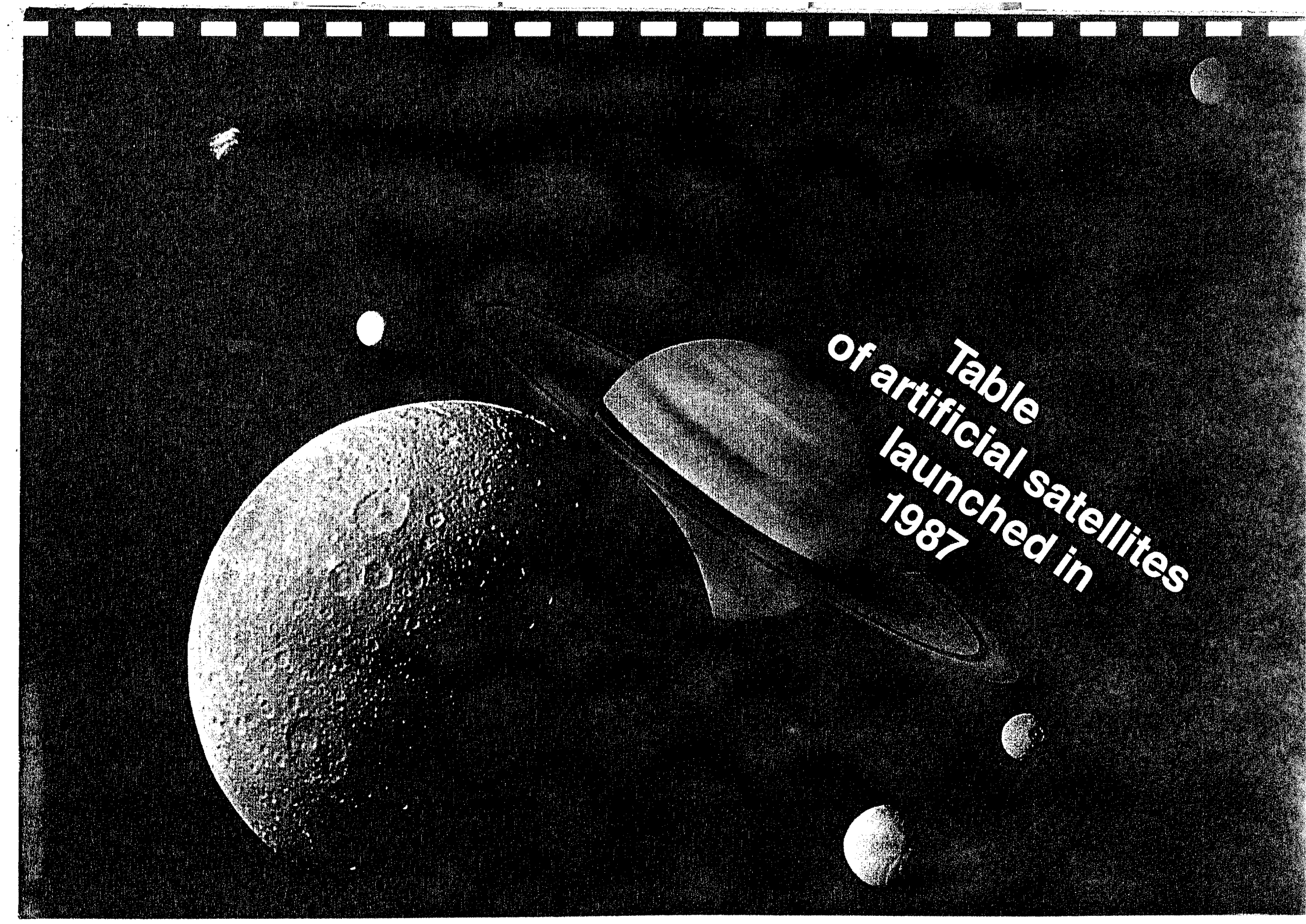
Table
of artificial satellites
launched in
1987

A

Astro-3	1987-12-A
Aussat-K3	1987-78-A

C

Cosmos-1811	1987-2-A
Cosmos-1812	1987-3-A
Cosmos-1813	1987-4-A
Cosmos-1814	1987-6-A
Cosmos-1815	1987-7-A
Cosmos-1816	1987-9-A
Cosmos-1817	1987-10-A
Cosmos-1818	1987-11-A
Cosmos-1819	1987-14-A
Cosmos-1820	1987-16-A
Cosmos-1821	1987-17-A
Cosmos-1822	1987-19-A
Cosmos-1823	1987-20-A
Cosmos-1824	1987-21-A
Cosmos-1825	1987-24-A
Cosmos-1826	1987-25-A
Cosmos-1827	1987-26-A
Cosmos-1828	1987-26-B
Cosmos-1829	1987-26-C
Cosmos-1830	1987-26-D
Cosmos-1831	1987-26-E
Cosmos-1832	1987-26-F
Cosmos-1833	1987-27-A
Cosmos-1834	1987-31-A
Cosmos-1835	1987-32-A
Cosmos-1836	1987-33-A
Cosmos-1837	1987-35-A
Cosmos-1838	1987-36-A
Cosmos-1839	1987-36-B
Cosmos-1840	1987-36-C
Cosmos-1841	1987-37-A
Cosmos-1842	1987-38-A
Cosmos-1843	1987-39-A
Cosmos-1844	1987-41-A
Cosmos-1845	1987-42-A
Cosmos-1846	1987-45-A
Cosmos-1847	1987-46-A
Cosmos-1848	1987-47-A
Cosmos-1849	1987-48-A
Cosmos-1850	1987-49-A
Cosmos-1851	1987-50-A
Cosmos-1852	1987-51-A
Cosmos-1853	1987-51-B
Cosmos-1854	1987-51-C
Cosmos-1855	1987-51-D
Cosmos-1856	1987-51-E
Cosmos-1857	1987-51-F
Cosmos-1858	1987-51-G
Cosmos-1859	1987-51-H
Cosmos-1860	1987-52-A
Cosmos-1861	1987-54-A
Cosmos-1862	1987-55-A
Cosmos-1863	1987-56-A
Cosmos-1864	1987-57-A
Cosmos-1865	1987-58-A
Cosmos-1866	1987-59-A
Cosmos-1867	1987-60-A
Cosmos-1868	1987-61-A
Cosmos-1869	1987-62-A
Cosmos-1870	1987-64-A
Cosmos-1871	1987-65-A
Cosmos-1872	1987-69-A
Cosmos-1873	1987-71-A
Cosmos-1874	1987-72-A
Cosmos-1875	1987-74-A
Cosmos-1876	1987-74-B
Cosmos-1877	1987-74-C
Cosmos-1878	1987-74-D
Cosmos-1879	1987-74-E
Cosmos-1880	1987-74-F
Cosmos-1881	1987-76-A
Cosmos-1882	1987-77-A
Cosmos-1883	1987-79-A
Cosmos-1884	1987-79-B
Cosmos-1885	1987-79-C
Cosmos-1886	1987-81-A
Cosmos-1887	1987-83-A
Cosmos-1888	1987-84-A
Cosmos-1889	1987-85-A
Cosmos-1890	1987-86-A
Cosmos-1891	1987-87-A
Cosmos-1892	1987-88-A
Cosmos-1893	1987-89-A
Cosmos-1894	1987-91-A
Cosmos-1895	1987-92-A
Cosmos-1896	1987-93-A
Cosmos-1897	1987-96-A
Cosmos-1898	1987-98-A
Cosmos-1899	1987-99-A
Cosmos-1900	1987-101-A
Cosmos-1901	1987-102-A
Cosmos-1902	1987-103-A
Cosmos-1903	1987-105-A
Cosmos-1904	1987-106-A
Cosmos-1905	1987-107-A
Cosmos-1906	1987-108-A
Cosmos-1907	1987-110-A

E

ECS-4	1987-78B
ETS-5	1987-70-A
Ekran-16	1987-73-A
Ekran-17	1987-109-A
Eutelsat-1 F4	1987-78B

G

Ginga	1987-12-A
Goes-7	1987-22-A
Gorizont-14	1987-40-A

K

Kiku-5	1987-70-A
Kvant-1	1987-30-A

M

Momo-1	1987-18-A
MOS-1	1987-18-A
Meteor-2 (15)	1987-1-A
Meteor-2 (16)	1987-68-A
Molnya-3 (31)	1987-8-A

O

Oscar-27	1987-80-A
Oscar-28	1987-80-B

P

PRC-20	1987-67-A
PRC-21	1987-75-A
Palapa-B2 P	1987-29-A
Progress-27	1987-5-A
Progress-28	1987-23-A
Progress-29	1987-34-A
Progress-30	1987-44-A
Progress-31	1987-66-A
Progress-32	1987-82-A
Progress-33	1987-94-A

R

Raduga-20	1987-28-A
Raduga-21	1987-100-A

S

Soyuz-TM 3	1987-63-A
Soyuz-TM 4	1987-104-A
Soyuz-TM2	1987-13-A

T

TVSat-1	1987-95-A

U

USA-21	1987-15-A
USA-22	1987-43-A
USA-23	1987-43-E
USA-24	1987-43-F
USA-25	1987-43-H
USA-26	1987-53-A
USA-27	1987-90-A
USA-28	1987-97-A

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)*		
Meteor-2 (15) 2750 kg	1987-1-A	USSR (Plesetsk)	5 Jan.	950 973	104 82.5	137.85 MHz	Meteorology. Equipment for obtaining global pictures of cloud cover
Cosmos-1811	1987-2-A	USSR (Baikonur)	9 Jan.	181 367	89.7 55		Recovered on 13 February 1987
Cosmos-1812	1987-3-A	USSR	14 Jan.	648 677	97.8 82.5		
Cosmos-1813	1987-4-A	USSR	15 Jan.	208 387	90 72.8		exploded ?
Progress-27 modified *Soyuz* without the descent section; 7 tonnes at launch	1987-5-A	USSR (Baikonur)	16 Jan.	189 280	88.9 51.6		Expendable supply craft. Docked with *Mir* orbital station on 18 January 1987. Decayed on 25 February 1987
Cosmos-1814	1987-6-A	USSR	21 Jan.	775 815	100.7 74		
Cosmos-1815	1987-7-A	USSR	22 Jan.	345 558	93.5 50.7		Decayed on 15 November 1988
Molnya-3 (31) 3 axis stabilized; 1500 kg	1987-8-A	USSR (Plesetsk)	22 Jan.	473 40 800	736 62.8	5.9-6.2 GHz (reception) 3.6-3.9 GHz (emission)	Television and multichannel radiocommunications
Cosmos-1816	1987-9-A	USSR	29 Jan.	979 1024	104.9 82.9		
Cosmos-1817	1987-10-A	USSR	30 Jan.	192 224	88.4 51.6		Decayed on 31 January 1987
Cosmos-1818	1987-11-A	USSR	1 Feb.	790 810	100.7 65		
Astro-3 (Ginga)	1987-12-A	Japan Institute of Space and Astronautical Science (Kagoshima)	5 Feb.	528 593	95.9 31.2	400.0; 2280.5 MHz (telemetry)	High-energy astrophysics research; large-area X-ray counter, all-sky X-ray monitor and g-ray burst detector

Soyuz-TM2	1987-13-A	USSR (Baikonur)	5 Feb.				Crew: Y. Romanenko (commander) and A. Laveikin (flight engineer). Docked with the *Mir/Progress-27* orbital complex on 7 February 1987. Returned to Earth on 30 July 1987
Cosmos-1819	1987-14-A	USSR	7 Feb.	197 254	88.7 72.8		Recovered on 18 February 1987
USA-21	1987-15-A	United States Department of Defense	12 Feb.				
Cosmos-1820	1987-16-A	USSR	14 Feb.	185.9 273.2	88.8 64.8		Decayed on 5 March 1987
Cosmos-1821	1987-17-A	USSR	18 Feb.	983 1029	105 82.9		
MOS-1 (Momo-1) 740 kg	1987-18-A	Japan National Space Development Agency (Tanegashima)	19 Feb.	903 917	103 99.1	136.112 MHz 1 W 2220.00 MHz 0.4/0.035 W 8150; 8350 MHz 5 W 1702.4848 MHz 0.056 W	
Cosmos-1822	1987-19-A	USSR	19 Feb.	205 331.5	89.5 73		Decayed on 5 March 1987
Cosmos-1823	1987-20-A	USSR	20 Feb.	1497 1538	116 73.6		
Cosmos-1824	1987-21-A	USSR	26 Feb.	177 370	89.7 67.2		Decayed on 22 April 1987
GOES-7	1987-22-A	United States (Eastern Test Range)	26 Feb.	33 363 36 084	1382.1 0.6		Meteorology, international search and rescue
Progress-28 modified *Soyuz* spacecraft without the descent section; 7 tonnes at launch	1987-23-A	USSR (Baikonur)	3 March	191 272	88.8 51.6		Expendable supply vehicle. Docked with the *Mir* orbital station on 5 March 1987 and decayed on 28 March 1987

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-1825	1987-24-A	USSR	3 March	649 677	97.7 82.5		
Cosmos-1826	1987-25-A	USSR	11 March	206 401	90.3 72.9		Recovered on 25 March 1987
Cosmos-1827	1987-26-A	USSR (Plesetsk)	13 March	1393 1409	113.8 82.6		Six satellites launched by the same launcher
Cosmos-1828	1987-26-B			1382 1409	113.7 82.6		
Cosmos-1829	1987-26-C			1408 1412	114.0 82.6		
Cosmos-1830	1987-26-D			1405 1409	113.9 82.6		
Cosmos-1831	1987-26-E			1388 1409	113.8 82.6		
Cosmos-1832	1987-26-F			1398 1409	113.9 82.6		
Cosmos-1833	1987-27-A	USSR	18 March	851 878	101.9 71		
Raduga-20 3-axis stabilized; 5 tonnes; solar panels	1987-28-A	USSR	19 March	35 967 in geostationary-satellite orbit	1445 1.3	5.7-6.2 GHz (reception) 3.4-3.9 GHz (emission)	Television and multichannel radiocommunications
Palapa-B2 P	1987-29-A	Indonesia Perumtel (Eastern Test Range)	20 March			6/4 GHz band	Communication satellite providing service to Indonesia and nearby Asian countries. Twenty-four transponders
Kvant-1	1987-30-A	USSR	31 March	177 320	89.2 51.6		Laboratory bay carrying scientific instruments for astrophysical observations and studies to the national economy. Docked with *Mir-1* on 5 April 1987
Cosmos-1834	1987-31-A	USSR	8 April	413 443	92.8 65		Decayed on 14 October 1988
Cosmos-1835	1987-32-A	USSR	9 April	180 367	89.7 65		Decayed on 4 June 1987

Cosmos-1836	1987-33-A	USSR	16 April	188 313	89.2 65		Decayed on 2 December 1987
Progress-29 modified *Soyuz* spacecraft without the descent section; 7 tonnes at launch	1987-34-A	USSR (Baikonur)	21 April	194 257	88.7 51.6		Expendable supply craft. Docked with *Mir-1* on 23 April 1987 and decayed on 11 May 1987
Cosmos-1837	1987-35-A	USSR	22 April	198 255	88.7 82		Recovered on 28 April 1987
Cosmos-1838 to **Cosmos-1840**	1987-36-A to 1987-36-C	USSR	24 April	213 17 550	312 64.7		
Cosmos-1841	1987-37-A	USSR	24 April	225 403	90.5 62.8		Scientific instruments for continuing space research begun by *Cosmos-1645* and *Cosmos-1744*. Preparation semiconductor materials with improved properties and pure biological preparation under conditions of micro-gravitation. Recovered on 8 May 1987
Cosmos-1842	1987-38-A	USSR	27 April	648 678	97.8 82.5		
Cosmos-1843	1987-39-A	USSR	5 May	214 312	89.5 70.4		Recovered on 19 May 1987
Gorizont-14 3-axis stabilized	1987-40-A	USSR (Baikonur)	11 May	35 174 in geostationary-satellite orbit	1401 0.52	5.7-6.2 GHz (reception) 3.4-3.9 GHz (emission)	Television and multichannel radiocommunications
Cosmos-1844	1987-41-A	USSR	13 May	861 879	102 71		
Cosmos-1845	1987-42-A	USSR	13 May	217 400	90.4 70		Recovered on 27 May 1987
USA-22 **USA-23** **USA-24** **USA-25**	1987-43-A 1987-43-E 1987-43-F 1987-43-H	United States Department of Defense (Western Test Range)	15 May				

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)*		
Progress-30 modified *Soyuz* spacecraft without the descent section; 7 tonnes at launch	1987-44-A	USSR (Baikonur)	19 May	192 265	88.8 51.6		Expendable supply craft. Docked with *Mir-1* on 21 May 1987 and delivered fuel, supplies and food for the crew. Decayed on 19 July 1987
Cosmos-1846	1987-45-A	USSR	21 May	196 314	89.2 82.4		Recovered on 4 June 1987
Cosmos-1847	1987-46-A	USSR	26 May	177 373	89.7 67.2		Decayed on 22 July 1987
Cosmos-1848	1987-47-A	USSR	28 May	208 400	90.2 72.9		Recovered on 11 June 1987
Cosmos-1849	1987-48-A	USSR	4 June	613 39 342	709 62.9		
Cosmos-1850	1987-49-A	USSR	9 June	785 825	100.8 74		
Cosmos-1851	1987-50-A	USSR	12 June	592 39 402	710 62.8		
Cosmos-1852 to **Cosmos-1859**	1987-51-A to 1987-51-H	USSR	16 June	1440 1507	115 74		Eight satellites launched by the same launcher
Cosmos-1860	1987-52-A	USSR	18 June	255 283	89.7 65		
USA-26	1987-53-A	United States Department of Defense	20 June				
Cosmos-1861	1987-54-A	USSR	23 June	995 1014	105 83		System for determining position of USSR ships and radio equipment to provide amateur radio links for scientific and educational experiments
Cosmos-1862	1987-55-A	USSR	1 July	645 679	97.7 82.5		

Cosmos-1863	1987-56-A	USSR	4 July	208 383	90.8 72.9		Recovered on 18 July 1987
Cosmos-1864	1987-57-A	USSR	6 July	977 1019	104.8 83		
Cosmos-1865	1987-58-A	USSR	8 July	204 327	89.5 64.8		Recovered on 14 August 1987
Cosmos-1866	1987-59-A	USSR	9 July	177 386	89.8 67		Decayed on 6 November 1987
Cosmos-1867	1987-60-A	USSR	10 July	797 813	100.8 65		
Cosmos-1868	1987-61-A	USSR	14 July	279 726	94.5 74		
Cosmos-1869	1987-62-A	USSR	16 July	647 679	97.8 82.5		Optical scanning, mechanical and radiophysical apparatus to obtain oceanographic data
Soyuz-TM 3	1987-63-A	USSR (Baikonur)	22 July				Crew: A. Viktorenko, A. Aleksandrov (USSR) and M. Faris (Syria). Docked with the *Mir* orbital complex on 30 July 1987. Returned to Earch on 29 December 1987
Cosmos-1870	1987-64-A	USSR	25 July	168	88.7		Instruments for remote sounding of the Earth's surface and oceans. The satellite was placed in orbit by a *Proton* booster rocket
Cosmos-1871	1987-65-A	USSR	1 Aug.	191 212	88.3 97		Recovered on 10 August 1987
Progress-31 modified *Soyuz* spacecraft without the descent section; 7 tonnes at launch	1987-66-A	USSR (Baikonur)	3 Aug.	193 269	88.8 51.6		Expendable supply craft. Docked with *Mir-1*. Decayed on 23 September 1987
PRC-20	1987-67-A	China (Jiuquan)	5 Aug.	171 395	90.2 63		Two microgravity experimental devices from a French company. Decayed on 23 August 1987
Meteor-2 (16) 2750 kg	1987-68-A	USSR (Plesetsk)	18 Aug.	954 974	104.1 82.5		Meteorology. Equipment for obtaining global images of cloud cover and the underlaying surface in the visible infrared bands
Cosmos-1872	1987-69-A	USSR	19 Aug.	208 333	89.6 72.9		Recovered on 30 August 1987

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)*		
ETS-5 (Kiku-5)	1987-70-A	Japan National Space Development Agency (Tanegashima)	27 Aug.	199 35 901	633 27.9		Launched by the *H-I* launch vehicle
Cosmos-1873	1987-71-A	USSR	28 Aug.	186 274	88.8 64.8		Recovered on 14 September 1987
Cosmos-1874	1987-72-A	USSR	3 Sept.	208 333	89.6 73		Recovered on 17 September 1987
Ekran-16 3-axis stabilized; 5 tonnes; solar cells	1987-73-A	USSR (Baikonur)	4 Sept.	35 539	0.4 1423 in geostationary-satellite orbit	5.7-6.2 GHz (reception) 3.4-3.9 GHz (emission)	Television relay
Cosmos-1875 to **Cosmos-1880**	1987-74-A to 1987-74-F	USSR (Plesetsk)	7 Sept.	1401 1437	82.6 114		
PRC-21	1987-75-A	China (Jiuquan)	9 Sept.	204 308	63 89.6		
Cosmos-1881	1987-76-A	USSR	11 Sept.	227 270	64.8 89.5		Decayed on 30 March 1988
Cosmos-1882	1987-77-A	USSR	15 Sept.	196 253	82.3 88.6		
Aussat-K3 Hughes-type *HS 376* spinstabilized cylinder; 650 kg; solar cells (1180 W)	1987-78-A	Australia AUSSAT (Kourou)	16 Sept.	35 506 35 814	0.1 1429.6 in geostationary-satellite orbit at 164° E	14/12 GHz band 3× 30 W 11× 12 W	Telecommunication and direct television
Eutelsat-1 F4 (ECS-4) 3-axis stabilized; 700 kg; 2 solar panels (1000 W)	1987-78-B	Europe European Space Agency (Kourou)	16 Sept.	35 690 35 989	0.2 1438 in geostationary-satellite orbit at 10° E	14/11 GHz band 14× 20 W	Telecommunications and distribution of television programmes. Fourteen transponders

Cosmos-1883 to **Cosmos-1885**	1987-79-A to 1987-79-C	USSR	16 Sept.	19 133	64.9 675		Objective: to develop the elements and apparatus of a space navigation system to determine the location of aircraft and ocean-going ships
Oscar-27 and **Oscar-28**	1987-80-A and 1987-80-B	International	16 Sept.	1018 1183 1017 1185	90.3 107.3 90.3 107.3		Amateur radio
Cosmos-1886	1987-81-A	USSR	17 Sept.	178 384	67.2 89.8		Recovered on 2 November 1987
Progress-32 modified *Soyuz* spacecraft without the descent section; 7 tonnes at launch	1987-82-A	USSR (Baikonur)	23 Sept.	193 267	51.6 88.8		Expendable supply craft. Docked with *Mir* orbital complex and delivered fuel and supplies for the crew. After undocking it disintegrated on re-entry on 19 November 1987
Cosmos-1887	1987-83-A	USSR	29 Sept.	224 406	90.5 62.8		Research into: the effects of spaceflight on monkeys and other living organisms, radiation safety and physics. Taking part in the studies are scientists from the European Space Agency, Czechoslovakia, France, German Democratic Republic, Hungary, Poland, Romania and the United States
Cosmos-1888	1987-84-A	USSR	1 Oct.	35 980	1443 1.4		
Cosmos-1889	1987-85-A	USSR	9 Oct.	216 400	90.4 70		Recovered on 23 October 1987
Cosmos-1890	1987-86-A	USSR	10 Oct.	414 442	92.9 65		Decayed on 26 December 1988
Cosmos-1891	1987-87-A	USSR	14 Oct.	957 1030	104.9 83		
Cosmos-1892	1987-88-A	USSR	20 Oct.	647 678	97.8 82.5		
Cosmos-1893	1987-89-A	USSR	22 Oct.	179 374	89.7 67		Decayed on 16 December 1987

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)*		
USA-27	1987-90-A	United States Department of Defense	26 Oct.				
Cosmos-1894	1987-91-A	USSR	28 Oct.	35 920	1442 1.3		
Cosmos-1895	1987-92-A	USSR	11 Nov.	217 402	90.4 70.4		Recovered on 26 November 1987
Cosmos-1896	1987-93-A	USSR	14 Nov.	203 319	89.4 64.8		Recovered on 25 December 1987
Progress-33 modified *Soyuz* spacecraft without the descent section; 7 tonnes at launch	1987-94-A	USSR (Baikonur)	21 Nov.	193 268	88.8 51.6		Expendable supply craft. Docked with *Mir-1* and disintegrated on re-entry on 19 December 1987
TVSat-1	1987-95-A	Fed. Rep. of Germany (Kourou)	21 Nov.	35 217 35 832	1422.8 0.1	12 GHz and 17 GHz bands	Direct broadcasting television
				in geostationary-satellite orbit at 19° W			
Cosmos-1897	1987-96-A	USSR	26 Nov.	35 770	1435 1.4	centimetre band	Experimental equipment for retransmitting telegraph and telephone information in the centimetric waveband
				in geostationary-satellite orbit			
USA-28	1987-97-A	United States Department of Defense	29 Nov.				
				in geostationary-satellite orbit			
Cosmos-1898	1987-98-A	USSR	1 Dec.	781 820	100.8 74		
Cosmos-1899	1987-99-A	USSR	7 Dec.	216 297	89.3 70.4		Recovered on 21 December 1987

Raduga-21 3-axis stabilized; 5 tonnes; solar panels	1987-100-A	USSR (Baikonur)	10 Dec.	35 437 35 705 in geostationary-satellite orbit	1425.1 1.5	5.7-6.2 GHz (reception) 3.4-3.9 GHz (emission)	Television and multichannel radiocommunications
Cosmos-1900	1987-101-A	USSR	12 Dec.	263 287	89.8 65		
Cosmos-1901	1987-102-A	USSR	14 Dec.	181 376	89.8 65		decayed on 3 February 1988
Cosmos-1902	1987-103-A	USSR	15 Dec.	373 417	92.4 66		decayed on 30 December 1988
Soyuz-TM 4	1987-104-A	USSR (Baikonur)	21 Dec.			121.750 MHz 166.128 MHz	Crew: V. Titov, M. Manarov, A. Levchenko. Relief crew for the space station *Mir-1*. Docked with *Mir* orbital complex on 23 December 1987 decayed on 17 June 1988
Cosmos-1903	1987-105-A	USSR	21 Dec.	614 39 342	709 62.8		
Cosmos-1904	1987-106-A	USSR	23 Dec.	989 1021	104.9 83		
Cosmos-1905	1987-107-A	USSR	25 Dec.	229 280	89.6 70.4		Recovered on 8 January 1988
Cosmos-1906	1987-108-A	USSR	26 Dec.	190 274	88.8 82.6		Earth resources exploration decayed on 13 Dec 1988
Ekran-17 3-axis stabilized; 5 tonnes; solar cells	1987-109-A	USSR (Baikonur)	27 Dec.	35 628 in geostationary-satellite orbit	1422 1.5	5.7-6.2 GHz (reception) 3.4-3.9 GHz (emission)	Television relay
Cosmos-1907	1987-110-A	USSR	29 Dec.	208 398	90.2 72.9		Recovered on 12 January 1988

LIST OF GEOSTATIONARY SPACE STATIONS
BY ORBITAL POSITIONS

(RR1042, RR1060, RR1488-1491)

(31.12.1987)

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
178.00 W C	USA	USASAT-13K				4		6												
177.00 W A	USA	FLTSATCOM-A W PAC	0						7	8										
175.00 W A	PNG	PACSTAR A-2		1			5	6												
175.00 W C	PNG	PACSTAR-2				4		6				12		14						
171.00 W N	USA	TDRS WEST			2									14	15					
170.00 W N	URS	GALS-4							7	8										
170.00 W N	URS	STATSIONAR-10				4	5	6												
170.00 W C	URS	STATSIONAR-D2				4		6												
170.00 W A	URS	TOR-5															18	19	20	45
170.00 W N	URS	VOLNA-7	0	1																
169.50 W A	URS	FOTON-3				4		6												
168.00 W N	URS	POTOK-3				4														
165.00 W A	USA	USASAT-13L									11	12		14						
160.00 W N	URS	ESDRN									11			14						
159.00 W C	URS	PROGNOZ-7			2	4														
155.00 W A	URS	STATSIONAR-26				4	5	6												
149.00 W N	USA	ATS-1	0			4		6												
146.00 W A	MEX	AMIGO-2										12				17				
146.00 W C	USA	USASAT-20C				4		6												
145.00 W A	MEX	MORELOS 4				4		6				12		14						
145.00 W A	URS	VOLNA-21M		1																
145.00 W A	USA	FLTSATCOM-A PAC	0						7	8										
144.00 W A	USA	USASAT-20B				4		6												
143.00 W A	USA	US SATCOM 2-R				4		6												
143.00 W N	USA	US SATCOM 5				4		6												
141.00 W A	MEX	MORELOS 3				4		6				12		14						
140.00 W C	USA	USASAT-17C				4		6												
139.00 W N	USA	US SATCOM 1-R				4		6												
137.00 W A	USA	USASAT-17B				4		6												
136.00 W A	MEX	AMIGO-1										12				17				
136.00 W C	USA	USASAT-16D										12		14						
135.00 W N	USA	GOES WEST	0	1	2															
135.00 W N	USA	US SATCOM-1				4		6												
135.00 W N	USA	USGCSS PH2 E PAC							7	8										
135.00 W N	USA	USGCSS PH3 E PAC			C2				7	8										
134.00 W N	USA	USASAT-11D				4		6												
134.00 W C	USA	USASAT-16C										12		14						
132.00 W C	USA	USASAT-11C										12		14						
131.00 W N	USA	US SATCOM 3-R				4		6												
130.00 W C	USA	ACS-3		1																
130.00 W C	USA	USASAT-10D										12		14						
130.00 W A	USA	USRDSS WEST		1	2		5	6												
128.00 W C	USA	ACS-1				4		6				12		14						

A Only advance publication under RR 1042
C Presently being coordinated under RR 1060
N Notified

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
128.00 W N	USA	COMSTAR D-1				4		6												
126.00 W C	USA	USASAT-10C										12		14						
126.00 W C	USA	USASAT-20A				4		6												
124.00 W C	USA	USASAT-10B										12		14						
123.50 W N	USA	WESTAR-2				4		6												
123.00 W N	USA	WESTAR-5				4		6												
122.00 W C	USA	USASAT-10A										12		14						
120.00 W C	USA	SPACENET-I				4		6				12		14						
119.00 W N	USA	US SATCOM-2				4		6												
117.50 W N	CAN	ANIK C-3										12		14						
116.50 W N	MEX	MORELOS 2				4		6				12		14						
113.50 W N	MEX	MORELOS 1				4		6				12		14						
110.50 W N	CAN	ANIK D-2				C4		C6												
110.50 W A	CAN	TELESAT E-B				4		6				12		14						
110.00 W N	CAN	ANIK C-2										12		14						
107.50 W N	CAN	ANIK C-1										12		14						
107.50 W A	CAN	TELESAT E-A				4		6				12		14						
106.50 W A	CAN	MSAT	0	C1	2						11	12	13	14						
105.00 W N	USA	ATS-5	0	1																
105.00 W N	USA	FLTSATCOM-A E PAC	0						7	8										
105.00 W C	USA	GSTAR-2										12		14						
104.50 W N	CAN	ANIK D-1				4		6												
103.00 W C	USA	GSTAR-1										12		14						
101.00 W C	USA	USASAT-16B										12		14						
101.00 W C	USA	USASAT-17A				4		6												
100.00 W A	USA	ACS-1		C1																
100.00 W A	USA	ACTS																19	20	30
100.00 W N	USA	FLTSATCOM E PAC	0						7	8										
100.00 W N	USA	FLTSATCOM-B E PAC																	20	44
100.00 W A	USA	USRDSS CENTRAL		1	2		5	6												
99.00 W N	USA	USASAT-6B										12		14						
99.00 W N	USA	WESTAR-I				4		6												
99.00 W N	USA	WESTAR-4				4		6												
97.00 W A	CUB	STSC-2				4		6												
97.00 W C	USA	TELSTAR-3A				4		6												
97.00 W N	USA	USASAT-6A										12		14						
95.00 W N	USA	COMSTAR D-2				4		6												
95.00 W N	USA	USASAT-6C										12		14						
93.50 W N	USA	USASAT-12B				4		6												
93.00 W C	USA	USASAT-16A										12		14						
91.00 W A	USA	ADV. WESTAR 1				4		6				12		14						
91.00 W C	USA	USASAT-9A										12		14						
91.00 W C	USA	WESTAR 6-S				4		6												

A Only advance publication under RR 1042
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N Notified

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
91.00 W N	USA	WESTAR-3				4		6												
89.00 W A	ASETA	CONDOR-B				4		6												
88.50 W C	USA	SPACENET-3				4		6				12		14						
88.50 W A	USA	USASAT-12D				4		6												
87.00 W N	USA	COMSTAR D-3				4		6												
87.00 W A	USA	TELSTAR-3B				4		6												
87.00 W A	USA	USASAT-9B										12		14						
86.00 W N	USA	ATS-3	0																	
86.00 W C	USA	USASAT-3C				4		6												
85.00 W A	ARG	NAHUEL-2				4		6				12		14						
85.00 W C	USA	USASAT-9C										12		14						
83.00 W A	CUB	STSC-1				4		6												
83.00 W N	USA	USASAT-7B				4		6												
83.00 W C	USA	USASAT-9D										12		14						
81.00 W N	USA	USASAT-7D				4		6				12		14						
80.00 W A	ARG	NAHUEL-1				4		6				12		14						
79.00 W N	USA	TDRS CENTRAL			2									14	15					
79.00 W A	USA	TDRS-C2			2									14						
79.00 W C	USA	USASAT-11A										12		14						
79.00 W C	USA	USASAT-12A				4		6												
77.50 W A	ASETA	CONDOR-A				4		6												
77.00 W C	USA	USASAT-11B										12		14						
76.00 W C	USA	USASAT-12C				4		6												
75.40 W N	CLM	SATCOL-1A				4		6												
75.40 W N	CLM	SATCOL-1B				4		6												
75.00 W N	CLM	SATCOL-2				4		6												
75.00 W N	USA	GOES EAST	0	1	2															
75.00 W C	USA	USASAT-18A										12		14						
74.00 W C	USA	USASAT-7A				4		6												
73.00 W C	USA	USASAT-18B										12		14						
72.00 W A	ASETA	CONDOR-C				4		6												
72.00 W C	USA	ACS-2		1																
72.00 W C	USA	USASAT-8B				4		6												
71.00 W C	USA	USASAT-18C										12		14						
70.00 W A	B	SATS-1				4		6												
70.00 W N	B	SBTS A1				4		6												
70.00 W A	USA	FLTSATCOM-B W ATL																	20	44
70.00 W A	USA	USRDSS EAST		1	2		5	6												
69.00 W C	USA	USASAT-7C				4		6				12		14						
67.00 W C	USA	USASAT-15D										12		14						
67.00 W C	USA	USASAT-8A				4		6												
65.00 W A	B	SATS-2				4		6												
65.00 W N	B	SBTS A2				4		6												
65.00 W A	B	SBTS B2				4	5	6												
65.00 W A	B	SBTS C2										12		14						
64.00 W C	USA	USASAT-14D				4		6												
64.00 W C	USA	USASAT-15C										12		14						

A Only advance publication under RR 1042
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N Notified

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
62.00 W C	USA	USASAT-14C				4		6												
62.00 W C	USA	USASAT-15B										12		14						
61.00 W A	B	SBTS B3				4	5	6												
61.00 W A	B	SBTS C3										12		14						
60.00 W A	BEL	SATCOM PHASE-3B							7	8										
60.00 W A	USA	USASAT-15A										12		14						
60.00 W A	USA	USASAT-17D				4		6												
58.00 W C	USA	USASAT-13E									11	12		14						
58.00 W A	USA	USASAT-8C				4		6												
57.00 W A	USA	USASAT-13H				4		6			11									
56.00 W C	USA	USASAT-13D									11	12		14						
56.00 W C	USAIT	INTELSAT IBS 304E				4		6			11	12		14						
56.00 W C	USAIT	INTELSAT5A 304E				4		6			11			14						
55.00 W A	G INM	INMARSAT AOR-WEST		1		4		6												
55.00 W A	USA	USASAT-14B				4		6												
53.00 W C	USAIT	INTELSAT IBS 307E				4		6			11	12		14						
53.00 W N	USAIT	INTELSAT5 CONT1				4		6			11			14						
53.00 W C	USAIT	INTELSAT5A CONT1				4		6			11			14						
53.00 W A	USAIT	INTELSAT6 307E				4	5	6			11			14						
52.50 W C	USA	USGCSS PH3 W ATL			2				7	8										
50.00 W C	USA	USASAT-13C									11			14						
50.00 W C	USAIT	INTELSAT IBS 310E				4		6			11	12		14						
50.00 W N	USAIT	INTELSAT5 CONT2				4		6			11			14						
50.00 W C	USAIT	INTELSAT5A CONT2				4		6			11			14						
50.00 W A	USAIT	INTELSAT6 310E				4	5	6			11			14						
47.00 W C	USA	USASAT-13B									11			14						
47.00 W C	USA	USASAT-13J				4		6												
45.00 W C	USA	USASAT-13F									11	12		14						
45.00 W A	USA	USASAT-13I			C4		C6				11									
43.50 W C	F	VIDEOSAT-3			2							12		14						
43.00 W C	USA	USASAT-13G									11	12		14						
42.50 W A	USA	USGCSS PH3 MID-ATL			2				7	8										
41.00 W N	USA	TDRS EAST			C2									14	15					
41.00 W C	USA	USASAT-14A				4		6												
40.50 W C	USAIT	INTELSAT IBS 319.5E				4		6			11	12		14						
40.50 W C	USAIT	INTELSAT5A 319.5E				4		6			11			14						
37.50 W C	F	VIDEOSAT-2			2							12		14						
37.50 W A	URS	STATSIONAR-25				4	5	6												
37.50 W C	USA	USASAT-13A									11			14						
34.50 W N	USAIT	INTELSAT5 ATL4				4		6			11			14						
34.50 W C	USAIT	INTELSAT5A ATL3				4		6			11			14						
34.50 W A	USAIT	INTELSAT6 324.5E				4	5	6			11			14						
34.00 W A	G INM	INMARSAT AOR-CENT 1A		1		4		6												
33.00 W A	G	SKYNET 4D	0						7	8										45
32.00 W A	G INM	INMARSAT AOR-CENT 2A		1		4		6												
31.00 W C	G	BSB-1										12		14						
31.00 W A	IRL	EIRESAT-1									11		13							

A Only advance publication under RR 1042
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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
31.00 W N	USAIT	INTELSAT4A ATL4				4		6												
31.00 W C	USAIT	INTELSAT5 ATL6				4		6			11			14						
31.00 W C	USAIT	INTELSAT5A ATL6				4		6			11			14						
27.50 W N	USAIT	INTELSAT5 ATL3				4		6			11			14						
27.50 W N	USAIT	INTELSAT5A ATL2				4		6			11			14						
27.50 W C	USAIT	INTELSAT6 332.5E				4	5	6			11			14						
26.50 W N	URS	GALS-1							7	8										
26.50 W C	URS	STATSIONAR-17				4	5	6												
26.50 W C	URS	STATSIONAR-1D1				4		6												
26.50 W A	URS	TOR-1															18	19	20	45
26.50 W C	URS	VOLNA-13	0	1																
26.00 W N	F ESA	MARECS ATL1	0	1		4		6												
26.00 W C	G INM	INMARSAT AOR-CENT		1		4		6												
25.00 W C	URS	GALS-9							7	8										
25.00 W N	URS	STATSIONAR-8				4	5													
25.00 W A	URS	TOR-9															18	19	20	45
25.00 W A	URS	VOLNA-1A	0	1																
25.00 W A	URS	VOLNA-1M		1																
24.50 W N	USAIT	INTELSAT5 ATL1				4		6			11			14						
24.50 W N	USAIT	INTELSAT5A ATL1				4		6			11			14						
24.50 W C	USAIT	INTELSAT6 335.5E				4	5	6			11			14						
24.00 W A	G INM	INMARSAT AOR-CENT 2		1		4		6												
24.00 W N	URS	PROGNOZ-1			2															
23.00 W N	USA	FLTSATCOM ATL	0						7	8										
23.00 W N	USA	FLTSATCOM-B E ATL																	20	44
21.50 W C	USAIT	INTELSAT MCS ATL C		1		4		6												
21.50 W N	USAIT	INTELSAT4A ATL1				4		6												
21.50 W C	USAIT	INTELSAT5A 338.5E				4		6			11			14						
20.00 W C	LUX	GDL-4						6						14						
20.00 W A	USA	ACS-4		1																
19.00 W N	D	TV-SAT 1			2							12				17				
19.00 W A	D	TV-SAT 2			2							12				17				
19.00 W N	F	TDF-1			C2						11					17				
19.00 W A	F	TDF-2			2						11	12				17				
19.00 W N	F ESA	L-SAT			2							12	13	C14		17		19	20	30
19.00 W A	I	SARIT			2						11		13			17	18		20	30
19.00 W A	LUX	LUX-SAT										12				17				
19.00 W A	SUI	SUI-19W/1										12				17				
18.50 W N	USA	INTELSAT MCS ATL A		C1		C4		C6												
18.50 W N	USAIT	INTELSAT5 ATL2				4		6			11			14						
18.00 W N	BEL	SATCOM PHASE-3							7	8										
18.00 W N	BEL	SATCOM-2							7	8										
18.00 W A	BEL	SATCOM-4	0						7	8										45
18.00 W A	URS	GOMS-1M	0	1	2				7	8									20	29
18.00 W C	USAIT	INTELSAT IBS 342E				4		6			11	12		14						
18.00 W C	USAIT	INTELSAT5A ATL4				4		6			11			14						
16.00 W N	URS	WSDRN									11			14						

A Only advance publication under RR 1042
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N Notified

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
16.00 W C	URS	ZSSRD-2									11	12	13	14						
15.00 W C	G INM	INMARSAT AOR-EAST		1		4		6												
15.00 W A	URS	FOTON-1				4		6												
15.00 W C	USA	FLTSATCOM-A ATL							7	8										
15.00 W N	USA	MARISAT-ATL	0	1		4		6												
14.00 W A	URS	GOMS-1	0	1	2				7	8									20	28
14.00 W N	URS	LOUTCH-1									C11			C14						
14.00 W C	URS	MORE-14		1		4		6												
14.00 W N	URS	VOLNA-2		1																
14.00 W N	URSIK	STATSIONAR-4			C4		C6													
13.50 W N	URS	POTOK-1			4															
12.00 W N	F ESA	HIPPARCOS			2															
12.00 W N	USA	USGCSS PH2 ATL							7	8										
12.00 W N	USA	USGCSS PH3 ATL			C2				7	8										
11.00 W C	F	F-SAT 2			2							12		14					20	30
11.00 W C	URS	LOUTCH-6									11			14						
11.00 W N	URS	STATSIONAR-11			C4		C6													
8.00 W N	F	TELECOM-1A			2	4		6	7	8		12		14						
8.00 W A	F	TELECOM-2A			2	C4		C6	C7	C8		C12		C14						
8.00 W A	F	ZENON-A		1	2						11			14						
5.00 W N	F	TELECOM-1B			2	4		6	7	8		12		14						
5.00 W A	F	TELECOM-2B			2	C4		C6	C7	C8		C12		C14						
3.00 W A	URS	GALS-11							7	8										
3.00 W A	URS	TOR-11																19	20	42
1.00 W C	G	SKYNET-4A	0						7	8										44
1.00 W N	USAIT	INTELSAT5 CONT4				4		6			11			14						
1.00 W C	USAIT	INTELSAT5A CONT4				4		6			11			14						
0.00 E N	F ESA	GEOS-2	0																	
0.00 E N	F ESA	METEOSAT	0	1	2															
0.00 E A	G	SKYNET-A	0						7	8										44
1.00 E C	LUX	GDL-5						6			11	12	13	14						
1.00 E A	URS	GALS-15							7	8										
1.00 E A	URS	TOR-15																19	20	45
1.00 E A	URS	VOLNA-21	0																	
3.00 E C	F	TELECOM-1C			2	4		6	7	8		12		14						
3.00 E A	F	TELECOM-2C			2	C4		C6	C7	C8		C12		C14						
5.00 E N	F ESA	OTS	0								11			14						
5.00 E N	S NOT	TELE-X			C2							12		14		C17				
5.00 E A	URS	TOR-19																19	20	45
6.00 E C	G	SKYNET-4B	0						7	8										44
7.00 E C	F	F-SAT 1			2	4		6											20	30
7.00 E N	F EUT	EUTELSAT 1-3	C0								C11	12		14						
7.00 E A	F EUT	EUTELSAT 2-7E			2						11	12		14						
8.00 E C	URS	GALS-7							7	8										
8.00 E C	URS	STATSIONAR-18				4	5	6												
8.00 E A	URS	TOR-8																19	20	45
8.00 E C	URS	VOLNA-15	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
10.00 E A	F	APEX			C2	C4		C6											C20	C30
10.00 E A	F EUT	EUTELSAT 2-10E			2						11	12		14						
10.00 E N	F EUT	EUTELSAT-1	C0								C11	12		14						
12.00 E A	URS	GALS-17							7	8										
12.00 E N	URS	PROGNOZ-2			2															
12.00 E A	URS	STATSIONAR-27				4		6												
12.00 E A	URS	TOR-18															18	19	20	21
12.00 E A	URS	VOLNA-27	0																	
13.00 E N	F EUT	EUTELSAT 1-2	C0								C11	C12		C14						
13.00 E A	F EUT	EUTELSAT 2-13E			2						11	12		14						
13.00 E C	I	ITALSAT			2													19	20	40
15.00 E A	F	ZENON-B		1	2	4		6												
15.00 E C	ISR	AMS-1				4		6			11			14						
15.00 E C	ISR	AMS-2				4		6			11			14						
15.00 E A	URS	GALS-12							7	8										
15.00 E A	URS	STATSIONAR-23				4		6												
15.00 E A	URS	TOR-12																19	20	42
15.00 E A	URS	VOLNA-23	0																	
16.00 E A	F EUT	EUTELSAT 1-4	C0								C11	C12		C14						
16.00 E A	I	SICRAL-1A	0						7	8		12		14					20	44
17.00 E A	ARS	SABS									11			14						
17.00 E A	ARS	SABS I-2									11			14						
19.00 E N	ARSARB	ARABSAT 1-A			2	4		6												
19.00 E A	F	ZENON-C		1	2						11			14						
19.20 E N	LUX	GDL6						6			11	12		14						
22.00 E A	I	SICRAL-1B	0						7	8		12		14					20	44
23.00 E C	URS	GALS-8							7	8										
23.00 E C	URS	STATSIONAR-19				4	5	6												
23.00 E A	URS	TOR-7															18	19	20	45
23.00 E C	URS	VOLNA-17	0	1																
23.50 E C	D	DFS-1			2						11	12		14					20	30
26.00 E N	ARSARB	ARABSAT 1-B			2	4		6												
26.00 E A	IRN	ZOHREH-2									11			14						
27.00 E A	URS	TOR-20															18	19	20	45
28.50 E C	D	DFS-2			2						11	12		14					20	30
29.00 E N	F ESA	GEOS-2	0		2															
31.00 E A	ARSARB	ARABSAT 1-C				4		6												
32.00 E C	F	VIDEOSAT-1			2							12		14						
34.00 E A	IRN	ZOHREH-1									11			14						
35.00 E N	URS	GALS-6							7	8										
35.00 E N	URS	PROGNOZ-3			2	4														
35.00 E N	URS	STATSIONAR-2				4	5	6												
35.00 E C	URS	STATSIONAR-D3				4		6												
35.00 E A	URS	TOR-2															18	19	20	45
35.00 E C	URS	VOLNA-11	0	1																
36.00 E A	F EUT	EUTELSAT 2-36E			2						11	12		14						
38.00 E A	PAK	PAKSAT-1										12		14						

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N Notified

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
40.00 E C	URS	LOUTCH-7									11			14						
40.00 E N	URS	STATSIONAR-12				C4	5	C6												
41.00 E A	IRN	ZOHREH-4									11			14						
41.00 E A	PAK	PAKSAT-2										12		14						
45.00 E N	URS	GALS-2							7	8										
45.00 E C	URS	LOUTCH P2									11			14						
45.00 E N	URS	STATSIONAR-9				4	5	6												
45.00 E C	URS	STATSIONAR-D4				4		6												
45.00 E A	URS	TOR-3															18	19	20	45
45.00 E N	URS	VOLNA-3	0	1																
45.00 E A	URS	VOLNA-3M		1																
47.00 E A	IRN	ZOHREH-3									11			14						
49.00 E A	URS	GALS-13							7	8										
49.00 E A	URS	TOR-16															18	19	20	45
49.00 E A	URS	VOLNA-25	0																	
53.00 E A	G	SKYNET 4C	0						C7	C8										44
53.00 E N	URS	LOUTCH-2									C11			C14						
53.00 E C	URS	MORE-53		1		4		6												
53.00 E N	URS	VOLNA-4		1																
53.00 E N	URSIK	STATSIONAR-5				C4		C6												
57.00 E N	USAIT	INTELSAT5 INDOC3				4		6			11			14						
57.00 E C	USAIT	INTELSAT5A INDOC2				4		6			11			14						
57.00 E C	USAIT	INTELSAT6 57E				4	5	6			11			14						
58.00 E A	URS	TOR-13																19	20	42
60.00 E N	USA	USGCSS PH2 INDOC							7	8										
60.00 E N	USA	USGCSS PH3 INDOC			C2				7	8										
60.00 E N	USAIT	INTELSAT MCS INDOC B		C1		C4		C6												
60.00 E N	USAIT	INTELSAT5 INDOC2				4		6			11			14						
60.00 E N	USAIT	INTELSAT5A INDOCI				4		6			11			14						
60.00 E C	USAIT	INTELSAT6 60E				4	5	6			11			14						
61.50 E A	USA	ACS-7		1																
63.00 E N	USAIT	INTELSAT MCS INDOC A		C1		C4		C6												
63.00 E N	USAIT	INTELSAT5 INDOCI				4		6			11			14						
63.00 E C	USAIT	INTELSAT5A INDOC3				4		6			11			14						
63.00 E A	USAIT	INTELSAT6 63E				4	5	6			11			14						
64.50 E C	G INM	INMARSAT IOR		1		4		6												
66.00 E N	USAIT	INTELSAT MCS INDOC D		C1		C4		C6												
66.00 E N	USAIT	INTELSAT5 INDOC4				4		6			11			14						
66.00 E C	USAIT	INTELSAT5A 66E				4		6			11			14						
66.50 E A	G INM	INMARSAT IOR-2		1		4		6												
69.00 E A	URS	GALS-14							7	8										
69.00 E A	URS	STATSIONAR-20				4		6												
69.00 E A	URS	TOR-14																19	20	42
70.00 E A	URS	GALS-16							7	8										
70.00 E A	URS	TOR-17															18	19	20	45
70.00 E A	URS	VOLNA-19	0																	
70.00 E A	USA	USASAT-13N										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
72.00 E	A	USA FLTSATCOM INDOC	0						7	8										
72.00 E	A	USA FLTSATCOM-B INDOC																	20	44
72.50 E	N	USA MARISAT-INDOC	0		C2	C4		C6												
74.00 E	N	IND INSAT-1B	0			4	5	6												
74.00 E	C	IND INSAT-2C	0			4	5	6												
75.00 E	N	USA FLTSATCOM INDOC*	0						7	8										
76.00 E	A	URS GOMS	0						7	8									20	28
76.00 E	A	URS GOMS-M	0	1	2				7	8									20	29
77.00 E	N	INS PALAPA-A2				4		6												
77.00 E	N	URS CSSRD-2									11	12	13	14						
77.00 E	A	USA FLTSATCOM-A INDOC	0						7	8										
80.00 E	C	URS LOUTCH-8									11			14						
80.00 E	N	URS POTOK-2				4														
80.00 E	N	URS PROGNOZ-4			2															
80.00 E	N	URS STATSIONAR-1				4	5	6												
80.00 E	N	URS STATSIONAR-13				C4		C6												
81.50 E	C	URS FOTON-2				4		6												
83.00 E	C	IND INSAT-1D	0			4	5	6												
83.00 E	C	IND INSAT-2A	0			4	5	6												
83.00 E	N	INS PALAPA-A1				4		6												
85.00 E	N	URS GALS-3							7	8										
85.00 E	N	URS STATSIONAR-3				4	5	6												
85.00 E	C	URS STATSIONAR-D5				4		6												
85.00 E	A	URS TOR-4															18	19	20	45
85.00 E	N	URS VOLNA-5	0	1																
85.00 E	A	URS VOLNA-5M		1																
87.50 E	C	CHN CHINASAT-1				4		6												
90.00 E	N	URS LOUTCH-3									11			14						
90.00 E	C	URS MORE-90		1		4		6												
90.00 E	N	URS STATSIONAR-6				C4		C6												
90.00 E	N	URS VOLNA-8		1																
93.50 E	N	IND INSAT-1C	0			4	5	6												
93.50 E	C	IND INSAT-2B	0			4	5	6												
95.00 E	N	URS CSDRN									11			14						
96.50 E	C	URS LOUTCH-9									11			14						
96.50 E	N	URS STATSIONAR-14				C4		C6												
98.00 E	C	CHN CHINASAT-3				4		6												
99.00 E	N	URS STATSIONAR-T						6												
99.00 E	N	URS STATSIONAR-T2						6												
103.00 E	C	CHN STW-2				4		6												
103.00 E	C	URS LOUTCH-5									11			14						
103.00 E	C	URS STATSIONAR-21				4	5	6												
108.00 E	N	INS PALAPA-B1				4		6												
110.00 E	N	J BSE			2									14						
110.00 E	N	J BS-2			2							12		14						
110.00 E	A	J BS-3			2							12		14						
110.50 E	C	CHN CHINASAT-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
113.00 E	N	INS PALAPA-B2				4		6												
118.00 E	N	INS PALAPA-B3				4		6												
124.00 E	A	J SCS-1B										12		14		17	18	19		28
125.00 E	N	CHN STW-1				4		6												
128.00 E	A	J SCS-1A										12		14		17	18	19		28
128.00 E	C	URS GALS-10							7	8										
128.00 E	N	URS STATSIONAR-15				4	5	6												
128.00 E	C	URS STATSIONAR-D6				4		6												
128.00 E	A	URS TOR-6															18	19	20	45
128.00 E	C	URS VOLNA-9	0	1																
128.00 E	A	URS VOLNA-9M		1																
130.00 E	N	J ETS-2	0	1	2								11							34
130.00 E	N	URS GALS-5							7	8										
130.00 E	C	URS PROGNOZ-5			2															
130.00 E	A	URS TOR-10															18	19	20	45
132.00 E	N	J CS-2A			2	4		6								17	18	19		28
132.00 E	C	J CS-3A			2	4		6								17	18	19		28
134.00 E	A	USA ACS-6		1																
135.00 E	N	J CSE			2	4		6								17	18	19	20	30
136.00 E	N	J CS-2B			2	4		6								17	18	19		28
136.00 E	C	J CS-3B			2	4		6								17	18	19		28
140.00 E	N	J GMS	0	1	2															
140.00 E	N	J GMS-2	0	1	2															
140.00 E	N	J GMS-3	0	1	2															
140.00 E	N	URS LOUTCH-4										11								
140.00 E	C	URS MORE-140		1		4		6												
140.00 E	N	URS STATSIONAR-7			C4		C6													
140.00 E	N	URS VOLNA-6		1																
145.00 E	N	URS STATSIONAR-16			C4		C6													
150.00 E	C	J ETS-5		1	2		5	6												
150.00 E	C	J JCSAT-1										12		14						
154.00 E	C	J JCSAT-2										12		14						
156.00 E	A	AUS AUSSAT B2										12		14						
156.00 E	A	AUS AUSSAT B2 NZ										12		14						
156.00 E	A	AUS AUSSAT B2-MOB		1								12		14						
156.00 E	N	AUS AUSSAT-2										12	13	14						
158.00 E	A	J SUPERBIRD-A							7	8		12		14		17	18	19		28
160.00 E	A	AUS ACSAT-1							7	8										
160.00 E	A	AUS AUSSAT B1										12		14						
160.00 E	A	AUS AUSSAT B1 NZ										12		14						
160.00 E	A	AUS AUSSAT B1-MOB		1								12		14						
160.00 E	N	AUS AUSSAT-1										12	13	14						
160.00 E	N	J GMS-160E	0	1	2															
162.00 E	A	J SUPERBIRD-B							7	8		12		14		17	18	19		28
164.00 E	N	AUS AUSSAT PAC3										12		14						
164.00 E	N	AUS AUSSAT-3										12	13	14						
166.00 E	A	URS GOMS-2	0	1	2				7	8									20	28

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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
166.00 E A	URS	GOMS-2M	0	1	2					8									20	27
166.00 E C	URS	PROGNOZ-6			2															
167.00 E A	PNG	PACSTAR A-1		1			5	6												
167.00 E N	URS	VSSRD-2									11	12	13	14						
167.45 E C	PNG	PACSTAR-1				4		6				12		14						
170.00 E A	USA	USASAT-13M										12		14						
171.00 E A	USA	ACS-5		1																
172.00 E N	USA	FLTSATCOM W PAC	0						7	8										
172.00 E N	USA	FLTSATCOM-B W PAC																	20	44
174.00 E N	USAIT	INTELSAT5 PAC1				4		6			11			14						
174.00 E C	USAIT	INTELSAT5A PAC1				4		6			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
175.00 E N	USA	USGCSS PH2 W PAC							7	8										
175.00 E N	USA	USGCSS PH3 W PAC			C2				7	8										
176.50 E N	USA	MARISAT-PAC	0	1		4		6												
177.00 E N	USAIT	INTELSAT4A PAC2				4		6												
177.00 E C	USAIT	INTELSAT5 PAC2				4		6			11			14						
177.00 E C	USAIT	INTELSAT5A PAC2				4		6			11			14						
178.00 E N	F ESA	MARECS PAC1	0	1		4		6												
179.50 E A	G JNM	INMARSAT POR-1		1		4		6												
180.00 E N	USAIT	INTELSAT MCS PAC A		C1		C4		C6												
180.00 E N	USAIT	INTELSAT5 PAC3				4		6			11			14						
180.00 E C	USAIT	INTELSAT5A PAC3				4		6			11			14						

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The following satellites have decayed since the preparation of the "Table of artificial satellites launched in 1986" published in May 1987

satellite	*international number*	*decay*
Molnya-1 (30)	1975-49-A	12 August 1987
Molnya-2 (15)	1975-121-A	7 March 1987
Molnya-1 (35)	1976-74-A	29 May 1987
Cosmos-1335	1982-7-A	5 April 1987
Cosmos-1507	1983-110-A	19 August 1987
Oex Target	1985-109-E	2 March 1987

satellite	*international number*	*decay*
USA-14	1985-114-B	9 August 1987
Cosmos-1770	1986-60-A	2 February 1987
Cosmos-1792	1986-87-A	5 January 1987
Cosmos-1804	1986-95-A	18 December 1986
Cosmos-1807	1986-99-A	23 January 1987
Cosmos-1810	1986-102-A	11 September 1987