	0	8
9660	51.6237		306.6934	0026401	138.8740	221.0871	16.00431222	19
9660U	88104	A	88333.58362637	.00200771	23539-4	35549-3	0	9
9660	51.6210		302.6886	0026161	141.9675	218.2796	16.00713473	31
9660U	88104	A	88333.64606146	.00202912	23979-4	35549-3	0	10
9660	51.6212		302.3539	0029075	149.4871	210.8402	16.00727759	32
9660U	88104	A	88333.39129212	.00047859	00000-0	35549-3	0	11
9660	51.6224		303.6610	0023670	97.2466	263.4300	15.71968916	28
9660U	88104	A	88334.72618578	.00047968	00000-0	35549-3	0	12
9660	51.6238		296.8239	0024879	102.5874	257.3742	15.71979772	49
9660U	88104	A	88335.87049895	.00048202	00000-0	35549-3	0	13
9660	51.6184		290.9594	0023726	107.7501	252.6240	15.72133675	67

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Kosmos 1982

Lipp: 30 nov

Ned: 14 dec

9662U	88105	A	88335.43272843	-.00000316	00000-0	00000	0	0	1
9662	70.0034		246.8400	0129893	66.0960	295.3911	15.93253518		1
9662U	88105	A	88335.49551020	.00207513	61390-5	25407-3	0		2
9662	69.9867		246.6408	0129804	65.7018	295.7637	15.93224235		2
9662U	88105	A	88335.68386081	.00138088	59212-5	16953-3	0		3
9662	69.9851		246.0931	0129628	65.4598	295.9886	15.93266330		5
9662U	88105	A	88335.80942882	-.00007146	00000-0	-83138-5	0		4
9662	69.9845		245.7275	0129627	65.1282	296.3043	15.93227620		7
9662U	88105	A	88335.93500366	.14947241	62237-5	17200-1	0		5
9662	69.9861		245.3608	0125484	65.0047	296.6067	15.94743968		9
9662U	88105	A	88335.93500366	.14947241	62237-5	17200-1	0		6
9662	69.9861		245.3608	0125484	65.0047	296.6067	15.94743968		9
9662U	88105	A	88336.12278748	.01974578	00000-0	17200-1	0		7
9662	70.0047		244.8344	0036584	218.2861	114.7872	15.62353190		12

9662U	88105	A	88336.38355986	-.00029468	00000-0	-31294-3	0	8
9662	69.9921		244.1289	0049449	214.9720	144.4989	15.62328406	16
19662U	88105	A	88336.83180622	-.00013284	00000-0	-13988-3	0	9
19662	69.9919		242.8842	0049668	213.9729	145.8592	15.62325876	23
19662U	88105	A	88337.85623430	.00002666	00000-0	29317-4	0	10
19662	69.9929		240.0361	0049676	211.8946	148.0445	15.62346009	39
19662U	88105	A	88338.75257158	.00005679	00000-0	61144-4	0	11
19662	69.9924		237.5432	0049474	210.4852	149.3510	15.62355241	53
19662U	88105	A	88339.71294759	.00001417	00000-0	16137-4	0	12
19662	69.9925		234.8731	0049329	208.9114	150.9070	15.62354951	68
19662U	88105	A	88340.80138253	.00001457	00000-0	16556-4	0	13
19662	69.9925		231.8460	0049363	207.0211	152.8441	15.62358957	85
19662U	88105	A	88341.82578422	.00000214	00000-0	33963-5	0	14
19662	69.9921		228.9968	0049197	205.4088	154.4800	15.62362394	101
19662U	88105	A	88342.85018298	.00006530	00000-0	70244-4	0	15
19662	69.9921		226.1466	0048783	204.0843	155.8271	15.62357675	117
19662U	88105	A	88344.57885308	-.00010983	00000-0	-11548-3	0	17
19662	69.9921		221.3388	0048609	201.1624	158.8458	15.62377113	144
19662U	88105	A	88344.57885308	-.00010983	00000-0	-11548-3	0	18
19662	69.9921		221.3388	0048609	201.1624	158.8458	15.62377113	144

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Kormos 1982

font 5. 1

19662U	88105	A	88344.83493540	-1.00012853	00000-0	-13539-3	0	19
19662	69.9917		220.6256 0048783	200.5968	159.3216	15.62367757		148
9662U	88105	A	88347.71601459	-.00012634	00000-0	-13307-3	0	22
9662	69.9919		212.6138 0048289	195.9737	164.0522	15.62391501		193
9662U	88105	A	88348.67636976	-.00015101	00000-0	-15938-3	0	23
9662	69.9918		209.9440 0048190	194.4995	165.6004	15.62400678		208

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STS 27 (Atlantis F3)

Lpp: 2 dec. från Cape Canaveral

Ned: 6 dec
Vik Edwards AFB

19670U	88106	A	88337.63665648	.00009828	00000-0	25599-3	0	1
19670	56.9855	189.3271	0005060	289.1680	267.5441	15.39557347		0
19670U	88106	A	88337.66611707	.00009723	00000-0	25599-3	0	2
19670	56.9774	189.1976	0006991	302.1825	57.7947	15.39228561		0
19670U	88106	A	88337.73107329	.00009745	00000-0	25599-3	0	3
19670	56.9873	188.9188	0007102	298.4911	61.5596	15.39289710		1
19670U	88106	A	88338.04166666	.00009638	00000-0	25599-3	0	4
19670	56.9883	187.5957	0008304	309.4360	332.2365	15.38956448		7
19670U	88106	A	88338.32267939	.00009540	00000-0	25599-3	0	5
19670	56.9889	186.3940	0009007	314.1946	84.6137	15.38651966		12
19670U	88106	A	88338.70738206	-.00000197	00000-0	00000	0 0	6
19670	56.9885	184.7470	0011910	223.7612	146.7107	15.42010094		17
19670U	88106	A	88338.83707997	.00009744	00000-0	25599-3	0	7
19670	56.9925	184.1924	0006864	310.0540	60.6891	15.39284240		19

9670U	88106	A	88339.04861655	.00016275	00000-0	42099-3 0	9
9670	56.9877	183.2871	0007795	310.1208	153.1984	15.39272787	22
9670U	88106	A	88339.04861655	.00009740	00000-0	25599-3 0	10
9670	56.9877	183.2871	0007795	310.1208	153.1984	15.39272787	22
9670U	88106	A	88339.09492810	.00009723	00000-0	25599-3 0	11
9670	56.9884	183.0658	0009473	322.0961	37.9268	15.39209762	23
9670U	88106	A	88339.22482332	.00009716	00000-0	25599-3 0	12
9670	56.9868	182.5347	0007934	304.5597	55.4947	15.39203746	25
9670U	88106	A	88339.54954471	.00009723	00000-0	25599-3 0	13
9670	56.9850	181.1431	0007939	305.1099	54.9043	15.39217918	29
9670U	88106	A	88339.84613425	.00009969	00000-0	25599-3 0	14
9670	56.9877	179.8746	0006761	307.0031	257.3480	15.39971968	34
9670U	88106	A	88339.93912222	.00009976	00000-0	25599-3 0	15
9670	56.9892	179.4767	0006585	295.9518	64.1109	15.39992167	35
9670U	88106	A	88340.16612766	.00009687	00000-0	25599-3 0	16
9670	56.9854	178.5034	0007883	315.6271	223.1096	15.39115259	39
9670U	88106	A	88340.33934259	.00009694	00000-0	25599-3 0	17
9670	56.9882	177.7641	0007298	316.5919	102.2503	15.39131866	42
9670U	88106	A	88341.73958333	.00009701	00000-0	25599-3 0	18
9670	56.9883	171.7707	0005067	318.4528	301.6567	15.39175363	63

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19672U	88107	A	88343.73016299	.00046700	00000-0	00000-0	0	0001	
19672	062.8335		249.6917	0011557	241.2349	118.8548	16.0837946300002		
19672U	88107	A	88343.73016208	.00046700	00000-0	00000-0	0	0002	
19672	062.8210		249.6953	0012228	241.7800	118.3031	16.0836080300002		
19672U	88107	A	88343.91666978	-.00000454	00000-0	00000	0	0	3
19672	62.8173		248.9464	0008757	230.7638	129.2739	16.08422414		5
19672U	88107	A	88343.97884051	-.00459147	00000-0	-57699-3	0		4
19672	62.8173		248.6947	0008787	228.9869	131.0602	16.08424416		6
19672U	88107	A	88344.16536207	.00090305	96400-5	10623-3	0		8
19672	62.8172		247.9616	0009295	231.0769	129.0447	16.08476662		9
19672U	88107	A	88344.41401783	.00040603	52515-5	10623-3	0		9
19672	62.8119		246.9852	0058589	66.4439	286.9377	15.92221296		13
19672U	88107	A	88344.54090581	.00050400	65620-5	10623-3	0		10
19672	62.8211		246.4893	0069106	65.8356	295.6276	15.94718404		15

19672U	88107	A	88344.54090581	.00050400	65620-5	10623-3	0	11
19672	62.8211		246.4893	0069106	65.8356	295.6276	15.94718404	15
19672U	88107	A	88344.79161457	-.00058682	00000-0	-11965-3	0	12
19672	62.8108		245.5138	0068812	66.0054	294.7700	15.94650697	19
9672U	88107	A	88347.65488918	.00218343	40588-4	12333-3	0	19
9672	62.8113		234.1619	0041592	169.0044	191.3756	16.16858142	65
9672U	88107	A	88347.71670535	.00208615	40569-4	11776-3	0	20
9672	62.8113		233.9121	0041657	168.9182	191.2798	16.16875059	66
9672U	88107	A	88348.64427849	.00205100	40957-4	11312-3	0	21
9672	62.8114		230.1795	0040632	169.0556	191.1826	16.17282361	81
9672U	88107	A	88354.33483879	.00189185	10826-4	13451-3	0	30
9672	62.8130		207.2841	0030481	135.7766	224.4635	16.14688457	173
9672U	88107	A	88354.70641969	.00182503	11031-4	12828-3	0	31
9672	62.8152		205.7939	0030870	136.0393	224.3167	16.14825524	179
9672U	88107	A	88355.82091361	.00230586	11168-4	15744-3	0	32
9672	62.8125		201.3181	0030051	135.8750	224.4753	16.15236597	197
9672U	88107	A	88356.74944438	.00178782	11477-4	11983-3	0	34
9672	62.8146		197.5924	0029584	135.8567	224.5115	16.15575353	212

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9683U	88108	A	88346.26588630	-.00000249	00000-0	99999-4	0	5
9683	1.4624	267.8581	0008717	11.0082	349.7296	1.01269076		2
9683U	88108	A	88349.23652886	-.00000135	00000-0	99999-4	0	9
9683	1.4581	267.2547	0026731	120.4268	240.8768	0.99769339		5
9683U	88108	A	88350.23810256	-.00000154	00000-0	99999-4	0	10
9683	1.4539	266.8075	0020850	131.7704	229.9400	0.99877825		6
9684U	88108	B	88347.26038484	.12679723	61029-4	26951-3	0	10
9684	51.6198	257.5754	0002627	217.6236	143.4706	16.46805517		29
9691U	88108	E	88348.17000550	.00000040	00000-0	99999-4	0	2
9691	47.3641	266.5576	7228052	0.4578	359.6057	2.28878340		8

88-109A

9687U	88109	A	88348.90870863	-.00000074	00000-0	99999-4	0	1
9687	3.0942	273.2437	0179983	348.2212	11.5826	1.02493134		1
9687U	88109	A	88348.90909491	-.00000072	00000-0	99999-4	0	2
9687	3.0874	273.0014	0173055	346.7690	13.3982	1.02619110		1
9689U	88109	C	88350.28202834	.00000009	00000-0	99999-4	0	1
9689	6.8787	261.1939	7253435	181.2917	175.7721	2.23302443		6

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9705U	88110	A	88359.66151885	.00816767	40616-4	27984-3	0	17
9705	62.8404		289.0539 0081323	116.4062	244.6959	16.16766821		127
9705U	88110	A	88359.84702425	.00789108	40436-4	26565-3	0	18
9705	62.8410		288.3081 0080756	116.5812	244.3477	16.17048541		130
9705U	88110	A	88360.52702581	.00849329	41064-4	26600-3	0	19
9705	62.8401		285.5711 0078147	116.5354	244.5118	16.18230856		141
9705U	88110	A	88360.71236633	.00814878	40834-4	25244-3	0	20
9705	62.8401		284.8257 0077247	116.8014	244.0652	16.18497987		144
9705U	88110	A	88360.77415494	.00848597	40858-4	25662-3	0	21
9705	62.8401		284.5745 0077448	116.3722	244.6398	16.18705208		145
9705U	88110	A	88360.95944615	.01047815	40734-4	30556-3	0	22
9705	62.8419		283.8227 0077016	116.3960	244.5471	16.19130768		148
9705U	88110	A	88362.64006079	.00680903	39798-4	26963-3	0	26
9705	62.8397		277.1690 0125041	104.0875	257.5907	16.07132537		175

9705U	88110	A	88364.87779618	.00720119	40164-4	24274-3	0	29
9705	62.8385		268.2730	0116759	104.0506	257.5135	16.10352776	211
9705U	88110	A	88365.06404242	-.01024380	40305-4	-32705-3	0	30
9705	62.8380		267.5286	0112462	103.9962	257.6095	16.11588147	214
9705U	88110	A	88365.56023892	.00818899	40480-4	25340-3	0	31
9705	62.8378		265.5479	0110317	103.7954	257.4560	16.12430418	222
9705U	88110	A	88365.80828651	.00799099	40422-4	24163-3	0	32
9705	62.8379		264.5574	0109406	103.7528	257.5778	16.12829956	226
9705U	88110	A	88366.36613514	.00835585	40473-4	23845-3	0	33
9705	62.8373		262.3242	0107120	103.8739	257.5496	16.13820110	235
9705U	88110	A	88366.79975345	.00857226	40521-4	23567-3	0	34
9705	62.8368		260.5885	0105030	104.1190	257.1969	16.14573971	242
9705U	88110	A	89 1.48076674	.00922466	40876-4	23331-3	0	35
9705	62.8360		257.8544	0102041	103.8879	257.6612	16.15921020	253
9705U	88110	A	89 1.72820732	.00943094	40545-4	23597-3	0	36
9705	62.8366		256.8625	0100028	104.0303	257.2375	16.16407005	257
9705U	88110	A	89 1.97561708	.01169818	40817-4	27621-3	0	37
9705	62.8388		255.8671	0099519	103.7756	257.5430	16.17023013	261
9705U	88110	A	89 2.59371629	.01067223	40886-4	23432-3	0	38
9705	62.8358		253.3765	0096210	103.6692	257.2909	16.18317804	271
9705U	88110	A	89 2.65554297	.01069687	40937-4	23273-3	0	39
9705	62.8375		253.1281	0095928	103.9417	257.2471	16.18452978	272

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forts. 2

9705U	88110	A	89	3.52000294	.00289957	40926-4	56185-4	0	40
9705	62.8402	249.6384	0091958	103.9376	257.2178	16.20360638			286
9705U	88110	A	89	3.58171227	.01193347	40440-4	22790-3	0	41
9705	62.8349	249.3885	0090593	103.8105	257.3595	16.20614468			287
9705U	88110	A	89	3.76678617	.01181892	40858-4	21891-3	0	42
9705	62.8339	248.6387	0089730	103.8155	257.2815	16.21043925			290
9705U	88110	A	89	3.95182216	.00602416	39624-4	21891-3	0	43
9705	62.8398	247.9016	0127496	127.1972	229.0501	16.07501304			293
9705U	88110	A	89	4.07709922	.00598384	39923-4	21891-3	0	44
9705	62.8366	247.4032	0127295	126.7485	234.4582	16.07477311			295
9705U	88110	A	89	4.38811254	.00922348	39820-4	32789-3	0	45
9705	62.8352	246.1669	0125909	126.6993	234.6633	16.08001465			300
9705U	88110	A	89	4.82329440	.00757239	39946-4	26093-3	0	46
9705	62.8392	244.4431	0124251	126.7088	234.4109	16.08648420			307
9705U	88110	A	89	6.00361550	.01003664	40019-4	30551-3	0	49
9705	62.8352	239.7403	0119061	126.8140	234.4767	16.10848352			326

9705U	88110	A 89	6.99626570	.00422834	38694-4	24661-3 0	51
9705	62.8324	235.7944	0151181	149.0615	207.3853	15.97919898	342
9705U	88110	A 89	7.62274717	.00522694	39005-4	30730-3 0	52
9705	62.8324	233.3317	0147315	148.2798	212.8490	15.98589567	352
9705U	88110	A 89	7.99799840	.00554890	38971-4	31915-3 0	53
9705	62.8322	231.8604	0146236	148.4181	212.6248	15.99036674	358
9705U	88110	A 89	8.56069967	.00582838	39444-4	32840-3 0	54
9705	62.8297	229.6538	0144163	148.3408	212.6303	15.99670525	367
9705U	88110	A 89	9.62296929	.00574619	38582-4	30472-3 0	55
9705	62.8323	225.4820	0140796	148.2870	212.8179	16.00993403	384
9705U	88110	A 89	9.74785881	.00615704	39080-4	32642-3 0	56
9705	62.8303	224.9902	0139976	148.4863	212.4843	16.01154675	386
9705U	88110	A 89	10.12251937	.00646858	39150-4	33285-3 0	58
9705	62.8307	223.5145	0138763	148.2261	212.8442	16.01708982	392
9705U	88110	A 89	10.87145456	.00018618	40681-4	-42334-5 0	59
9705	62.8349	220.5641	0078011	141.8466	220.9375	16.17571494	404
9705U	88110	A 89	10.99473024	.00973675	40134-4	33558-3 0	60
9705	62.8323	220.0661	0078486	140.5648	219.9088	16.17176152	406
9705U	88110	A 89	11.73644058	.01090062	41196-4	34956-3 0	62
9705	62.8315	217.0786	0074316	140.7245	219.8739	16.18617834	418
9705U	88110	A 89	12.60084718	.01097253	41142-4	31496-3 0	63
9705	62.8336	213.5884	0069795	140.8136	219.7090	16.20494409	432

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forts. 3

19705U	88110	A	89	12.72426870	.01291457	40962-4	36237-3	0	64
19705	62.8386	213.0951	0069109	141.1088	219.5277	16.20827778	434		
9705U	88110	A	89	012.91057246	.01179277	00000-0	00000-0	0	0065
9705	062.8449	212.3088	0090986	113.9027	247.2593	16.10518805	00437		
19705U	88110	A	89	13.22098428	.00674633	40528-4	33991-3	0	66
19705	62.8319	211.1084	0091529	114.4701	246.6091	16.10847650	442		
19705U	88110	A	89	14.08973949	.00716397	39863-4	33615-3	0	67
19705	62.8319	207.6424	0088734	114.4912	246.6413	16.12122092	456		
9705U	88110	A	89	16.81422879	.01319542	41119-4	39587-3	0	75
9705	62.8225	196.7175	0077450	118.8017	242.0628	16.18759927	500		
9705U	88110	A	89	17.98698414	.01259054	40901-4	31932-3	0	79
9705	62.8277	191.9749	0071084	118.0004	242.8743	16.21504994	519		
9705U	88110	A	89	18.78815810	.01340658	41635-4	29429-3	0	80
9705	62.8266	188.7243	0066768	118.1743	242.6248	16.23609379	532		
9705U	88110	A	89	19.40372788	.01577637	41422-4	30625-3	0	81
9705	62.8261	186.2234	0062393	117.7652	243.1376	16.25470612	542		
9705U	88110	A	89	019.89817404	.00223917	00000-0	00000-0	0	0084
9705	062.8307	184.2284	0095760	177.7644	182.4860	16.06488484	00550		

9705U	88110	A	89	20.52049154	.00521885	39870-4	33993-3	0	85
9705	62.8253	181.7643	0095586	176.4862	183.8072	16.07186834			560
9705U	88110	A	89	20.70711691	.00528891	39483-4	35065-3	0	86
9705	62.8260	181.0237	0093104	176.4400	183.7355	16.07394100			563
9705U	88110	A	89	21.20472010	.00695691	39948-4	44969-3	0	87
9705	62.8253	179.0492	0090611	176.6447	183.6912	16.08090884			571
9705U	88110	A	89	21.76420823	.00632867	40296-4	39130-3	0	88
9705	62.8265	176.8248	0089738	176.7628	183.2952	16.08781855			580
9705U	88110	A	89	22.69623616	.00626970	39962-4	36635-3	0	89
9705	62.8268	173.1162	0086721	176.9078	183.2271	16.09958528			595
9705U	88110	A	89	23.56550513	.00629220	40242-4	34938-3	0	90
9705	62.8263	169.6510	0083655	177.2110	182.9707	16.11067009			609
9705U	88110	A	89	23.75169447	.00630951	40206-4	34616-3	0	91
9705	62.8264	168.9088	0083041	177.2480	182.9213	16.11307950			612
9705U	88110	A	89	24.68224205	.00729478	40501-4	37727-3	0	92
9705	62.8245	165.1849	0079481	177.8592	182.3923	16.12562839			627
9705U	88110	A	89	24.74423412	.00663343	40183-4	34084-3	0	93
9705	62.8252	164.9407	0079589	177.8417	182.3065	16.12629033			628
9705U	88110	A	89	25.79791925	.00659120	40637-4	31645-3	0	94
9705	62.8265	160.7258	0075747	178.1550	181.9536	16.14029474			645
9705U	88110	A	89	26.78877033	.00688429	40593-4	30518-3	0	97
9705	62.8245	156.7483	0072593	178.3472	181.8355	16.15431770			661

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9705U	88110	A	89	27.28386565	.00761982	40588-4	32539-3	0	98
9705	62.8242	154.7592	0070215	178.8905	181.3798	16.16215260			669
9705U	88110	A	89	27.77869342	.00794602	40499-4	32640-3	0	99
9705	62.8180	152.7700	0067963	179.2495	180.8826	16.16993062			677
9705U	88110	A	89	28.70588461	.00836015	41159-4	31137-3	0	100
9705	62.8252	149.0347	0064990	179.0736	181.1013	16.18526417			692
9705U	88110	A	89	29.01474028	.00812031	40826-4	29480-3	0	101
9705	62.8246	147.7877	0063574	179.2298	180.8808	16.19021329			697
9705U	88110	A	89	29.20001695	.00915053	40467-4	32515-3	0	102
9705	62.8230	147.0400	0062486	179.5697	180.6204	16.19408582			700
705U	88110	A	89	29.81727822	.00937954	41272-4	30937-3	0	103
705	62.8237	144.5442	0060178	179.6572	180.4328	16.20553305			710
705U	88110	A	89	30.43968943	.00438406	39538-4	30937-3	0	105
705	62.8239	142.0786	0092107	142.5799	218.2598	16.06827639			720
705U	88110	A	89	31.43505090	.00722009	40131-4	47415-3	0	107
705	62.8202	138.1264	0089286	142.3101	218.6452	16.08116755			736

705U	88110	A	89	34.66421677	.00726654	40470-4	33541-3	0	114
705	62.8232	125.2549	0078663	142.1687	218.5081	16.12400242			788
705U	88110	A	89	35.59408237	.00773837	40582-4	38091-3	0	115
705	62.8214	121.5368	0075416	142.4251	218.2184	16.13780747			803
705U	88110	A	89	36.46121599	.00748987	40365-4	34282-3	0	116
705	62.8205	118.0579	0072715	142.2632	218.1309	16.15041520			817
705U	88110	A	89	36.70889047	.00736794	40324-4	33176-3	0	117
705	62.8211	117.0615	0071542	141.9233	218.7174	16.15412339			821

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Kosmos 1984

Upp: 16 dec

88110A		88351.84175164	-.00005759	39863-4			0
62.8425	320.2458	0103066	116.7818	244.2909	16.06513858		1
9705U	1988-110	88354.76428703	.00582483	40306-4	30339-3	0	8
9705	62.8421	308.6390	0095185	116.9067	244.0981	16.09848899	48
9705U	1988-110	88355.13694376	.00880926	39707-4	43978-3	0	9
9705	62.8408	307.1527	0094619	116.7375	244.3833	16.10387492	54
9705U	1988-110	88355.19903035	.00716653	39863-4	35860-3	0	10
9705	62.8412	306.9049	0094360	116.9949	244.0656	16.10424115	55
9705U	88110	A 88356.81250739	.00631607	40632-4	28121-3	0	13
9705	62.8423	300.4712	0090397	116.7541	244.3742	16.12425577	81
9705U	88110	A 88357.30852453	.00998951	40211-4	42513-3	0	14
9705	62.8401	298.4885	0088721	116.6363	244.4645	16.13172159	89

9705U 88110 A 88357.80432392 .00712229 00000-0 00000-0 0 0015
9705 062.8392 296.5020 0085966 117.4476 243.6362 16.1385464500097

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Kina 25

Lpp: 22 dec från Kichang m. C2-3

9710U	PRC	25	88363.41525680	-.00000104	00000-0	99999-4	0	00	10
9710			0.5675	263.5775	0068307	335.5347	120.2043	0.99253195	0059
9710U	88111	A	88364.42277160	-.00000322	00000-0	99999-4	0		11
9710			0.5849	263.4450	0000637	63.5223	28.6080	1.00275091	10

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Malniya 3-34

Upp: 22 dec

9713U 88112 A 88357.64596348 .00000000 00000-0 00000-0 0 0002
9713 062.7378 255.3833 7383287 280.1637 011.1467 02.0542814200001

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Kosmos 1985

Upp: 23 dec fr. Plesetsk

9720U	88113	A	88359.02130672	-.00937687	00000-0	-87735-1	0	9
9720	73.5711		207.1735	0008506	246.8327	113.1993	15.12520680	11
9720U	88113	A	88362.59217154	-.00071955	00000-0	-41671-2	0	21
9720	73.5669		199.5597	0008045	248.1102	111.7400	15.12844512	65

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Progress 39

Upp: 25 dec fr. Bailonur

9728U	88114	A	88360.16689226	-	.00008326	57511-4	00000	0	0	1
9728	51.6213	166.7228	0038189		90.5538	269.9517	16.22585312			0
9728U	88114	A	88360.35165819		.00965154	57444-4	32591-3	0		2
9728	51.6247	165.7023	0037786		91.5042	269.1023	16.22855999			3
9728U	88114	A	88360.47478896		.00612853	18802-4	32591-3	0		3
9728	51.6291	165.0202	0033840		58.6099	300.6727	16.17801255			5
9728U	88114	A	88360.59851834		.00818781	19309-4	42479-3	0		4
9728	51.6299	164.3427	0033977		59.5314	300.9523	16.18078332			7
9728U	88114	A	88360.66026669		.00813910	19203-4	42048-3	0		5
9728	51.6333	164.0008	0033657		59.8085	300.6210	16.18160150			8
9728U	88114	A	88360.72202086		.00688446	19143-4	35388-3	0		6
9728	51.6346	163.6655	0033528		60.0572	300.3762	16.18248160			9
9728U	88114	A	88360.84551828		.00714491	19427-4	36282-3	0		7
9728	51.6344	162.9888	0033457		61.0956	299.3273	16.18404860			11

9728U	88114	A	88360.90726487	.00749559	19783-4	37810-3	0	8
9728	51.6329		162.6524	0033305	61.1659	299.2696	16.18498454	12
9728U	88114	A	88361.21593207	.02514082	20093-4	12221-2	0	9
9728	51.6341		160.9614	0032711	62.4235	297.9353	16.18956238	17
9728U	88114	A	88361.33936987	.00658689	19408-3	12221-2	0	10
9728	51.6348		160.3033	0075165	187.0636	165.6108	15.95230118	19
9728U	88114	A	88361.71644325	.00303742	45108-4	55689-3	0	11
9728	51.6341		158.2984	0075657	189.0146	170.7246	15.95401290	25
9728U	88114	A	88361.96701637	-.00226968	00000-0	-42560-3	0	12
9728	51.6327		156.9783	0075040	190.0468	169.8524	15.95451540	29
9728U	88114	A	88362.21757251	-.00153247	00000-0	-42560-3	0	13
9728	51.6313		155.6410	0065249	190.1562	168.7087	15.89732739	33
9728U	88114	A	88362.21776534	-.00069238	00000-0	-42560-3	0	14
9728	51.6228		155.6116	0020051	212.0287	147.9299	15.76480370	33
9728U	88114	A	88365.83095549	-.00070012	00000-0	-42560-3	0	16
9728	51.6190		136.9538	0022482	223.3710	137.1297	15.76652669	90

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Molviya 1-74

Lpp: 28 dec

9730U	88115	A	88363.27940616	.00000032	00000-0	00000	0	0	2
9730	62.8175		128.7627 7319906	288.1536	9.7201	2.05582022			1
9730U	88115	A	88363.27940616	.00000032	00000-0	00000	0	0	1
9730	62.8175		128.7627 7319906	288.1536	9.7201	2.05582022			0

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9734U	88116	A	88364.53537561	.00000000	00000-0	00000-0	0	0003
9734	064.7835		283.2395 0078716	069.8933	291.0597	16.1068389700002		
9734U	88116	A	88364.90787969	.00261040	34755-4	17124-3	0	6
9734	64.7768		281.8507 0073185	67.9459	292.9597	16.10873730		8
9734U	88116	A	88365.09411872	.00225468	33453-4	17124-3	0	7
9734	64.7746		281.1513 0009113	181.8950	177.4064	16.14826078		11
9734U	88116	A	88365.15618851	.00229203	94745-5	17124-3	0	8
9734	64.7781		280.9350 0036621	353.5219	5.8582	16.13506277		12
9734U	88116	A	88365.46619933	.00234143	98708-5	17124-3	0	9
9734	64.7779		279.7742 0036869	352.4197	7.7833	16.13776457		17
9734U	88116	A	88365.83797951	.00195775	97818-5	14229-3	0	10
9734	64.7781		278.3868 0036507	352.3989	7.6405	16.13921150		23

9734U	88116	A	88366.76735597	.00209075	10071-4	14756-3 0	11
9734	64.7772		274.9124 0036228	352.0513	8.1234	16.14335801	38
9734U	88116	A	89 1.75839670	.00223027	10240-4	15253-3 0	12
9734	64.7776		271.2055 0035689	351.8385	8.3249	16.14798695	54
9734U	88116	A	89 2.68723188	.00212608	10547-4	14092-3 0	13
9734	64.7775		267.7287 0035500	351.2192	8.9411	16.15243800	69
9734U	88116	A	89 3.73961291	.00204713	10732-4	13178-3 0	14
9734	64.7770		263.7858 0034638	350.5676	9.5522	16.15715923	86
9734U	88116	A	89 4.11096213	.00227187	11054-4	14421-3 0	15
9734	64.7779		262.3945 0034443	350.4741	9.6157	16.15903754	92
9734U	88116	A	89 4.85354798	.00193600	11147-4	12000-3 0	16
9734	64.7785		259.6111 0034541	349.8605	10.2112	16.16237689	104
9734U	88116	A	89 5.03916897	.00179861	11315-4	12000-3 0	17
9734	64.7793		258.9166 0040095	350.5065	9.2091	16.14770666	107
9734U	88116	A	89 5.10115719	.00159816	10006-4	12000-3 0	18
9734	64.7782		258.6849 0040777	340.3420	19.5741	16.13127043	108
9734U	88116	A	89 6.09298617	.00324578	10206-4	23428-3 0	20
9734	64.7787		254.9813 0040196	339.9850	20.0447	16.13606506	124
9734U	88116	A	89 7.14647827	.00353211	10703-4	24624-3 0	22
9734	64.7756		251.0437 0040202	339.0086	21.0542	16.14067726	141

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9734U	88116	A	89	7.64208224	.00240375	10542-4	16648-3	0	23
9734	64.7741	249.1900	0039548	338.5378	21.2474	16.14267224			149
9734U	88116	A	89	8.50932523	.00243615	10815-4	16353-3	0	24
9734	64.7723	245.9478	0039715	338.4038	21.4864	16.14668743			163
9734U	88116	A	89	9.80974520	.00256928	11420-4	16533-3	0	25
9734	64.7737	241.0796	0038432	337.2291	22.8022	16.15346851			184
9734U	88116	A	89	10.61446403	.00292927	11529-4	18134-3	0	26
9734	64.7722	238.0619	0038461	336.7766	23.3030	16.15834658			197
9734U	88116	A	89	10.61446403	.00292927	11529-4	18134-3	0	27
9734	64.7722	238.0619	0038461	336.7766	23.3030	16.15834658			197
9734U	88116	A	89	10.98580093	-.00651292	00000-0	-48971-3	0	30
9734	64.7745	236.6669	0039143	354.6602	4.2525	16.13023194			203
9734U	88116	A	89	11.23402485	.00215367	10007-4	16237-3	0	31
9734	64.7698	235.7415	0039545	354.5462	5.7188	16.13131316			207
19734U	88116	A	89	11.72992319	.00218992	98241-5	16269-3	0	32
19734	64.7712	233.8921	0039185	354.4687	5.6267	16.13361416			215

0734U	88116	A	89	12.10182081	.00172708	99162-5	12657-3	0	33
0734	64.7703			232.5006	0039148	354.0341	6.1101	16.13594692	221
19734U	88116	A	89	12.72151946	.00275581	10327-4	19669-3	0	35
19734	64.7712			230.1859	0038444	353.3839	6.6942	16.13943935	231
19734U	88116	A	89	13.71277764	.00241366	10362-4	16655-3	0	36
19734	64.7704			226.4759	0038219	352.7161	7.2595	16.14439163	247
19734U	88116	A	89	14.45605309	.00328499	10684-4	21786-3	0	37
19734	64.7699			223.6943	0038216	352.1983	8.0605	16.14930875	259
19734U	88116	A	89	14.70371185	.00436912	10963-4	28717-3	0	38
19734	64.7690			222.7642	0037883	352.3777	7.6390	16.15054672	263
19734U	88116	A	89	15.38473208	.00338421	11019-4	21655-3	0	39
19734	64.7699			220.2151	0037310	351.6485	8.2023	16.15487423	274
19734U	88116	A	89	15.69427275	.00301394	11246-4	19092-3	0	40
19734	64.7705			219.0571	0036993	351.4937	8.5387	16.15665191	279
0734U	88116	A	89	16.75541936	.00137475	14794-4	19092-3	0	43
0734	64.7727			215.1566	0065473	185.2326	174.8544	16.01497004	296
734U	88116	A	89	17.81686088	.00166991	18709-4	22736-3	0	44
734	64.7738			211.2603	0064520	184.6598	175.3978	16.01875379	313
734U	88116	A	89	18.81565467	.00142055	15453-4	19130-3	0	45
734	64.7713			207.5893	0063819	184.3273	175.6306	16.02161585	329
9734U	88116	A	89	20.75033722	.00136727	15079-4	17976-3	0	47
9734	64.7711			200.4753	0062327	183.7165	176.3176	16.02718646	360

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9734U	88116	A	89	21.12409773	.00234793	96021-5	17976-3	0	49
9734	64.7703			199.0878	0037259	171.0861	191.0221	16.13110975	366
9734U	88116	A	89	22.54939072	.00190198	97427-5	13948-3	0	51
9734	64.7704			193.7679	0036440	169.7178	190.6423	16.13810531	389
9734U	88116	A	89	22.73526637	.00325270	98786-5	23504-3	0	52
9734	64.7718			193.0723	0036272	169.9463	190.2726	16.13949127	392
9734U	88116	A	89	25.77013482	.00244718	10692-4	16100-3	0	56
9734	64.7712			181.7166	0034216	168.6793	191.5283	16.15433469	441
9734U	88116	A	89	27.75322451	.00210188	99563-5	15333-3	0	59
9734	64.7725			174.3022	0038137	182.8073	177.1907	16.13713587	473
9734U	88116	A	89	28.80664064	.00231578	10120-4	16367-3	0	60
9734	64.7707			170.3646	0037640	182.3769	177.6909	16.14173214	490
9734U	88116	A	89	28.99250807	.00216184	10169-4	15252-3	0	61
9734	64.7701			169.6702	0037285	181.7529	178.3301	16.14241295	493
734U	88116	A	89	29.79781293	.00240387	10226-4	16579-3	0	62
734	64.7698			166.6556	0036232	181.6546	179.4813	16.14624842	506

734U	88116	A	89	30.04555171	.00231193	10296-4	15848-3	0	63
734	64.7693	165.7278	0036026	181.2863	178.8084	16.14732988			510
734U	88116	A	89	31.71736454	.00205842	97928-5	15696-3	0	65
734	64.7670	159.4692	0042446	195.8587	164.1023	16.12701211			537
9734U	88116	A	89	34.19694809	.00219920	10256-4	15725-3	0	69
9734	64.7663	150.2043	0039091	194.7830	165.3732	16.13892563			577
9734U	88116	A	89	34.56869200	.00253441	10230-4	17847-3	0	70
9734	64.7675	148.8144	0038764	194.5759	165.4325	16.14107457			583
9734U	88116	A	89	34.63064791	.00261194	10199-4	13343-3	0	71
9734	64.7675	148.5825	0038658	194.4736	165.5429	16.14149510			584
9734U	88116	A	89	36.42687357	.00254495	10848-4	16859-3	0	74
9734	64.7660	141.8603	0037015	193.7255	166.4000	16.15090117			613
9734U	88116	A	89	36.73644194	.00257321	10861-4	16854-3	0	75
9734	64.7660	140.7006	0036811	193.5422	166.4939	16.15257537			618
9734U	88116	A	89	37.54121706	.00433136	10949-4	27361-3	0	76
9734	64.7656	137.6831	0035709	192.5037	167.6092	16.15778068			631
9734U	88116	A	89	37.72687567	.00253227	11093-4	16004-3	0	77
9734	64.7670	136.9896	0035383	192.6518	167.3349	16.15862462			634
9734U	88116	A	89	37.78877318	.00196736	10708-4	16004-3	0	78
9734	64.7643	136.7579	0060049	198.3528	161.0990	16.09836392			635
9734U	88116	A	89	37.97521391	.00141546	86533-5	16004-3	0	79
9734	64.7658	136.0665	0072787	178.6498	178.9373	16.03612587			638

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part 3

9736U 88116 A 89 J8.78632358 .00200687 87332-5 22241-3 0 81
9734 64.7660 133.0812 0072119 178.2758 181.9402 16.03919269 651