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هذه النسخة الإلكترونية (PDF) للاتصالات الدولي الاتحاد في والمحفوظات المكتبة قسم أجراه الضوئي بالمسح تصوير نتاج (ITU) والمحفوظات المكتبة قسم في المتوفرة الوثائق ضمن أصلية ورقية وثيقة من نقلاً.

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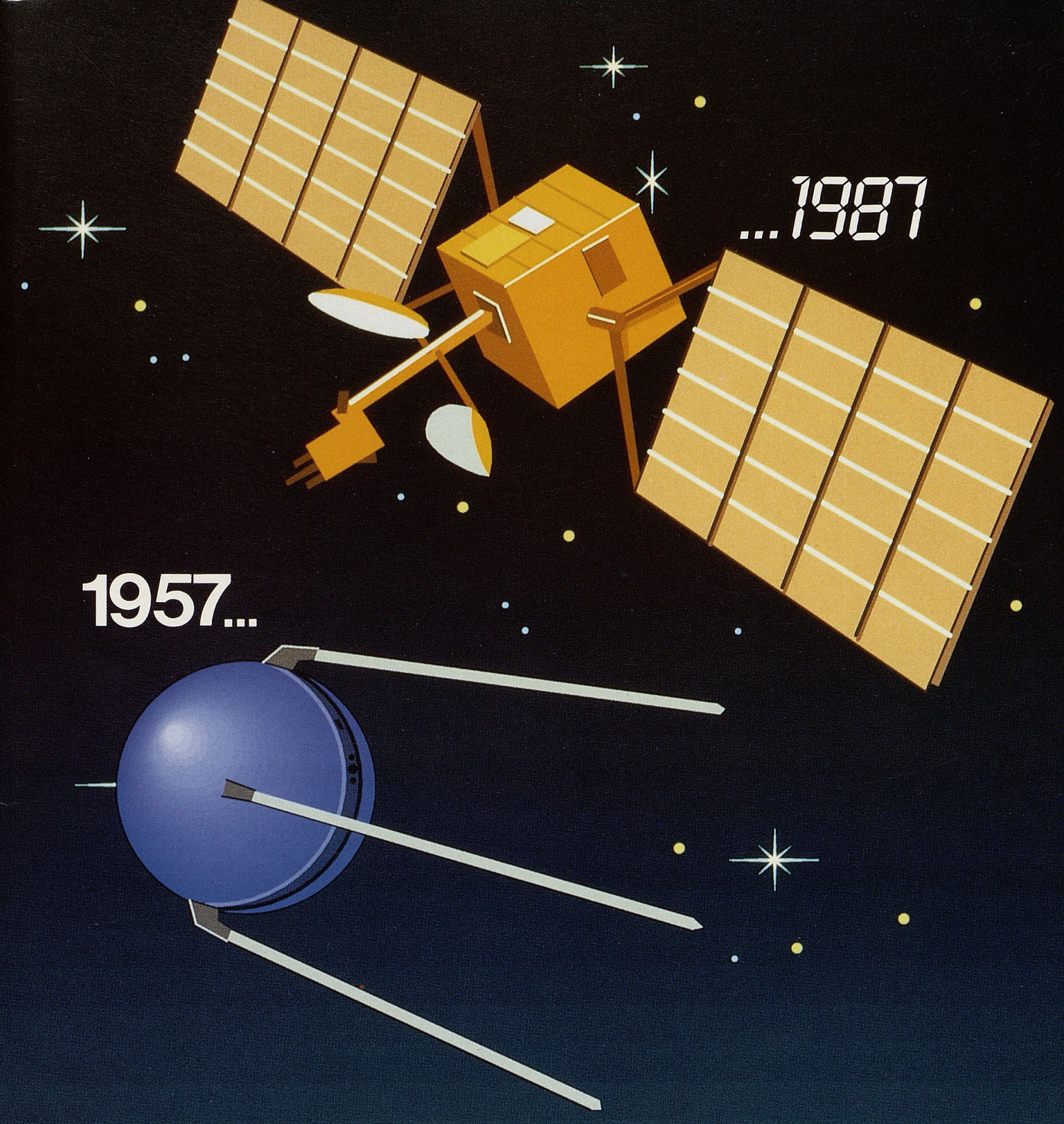

Table of artificial satellites launched in 1986

ARCHIVES U.I.T. GENÈVE

This list includes all artificial satellites launched in 1986. It was prepared from information provided by telecommunication administrations of ITU Member countries, the Committee on Space Research (COSPAR), national space research organizations, the International Frequency Registration Board (IFRB) of the ITU, and from details published in the specialized press. The data concerning the orbit parameters are the initial orbital data. Fragments or stages of rockets left over from launching operations and placed in orbit with the various spacecraft have not been included.

A

AJISAI	1986	61A

B

BS-2B	1986	16A

C

CHINA-18	1986	10A
COSMOS-1715	1986	1A
COSMOS-1716	1986	2A
COSMOS-1717	1986	2B
COSMOS-1718	1986	2C
COSMOS-1719	1986	2D
COSMOS-1720	1986	2E
COSMOS-1721	1986	2F
COSMOS-1722	1986	2G
COSMOS-1723	1986	2H
COSMOS-1724	1986	4A
COSMOS-1725	1986	5A
COSMOS-1726	1986	6A
COSMOS-1727	1986	8A
COSMOS-1728	1986	9A
COSMOS-1729	1986	11A
COSMOS-1730	1986	12A
COSMOS-1731	1986	13A
COSMOS-1732	1986	15A
COSMOS-1733	1986	18A
COSMOS-1734	1986	20A
COSMOS-1735	1986	21A
COSMOS-1736	1986	24A
COSMOS-1737	1986	25A
COSMOS-1738	1986	27A
COSMOS-1739	1986	28A
COSMOS-1740	1986	29A
COSMOS-1741	1986	30A
COSMOS-1742	1986	33A
COSMOS-1743	1986	34A
COSMOS-1744	1986	36A
COSMOS-1745	1986	37A
COSMOS-1746	1986	40A
COSMOS-1747	1986	41A
COSMOS-1748	1986	42A
COSMOS-1749	1986	42B
COSMOS-1750	1986	42C
COSMOS-1751	1986	42D
COSMOS-1752	1986	42E
COSMOS-1753	1986	42F
COSMOS-1754	1986	42G
COSMOS-1755	1986	42H
COSMOS-1756	1986	43A
COSMOS-1757	1986	45A
COSMOS-1758	1986	46A
COSMOS-1759	1986	47A
COSMOS-1760	1986	48A
COSMOS-1761	1986	50A
COSMOS-1762	1986	51A
COSMOS-1763	1986	52A
COSMOS-1764	1986	53A
COSMOS-1765	1986	54A
COSMOS-1766	1986	55A
COSMOS-1767	1986	56A
COSMOS-1768	1986	58A
COSMOS-1769	1986	59A
COSMOS-1770	1986	60A
COSMOS-1771	1986	62A
COSMOS-1772	1986	63A
COSMOS-1773	1986	64A
COSMOS-1774	1986	65A
COSMOS-1775	1986	66A
COSMOS-1776	1986	67A
COSMOS-1777	1986	70A
COSMOS-1778	1986	71A
COSMOS-1779	1986	71B
COSMOS-1780	1986	71C
COSMOS-1781	1986	72A
COSMOS-1782	1986	74A
COSMOS-1783	1986	75A
COSMOS-1784	1986	77A
COSMOS-1785	1986	78A
COSMOS-1786	1986	80A
COSMOS-1787	1986	81A
COSMOS-1788	1986	83A
COSMOS-1789	1986	84A
COSMOS-1790	1986	85A
COSMOS-1791	1986	86A
COSMOS-1792	1986	87A
COSMOS-1793	1986	91A
COSMOS-1794	1986	92A
COSMOS-1795	1986	92B
COSMOS-1796	1986	92C
COSMOS-1797	1986	92D
COSMOS-1798	1986	92E
COSMOS-1799	1986	92F
COSMOS-1800	1986	92G
COSMOS-1801	1986	92H
COSMOS-1802	1986	93A
COSMOS-1803	1986	94A
COSMOS-1804	1986	95A
COSMOS-1805	1986	97A
COSMOS-1806	1986	98A
COSMOS-1807	1986	99A
COSMOS-1808	1986	100A
COSMOS-1809	1986	101A
COSMOS-1810	1986	102A

E

EGP	1986	61A
EKRAN-15	1986	38A

F

FUJI	1986	61B

G

GORIZONT-12	1986	44A
GORIZONT-13	1986	90A
GSTAR-2	1986	26A

J

JAS-1	1986	61B
JINDAI	1986	61C

M

MABES	1986	61C
METEOR-2 (14)	1986	39A
MIR-1	1986	17A
MOLNYA-1 (67)	1986	57A
MOLNYA-1 (68)	1986	68A
MOLNYA-1 (69)	1986	89A
MOLNYA-1 (70)	1986	103A
MOLNYA-3 (28)	1986	31A
MOLNYA-3 (29)	1986	49A
MOLNYA-3 (30)	1986	79A

N

NOAA-10	1986	73A

P

POLAR BEAR	1986	88A
PRC-19	1986	76A
PROGRESS-25	1986	23A
PROGRESS-26	1986	32A

R

RADUGA-18	1986	7A
RADUGA-19	1986	82A

S

SATCOM-KU 1	1986	3B
SBTS-2	1986	26B
SOYUZ-T15	1986	22A
SOYUZ-TM 1	1986	35A
SPOT-1	1986	19A
STS-61 C	1986	3A

U

USA-15	1986	14A
USA-16	1986	14E
USA-17	1986	14F
USA-18	1986	14H
USA-19	1986	69A
USA-20	1986	96A

V

VIKING	1986	19B

Y

YURI-2B	1986	16A

Code name *Spacecraft description*	*International number*	*Country* *Organization* *Site of launching*	*Date*	*Initial orbital data*		*Frequencies* *Transmitter power*	*Observations*
				Perigee (km) *Apogee (km)*	*Period (min)* *Inclination (degree)*		
Cosmos-1715	1986-1-A	USSR (Plesetsk)	8 Jan.	207 317	89.4 72.8		Recovered on 22 January 1986
Cosmos-1716 to **Cosmos-1723**	1986-2-A to 1986-2-H	USSR (Plesetsk)	9 Jan.	1447 1516	115 74		Government communication
STS-61C space shuttle *Columbia*	1986-3-A	United States NASA (Eastern Test Range)	12 Jan.	327 350	91.3 28.5		Re-usable spacecraft. Crew: R. L. Gibson, C. F. Bolden, F. R. Chang-Diaz, G. D. Nelson, S. A. Hawley, R. G. Cenker and C. W. Nelson. Landed at Edwards Air Force Base on 18 January 1986. In addition to *Satcom KU-1* the payload included the materials science laboratory 2, infrared imaging experiment, initial blood-storage experiment, Comet Halley Active Monitoring Experiment (CHAMP), etc.
Satcom KU-1	1986-3-B	United States RCA American Communications, Inc. launched from *STS-61C*	12 Jan.	35 783 35 793	1436.2 0.1		Commercial communications
Cosmos-1724	1986-4-A	USSR	15 Jan.	179 358	89.5 67.2		Recovered on 15 March 1986
Cosmos-1725	1986-5-A	USSR	16 Jan.	989 1016	104.9 82.9		Navigation
Cosmos-1726	1986-6-A	USSR	17 Jan.	649 676	97.7 82.5		
Raduga-18 3-axis stabilized; 5 tonnes; solar panels	1986-7-A	USSR (Baikonur)	17 Jan.	35 769 35 805	1476 1.2 in geostationary-satellite orbit	5.7-6.2 GHz (reception) 3.4-3.9 GHz (emission)	Television and multichannel radiocommunications
Cosmos-1727	1986-8-A	USSR	23 Jan.	982 1029	104.9 82.6		

Cosmos-1728	1986-9-A	USSR	28 Jan.	214 305	89.4 70		Recovered on 11 February 1986
China-18	1986-10-A	China	1 Feb.	in geostationary-satellite orbit			Telecommunication
Cosmos-1729	1986-11-A	USSR	1 Feb.	614 39 342	709 62.8		
Cosmos-1730	1986-12-A	USSR	4 Feb.	206 333	89.5 72.9		Recovered on 13 February 1986
Cosmos-1731	1986-13-A	USSR	7 Feb.	191 293	89 65		Decayed on 30 October 1986
USA-15 to **USA-18**	1986-14-A, 14-E, 14-F and 14-H	United States US Air Force (Western Test Range)	9 Feb.				
Cosmos-1732	1986-15-A	USSR	11 Feb.	1497 1538	116 73.6		
BS-2B (Yuri-2B)	1986-16-A	Japan National Space Development Agency (Tanegashima)	12 Feb.	35 776 35 796 in geostationary-satellite orbit at 110° E	1436.1 0.6	2.28072 GHz 1.3 W 14/12 GHz band	Direct broadcasting television. Digital transmission of high definition television and super high fidelity sound radio
Mir-1	1986-17-A	USSR (Baikonur)	19 Feb.	324 352	91.6 51.6		Permanently-manned space-station capable of docking six spacecraft simultaneously
Cosmos-1733	1986-18-A	USSR	19 Feb.				
Spot-1 1830 kg	1986-19-A	France Centre national d'études spatiales (Kourou)	22 Feb.	813.3 833.3	101.8 98.77		Earth imaging
Viking 536 kg	1986-19-B	Sweden Swedish Space Corporation (Kourou)	22 Feb.	800 15 000	261.6 98.7		

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				Perigee (km) *Apogee (km)*	*Period (min)* *Inclination (degree)*		
Cosmos-1734	1986-20-A	USSR	26 Feb.	176 371	89.6 67.1		Recovered on 26 April 1986
Cosmos-1735	1986-21-A	USSR	27 Feb.	416 440	92.8 65		
Soyuz-T15 6850 kg; length 7.94 m; 2 solar panels	1986-22-A	USSR (Baikonur)	13 March	240 298	89.7 51.6		Crew: L. D. Kizim (Commander), B. A. Solovev (Flight Engineer). After docking with *Mir-1* on 14 March 1986, crew moved to the latter and prepared its equipment for operation. Returned to Earth on 16 July 1986
Progress-25 modified *Soyuz* spacecraft without the descent section; 7 tonnes at launch	1986-23-A	USSR (Baikonur)	19 March	189 268	88.8 51.6		Expendable supply craft. Docked with *Mir-1/Soyuz-T15* complex on 21 March 1986. Disintegrated on re-entry on 21 April 1986
Cosmos-1736	1986-24-A	USSR	21 March	255 278	89.6 65		
Cosmos-1737	1986-25-A	USSR	25 March	230 442	91 73		Decayed on 3 December 1986
GSTAR-2	1986-26-A	United States GTE Spacenet (Kourou)	28 March	35 786 35 788 in geostationary-satellite orbit at 103° W	1436.2 0.0	14/12 GHz band	National communication
SBTS-2	1986-26-B	Brazil EMBRATEL (Kourou)	28 March	35 761 35 814 in geostationary-satellite orbit at 65° W	1436.2 0.1	6/4 GHz band	National communication
Cosmos-1738	1986-27-A	USSR	4 April	36 560	1477 1.4		
Cosmos-1739	1986-28-A	USSR	9 April	182 352	89.5 64.9		Recovered on 7 June 1986
Cosmos-1740	1986-29-A	USSR	15 April	208 396	90.2 72.9		Recovered on 28 April 1986

Cosmos-1741	1986-30-A	USSR	18 April	784 824	100.8 74		
Molnya-3 (28) 3-axis stabilized; 1500 kg	1986-31-A	USSR (Plesetsk)	18 April	638 40 664	736 62.9	5.9-6.2 GHz (reception) 3.6-3.9 GHz (emission)	Television and multichannel radiocommunications
Progress-26 modified *Soyuz* spacecraft without the descent section; 7 tonnes at launch	1986-32-A	USSR (Baikonur)	23 April	190 274	88.8 51.6		Expendable supply craft. Docked with *Mir-1* on 27 April 1986 and delivered fuel, research materials and supplies for the crew. After undocking, it disintegrated on re-entry on 23 June 1986
Cosmos-1742	1986-33-A	USSR	14 May	209 388	90.1 73		Recovered on 28 May 1986
Cosmos-1743	1986-34-A	USSR	15 May	657 678	97.8 82.6		
Soyuz-TM 1	1986-35-A	USSR (Baikonur)	21 May	200 240	88.7 51.6		Improved version of *Soyuz-T* spacecraft. It carried no crew but can transport up to three cosmonauts. Docked with *Mir-1* on 23 May, undocked on 29 May and was recovered on 30 May 1986
Cosmos-1744	1986-36-A	USSR	21 May	227 395	90.4 62.8		Recovered on 4 June 1986
Cosmos-1745	1986-37-A	USSR	23 May	984 1024	104.9 83		Navigation
Ekran-15 3-axis stabilized; 5 tonnes; solar cells	1986-38-A	USSR (Baikonur)	24 May	33 500 in geostationary-satellite orbit	1424 0.3	5.7-6.2 GHz (reception) 3.4-3.9 GHz (emission)	Television relay
Meteor-2 (14) 2750 kg	1986-39-A	USSR (Plesetsk)	27 May	953 974	104.1 82.5		Meteorology
Cosmos-1746	1986-40-A	USSR	28 May	195 308	89.2 82.3		Recovered on 12 June 1986
Cosmos-1747	1986-41-A	USSR	29 May	217 420	90.6 70.4		Recovered on 12 June 1986

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				Perigee (km) *Apogee (km)*	*Period (min)* *Inclination (degree)*		
Cosmos-1748 to **Cosmos-1755** 40 kg each	1986-42-A to 1986-42-H	USSR (Plesetsk)	6 June	1444 1506	115.1 74		Government communication
Cosmos-1756	1986-43-A	USSR (Baikonur)	6 June	182 368	89.7 64.9		Recovered on 4 August 1986
Gorizont-12 3-axis stabilized	1986-44-A	USSR (Baikonur)	10 June	36 540 35 760	1436 1.5 in geostationary-satellite orbit	3.4-3.9 GHz (reception) 5.7-6.2 GHz (emission)	Television and multichannel radiocommunications
Cosmos-1757	1986-45-A	USSR	11 June	189 252	88.6 82.3		Recovered on 25 June 1986
Cosmos-1758	1986-46-A	USSR	12 June	644 682	97.8 82.5		
Cosmos-1759	1986-47-A	USSR	18 June	985 1016	104.9 82.9		
Cosmos-1760	1986-48-A	USSR	19 June	218 421	90.6 70		Recovered on 3 July 1986
Molnya-3 (29) 3-axis stabilized; 1500 kg	1986-49-A	USSR (Plesetsk)	19 June	640 40 679	736 62.9	5.9-6.2 GHz (reception) 3.6-3.9 GHz (emission)	Television and multichannel radiocommunications
Cosmos-1761	1986-50-A	USSR	5 July	607 39 325	709 63		
Cosmos-1762	1986-51-A	USSR	10 July	196 304	89.2 82.6		Recovered on 24 July 1986
Cosmos-1763	1986-52-A	USSR	16 July	761 814	100.5 74.1		
Cosmos-1764	1986-53-A	USSR	17 July	182 368	89.7 64.9		Recovered on 11 September 1986

Cosmos-1765	1986-54-A	USSR	24 July	207 395	90.2 72.9		Recovered on 7 August 1986
Cosmos-1766	1986-55-A	USSR	29 July	648 679	97.8 82.5		
Cosmos-1767	1986-56-A	USSR	30 July	190 226	88.5 64.9		Recovered on 16 August 1986
Molnya-1 (67) hermetically sealed cylinder with conical ends; 1000 kg; 6 solar panels	1986-57-A	USSR (Plesetsk)	30 July	658 40 615	736 62.9	800 MHz band 40 W (reception) 1000 MHz band (emission) 3400-4100 MHz (retransmission of television)	Television and multichannel radiocommunications
Cosmos-1768	1986-58-A	USSR	2 Aug.	199 303	89.2 82.6		Recovered on 16 August 1986
Cosmos-1769	1986-59-A	USSR	4 Aug.	438 456	93.3 65.0		
Cosmos-1770	1986-60-A	USSR	6 Aug.	189 302	89.0 64.8		
EGP (Ajisai)	1986-61-A	Japan National Space Development Agency (Tanegashima)	12 Aug.	1500 1500	116 50		Experimental Geodetic Satellite
JAS-1 (Fuji)	1986-61-B	Japan Japanese Amateur Radio Society (Tanegashima)	12 Aug.	1500 1500	116 50	435.795 MHz 100 mW 435.910 MHz 1 W	Japan Amateur Satellite
MABES (Jindai)	1986-61-C	Japan (Tanegashima)	12 Aug.	1500 1500	116 50	136.112 MHz 1.2 W	MAgnetic Bearing flywheel Experimental System
Cosmos-1771	1986-62-A	USSR	20 Aug.	254 278	89.6 65.0		
Cosmos-1772	1986-63-A	USSR	21 Aug.	210 370	90.0 72.9		Recovered on 3 September 1986

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				Perigee (km) *Apogee (km)*	*Period (min)* *Inclination (degree)*		
Cosmos-1773	1986-64-A	USSR	27 Aug.	181 366	89.7 64.9		Recovered on 21 October 1986
Cosmos-1774	1986-65-A	USSR	28 Aug.	614 39 342	709 62.8		
Cosmos-1775	1986-66-A	USSR	3 Sept.	216 405	90.4 70.3		Recovered on 17 September 1986
Cosmos-1776	1986-67-A	USSR	3 Sept.	478 521	94.5 74.0		
Molnya-1 (68) hermetically sealed cylinder with conical ends; 1000 kg; 6 solar panels	1986-68-A	USSR (Plesetsk)	5 Sept.	645 40 558	735 63	800 MHz band 40 W (emission) 1000 MHz band (reception) 3400-4100 MHz (retransmission of television)	Television and multichannel radiocommunications
USA-19	1986-69-A	United States Department of Defense	5 Sept.	148 241	88.4 39.0		Decayed on 28 September 1986
Cosmos-1777	1986-70-A	USSR	10 Sept.	781 819	100.8 74		
Cosmos-1778 to **Cosmos-1780**	1986-71-A to 1986-71-C	USSR	16 Sept.	19 123	675 64.8		Scientific instruments for checking the space navigation system created to assist in the location determination of civil aircraft and sea vessels of the USSR
Cosmos-1781	1986-72-A	USSR	17 Sept.	217 405	90.4 70.4		Scientific instruments for space research. Recovered on 1 October 1986
NOAA-10	1986-73-A	United States National Oceanic and Atmospheric Administration (Western Test Range)	17 Sept.	808 826	101.2 98.7		Objective: to acquire daily global weather information for the short and long term forecasting needs of the United States National Weather Service

Cosmos-1782	1986-74-A	USSR	30 Sept.	650 677	97.8 82.5		Recovered on 17 September 1986
Cosmos-1783	1986-75-A	USSR	3 Oct.	613 20 045	358 65.8		
PRC-19	1986-76-A	China (Jiuquan)	6 Oct.	172 387	89.5 57.0		Earth observation. Recovered on 23 October 1986
Cosmos-1784	1986-77-A	USSR	6 Oct.	203 305	89.3 64.8		Space research. Recovered on 11 November 1986
Cosmos-1785	1986-78-A	USSR	15 Oct.	608 39 300	708 62.8		Exploration of outer space
Molnya-3 (30) 3-axis stabilized; 1500 kg	1986-79-A	USSR (Plesetsk)	20 Oct.	645 38 988	703 62.9	5.9-6.2 GHz (reception) 3.6-3.9 GHz (emission)	Television and multichannel radiocommunications
Cosmos-1786	1986-80-A	USSR	22 Oct.	190 2589	113.3 64.9		Exploration of outer space
Cosmos-1787	1986-81-A	USSR	22 Oct.	215 290	89.3 70.0		Exploration of outer space. Recovered on 4 November 1986
Raduga-19 3-axis stabilized; 5 tonnes; solar panels	1986-82-A	USSR	25 Oct.	36 618	1479 1.3	5.7-6.2 GHz (reception) 3.4-3.9 GHz (emission)	Television and multichannel radiocommunications
Cosmos-1788	1986-83-A	USSR	27 Oct.	472 520	94.5 65.9		Exploration of outer space
Cosmos-1789	1986-84-A	USSR	31 Oct.	196 316	89.3 82.6		Space research. Recovered on 14 November 1986
Cosmos-1790	1986-85-A	USSR	4 Nov.	207 315	89.4 72.9		Space research. Recovered on 18 November 1986
Cosmos-1791	1986-86-A	USSR	13 Nov.	972 1026	105 83		Space research

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Cosmos-1792	1986-87-A	USSR	13 Nov.	181 357	89.6 64.9		Space research
Polar Bear	1986-88-A	United States	14 Nov.	960 1015	104.9 89.6		Study of atmospheric effects on electromagnetic propagation
Molnya-1 (69) hermetically-sealed cylinder with conical ends; 1000 kg; 6 solar panels	1986-89-A	USSR (Plesetsk)	15 Nov.	469 40 817	736 62.5	800 MHz band 40 W (emission) 1000 MHz band (reception) 3400-4100 MHz (retransmission of television)	Television and multichannel radiocommunications
Gorizont-13 3-axis stabilized	1986-90-A	USSR (Baikonur)	18 Nov.	35 824 in geostationary-satellite orbit	1437 1.4	5.7-6.2 GHz (reception) 3.4-3.9 GHz (emission)	Television and multichannel radiocommunications
Cosmos-1793	1986-91-A	USSR	20 Nov.	611 39 323	709 63		Space research
Cosmos-1794	1986-92-A	USSR	21 Nov.	1464 1498	115.6 74		Space research
Cosmos-1795	1986-92-B	USSR	21 Nov.	1464 1480	115.4 74		Space research
Cosmos-1796	1986-92-C	USSR	21 Nov.	1454 1475	115.2 74		Space research
Cosmos-1797	1986-92-D	USSR	21 Nov.	1442 1470	115.0 74		Space research
Cosmos-1798	1986-92-E	USSR	21 Nov.	1427 1470	114.9 74		Space research
Cosmos-1799	1986-92-F	USSR	21 Nov.	1412 1470	114.7 74		Space research
Cosmos-1800	1986-92-G	USSR	21 Nov.	1397 1470	114.5 74		Space research
Cosmos-1801	1986-92-H	USSR	21 Nov.	1384 1468	114.4 74		Space research

Cosmos-1802	1986-93-A	USSR	24 Nov.	985 1038	105 83		Space research
Cosmos-1803	1986-94-A	USSR	2 Dec.	1502 1527	116 82.6		
Cosmos-1804	1986-95-A	USSR	4 Dec.	210 448	90.8 70		Recovered on 18 December 1986
USA-20	1986-96-A	United States Department of Defense	5 Dec.	35 326 35 860	1426.3 5.3		
Cosmos-1805	1986-97-A	USSR	10 Dec.	649 675	97.8 82.5		
Cosmos-1806	1986-98-A	USSR	12 Dec.	612 39 307	708 63		
Cosmos-1807	1986-99-A	USSR	16 Dec.	177 370	89.6 67		
Cosmos-1808	1986-100-A	USSR	17 Dec.	995 1033	105 83		
Cosmos-1809	1986-101-A	USSR	18 Dec.	960 980	104.2 82.5		
Cosmos-1810	1986-102-A	USSR	26 Dec.	189 302	89.1 65		
Molnya-1 (70) hermetically sealed cylinder with conical ends; 1000 kg; 6 solar panels	1986-103-A	USSR	26 Dec.	484 39 075	701 63	800 MHz band 40 W (emission) 1000 MHz band (reception) 3400-4100 MHz (retransmission of television)	Television and multichannel radiocommunications

The following satellites have decayed since the preparation of the "Table of artificial satellites launched in 1985" published in June 1986

satellite	*international number*	*decay*
Transit-5A	1962-71-A	25 September 1986
Molnya-1 (28)	1974-81-A	29 December 1985
Molnya-3 (1)	1974-92-A	15 May 1986
Molnya-2 (12)	1975-9-A	4 July 1985
OSO-8	1975-57-A	9 July 1986
Molnya-1 (31)	1975-79-A	19 November 1985
Molnya-3 (4)	1975-125-A	12 August 1986
OPS-3986	1976-65-B	24 April 1986
Cosmos-1423	1982-115-A	18 January 1986
Exosat	1983-51-A	6 May 1986
Nusat-1	1985-34-B	15 December 1986
Cosmos-1706	1985-112-A	9 February 1986
Cosmos-1713	1985-120-A	22 January 1986
Cosmos-1714	1985-121-A	27 February 1986
Cosmos-1715	1986-1-A	22 January 1986
STS-61C	1986-3-A	18 January 1986
Cosmos-1724	1986-4-A	15 March 1986
Cosmos-1728	1986-9-A	11 February 1986
Cosmos-1730	1986-12-A	13 February 1986
Cosmos-1731	1986-13-A	3 October 1986
Cosmos-1734	1986-20-A	26 April 1986
Soyuz-T15	1986-22-A	16 July 1986
Progress-25	1986-23-A	21 April 1986
Cosmos-1737	1986-25-A	3 December 1986
Cosmos-1739	1986-28-A	7 June 1986

satellite	*international number*	*decay*
Cosmos-1740	1986-29-A	28 April 1986
Progress-26	1986-32-A	23 June 1986
Cosmos-1742	1986-33-A	28 May 1986
Soyuz-TM 1	1986-35-A	30 May 1986
Cosmos-1744	1986-36-A	4 June 1986
Cosmos-1746	1986-40-A	12 June 1986
Cosmos-1747	1986-41-A	12 June 1986
Cosmos-1756	1986-43-A	4 August 1986
Cosmos-1757	1986-45-A	25 June 1986
Cosmos-1760	1986-48-A	3 July 1986
Cosmos-1762	1986-51-A	24 July 1986
Cosmos-1764	1986-53-A	11 September 1986
Cosmos-1765	1986-54-A	7 August 1986
Cosmos-1767	1986-56-A	16 August 1986
Cosmos-1768	1986-58-A	16 August 1986
Cosmos-1772	1986-63-A	3 September 1986
Cosmos-1773	1986-64-A	21 October 1986
Cosmos-1775	1986-66-A	17 September 1986
USA-19	1986-69-A	28 September 1986
Cosmos-1781	1986-72-A	1 October 1986
PRC-19	1986-76-A	23 October 1986
Cosmos-1784	1986-77-A	11 November 1986
Cosmos-1787	1986-81-A	4 November 1986
Cosmos-1789	1986-84-A	14 November 1986
Cosmos-1790	1986-85-A	18 November 1986

LIST OF GEOSTATIONARY SPACE STATIONS
BY ORBITAL POSITIONS

(RR 1042, RR 1060, RR 1488-1491)

(31.12.1986)

Orbital position			Space station		Frequency bands GHz																
					0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
178.0	W	A	USA	USASAT-13K				4		6												
175.0	W	A	PNG	PACSTAR A-2		1																
175.0	W	A	PNG	PACSTAR-2				4		6				12		14						
171.0	W	N	USA	TDRS WEST			2									14	15					
170.0	W	N	URS	GALS-4							7	8										
170.0	W	C	URS	LOUTCH P4									11			14						
170.0	W	N	URS	STATSIONAR-10				4	5	6												
170.0	W	A	URS	STATSIONAR-D2				4		6												
170.0	W	A	URS	TOR-5															18	19	20	45
170.0	W	C	URS	VOLNA-7	0	1																
169.5	W	A	URS	FOTON-3				4		6												
168.0	W	N	URS	POTOK-3				4														
160.0	W	N	URS	ESDRN									11			14						
159.0	W	A	URS	PROGNOZ-7			2	4														
149.0	W	N	USA	ATS-1	0			4		6												
146.0	W	A	MEX	AMIGO-2										12				17				
145.0	W	A	MEX	MORELOS 4				4		6				12		14						
145.0	W	A	URS	VOLNA-21M		1																
145.0	W	A	USA	FLTSATCOM-A PAC	0						7	8										
144.0	W	A	USA	USASAT-20B				4		6												
143.0	W	A	USA	US SATCOM 2-R				4		6												
143.0	W	N	USA	US SATCOM 5				4		6												
141.0	W	A	MEX	MORELOS 3				4		6				12		14						
141.0	W	A	USA	USASAT-17C				4		6												
139.0	W	N	USA	US SATCOM 1-R				4		6												
137.0	W	A	USA	USASAT-17B				4		6												
136.0	W	A	MEX	AMIGO-1										12				17				
136.0	W	A	USA	USASAT-16D										12		14						
135.0	W	N	USA	GOES WEST	0	1	2															
135.0	W	N	USA	US SATCOM-1				4		6												
135.0	W	N	USA	USGCSS PH2 E PAC							7	8										
135.0	W	N	USA	USGCSS PH3 E PAC			C2				7	8										
134.0	W	N	USA	USASAT-11D				4		6												
134.0	W	A	USA	USASAT-16C										12		14						
132.0	W	A	USA	USASAT-11C										12		14						
131.0	W	N	USA	US SATCOM 3-R				4		6												
130.0	W	A	USA	ACS-3		1																
130.0	W	A	USA	USASAT-10D										12		14						
130.0	W	A	USA	USRDSS WEST		1	2		5	6												
128.0	W	A	USA	ACS-1				4		6				12		14						
128.0	W	N	USA	COMSTAR D-1				4		6												
126.0	W	A	USA	USASAT-10C										12		14						
126.0	W	A	USA	USASAT-20A				4		6												
124.0	W	A	USA	USASAT-10B										12		14						
123.5	W	N	USA	WESTAR-2				4		6												

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Orbital position			Space station		Frequency bands GHz																
					0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
123.0	W	N	USA	WESTAR-5				4		6												
122.0	W	C	USA	USASAT-10A										12		14						
120.0	W	C	USA	SPACENET-1				4		6				12		14						
119.0	W	N	USA	US SATCOM-2				4		6												
117.5	W	N	CAN	ANIK C-3										12		14						
116.5	W	N	MEX	MORELOS 2				4		6				12		14						
113.5	W	N	MEX	MORELOS 1				4		6				12		14						
110.5	W	A	CAN	TELESAT E-B				4		6				12		14						
110.0	W	N	CAN	ANIK C-2										12		14						
109.0	W	N	CAN	ANIK B-1				4		6				12		14						
108.0	W	N	CAN	ANIK D-2				4		6												
107.5	W	N	CAN	ANIK C-1										12		14						
107.5	W	A	CAN	TELESAT E-A				4		6				12		14						
106.5	W	A	CAN	MSAT	0	1	2						11	12	13	14						
106.0	W	A	USA	GSTAR-1										12		14						
105.0	W	N	USA	ATS-5	0	1																
104.5	W	N	CAN	ANIK D-1				4		6												
103.0	W	A	USA	GSTAR-2										12		14						
101.0	W	A	USA	USASAT-16B										12		14						
101.0	W	C	USA	USASAT-17A				4														
100.0	W	A	USA	ACS-1		1																
100.0	W	A	USA	ACTS																19	20	30
100.0	W	N	USA	FLTSATCOM E PAC	0						7	8										
100.0	W	A	USA	FLTSATCOM-A E PAC	0						7	8									20	44
100.0	W	A	USA	USRDSS CENTRAL		1	2		5	6												
99.0	W	N	USA	USASAT-6B										12		14						
99.0	W	N	USA	WESTAR-1				4		6												
99.0	W	N	USA	WESTAR-4				4		6												
97.0	W	A	CUB	STSC-2				4		6												
97.0	W	C	USA	TELSTAR-3A				4		6												
97.0	W	N	USA	USASAT-6A										12		14						
95.0	W	N	USA	COMSTAR D-2				4		6												
95.0	W	N	USA	USASAT-6C										12		14						
93.5	W	N	USA	USASAT-12B				4		6												
93.0	W	A	USA	USASAT-16A										12		14						
91.0	W	A	USA	ADV. WESTAR 1				4		6				12		14						
91.0	W	C	USA	USASAT-9A										12		14						
91.0	W	A	USA	WESTAR 6-S				4		6												
91.0	W	N	USA	WESTAR-3				4		6												
89.0	W	A	ASETA	CONDOR-B				4		6												
88.5	W	C	USA	SPACENET-3				4		6				12		14						
88.5	W	A	USA	USASAT-12D				4		6												
87.0	W	N	USA	COMSTAR D-3				4		6												
87.0	W	A	USA	TELSTAR-3B				4		6												
87.0	W	A	USA	USASAT-9B										12		14						
86.0	W	N	USA	ATS-3	0																	

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Orbital position		Space station		Frequency bands GHz																	
				0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
86.0	W	C	USA	USASAT-3C				4		6											
85.0	W	A	ARG	NAHUEL-2				4		6			12		14						
85.0	W	A	USA	USASAT-9C									12		14						
83.0	W	A	CUB	STSC-1				4		6											
83.0	W	N	USA	USASAT-7B				4		6											
83.0	W	A	USA	USASAT-9D									12		14						
81.0	W	C	USA	USASAT-7D				4		6			12		14						
80.0	W	A	ARG	NAHUEL-1				4		6			12		14						
79.0	W	N	USA	TDRS CENTRAL			2								14	15					
79.0	W	A	USA	TDRS-C2			2								14						
79.0	W	A	USA	USASAT-11A									12		14						
79.0	W	C	USA	USASAT-12A				4		6											
77.5	W	A	ASETA	CONDOR-A				4		6											
77.0	W	A	USA	USASAT-11B									12		14						
76.0	W	C	USA	USASAT-12C				4		6											
75.4	W	N	CLM	SATCOL-1A				4		6											
75.4	W	N	CLM	SATCOL-1B				4		6											
75.0	W	N	CLM	SATCOL-2				4		6											
75.0	W	N	USA	GOES EAST	0	1	2														
75.0	W	A	USA	USASAT-18A									12		14						
74.0	W	C	USA	USASAT-7A				4		6											
73.0	W	A	USA	USASAT-18B									12		14						
72.0	W	A	ASETA	CONDOR-C				4		6											
72.0	W	A	USA	ACS-2		1															
72.0	W	C	USA	USASAT-8B				4		6											
71.0	W	A	USA	USASAT-18C									12		14						
70.0	W	N	B	SBTS A1				4		6											
70.0	W	A	USA	FLTSATCOM-B W ATL																20	44
70.0	W	A	USA	USRDSS EAST		1	2		5	6											
69.0	W	C	USA	USASAT-7C				4		6			12		14						
67.0	W	C	USA	USASAT-8A				4		6											
66.0	W	A	USA	USASAT-15D									12		14						
65.0	W	N	B	SBTS A2				4		6											
64.0	W	C	USA	USASAT-14D				4		6											
64.0	W	A	USA	USASAT-15C									12		14						
62.0	W	C	USA	USASAT-14C				4		6											
62.0	W	A	USA	USASAT-15B									12		14						
62.0	W	A	USA	USASAT-8B				4		6											
60.0	W	A	USA	USASAT-15A									12		14						
60.0	W	A	USA	USASAT-17D				4		6											
58.0	W	C	USA	USASAT-13E								11	12		14						
58.0	W	A	USA	USASAT-8C				4		6											
57.0	W	A	USA	USASAT-13H				4		6		11									
56.0	W	C	USA	USASAT-13D								11	12		14						
56.0	W	C	USAIT	INTELSAT IBS 304E				4		6		11	12		14						
56.0	W	C	USAIT	INTELSAT5A 304E				4		6		11			14						
55.0	W	A	G INM	INMARSAT AOR-WEST		1		4		6											
55.0	W	A	USA	USASAT-14B				4		6											
53.0	W	C	USAIT	INTELSAT IBS 307E				4		6		11	12		14						

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Orbital position		Space station		Frequency bands GHz																	
				0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
53.0	W	N	USAIT	INTELSAT4A ATL3				4		6											
53.0	W	N	USAIT	INTELSAT5 CONT1				4		6			11		14						
53.0	W	C	USAIT	INTELSAT5A CONT1				4		6			11		14						
53.0	W	A	USAIT	INTELSAT6 307E				4	5	6			11		14						
52.5	W	A	USA	USGCSS PH3 W ATL			C2				7	8									
50.0	W	C	USA	USASAT-13C									11		14						
50.0	W	C	USAIT	INTELSAT IBS 310E				4		6			11	12	14						
50.0	W	C	USAIT	INTELSAT4A ATL2				4		6											
50.0	W	N	USAIT	INTELSAT5 CONT2				4		6			11		14						
50.0	W	C	USAIT	INTELSAT5A CONT2				4		6			11		14						
50.0	W	A	USAIT	INTELSAT6 310E				4	5	6			11		14						
47.0	W	C	USA	USASAT-13B									11		14						
47.0	W	A	USA	USASAT-13J				4		6											
45.0	W	C	USA	USASAT-13F									11	12	14						
45.0	W	A	USA	USASAT-13I				C4		C6			11								
43.5	W	C	F	VIDEOSAT-3			2							12	14						
43.0	W	C	USA	USASAT-13G									11	12	14						
42.5	W	A	USA	USGCSS PH3 MID-ATL			2				7	8									
41.0	W	N	USA	TDRS EAST			2								14	15					
41.0	W	C	USA	USASAT-14A				4		6											
40.5	W	C	USAIT	INTELSAT IBS 319.5E				4		6			11	12	14						
40.5	W	C	USAIT	INTELSAT5A 319.5E				4		6			11		14						
37.5	W	C	F	VIDEOSAT-2			2							12	14						
37.5	W	C	USA	USASAT-13A									11		14						
34.5	W	N	USAIT	INTELSAT5 ATL4				4		6			11		14						
34.5	W	C	USAIT	INTELSAT5A ATL3				4		6			11		14						
34.5	W	A	USAIT	INTELSAT6 324.5E				4	5	6			11		14						
33.0	W	A	G	SKYNET 4D	0						7	8									45
31.0	W	C	G	UNISAT-1										12	14		17				
31.0	W	C	G	UNISAT-1 ATL										12	14						
31.0	W	A	IRL	EIRESAT-1									11			13					
31.0	W	N	USAIT	INTELSAT4A ATL4				4		6											
31.0	W	C	USAIT	INTELSAT5 ATL6				4		6			11		14						
31.0	W	C	USAIT	INTELSAT5A ATL6				4		6			11		14						
27.5	W	N	USAIT	INTELSAT5 ATL3				4		6			11		14						
27.5	W	N	USAIT	INTELSAT5A ATL2				4		6			11		14						
27.5	W	C	USAIT	INTELSAT6 332.5E				4	5	6			11		14						
26.5	W	N	URS	GALS-1							7	8									
26.5	W	C	URS	STATSIONAR-17				4	5	6											
26.5	W	A	URS	STATSIONAR-D1				4		6											
26.5	W	A	URS	TOR-1														18	19	20	45
26.5	W	A	URS	VOLNA-13	0	1															
26.0	W	N	F MRS	MARECS ATL1	0	1		4		6											
26.0	W	C	G INM	INMARSAT AOR-CENTRAL		1		4		6											
25.0	W	C	URS	GALS-9							7	8									
25.0	W	C	URS	LOUTCH P1									11		14						
25.0	W	A	URS	TOR-9														18	19	20	45
25.0	W	C	URS	VOLNA-1	0	1															
25.0	W	A	URS	VOLNA-1A	0	1															

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Orbital position		Space station	Frequency bands GHz																		
			0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
25.0 W	A	URS VOLNA-1M		1																
25.0 W	N	URSIK STATSIONAR-8				4	5													
24.5 W	N	USAIT INTELSAT5 ATL1				4		6			11			14						
24.5 W	N	USAIT INTELSAT5A ATL1				4		6			11			14						
24.5 W	C	USAIT INTELSAT6 335.5E				4	5	6			11			14						
24.0 W	A	G INM INMARSAT AOR-CENTRAL 2		1		4		6												
24.0 W	N	URS PROGNOZ-1			2															
23.0 W	C	F MRS MARECS ATL2	0	1		4		6												
23.0 W	N	USA FLTSATCOM ATL	0						7	8										
23.0 W	A	USA FLTSATCOM-A ATL	0						7	8										
23.0 W	A	USA FLTSATCOM-B E ATL																	20	44
21.5 W	C	USAIT INTELSAT MCS ATL C		1		4		6												
21.5 W	N	USAIT INTELSAT4A ATL1				4		6												
21.5 W	C	USAIT INTELSAT5 ATL5				4		6			11			14						
21.5 W	C	USAIT INTELSAT5A 338.5E				4		6			11			14						
20.0 W	C	LUX GDL-4						6			11	12		14						
19.0 W	N	D TV-SAT			2							12				17				
19.0 W	N	F TDF-1			C2						11					17				
19.0 W	A	F TDF-2			2						11	12				17				
19.0 W	N	F LST L-SAT			2							12	13	C14		17		19	20	30
19.0 W	A	I SARIT			2						11		13			17	18		20	30
19.0 W	A	LUX LUX-SAT										12				17				
19.0 W	A	SUI HELVESAT-1										12				17				
18.5 W	N	USA INTELSAT MCS ATL A		1		4		6												
18.5 W	C	USAIT INTELSAT IBS 341.5E				4		6			11	12		14						
18.5 W	N	USAIT INTELSAT5 ATL2				4		6			11			14						
18.5 W	C	USAIT INTELSAT5A ATL4				4		6			11			14						
18.0 W	N	BEL SATCOM PHASE-3							7	8										
18.0 W	N	BEL SATCOM-2							7	8										
16.5 W	C	USAIT INTELSAT IBS 343.5E				4		6			11	12		14						
16.5 W	C	USAIT INTELSAT4A 343.5E				4		6												
16.5 W	C	USAIT INTELSAT5 343.5E				4		6			11			14						
16.5 W	C	USAIT INTELSAT5A 343.5E				4		6			11			14						
16.0 W	N	URS WSDRN									11			14						
16.0 W	C	URS ZSSRD-2									11	12	13	14						
15.0 W	C	G INM INMARSAT AOR-EAST		1		4		6												
15.0 W	A	URS FOTON-1				4		6												
15.0 W	A	URS STATSIONAR-23				4		6												
15.0 W	N	USA MARISAT-ATL	0	1		4		6												
14.0 W	A	URS GOMS-1	0	1	2				7	8									20	28
14.0 W	N	URS LOUTCH-1									C11			C14						
14.0 W	A	URS MORE-14		1		4		6												
14.0 W	N	URS VOLNA-2		1																
14.0 W	N	URSIK STATSIONAR-4				C4		6												
13.5 W	N	URS POTOK-1				4														
12.5 W	A	F MAROTS-B	0	1																
12.0 W	C	F HIP HIPPARCOS			2															
12.0 W	N	USA USGCSS PH2 ATL							7	8										
12.0 W	N	USA USGCSS PH3 ATL			C2				7	8										

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Orbital position		Space station	Frequency bands GHz																		
			0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
11.0 W	C	F F-SAT 2			2							12		14					20	30
11.0 W	A	URS LOUTCH-6									11			14						
11.0 W	N	URS STATSIONAR-11				C4		6												
8.0 W	A	F TELECOM 2A			2	4		6	7	8		12		14						
8.0 W	N	F TELECOM-1A			2	4		6	7	8		12		14						
5.0 W	A	F TELECOM 2B			2	4		6	7	8		12		14						
5.0 W	N	F TELECOM-1B			2	4		6	7	8		12		14						
3.0 W	A	URS GALS-11							7	8										
3.0 W	A	URS STATSIONAR-22				4		6												
3.0 W	A	URS TOR-11																19	20	42
1.0 W	C	G SKYNET-4A	0						7	8										44
1.0 W	C	USAIT INTELSAT4A ATL2				4		6												
1.0 W	N	USAIT INTELSAT5 CONT4				4		6			11			14						
1.0 W	C	USAIT INTELSAT5A CONT4				4		6			11			14						
0.0 E	N	F GEO GEOS-2	0																	
0.0 E	N	F MET METEOSAT	0	1	2															
0.0 E	A	G SKYNET-A	0						7	8										44
1.0 E	C	LUX GDL-5						6			11	12	13	14						
3.0 E	A	F TELECOM 2C			2	4		6	7	8		12		14						
3.0 E	C	F TELECOM-1C			2	4		6	7	8		12		14						
5.0 E	N	F OTS OTS	0								11			14						
5.0 E	C	S NOT TELE-X			2							12		14		17				
6.0 E	C	G SKYNET-4B	0						7	8										44
7.0 E	C	F F-SAT 1			2	4		6											20	30
7.0 E	N	F EUT EUTELSAT 1-3									11	12		14						
7.0 E	A	F EUT EUTELSAT 2-7E			2															
8.0 E	C	URS GALS-7							7	8										
8.0 E	C	URS STATSIONAR-18				4	5	6												
8.0 E	A	URS TOR-8															18	19	20	45
8.0 E	A	URS VOLNA-15	0	1																
10.0 E	A	F APEX			C2	C4		C6											C20	C30
10.0 E	N	F EUT EUTELSAT 1	0								C11	C12		C14						
12.0 E	N	URS PROGNOZ-2			2															
13.0 E	N	F EUT EUTELSAT 1-2	0								C11	C12		C14						
13.0 E	A	F EUT EUTELSAT 2-13E			2															
13.0 E	A	I ITALSAT			C2													18	C19	C20	C40
14.0 E	A	NIG NIGERIA-1				4	5													
15.0 E	C	ISR AMS-1				4		6			11			14						
15.0 E	C	ISR AMS-2				4		6			11			14						
15.0 E	A	URS GALS-12							7	8										
15.0 E	A	URS TOR-12																19	20	42
16.0 E	A	F EUTELSAT 1-4	0								C11	C12		C14						
16.0 E	A	I SICRAL-1A	0						7	8		12		14					20	44
17.0 E	A	ARS SABS 1-2									11			14						
17.0 E	N	ARS SABS-1									11			14						
19.0 E	N	ARSARB ARABSAT 1-A			2	4		6												
19.2 E	N	LUX GDL6-F1						C6			11	C12		14						
20.0 E	A	NIG NIGERIA-2				4		6												
22.0 E	A	I SICRAL-1B	0						7	8		12		14					20	44

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Orbital position	Space station		Frequency bands GHz																	
			0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
23.0 E C	URS	GALS-8							7	8										
23.0 E C	URS	STATSIONAR-19				4	5	6												
23.0 E A	URS	TOR-7															18	19	20	45
23.0 E A	URS	VOLNA-17	0	1																
23.5 E C	D	DFS-1			2						11	12		14					20	30
26.0 E N	ARSARB	ARABSAT 1-B			2	4		6												
26.0 E A	IRN	ZOHREH-2									11			14						
28.5 E C	D	DFS-2			2						11	12		14					20	30
29.0 E N	F GEO	GEOS-2	0		2															
32.0 E C	F	VIDEOSAT-1			2							12		14						
34.0 E A	IRN	ZOHREH-1									11			14						
35.0 E N	URS	GALS-6							7	8										
35.0 E N	URS	PROGNOZ-3			2	4														
35.0 E N	URS	STATSIONAR-2				4	5	6												
35.0 E A	URS	STATSIONAR-D3				4		6												
35.0 E A	URS	TOR-2															18	19	20	45
35.0 E A	URS	VOLNA-11	0	1																
36.0 E A	F EUT	EUTELSAT 2-36E			2															
38.0 E A	PAK	PAKSAT-1										12		14						
40.0 E A	URS	LOUTCH-7									11			14						
40.0 E N	URS	STATSIONAR-12				C4	5	6												
41.0 E A	IRN	ZOHREH-4									11			14						
41.0 E A	PAK	PAKSAT-2										12		14						
45.0 E N	URS	GALS-2							7	8										
45.0 E C	URS	LOUTCH P2									11			14						
45.0 E N	URS	STATSIONAR-9				4	5	6												
45.0 E A	URS	STATSIONAR-D4				4		6												
45.0 E A	URS	TOR-3															18	19	20	45
45.0 E C	URS	VOLNA-3	0	1																
45.0 E A	URS	VOLNA-3M		1																
47.0 E A	IRN	ZOHREH-3									11			14						
53.0 E A	G	SKYNET-4C	0						C7	C8										44
53.0 E N	URS	LOUTCH-2									C11			C14						
53.0 E A	URS	MORE-53		1		4		6												
53.0 E N	URS	VOLNA-4		1																
53.0 E N	URSIK	STATSIONAR-5				C4		6												
57.0 E N	USAIT	INTELSAT5 INDOC3				4		6			11			14						
57.0 E C	USAIT	INTELSAT5A INDOC2				4		6			11			14						
57.0 E C	USAIT	INTELSAT6 57E				4	5	6			11			14						
58.0 E A	URS	GALS-13							7	8										
58.0 E A	URS	STATSIONAR-24				4		6												
58.0 E A	URS	TOR-13																19	20	42
60.0 E N	USA	USGCSS PH2 INDOC							7	8										
60.0 E N	USA	USGCSS PH3 INDOC			C2				7	8										
60.0 E N	USAIT	INTELSAT MCS INDOC B		1		4		6												
60.0 E N	USAIT	INTELSAT5 INDOC2				4		6			11			14						
60.0 E N	USAIT	INTELSAT5A INDOC1				4		6			11			14						
60.0 E C	USAIT	INTELSAT6 60E				4	5	6			11			14						
63.0 E N	USAIT	INTELSAT MCS INDOC A		1		4		6												

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Orbital position	Space station		Frequency bands GHz																	
			0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
63.0 E N	USAIT	INTELSAT5 INDOC1				4		6			11			14						
63.0 E C	USAIT	INTELSAT5A INDOC3				4		6			11			14						
64.5 E C	F MRS	MARECS INDOC1	0	1		4		6												
64.5 E C	G INM	INMARSAT IOR		1		4		6												
65.0 E C	I	SIRIO	0									11	12							
66.0 E N	USAIT	INTELSAT MCS INDOC D		C1		C4		C6												
66.0 E N	USAIT	INTELSAT5 INDOC4				4		6			11			14						
66.0 E C	USAIT	INTELSAT5A 66E				4		6			11			14						
66.5 E A	G INM	INMARSAT IOR-2		1		4		6												
69.0 E A	URS	GALS-14							7	8										
69.0 E A	URS	STATSIONAR-20				4		6												
69.0 E A	URS	TOR-14																19	20	42
70.0 E A	CHN	STW-2				4		6												
72.0 E A	USA	FLTSATCOM-A INDOC	0						7	8										
72.5 E N	USA	MARISAT-INDOC	0		C2	C4		C6												
73.0 E C	F MRS	MARECS INDOC2	0	1		4		6												
74.0 E N	IND	INSAT-1B	0			4	5	6												
74.0 E A	IND	INSAT-2C	0			4	5	6												
75.0 E N	USA	FLTSATCOM INDOC	0						7	8										
75.0 E A	USA	FLTSATCOM-B INDOC																	20	44
76.0 E A	URS	GOMS	0						7	8									20	28
76.0 E C	URS	GOMSS	0	1	2															
77.0 E N	INS	PALAPA-A2				4		6												
77.0 E N	URS	CSSRD-2										11	12	13	14					
80.0 E A	URS	LOUTCH-8										11			14					
80.0 E N	URS	POTOK-2				4														
80.0 E N	URS	PROGNOZ-4			C2	C4														
80.0 E N	URS	STATSIONAR-1				4	5	6												
80.0 E C	URS	STATSIONAR-13				4		6												
81.5 E A	URS	FOTON-2				4		6												
83.0 E C	IND	INSAT-1D	0		2	4	5	6												
83.0 E A	IND	INSAT-2A	0			4	5	6												
83.0 E N	INS	PALAPA-A1				4		6												
85.0 E N	URS	GALS-3							7	8										
85.0 E C	URS	LOUTCH P3										11		14						
85.0 E N	URS	STATSIONAR-3				4	5	6												
85.0 E A	URS	STATSIONAR-D5				4		6												
85.0 E A	URS	TOR-4															18	19	20	45
85.0 E C	URS	VOLNA-5	0	1																
85.0 E A	URS	VOLNA-5M		1																
87.5 E A	CHN	CHINASAT-1				4		6												
90.0 E N	URS	LOUTCH-3										11		14						
90.0 E A	URS	MORE-90		1		4		6												
90.0 E N	URS	VOLNA-8		1																
90.0 E N	URSIK	STATSIONAR-6				4		6												
93.5 E N	IND	INSAT-1C	0			4	5	6												
93.5 E A	IND	INSAT-2B	0			4	5	6												
94.0 E N	IND	INSAT-1B	0		2	4	5	6												
95.0 E N	URS	CSDRN										11		14						

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Orbital position	Space station		Frequency bands GHz																	
			0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
96.5 E A	URS	LOUTCH-9									11			14						
96.5 E C	URS	STATSIONAR-14				4		6												
98.0 E A	CHN	CHINASAT-3				4		6												
99.0 E N	URS	STATSIONAR-T	0					6												
99.0 E N	URS	STATSIONAR-T2	0					6												
103.0 E A	CHN	STW-2				4		6												
103.0 E A	URS	LOUTCH-5									11			14						
103.0 E C	URS	STATSIONAR-21				4	5	6												
108.0 E N	INS	PALAPA-B1				4		6												
110.0 E N	J	BS-2			2							12		14						
110.0 E A	J	BS-3			2							12		14						
110.0 E N	J	BSE			2									14						
110.5 E A	CHN	CHINASAT-2				4		6												
113.0 E N	INS	PALAPA-B2				4		6												
118.0 E C	INS	PALAPA-B3				4		6												
124.0 E A	J	SCS-1B										12		14		17	18	19		28
125.0 E N	CHN	STW-1				4		6												
128.0 E A	J	SCS-1A										12		14		17	18	19		28
128.0 E C	URS	GALS-10							7	8										
128.0 E N	URS	STATSIONAR-15				4	5	6												
128.0 E A	URS	STATSIONAR-D6				4		6												
128.0 E A	URS	TOR-6															18	19	20	45
128.0 E A	URS	VOLNA-9	0	1																
128.0 E A	URS	VOLNA-9M		1																
130.0 E N	J	ETS-2	0	1	2						11									34
130.0 E N	URS	GALS-5							7	8										
130.0 E A	URS	PROGNOZ-5			2															
130.0 E A	URS	TOR-10															18	19	20	45
132.0 E N	J	CS-2A			2	4		6								17	18	19		28
132.0 E A	J	CS-3A				4		6								17	18	19		40
135.0 E N	J	CSE			2	4		6								17	18	19	20	30
136.0 E N	J	CS-2B			2	4		6								17	18	19		28
136.0 E A	J	CS-3B				4		6								17	18	19		40
140.0 E N	J	GMS	0	1	2															
140.0 E N	J	GMS-2	0	1	2															
140.0 E N	J	GMS-3	0	1	2															

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Orbital position	Space station		Frequency bands GHz																	
			0	1	2	4	5	6	7	8	11	12	13	14	15	17	18	19	20	>20
140.0 E N	URS	LOUTCH-4									11			14						
140.0 E A	URS	MORE-140		1		4		6												
140.0 E N	URS	STATSIONAR-7				4		6												
140.0 E N	URS	VOLNA-6		1																
145.0 E C	URS	STATSIONAR-16				4		6												
150.0 E C	J	CSE				4		6												
150.0 E C	J	ETS-5		1	2		5	6												
150.0 E A	J	JCSAT-1										12		14						
154.0 E A	J	JCSAT-2										12		14						
156.0 E N	AUS	AUSSAT-1										12	13	14						
160.0 E N	AUS	AUSSAT-2										12	13	14						
160.0 E N	J	GMS-160E	0	1	2															
164.0 E A	AUS	AUSSAT PAC3										12		14						
164.0 E N	AUS	AUSSAT-3										12	13	14						
166.0 E A	URS	GOMS-2	0	1	2				7	8									20	28
166.0 E A	URS	PROGNOZ-6			2															
167.0 E A	PNG	PACSTAR A-1		1																
167.0 E A	PNG	PACSTAR-1				4		6				12		14						
167.0 E N	URS	VSSRD-2									11	12	13	14						
172.0 E N	USA	FLTSATCOM W PAC	0						7	8										
172.0 E A	USA	FLTSATCOM-A W PAC	0						7	8									20	44
174.0 E N	USAIT	INTELSAT4A PAC1				4		6												
174.0 E N	USAIT	INTELSAT5 PAC1				4		6			11			14						
174.0 E C	USAIT	INTELSAT5A PAC1				4		6			11			14						
175.0 E N	USA	USGCSS PH2 W PAC							7	8										
175.0 E N	USA	USGCSS PH3 W PAC			C2				7	8										
176.5 E N	USA	MARISAT-PAC	0	1		4		6												
177.0 E N	USAIT	INTELSAT4A PAC2				4		6												
177.0 E C	USAIT	INTELSAT5 PAC2				4		6			11			14						
177.0 E C	USAIT	INTELSAT5A PAC2				4		6			11			14						
177.5 E N	F MRS	MARECS PAC1	0	1		4		6												
179.0 E N	USAIT	INTELSAT4A PAC2				4		6												
179.5 E A	G INM	INMARSAT AOR-POR-1		1		4		6												
180.0 E N	USAIT	INTELSAT MCS PAC A		C1		C4		C6												
180.0 E N	USAIT	INTELSAT5 PAC3				4		6			11			14						
180.0 E C	USAIT	INTELSAT5A PAC3				4		6			11			14						

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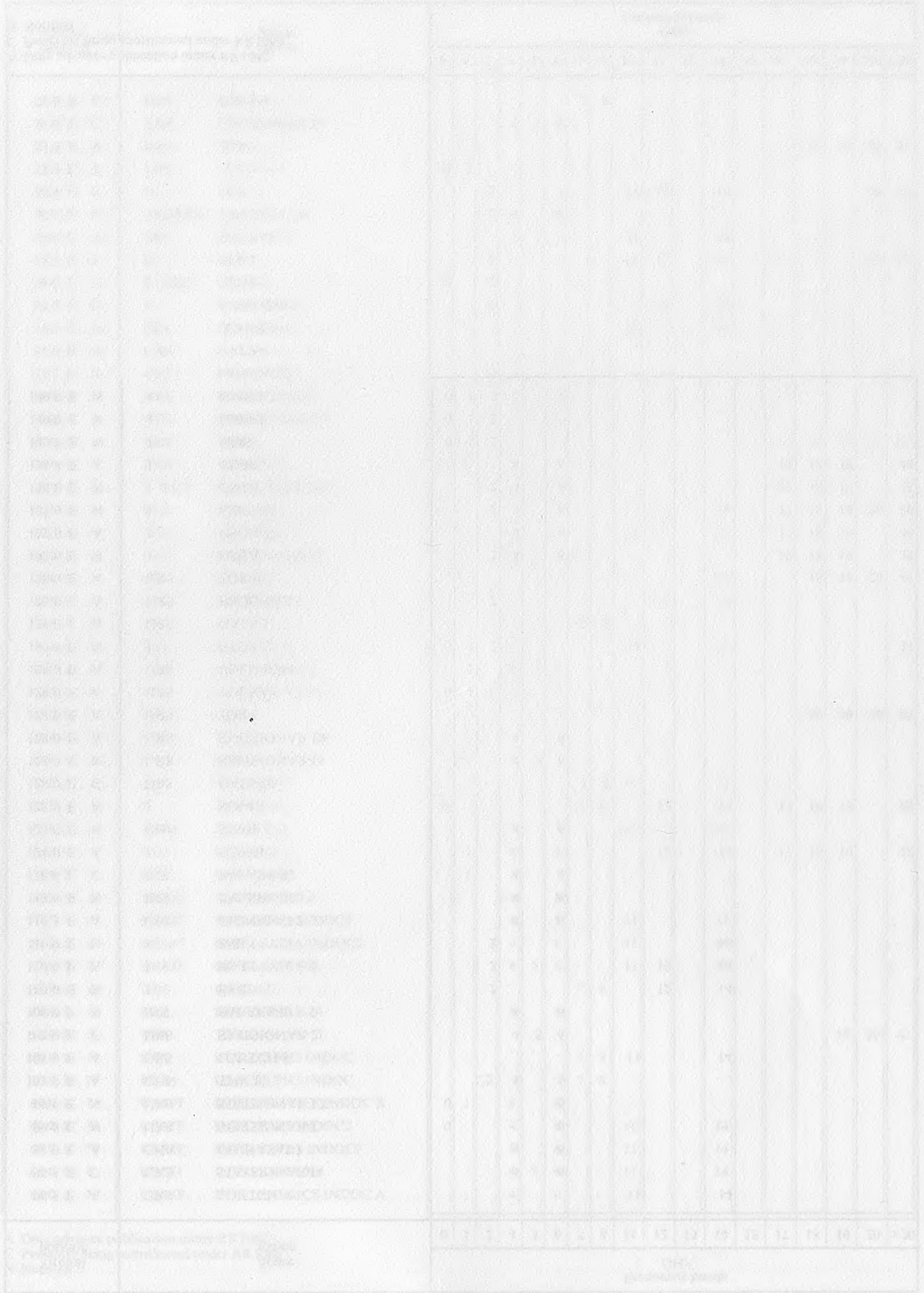
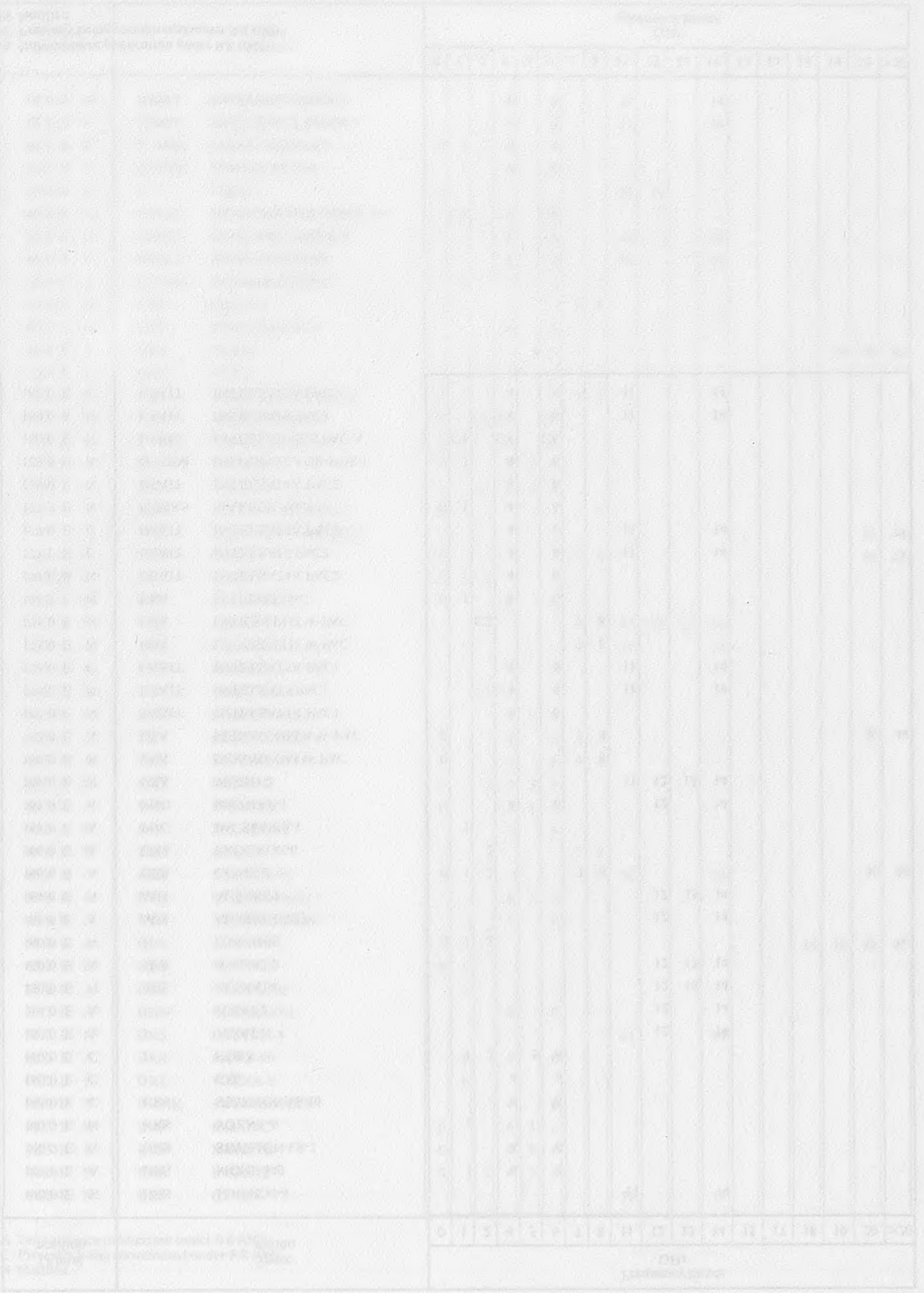
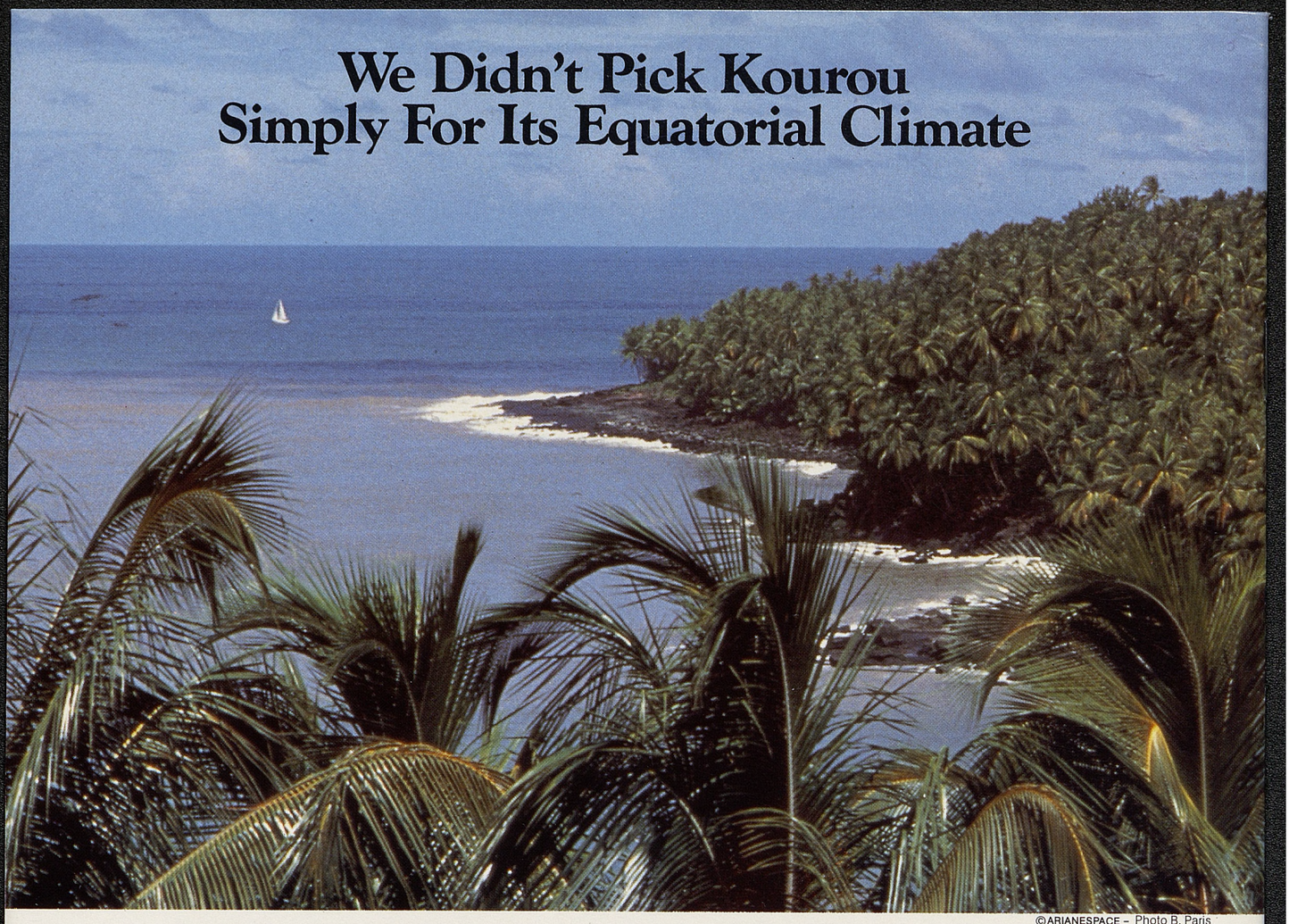




We Didn't Pick Kourou Simply For Its Equatorial Climate



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We Wanted To Add As Much As 2 Years To The Potential Lifespan Of Your Satellite

Each time Europe's Ariane rocket lifts off from our launch center at Kourou, it gets a helping hand from a rather elegant and unexpected source.
Mother Nature.

That's because Kourou is optimally located for the launching of commercial satellites – – just 5 degrees north of the equator, where the rotational velocity of the Earth is greatest.

In fact, Kourou is at least 10% more efficient than launch sites located further north.

That means significant boost phase fuel economies for us. And important mass payload gains in geosynchronous orbit for you.

Kourou's unique geographical location also means we can launch due east into GTO, or due north into a sun-synchronous orbit.
But that's not all.

By launching from Kourou, Arianespace ensures that your satellite is a parsimonious fuel-sipper, too.

Since we boost straight from the equator into GTO (and with unrivaled accuracy – to about ± 36 kilometers after a 36,000 km flight), an apogee kick motor doesn't have to work overtime to keep your satellite in its correct position.
Payoff?
Appreciable savings of precious on-board propellant.
A potential 2 year gain in added productivity for your investment.
And millions of dollars in added transponder revenues.
Not to mention the added security of extra hydrazine reserves.
Granted, Kourou's climate does represent an undeniable asset.
It's true that we've never had to delay a launch because of bad weather.
But we think there are more compelling reasons to launch from Kourou than the allure of its equatorial sun and sea alone.

Arianespace – The Sensible Choice For The World's Commercial Space Industry.

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