



# Satellite Lists

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[sales@dmsiusa.com](mailto:sales@dmsiusa.com)

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**All Satellites**

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**NSS 9 (177.0W)**

TP 3762 SR 13500 V  
TP 3922 SR 2895 V  
TP 4185 SR 6527 V

**AMC 8 (139.0W)**

TP 4056 SR 13250 H

**AMC 7 (137.0W)**

TP 3760 SR 25195 H  
TP 4060 SR 26665 V  
TP 4100 SR 6500 V

**AMC 10 (135.0W)**

TP 3740 SR 19510 H  
TP 3760 SR 30000 V  
TP 3780 SR 29200 H  
TP 3800 SR 30000 V  
TP 3820 SR 29270 H  
TP 3840 SR 29270 V  
TP 3860 SR 11965 H  
TP 3915 SR 3980 H  
TP 3920 SR 29270 V  
TP 3960 SR 29270 V  
TP 3980 SR 29270 H  
TP 4005 SR 19510 V  
TP 4020 SR 19510 H  
TP 4040 SR 29270 V  
TP 4080 SR 29270 V  
TP 4100 SR 29270 H  
TP 4120 SR 29270 V  
TP 4160 SR 30000 V  
TP 4180 SR 29270 H

**Galaxy 15 (133.0W)**

TP 3720 SR 29270 H  
TP 3740 SR 30000 V  
TP 3760 SR 19510 H  
TP 3780 SR 30000 V  
TP 3816 SR 3000 H  
TP 3820 SR 29270 V  
TP 3840 SR 29270 H  
TP 3860 SR 29270 V  
TP 3880 SR 29270 H  
TP 3890 SR 11706 V  
TP 3960 SR 19510 H  
TP 3980 SR 29270 V  
TP 4000 SR 29270 H  
TP 4020 SR 29270 V  
TP 4025 SR 4880 H  
TP 4060 SR 29270 V  
TP 4080 SR 29270 H  
TP 4100 SR 27800 V  
TP 4140 SR 29270 V  
TP 4160 SR 29270 H  
TP 4180 SR 29270 V

**AMC 11 (131.0W)**

TP 3760 SR 19510 V  
TP 3780 SR 29270 H  
TP 3800 SR 29200 V  
TP 3860 SR 30000 H  
TP 3880 SR 19510 V

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## All Satellites

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TP 3928 SR 14323 V  
TP 3940 SR 29270 H  
TP 3980 SR 29270 H  
TP 3995 SR 19510 V  
TP 4020 SR 29270 H  
TP 4060 SR 29270 H  
TP 4075 SR 19510 V  
TP 4092 SR 9760 V  
TP 4120 SR 30000 V  
TP 4140 SR 19510 H  
TP 4160 SR 29200 V  
TP 4180 SR 29270 H

### Ciel 2/Galaxy 27 (129.0W)

TP 11780 SR 30000 H  
TP 11880 SR 30000 V  
TP 12100 SR 30000 H  
TP 12224 SR 21500 V  
TP 12239 SR 21500 H  
TP 12253 SR 21500 V  
TP 12268 SR 21500 H  
TP 12282 SR 21500 V  
TP 12297 SR 21500 H  
TP 12311 SR 21500 V  
TP 12326 SR 21500 H  
TP 12341 SR 21500 V  
TP 12355 SR 21500 H  
TP 12370 SR 21500 V  
TP 12384 SR 21500 H  
TP 12399 SR 20000 V  
TP 12414 SR 21500 H  
TP 12428 SR 21500 V  
TP 12443 SR 21500 H  
TP 12457 SR 21500 V  
TP 12472 SR 21500 H  
TP 12486 SR 21500 V  
TP 12516 SR 20000 V  
TP 12530 SR 21500 H  
TP 12545 SR 21500 V  
TP 12559 SR 21500 H  
TP 12574 SR 21500 V  
TP 12588 SR 21500 H  
TP 12603 SR 21500 V  
TP 12618 SR 21500 H  
TP 12632 SR 21500 V  
TP 12647 SR 21500 H  
TP 12661 SR 21500 V

### Galaxy 13/Horizons 1 (127.0W)

TP 3705 SR 4880 V  
TP 3780 SR 27690 H  
TP 3800 SR 27690 V  
TP 3880 SR 29270 V  
TP 3900 SR 29270 H  
TP 3920 SR 29265 V  
TP 3960 SR 30000 V  
TP 4000 SR 30000 V  
TP 4051 SR 11710 H  
TP 4076 SR 3076 H  
TP 4080 SR 28076 V  
TP 4120 SR 29270 V  
TP 4140 SR 29270 H  
TP 4160 SR 29270 V

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## All Satellites

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TP 4191 SR 3313 H  
TP 11727 SR 6620 V  
TP 11849 SR 2012 H  
TP 12050 SR 13020 H  
TP 12087 SR 6111 V  
TP 12140 SR 30000 V  
TP 12180 SR 16278 V

### AMC 21/Galaxy 14 (125.0W)

TP 3720 SR 26667 H  
TP 3740 SR 29270 V  
TP 3776 SR 23500 V  
TP 3794 SR 4900 V  
TP 3800 SR 29270 H  
TP 3840 SR 29270 H  
TP 3860 SR 29270 V  
TP 3895 SR 19510 V  
TP 3920 SR 19510 H  
TP 3940 SR 19510 V  
TP 3944 SR 4000 H  
TP 4020 SR 29270 V  
TP 4040 SR 30000 H  
TP 4060 SR 30000 V  
TP 4080 SR 30000 H  
TP 4100 SR 20270 V  
TP 4120 SR 29270 H  
TP 4160 SR 29270 H  
TP 12007 SR 4687 H  
TP 12072 SR 16666 H  
TP 12104 SR 4340 V  
TP 12140 SR 30000 V  
TP 12150 SR 14029 H  
TP 12163 SR 4444 H  
TP 12169 SR 4444 H  
TP 12175 SR 4444 H  
TP 12180 SR 30000 V

### Galaxy 12/18 (123.0W)

TP 3795 SR 19510 V  
TP 3812 SR 9760 V  
TP 3920 SR 26470 V  
TP 3940 SR 29270 H  
TP 3969 SR 11160 V  
TP 3975 SR 19510 H  
TP 4020 SR 29270 H  
TP 4040 SR 29270 V  
TP 4100 SR 29270 H  
TP 4120 SR 29270 V  
TP 4140 SR 29270 H  
TP 4160 SR 29270 V  
TP 4176 SR 20000 H  
TP 11732 SR 13240 H  
TP 11747 SR 2667 V  
TP 11805 SR 4580 H  
TP 11840 SR 4445 V  
TP 11855 SR 3515 V  
TP 11860 SR 27900 H  
TP 11866 SR 4234 V  
TP 11888 SR 3979 H  
TP 11893 SR 6111 V  
TP 11898 SR 6373 H  
TP 11907 SR 6111 H  
TP 11964 SR 2531 H

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## All Satellites

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TP 11965 SR 2000 V  
TP 12078 SR 3680 V  
TP 12129 SR 6111 H  
TP 12135 SR 2848 V  
TP 12150 SR 13021 V  
TP 12166 SR 3979 V  
TP 12176 SR 6620 V  
TP 12180 SR 23450 H

### **EchoStar 9/Galaxy 23 (121.0W)**

TP 3707 SR 5632 H  
TP 3714 SR 4340 H  
TP 3719 SR 3000 H  
TP 3724 SR 3002 H  
TP 3732 SR 13235 V  
TP 3750 SR 14029 V  
TP 3777 SR 1860 H  
TP 3780 SR 29270 V  
TP 3800 SR 19510 H  
TP 3815 SR 19510 V  
TP 3832 SR 4880 V  
TP 3851 SR 14360 V  
TP 3869 SR 10851 V  
TP 3877 SR 4444 H  
TP 3889 SR 13020 H  
TP 3900 SR 27684 V  
TP 3930 SR 14140 H  
TP 3940 SR 29270 V  
TP 3966 SR 7437 H  
TP 3975 SR 6203 H  
TP 3980 SR 27690 V  
TP 4000 SR 19510 H  
TP 4020 SR 29270 V  
TP 4051 SR 13333 V  
TP 4069 SR 14034 V  
TP 4100 SR 29270 V  
TP 4120 SR 10851 H  
TP 4134 SR 3300 H  
TP 4160 SR 19510 H  
TP 11715 SR 6510 V  
TP 11724 SR 6510 V  
TP 11899 SR 20000 V  
TP 11928 SR 20000 V  
TP 11957 SR 20000 V  
TP 11972 SR 20000 H  
TP 12016 SR 20000 V  
TP 12167 SR 6000 H  
TP 12176 SR 6113 H

### **Anik F3/DirecTV 7S/EchoStar 7 (119.0W)**

TP 3920 SR 18447 H  
TP 11715 SR 20000 V  
TP 11728 SR 20000 H  
TP 11745 SR 20000 V  
TP 11758 SR 21500 H  
TP 11776 SR 21500 V  
TP 11789 SR 20000 H  
TP 11806 SR 20000 V  
TP 11819 SR 21500 H  
TP 11837 SR 21500 V  
TP 11850 SR 21500 H  
TP 11867 SR 21500 V  
TP 11880 SR 21500 H

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## All Satellites

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TP 11898 SR 20000 V  
TP 11911 SR 20000 H  
TP 11928 SR 21500 V  
TP 11941 SR 21500 H  
TP 11959 SR 20000 V  
TP 11972 SR 21500 H  
TP 11989 SR 20000 V  
TP 12002 SR 20000 H  
TP 12020 SR 21500 V  
TP 12033 SR 20000 H  
TP 12050 SR 20000 V  
TP 12063 SR 20000 H  
TP 12081 SR 20000 V  
TP 12094 SR 20000 H  
TP 12111 SR 20000 V  
TP 12124 SR 20000 H  
TP 12142 SR 20000 V  
TP 12155 SR 20000 H  
TP 12224 SR 20000 V  
TP 12239 SR 20000 H  
TP 12253 SR 20000 V  
TP 12268 SR 20000 H  
TP 12282 SR 20000 V  
TP 12297 SR 20000 H  
TP 12311 SR 20000 V  
TP 12326 SR 20000 H  
TP 12341 SR 20000 V  
TP 12370 SR 20000 V  
TP 12384 SR 20000 H  
TP 12399 SR 20000 V  
TP 12414 SR 20000 H  
TP 12428 SR 20000 V  
TP 12443 SR 20000 H  
TP 12457 SR 20000 V  
TP 12472 SR 20000 H  
TP 12486 SR 20000 V  
TP 12501 SR 20000 H  
TP 12516 SR 20000 V  
TP 12530 SR 20000 H  
TP 12559 SR 20000 H  
TP 12588 SR 20000 H  
TP 12603 SR 20000 V  
TP 12618 SR 20000 H  
TP 12647 SR 20000 H  
TP 12661 SR 20000 V  
TP 12676 SR 20000 H

## SatMex 5 (116.8W)

TP 3720 SR 27000 V  
TP 3744 SR 4480 H  
TP 3748 SR 2100 V  
TP 3755 SR 4000 H  
TP 3768 SR 3255 V  
TP 3773 SR 2893 V  
TP 3810 SR 2170 H  
TP 3816 SR 2821 H  
TP 3826 SR 2712 H  
TP 3830 SR 2398 H  
TP 3840 SR 29270 V  
TP 3850 SR 4710 H  
TP 3865 SR 3100 V  
TP 3874 SR 2919 V  
TP 3884 SR 3000 H

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## All Satellites

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TP 3886 SR 6510 V  
TP 3895 SR 3609 H  
TP 3904 SR 2400 H  
TP 3908 SR 2170 H  
TP 3914 SR 2170 H  
TP 3922 SR 9760 V  
TP 3930 SR 2310 V  
TP 3937 SR 4440 V  
TP 3940 SR 29270 H  
TP 3957 SR 3100 V  
TP 3960 SR 2940 V  
TP 3968 SR 7500 V  
TP 3971 SR 3364 H  
TP 3976 SR 3130 V  
TP 3980 SR 2532 H  
TP 3990 SR 11249 V  
TP 4001 SR 6915 V  
TP 4008 SR 5582 V  
TP 4011 SR 6378 V  
TP 4031 SR 15200 V  
TP 4052 SR 4307 V  
TP 4060 SR 19510 H  
TP 4075 SR 2962 H  
TP 4080 SR 29270 V  
TP 4084 SR 3162 H  
TP 4096 SR 3255 H  
TP 4104 SR 2294 V  
TP 4106 SR 2666 H  
TP 4123 SR 1790 H  
TP 4134 SR 3617 H  
TP 4138 SR 2225 H  
TP 4160 SR 29270 V  
TP 4167 SR 6640 H  
TP 4180 SR 19510 H  
TP 4196 SR 2500 H  
TP 11740 SR 30000 V  
TP 11800 SR 30000 H  
TP 11820 SR 30000 V  
TP 11840 SR 30000 H  
TP 11880 SR 30000 H  
TP 11897 SR 5926 V  
TP 11974 SR 3333 H  
TP 11977 SR 30000 V  
TP 12000 SR 30000 H  
TP 12007 SR 30000 V  
TP 12024 SR 3000 H  
TP 12028 SR 3260 H  
TP 12049 SR 1977 V  
TP 12059 SR 3078 V  
TP 12066 SR 3332 H  
TP 12080 SR 1562 H  
TP 12088 SR 1954 H  
TP 12096 SR 3332 H  
TP 12097 SR 3023 V  
TP 12110 SR 2000 H  
TP 12165 SR 3935 H  
TP 12175 SR 3935 H  
TP 12193 SR 7885 V

## SatMex 6 (113.0W)

TP 3724 SR 3421 H  
TP 3734 SR 3410 H  
TP 3744 SR 2893 V

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## All Satellites

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TP 3748 SR 2893 V  
TP 3752 SR 2893 V  
TP 3756 SR 2500 V  
TP 3759 SR 2120 V  
TP 3764 SR 2893 V  
TP 3764 SR 2066 H  
TP 3768 SR 2976 H  
TP 3769 SR 3130 V  
TP 3773 SR 3255 V  
TP 3773 SR 2875 H  
TP 3780 SR 6528 H  
TP 3821 SR 3255 H  
TP 3824 SR 4200 V  
TP 3825 SR 3000 H  
TP 3829 SR 2573 V  
TP 3836 SR 6510 V  
TP 3843 SR 1983 H  
TP 3847 SR 3219 V  
TP 3853 SR 3255 H  
TP 3856 SR 3782 V  
TP 3860 SR 2804 H  
TP 3863 SR 3200 H  
TP 3866 SR 2676 H  
TP 3875 SR 4166 H  
TP 3880 SR 29270 V  
TP 3915 SR 4166 H  
TP 3920 SR 29270 V  
TP 3944 SR 3700 V  
TP 4068 SR 5890 V  
TP 4075 SR 3782 V  
TP 4076 SR 3609 H  
TP 4095 SR 3720 V  
TP 4144 SR 2713 V  
TP 12000 SR 30000 H  
TP 12080 SR 25635 H  
TP 12084 SR 3336 V  
TP 12090 SR 3336 V  
TP 12110 SR 2170 H  
TP 12126 SR 6022 V  
TP 12136 SR 3255 V  
TP 12151 SR 3255 V  
TP 12157 SR 3038 V  
TP 12165 SR 3333 H  
TP 12165 SR 3255 V  
TP 12172 SR 3333 V  
TP 12193 SR 3255 V

## Anik F2 (111.1W)

TP 11745 SR 20500 V  
TP 11819 SR 20500 H  
TP 11850 SR 20500 H  
TP 11880 SR 19510 H  
TP 11898 SR 20500 V  
TP 11928 SR 20500 V  
TP 11941 SR 19510 H  
TP 11972 SR 20500 H  
TP 11989 SR 20500 V  
TP 12002 SR 19510 H  
TP 12020 SR 20500 V  
TP 12033 SR 20500 H  
TP 12050 SR 20500 V  
TP 12063 SR 19510 H  
TP 12081 SR 19510 V

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## All Satellites

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TP 12094 SR 19510 H  
TP 12111 SR 19510 V  
TP 12124 SR 19510 H  
TP 12142 SR 20500 V  
TP 12155 SR 20500 H  
TP 12172 SR 19510 V  
TP 12185 SR 20500 H  
TP 19776 SR 15000 H  
TP 19794 SR 15000 H  
TP 19814 SR 15000 H  
TP 19905 SR 22500 H  
TP 19932 SR 22500 H  
TP 19966 SR 15000 H  
TP 20002 SR 15000 H

## DirecTV 5/EchoStar 10/11 (110.0W)

TP 12224 SR 20000 V  
TP 12239 SR 20000 H  
TP 12253 SR 20000 V  
TP 12268 SR 21500 H  
TP 12282 SR 20000 V  
TP 12297 SR 20000 H  
TP 12311 SR 21500 V  
TP 12326 SR 20000 H  
TP 12341 SR 20000 V  
TP 12355 SR 20000 H  
TP 12370 SR 20000 V  
TP 12384 SR 21500 H  
TP 12399 SR 21500 V  
TP 12414 SR 20000 H  
TP 12428 SR 20000 V  
TP 12443 SR 20000 H  
TP 12457 SR 21500 V  
TP 12472 SR 21500 H  
TP 12486 SR 21500 V  
TP 12501 SR 21500 H  
TP 12516 SR 20000 V  
TP 12530 SR 20000 H  
TP 12545 SR 21500 V  
TP 12559 SR 20000 H  
TP 12574 SR 20000 V  
TP 12588 SR 20000 H  
TP 12603 SR 21500 V  
TP 12618 SR 20000 H  
TP 12632 SR 21500 V  
TP 12647 SR 20000 H  
TP 12661 SR 21500 V  
TP 12676 SR 20000 H

## Anik F1/F1R (107.3W)

TP 3760 SR 28500 H  
TP 3780 SR 28346 V  
TP 3831 SR 11720 H  
TP 3886 SR 6145 V  
TP 3896 SR 6150 V  
TP 3904 SR 6145 V  
TP 3914 SR 6145 V  
TP 3920 SR 28500 H  
TP 3926 SR 6150 V  
TP 3936 SR 6150 V  
TP 3944 SR 6145 V  
TP 3954 SR 7320 V  
TP 3962 SR 6500 H

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## All Satellites

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TP 4060 SR 28346 V  
TP 4100 SR 28346 V  
TP 4107 SR 7440 H  
TP 4116 SR 6500 H  
TP 4117 SR 6200 H  
TP 4130 SR 13645 V  
TP 4145 SR 6900 V  
TP 11715 SR 19510 V  
TP 11728 SR 19510 H  
TP 11745 SR 19510 V  
TP 11758 SR 19510 H  
TP 11776 SR 19510 V  
TP 11789 SR 19510 H  
TP 11806 SR 19510 V  
TP 11819 SR 19510 H  
TP 11837 SR 19510 V  
TP 11850 SR 19510 H  
TP 11867 SR 19510 V  
TP 11880 SR 19510 H  
TP 11898 SR 19510 V  
TP 11902 SR 5859 H  
TP 11912 SR 5859 H  
TP 11928 SR 19510 V  
TP 11933 SR 5859 H  
TP 11941 SR 5859 H  
TP 11949 SR 5859 H  
TP 11959 SR 19510 V  
TP 11972 SR 19510 H  
TP 11989 SR 20500 V  
TP 12002 SR 19510 H  
TP 12020 SR 19510 V  
TP 12033 SR 19510 H  
TP 12050 SR 19510 V  
TP 12063 SR 19510 H  
TP 12081 SR 20500 V  
TP 12094 SR 19510 H  
TP 12111 SR 19510 V  
TP 12124 SR 19510 H  
TP 12142 SR 19510 V  
TP 12155 SR 19510 H  
TP 12172 SR 19510 V  
TP 12185 SR 19510 H

## AMC 15/18 (105.0W)

TP 3720 SR 19510 V  
TP 3740 SR 19510 H  
TP 3760 SR 29270 V  
TP 3780 SR 30000 H  
TP 3800 SR 19510 V  
TP 3820 SR 19510 H  
TP 3840 SR 29270 V  
TP 3860 SR 29270 H  
TP 3880 SR 19510 V  
TP 3900 SR 19510 H  
TP 3910 SR 30000 V  
TP 3940 SR 30000 H  
TP 3960 SR 19510 V  
TP 3980 SR 19510 H  
TP 4000 SR 29270 V  
TP 4040 SR 19510 V  
TP 4060 SR 19510 H  
TP 4080 SR 29270 V  
TP 4100 SR 29270 H

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## All Satellites

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TP 4120 SR 19510 V  
TP 4140 SR 19510 H  
TP 4160 SR 29270 V  
TP 4180 SR 29270 H  
TP 11706 SR 6620 V  
TP 11716 SR 6620 V  
TP 11724 SR 6113 V  
TP 11726 SR 6149 H  
TP 11734 SR 6113 V  
TP 11747 SR 6666 H  
TP 11756 SR 6113 V  
TP 11766 SR 4411 V  
TP 11766 SR 6113 H  
TP 11830 SR 6620 V  
TP 11834 SR 13235 H  
TP 11856 SR 3548 V  
TP 11928 SR 3979 H

## AMC 1 (103.0W)

TP 3740 SR 29270 V  
TP 3780 SR 29270 V  
TP 3800 SR 29270 H  
TP 3820 SR 29270 V  
TP 3840 SR 26681 H  
TP 3860 SR 29270 V  
TP 3906 SR 6511 H  
TP 3915 SR 4410 H  
TP 3920 SR 3140 H  
TP 3924 SR 2734 H  
TP 3934 SR 6617 H  
TP 3940 SR 29270 V  
TP 3960 SR 29270 H  
TP 4044 SR 26682 H  
TP 4060 SR 29270 V  
TP 4066 SR 3680 H  
TP 4074 SR 3000 H  
TP 4083 SR 7230 H  
TP 4180 SR 14630 V  
TP 11760 SR 26670 H  
TP 11942 SR 20000 V  
TP 12000 SR 30000 H  
TP 12025 SR 4232 H  
TP 12027 SR 6111 V  
TP 12031 SR 4232 H  
TP 12037 SR 3979 V  
TP 12037 SR 4232 H  
TP 12043 SR 4232 H  
TP 12049 SR 4232 H  
TP 12055 SR 4232 H  
TP 12065 SR 6111 V  
TP 12071 SR 4232 H  
TP 12077 SR 4232 H  
TP 12083 SR 4232 H  
TP 12089 SR 4232 H  
TP 12095 SR 4232 H  
TP 12100 SR 20000 V  
TP 12105 SR 4232 H  
TP 12111 SR 4232 H  
TP 12117 SR 4232 H  
TP 12123 SR 4232 H  
TP 12129 SR 4232 H  
TP 12135 SR 4232 H  
TP 12143 SR 20000 V

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## All Satellites

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TP 12145 SR 4232 H  
TP 12151 SR 4232 H  
TP 12157 SR 4232 H  
TP 12163 SR 4232 H  
TP 12169 SR 4232 H  
TP 12175 SR 4232 H  
TP 12182 SR 25000 V

### DirecTV 10/Spaceway 1 (102.8W)

TP 18327 SR 30000 H  
TP 18327 SR 30000 V  
TP 18367 SR 30000 H  
TP 18367 SR 30000 V  
TP 18407 SR 30000 H  
TP 18407 SR 30000 V  
TP 18447 SR 30000 H  
TP 18447 SR 30000 V  
TP 18487 SR 30000 H  
TP 18487 SR 30000 V  
TP 18527 SR 30000 H  
TP 18527 SR 30000 V  
TP 18567 SR 30000 H  
TP 18567 SR 30000 V  
TP 18607 SR 30000 H  
TP 18607 SR 30000 V  
TP 18648 SR 30000 V  
TP 19741 SR 30000 H  
TP 19741 SR 30000 V  
TP 19804 SR 30000 H  
TP 19804 SR 30000 V  
TP 19866 SR 30000 H  
TP 19866 SR 30000 V

### AMC 2/4/DirecTV 4S/8 (101.0W)

TP 3716 SR 4340 V  
TP 3735 SR 3776 H  
TP 3773 SR 4442 V  
TP 3880 SR 29270 V  
TP 3907 SR 14630 H  
TP 3920 SR 29270 V  
TP 3940 SR 29270 H  
TP 3973 SR 4362 V  
TP 4060 SR 29270 H  
TP 4080 SR 29270 V  
TP 4100 SR 29270 H  
TP 4125 SR 4340 V  
TP 11655 SR 30000 V  
TP 11740 SR 29250 H  
TP 11822 SR 5700 H  
TP 11860 SR 28138 H  
TP 11880 SR 24415 V  
TP 11969 SR 2893 V  
TP 11983 SR 5900 H  
TP 12020 SR 2034 H  
TP 12033 SR 3003 H  
TP 12060 SR 26700 H  
TP 12085 SR 4880 H  
TP 12116 SR 3100 H  
TP 12120 SR 30000 V  
TP 12224 SR 20000 V  
TP 12239 SR 20000 H  
TP 12253 SR 20000 V  
TP 12268 SR 20000 H

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## All Satellites

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TP 12282 SR 20000 V  
TP 12297 SR 20000 H  
TP 12311 SR 20000 V  
TP 12326 SR 20000 H  
TP 12341 SR 20000 V  
TP 12355 SR 20000 H  
TP 12370 SR 20000 V  
TP 12384 SR 20000 H  
TP 12399 SR 20000 V  
TP 12414 SR 20000 H  
TP 12428 SR 20000 V  
TP 12443 SR 20000 H  
TP 12457 SR 20000 V  
TP 12472 SR 20000 H  
TP 12486 SR 20000 V  
TP 12501 SR 20000 H  
TP 12516 SR 20000 V  
TP 12530 SR 20000 H  
TP 12545 SR 20000 V  
TP 12559 SR 20000 H  
TP 12574 SR 20000 V  
TP 12588 SR 20000 H  
TP 12603 SR 20000 V  
TP 12618 SR 20000 H  
TP 12632 SR 20000 V  
TP 12647 SR 20000 H  
TP 12661 SR 20000 V  
TP 12676 SR 20000 H

## Galaxy 16 (99.0W)

TP 3735 SR 3776 H  
TP 3740 SR 30000 V  
TP 3744 SR 1953 H  
TP 3776 SR 3255 H  
TP 3780 SR 27600 V  
TP 3786 SR 5000 H  
TP 3790 SR 3256 H  
TP 3810 SR 3256 H  
TP 3820 SR 26000 V  
TP 3845 SR 15030 H  
TP 3874 SR 6620 V  
TP 3880 SR 29687 H  
TP 3904 SR 3125 H  
TP 3924 SR 3125 H  
TP 3928 SR 3125 H  
TP 3930 SR 13025 V  
TP 3935 SR 3114 H  
TP 4000 SR 26400 H  
TP 4080 SR 27780 H  
TP 4100 SR 29126 V  
TP 4120 SR 29126 H  
TP 4140 SR 29126 V  
TP 4160 SR 27780 H  
TP 4180 SR 19510 V  
TP 11771 SR 14321 V  
TP 11782 SR 3979 V  
TP 11787 SR 3979 V  
TP 11792 SR 3979 V  
TP 11804 SR 3979 V  
TP 11809 SR 3979 V  
TP 11815 SR 3979 V  
TP 11820 SR 3979 V  
TP 11825 SR 3979 V

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TP 11825 SR 3979 H  
TP 11830 SR 3979 V  
TP 11831 SR 3979 H  
TP 11836 SR 3979 V  
TP 11837 SR 3979 H  
TP 11843 SR 3979 H  
TP 11849 SR 3979 H  
TP 11855 SR 3979 H  
TP 11865 SR 3979 H  
TP 11871 SR 3979 H  
TP 11877 SR 3979 H  
TP 11883 SR 3979 H  
TP 11884 SR 3979 V  
TP 11889 SR 3979 H  
TP 11889 SR 3979 V  
TP 11895 SR 3979 H  
TP 11895 SR 3979 V  
TP 11900 SR 3979 V  
TP 11905 SR 3979 V  
TP 11905 SR 3979 H  
TP 11910 SR 3979 V  
TP 11911 SR 3979 H  
TP 11916 SR 3979 V  
TP 11917 SR 3979 H  
TP 11945 SR 4165 V  
TP 11960 SR 30000 H  
TP 11980 SR 30000 V  
TP 12093 SR 6620 H  
TP 12100 SR 30000 V  
TP 12189 SR 11765 V

## Galaxy 19 (97.0W)

TP 3744 SR 3250 V  
TP 3754 SR 5741 V  
TP 3780 SR 27600 V  
TP 3820 SR 29270 H  
TP 3905 SR 4166 V  
TP 3910 SR 2214 V  
TP 3919 SR 2130 V  
TP 3922 SR 3426 V  
TP 3931 SR 2040 V  
TP 3935 SR 2639 V  
TP 3991 SR 9983 H  
TP 4025 SR 3936 V  
TP 4033 SR 1674 V  
TP 4035 SR 1674 V  
TP 4038 SR 1674 V  
TP 4040 SR 1674 V  
TP 4042 SR 1674 V  
TP 4045 SR 1674 V  
TP 4047 SR 1674 V  
TP 4050 SR 1674 V  
TP 4054 SR 3426 V  
TP 4120 SR 32362 V  
TP 4180 SR 32362 H  
TP 11779 SR 3979 H  
TP 11789 SR 28125 V  
TP 11836 SR 20765 V  
TP 11867 SR 22000 V  
TP 11874 SR 22000 H  
TP 11894 SR 4880 H  
TP 11898 SR 22000 V  
TP 11929 SR 22000 V

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## All Satellites

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TP 11936 SR 20000 H  
TP 11966 SR 22000 H  
TP 11991 SR 22000 V  
TP 12022 SR 22000 V  
TP 12053 SR 22000 V  
TP 12060 SR 22000 H  
TP 12084 SR 22000 V  
TP 12090 SR 20000 H  
TP 12115 SR 22425 V  
TP 12122 SR 20000 H  
TP 12146 SR 22000 V  
TP 12152 SR 20000 H  
TP 12177 SR 23000 V

## Galaxy 3C/Spaceway 3 (95.0W)

TP 3720 SR 19510 H  
TP 3744 SR 2206 V  
TP 3753 SR 3970 V  
TP 3800 SR 19510 H  
TP 3840 SR 19510 H  
TP 3884 SR 3074 V  
TP 3889 SR 3074 V  
TP 3893 SR 3074 V  
TP 3898 SR 3074 V  
TP 3902 SR 3074 V  
TP 3904 SR 2398 H  
TP 3907 SR 3074 V  
TP 3907 SR 3074 H  
TP 3911 SR 3074 V  
TP 3911 SR 3074 H  
TP 3916 SR 3074 V  
TP 3916 SR 3074 H  
TP 3920 SR 3074 H  
TP 3924 SR 3074 H  
TP 3924 SR 3074 V  
TP 3929 SR 3074 H  
TP 3929 SR 3074 V  
TP 3934 SR 3074 H  
TP 3934 SR 3074 V  
TP 3938 SR 3074 V  
TP 3943 SR 3074 V  
TP 3947 SR 3074 V  
TP 3947 SR 3074 H  
TP 3951 SR 3074 V  
TP 3952 SR 3074 H  
TP 3956 SR 3074 V  
TP 3956 SR 3074 H  
TP 3961 SR 3074 H  
TP 3965 SR 3074 H  
TP 3965 SR 3074 V  
TP 3970 SR 3074 H  
TP 3970 SR 3074 V  
TP 3974 SR 3074 H  
TP 3974 SR 3074 V  
TP 3980 SR 3074 V  
TP 3984 SR 3074 V  
TP 3988 SR 3074 V  
TP 3992 SR 3074 V  
TP 3996 SR 3074 V  
TP 4029 SR 11000 V  
TP 4060 SR 31325 V  
TP 4080 SR 31325 H  
TP 4120 SR 29270 H

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## All Satellites

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TP 4167 SR 6614 V  
TP 11480 SR 20000 H  
TP 11510 SR 20000 H  
TP 11510 SR 20000 V  
TP 11539 SR 20000 H  
TP 11539 SR 20000 V  
TP 11568 SR 20000 H  
TP 11568 SR 20000 V  
TP 11597 SR 20000 H  
TP 11597 SR 20000 V  
TP 11627 SR 20000 H  
TP 11627 SR 20000 V  
TP 11657 SR 20000 H  
TP 11657 SR 20000 V  
TP 11685 SR 20000 H  
TP 11685 SR 20000 V  
TP 11720 SR 20000 H  
TP 11780 SR 20760 H  
TP 11811 SR 20000 H  
TP 11840 SR 20000 H  
TP 11900 SR 20000 H  
TP 11930 SR 20000 H  
TP 11960 SR 20000 H  
TP 11990 SR 20000 H  
TP 11999 SR 4000 V  
TP 12050 SR 20000 H  
TP 12080 SR 20000 H  
TP 12110 SR 21500 H  
TP 12140 SR 20000 H

### Galaxy 25 (93.1W)

TP 11780 SR 30000 V  
TP 11874 SR 19510 H  
TP 11890 SR 3000 H  
TP 11895 SR 3010 H  
TP 11915 SR 4350 H  
TP 11984 SR 8681 V  
TP 11993 SR 5135 V  
TP 12000 SR 6620 V

### Galaxy 17/Nimiq 1/2 (91.0W)

TP 3720 SR 26700 H  
TP 3740 SR 30000 V  
TP 3760 SR 27800 H  
TP 3780 SR 29270 V  
TP 3800 SR 30000 H  
TP 3820 SR 30000 V  
TP 3840 SR 29270 H  
TP 3860 SR 30000 V  
TP 3880 SR 29270 H  
TP 3920 SR 26000 H  
TP 3940 SR 29270 V  
TP 3960 SR 29270 H  
TP 4007 SR 2480 H  
TP 4014 SR 6620 H  
TP 4020 SR 30000 V  
TP 4040 SR 27800 H  
TP 4074 SR 2170 H  
TP 4079 SR 2900 H  
TP 4088 SR 3299 H  
TP 4092 SR 2170 H  
TP 4096 SR 3074 H  
TP 4100 SR 30000 V

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## All Satellites

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TP 4115 SR 19510 H  
TP 4134 SR 6112 H  
TP 4140 SR 30000 V  
TP 4160 SR 27800 H  
TP 4180 SR 29270 V  
TP 11740 SR 30000 V  
TP 11925 SR 3979 V  
TP 11930 SR 3979 V  
TP 11935 SR 3979 V  
TP 11940 SR 3979 V  
TP 11945 SR 3979 V  
TP 11950 SR 3979 V  
TP 11952 SR 5859 H  
TP 11955 SR 3979 V  
TP 11965 SR 3979 V  
TP 11970 SR 3979 V  
TP 11975 SR 3979 V  
TP 11980 SR 3979 V  
TP 11985 SR 3979 V  
TP 11987 SR 6111 H  
TP 11990 SR 3979 V  
TP 11995 SR 3979 V  
TP 12005 SR 3979 V  
TP 12010 SR 3979 V  
TP 12015 SR 3979 V  
TP 12020 SR 3979 V  
TP 12025 SR 3979 V  
TP 12030 SR 3979 V  
TP 12035 SR 3979 V  
TP 12050 SR 13354 V  
TP 12056 SR 13354 V  
TP 12076 SR 13000 H  
TP 12130 SR 13000 H  
TP 12140 SR 30000 V  
TP 12224 SR 20000 V  
TP 12239 SR 20000 H  
TP 12253 SR 20000 V  
TP 12268 SR 20000 H  
TP 12282 SR 20000 V  
TP 12297 SR 20000 H  
TP 12311 SR 20000 V  
TP 12326 SR 20000 H  
TP 12341 SR 20000 V  
TP 12355 SR 20000 H  
TP 12370 SR 20000 V  
TP 12384 SR 20000 H  
TP 12399 SR 20000 V  
TP 12414 SR 20000 H  
TP 12428 SR 20000 V  
TP 12443 SR 20000 H  
TP 12457 SR 20000 V  
TP 12472 SR 20000 H  
TP 12486 SR 20000 V  
TP 12501 SR 20000 H  
TP 12516 SR 20000 V  
TP 12530 SR 20000 H  
TP 12545 SR 20000 V  
TP 12559 SR 20000 H  
TP 12574 SR 20000 V  
TP 12588 SR 20000 H  
TP 12603 SR 20000 V  
TP 12618 SR 20000 H  
TP 12632 SR 20000 V

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## All Satellites

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TP 12647 SR 20000 H  
TP 12661 SR 20000 V  
TP 12676 SR 20000 H

## Galaxy 28 (89.0W)

TP 3740 SR 25320 H  
TP 3780 SR 29270 H  
TP 3900 SR 29266 H  
TP 3920 SR 29860 V  
TP 3956 SR 6111 V  
TP 3996 SR 6111 V  
TP 4060 SR 28000 H  
TP 4110 SR 2835 H  
TP 4166 SR 7440 H  
TP 4175 SR 7440 H  
TP 4185 SR 7440 H  
TP 11711 SR 6620 H  
TP 11724 SR 6500 H  
TP 11732 SR 4440 H  
TP 11745 SR 7030 H  
TP 11747 SR 6620 H  
TP 11756 SR 6620 H  
TP 11768 SR 6111 H  
TP 11787 SR 15915 H  
TP 11800 SR 30000 H  
TP 11845 SR 6510 H  
TP 11882 SR 4883 H  
TP 11920 SR 30000 V  
TP 11920 SR 17910 H  
TP 11925 SR 3979 H  
TP 11930 SR 3979 H  
TP 11935 SR 3979 H  
TP 11940 SR 3979 H  
TP 11945 SR 3979 H  
TP 11950 SR 3979 H  
TP 11955 SR 3979 H  
TP 11955 SR 19532 V  
TP 11960 SR 28800 H  
TP 11965 SR 3979 H  
TP 11970 SR 3979 V  
TP 11970 SR 3979 H  
TP 11975 SR 3979 H  
TP 11980 SR 3979 H  
TP 11985 SR 3979 H  
TP 11989 SR 6111 V  
TP 11990 SR 3979 H  
TP 11995 SR 3979 H  
TP 12000 SR 28800 H  
TP 12009 SR 6111 V  
TP 12035 SR 6111 V  
TP 12047 SR 6111 V  
TP 12100 SR 30000 H  
TP 12133 SR 6296 H  
TP 12134 SR 4000 H  
TP 12140 SR 30000 H  
TP 12160 SR 30000 V  
TP 12164 SR 2785 H  
TP 12167 SR 2785 H  
TP 12171 SR 2785 H  
TP 12174 SR 2785 H  
TP 12178 SR 2785 H  
TP 12181 SR 2785 H  
TP 12185 SR 2785 H

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**All Satellites**

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TP 12188 SR 2785 H  
TP 12192 SR 2785 H  
TP 12195 SR 2785 H

**AMC 3 (87.0W)**

TP 3715 SR 3500 H  
TP 3719 SR 4167 H  
TP 3725 SR 4167 H  
TP 3732 SR 5632 H  
TP 3796 SR 3024 V  
TP 3800 SR 7440 H  
TP 3810 SR 14000 V  
TP 3824 SR 2475 H  
TP 3830 SR 14000 V  
TP 3833 SR 2734 H  
TP 3842 SR 6150 H  
TP 3954 SR 9760 H  
TP 4043 SR 7140 H  
TP 4050 SR 3024 V  
TP 4054 SR 3024 V  
TP 4058 SR 3024 V  
TP 4062 SR 3024 V  
TP 4066 SR 3024 V  
TP 4070 SR 3024 V  
TP 4074 SR 3024 V  
TP 4109 SR 9300 H  
TP 4130 SR 14000 H  
TP 4146 SR 6789 H  
TP 4154 SR 19532 H  
TP 4188 SR 3027 V  
TP 11720 SR 4858 H  
TP 11728 SR 3675 H  
TP 11736 SR 8333 V  
TP 11745 SR 3979 H  
TP 11750 SR 7320 V  
TP 11820 SR 30000 V  
TP 11900 SR 30000 V  
TP 11960 SR 29270 H  
TP 12000 SR 30000 H  
TP 12008 SR 5000 V  
TP 12044 SR 3200 V  
TP 12050 SR 3200 V  
TP 12056 SR 3256 V  
TP 12064 SR 3979 V

**AMC 16 (85.0W)**

TP 11966 SR 5632 H  
TP 11988 SR 13021 H  
TP 12106 SR 6113 V  
TP 12116 SR 6113 V  
TP 12130 SR 13021 H  
TP 12144 SR 3979 H  
TP 12146 SR 6111 V  
TP 12164 SR 6111 V  
TP 12190 SR 3979 H

**Brasilsat B4 (84.0W)**

TP 3644 SR 4687 V  
TP 3650 SR 4440 V  
TP 3658 SR 3600 V  
TP 3664 SR 3177 V  
TP 3675 SR 3704 V  
TP 3684 SR 3330 V

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## All Satellites

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TP 3688 SR 2308 V  
TP 3692 SR 3200 V  
TP 3696 SR 1808 H  
TP 3705 SR 4280 H  
TP 3710 SR 3261 H  
TP 3710 SR 12960 V  
TP 3715 SR 3255 H  
TP 3728 SR 4412 H  
TP 3732 SR 3255 V  
TP 3736 SR 2893 H  
TP 3745 SR 4295 H  
TP 3751 SR 3565 H  
TP 3757 SR 3565 H  
TP 3764 SR 5590 H  
TP 3768 SR 8000 V  
TP 3770 SR 3330 H  
TP 3774 SR 3330 H  
TP 3779 SR 6849 V  
TP 3786 SR 4286 V  
TP 3791 SR 3330 V  
TP 3800 SR 3255 H  
TP 3805 SR 2660 V  
TP 3824 SR 2222 V  
TP 3824 SR 3002 H  
TP 3829 SR 4340 V  
TP 3846 SR 10127 H  
TP 3852 SR 3805 V  
TP 3856 SR 4000 H  
TP 3858 SR 4289 V  
TP 3866 SR 4425 H  
TP 3871 SR 4435 H  
TP 3877 SR 4450 H  
TP 3883 SR 4278 H  
TP 3889 SR 4440 H  
TP 3895 SR 4430 H  
TP 3906 SR 3928 H  
TP 3913 SR 2592 H  
TP 3916 SR 3255 H  
TP 3924 SR 10713 H  
TP 3927 SR 3255 V  
TP 3932 SR 3255 V  
TP 3936 SR 3334 H  
TP 3936 SR 3255 V  
TP 3940 SR 3255 V  
TP 3943 SR 2460 V  
TP 3948 SR 4340 V  
TP 3955 SR 4340 V  
TP 3970 SR 3330 V  
TP 3977 SR 1800 V  
TP 3985 SR 2964 V  
TP 3989 SR 2666 V  
TP 3992 SR 2535 V  
TP 3996 SR 2300 V  
TP 4013 SR 3255 V  
TP 4054 SR 1581 V  
TP 4063 SR 2929 V  
TP 4064 SR 3300 H  
TP 4069 SR 2600 H  
TP 4070 SR 2967 V  
TP 4072 SR 2308 H  
TP 4075 SR 4444 V  
TP 4076 SR 2280 H  
TP 4087 SR 17200 H

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## All Satellites

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TP 4121 SR 2500 H  
TP 4126 SR 3617 H  
TP 4132 SR 2532 V  
TP 4135 SR 3382 H  
TP 4144 SR 2734 H  
TP 4148 SR 2222 H  
TP 4169 SR 8140 V  
TP 4172 SR 2170 H  
TP 4177 SR 3515 V  
TP 4180 SR 3263 V

### AMC 9 (83.0W)

TP 11735 SR 4444 H  
TP 11745 SR 4232 H  
TP 11751 SR 4232 H  
TP 11757 SR 4232 H  
TP 11763 SR 4232 H  
TP 11769 SR 4232 H  
TP 11775 SR 4232 H  
TP 11826 SR 5632 H  
TP 11864 SR 3979 H  
TP 11871 SR 13000 H  
TP 11889 SR 13025 H  
TP 11926 SR 6511 V  
TP 11953 SR 3979 V  
TP 11960 SR 5000 H  
TP 12002 SR 3979 H  
TP 12011 SR 3979 H  
TP 12060 SR 30000 V  
TP 12140 SR 30000 V  
TP 12160 SR 30000 H  
TP 12180 SR 30000 V

### Nimiq 4 (82.0W)

TP 12224 SR 20000 V  
TP 12239 SR 20000 H  
TP 12253 SR 21500 V  
TP 12268 SR 21500 H  
TP 12282 SR 21500 V  
TP 12297 SR 20000 H  
TP 12311 SR 21500 V  
TP 12326 SR 21500 H  
TP 12341 SR 21500 V  
TP 12355 SR 21500 H  
TP 12370 SR 21500 V  
TP 12384 SR 21500 H  
TP 12399 SR 21500 V  
TP 12414 SR 21500 H  
TP 12428 SR 20000 V  
TP 12443 SR 20000 H  
TP 12457 SR 21500 V  
TP 12472 SR 21500 H  
TP 12486 SR 21500 V  
TP 12501 SR 21500 H  
TP 12516 SR 21500 V  
TP 12530 SR 21500 H  
TP 12545 SR 21500 V  
TP 12559 SR 21500 H  
TP 12574 SR 21500 V  
TP 12588 SR 21500 H  
TP 12603 SR 21500 V  
TP 12618 SR 21500 H  
TP 12632 SR 21500 V

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**All Satellites**

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TP 12647 SR 21500 H  
TP 12661 SR 21500 V  
TP 12676 SR 21500 H

**AMC 5 (79.0W)**

TP 11780 SR 3200 V  
TP 11792 SR 4880 H  
TP 11828 SR 3979 V  
TP 11833 SR 3979 V  
TP 11839 SR 3979 V  
TP 11844 SR 3979 V  
TP 11849 SR 3979 V  
TP 11854 SR 3979 V  
TP 11860 SR 3979 V  
TP 11865 SR 3979 V  
TP 11870 SR 3979 V  
TP 11876 SR 3979 V  
TP 11900 SR 2170 H  
TP 11905 SR 2160 H  
TP 11910 SR 2160 H  
TP 11915 SR 6111 H  
TP 11923 SR 6111 H  
TP 11930 SR 4960 H  
TP 11940 SR 6511 H  
TP 11964 SR 3979 H  
TP 11966 SR 3979 V  
TP 11971 SR 3979 V  
TP 11972 SR 3979 H  
TP 11977 SR 3979 V  
TP 11980 SR 6511 H  
TP 11982 SR 3979 V  
TP 11988 SR 3979 V  
TP 11988 SR 3979 H  
TP 11995 SR 3979 V  
TP 11995 SR 3979 H  
TP 12000 SR 3979 H  
TP 12006 SR 3979 H  
TP 12012 SR 3979 V  
TP 12017 SR 3979 V  
TP 12022 SR 3979 V  
TP 12024 SR 3979 H  
TP 12027 SR 3979 V  
TP 12030 SR 3979 H  
TP 12032 SR 3979 V  
TP 12035 SR 3979 H  
TP 12038 SR 3979 V  
TP 12041 SR 3979 H  
TP 12045 SR 3979 V  
TP 12046 SR 3979 H  
TP 12052 SR 3979 V  
TP 12055 SR 3979 H  
TP 12058 SR 3979 V  
TP 12063 SR 3979 H  
TP 12073 SR 3979 H  
TP 12075 SR 3979 V  
TP 12080 SR 3979 V  
TP 12090 SR 3979 H  
TP 12100 SR 3979 H  
TP 12109 SR 3979 H  
TP 12115 SR 3979 H  
TP 12120 SR 3979 H  
TP 12125 SR 6922 H  
TP 12134 SR 6922 H

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## All Satellites

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TP 12145 SR 3979 H  
TP 12151 SR 3979 H  
TP 12157 SR 3979 H  
TP 12177 SR 20500 H

### Simón Bolívar (78.0W)

TP 3888 SR 23000 V  
TP 3910 SR 3492 V  
TP 3916 SR 3002 V  
TP 3922 SR 3002 V  
TP 11410 SR 29500 V  
TP 11624 SR 3000 V  
TP 11634 SR 3000 V  
TP 11731 SR 28126 H

### EchoStar 1/4/8 (77.0W)

TP 12224 SR 20000 V  
TP 12253 SR 20000 V  
TP 12268 SR 20000 H  
TP 12282 SR 20000 V  
TP 12311 SR 20000 V  
TP 12326 SR 20000 H  
TP 12341 SR 20000 V  
TP 12370 SR 20000 V  
TP 12384 SR 20000 H  
TP 12428 SR 20000 V  
TP 12443 SR 20000 H  
TP 12457 SR 20000 V  
TP 12486 SR 20000 V  
TP 12501 SR 20000 H  
TP 12516 SR 20000 V  
TP 12559 SR 20000 H  
TP 12574 SR 20000 V  
TP 12618 SR 20000 H  
TP 12632 SR 20000 V

### Brasilsat B3 (75.0W)

TP 3627 SR 2232 H  
TP 3632 SR 3600 H  
TP 3638 SR 2590 H  
TP 3646 SR 6666 V  
TP 3649 SR 6660 H  
TP 3653 SR 4440 V  
TP 3654 SR 4200 H  
TP 3664 SR 4390 V  
TP 3666 SR 6666 H  
TP 3670 SR 4444 V  
TP 3675 SR 3462 V  
TP 3676 SR 6510 H  
TP 3684 SR 6666 H  
TP 3688 SR 6666 V  
TP 3692 SR 3460 H  
TP 3697 SR 4800 V  
TP 3706 SR 6660 V  
TP 3715 SR 6660 V  
TP 3724 SR 6666 H  
TP 3787 SR 6660 H  
TP 3805 SR 6660 H  
TP 3814 SR 6660 H  
TP 3828 SR 6660 H  
TP 3837 SR 6660 H  
TP 3854 SR 6660 H  
TP 3907 SR 6660 H

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## All Satellites

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TP 3917 SR 6660 H  
TP 3926 SR 6660 H  
TP 3935 SR 6660 H  
TP 4034 SR 6610 V  
TP 4166 SR 2500 V  
TP 4197 SR 2210 V

## Horizons 2 (74.0W)

TP 11734 SR 6616 H  
TP 11752 SR 13235 H  
TP 11792 SR 13235 H  
TP 11889 SR 6111 V  
TP 11899 SR 6620 V  
TP 11908 SR 6620 V  
TP 11914 SR 2550 H  
TP 11917 SR 6620 V  
TP 11923 SR 5150 H  
TP 11924 SR 4044 V  
TP 11930 SR 5150 H  
TP 11935 SR 2797 H  
TP 11950 SR 3979 H  
TP 11955 SR 3979 H  
TP 11967 SR 3979 H  
TP 11969 SR 6111 V  
TP 11973 SR 3979 H  
TP 11974 SR 3979 V  
TP 11992 SR 13235 V  
TP 12027 SR 13235 V  
TP 12028 SR 3979 H  
TP 12038 SR 4232 H  
TP 12046 SR 3979 H  
TP 12049 SR 3979 V  
TP 12054 SR 3979 V  
TP 12056 SR 4232 H  
TP 12067 SR 3979 V  
TP 12070 SR 6111 H  
TP 12087 SR 6111 H  
TP 12088 SR 4232 V  
TP 12094 SR 4232 V  
TP 12100 SR 4232 V  
TP 12108 SR 6111 V  
TP 12109 SR 3979 H  
TP 12119 SR 6666 H  
TP 12128 SR 6666 H  
TP 12129 SR 6111 V  
TP 12139 SR 3979 V  
TP 12147 SR 6620 V  
TP 12149 SR 3979 H  
TP 12157 SR 3979 H  
TP 12167 SR 6111 V  
TP 12177 SR 3979 H  
TP 12178 SR 3979 V  
TP 12187 SR 3979 V  
TP 12195 SR 3979 V

## DirecTV 1R/Nimiq 5 (72.5W)

TP 12224 SR 21500 V  
TP 12239 SR 20000 H  
TP 12282 SR 21500 V  
TP 12297 SR 20000 H  
TP 12311 SR 21500 V  
TP 12326 SR 20000 H  
TP 12341 SR 21500 V

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## All Satellites

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TP 12355 SR 20000 H  
TP 12370 SR 21500 V  
TP 12399 SR 21500 V  
TP 12414 SR 20000 H  
TP 12428 SR 21500 V  
TP 12443 SR 20000 H  
TP 12457 SR 21500 V  
TP 12472 SR 20000 H  
TP 12486 SR 21500 V  
TP 12501 SR 20000 H  
TP 12516 SR 21500 V  
TP 12530 SR 20000 H  
TP 12545 SR 21500 V  
TP 12559 SR 20000 H  
TP 12574 SR 21500 V  
TP 12588 SR 20000 H  
TP 12603 SR 21500 V  
TP 12618 SR 20000 H  
TP 12632 SR 21500 V  
TP 12647 SR 20000 H  
TP 12661 SR 21500 V  
TP 12676 SR 20000 H

## AMC 6/Nahuel 1 (72.0W)

TP 3780 SR 29275 H  
TP 3786 SR 4340 V  
TP 3953 SR 4167 V  
TP 3995 SR 2220 V  
TP 4040 SR 26665 V  
TP 4063 SR 1628 V  
TP 11505 SR 3700 V  
TP 11546 SR 12000 V  
TP 11548 SR 3002 H  
TP 11552 SR 3002 H  
TP 11556 SR 3492 H  
TP 11563 SR 3492 H  
TP 11570 SR 3492 H  
TP 11576 SR 3492 H  
TP 11586 SR 2652 H  
TP 11589 SR 2962 V  
TP 11592 SR 2920 V  
TP 11595 SR 2505 H  
TP 11604 SR 8500 V  
TP 11643 SR 3340 V  
TP 11648 SR 7500 V  
TP 11656 SR 4162 V  
TP 11667 SR 7400 V  
TP 11674 SR 4000 V  
TP 11680 SR 3333 V  
TP 11684 SR 1482 V  
TP 11703 SR 3979 V  
TP 11709 SR 3979 V  
TP 11715 SR 3979 V  
TP 11720 SR 3979 V  
TP 11722 SR 3700 V  
TP 11725 SR 3979 V  
TP 11729 SR 3979 V  
TP 11734 SR 3979 V  
TP 11745 SR 3979 H  
TP 11746 SR 3979 V  
TP 11752 SR 3979 V  
TP 11763 SR 3979 V  
TP 11767 SR 3979 V

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## All Satellites

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TP 11777 SR 3979 V  
TP 11817 SR 5000 H  
TP 11885 SR 1905 H  
TP 11890 SR 1666 H  
TP 11921 SR 3979 V  
TP 11927 SR 3979 V  
TP 11930 SR 6620 H  
TP 11986 SR 3979 V  
TP 11995 SR 3979 V  
TP 12004 SR 3979 V  
TP 12013 SR 3979 V  
TP 12020 SR 3979 H  
TP 12031 SR 12401 V  
TP 12036 SR 6111 H  
TP 12040 SR 6500 V  
TP 12045 SR 1580 V  
TP 12046 SR 6111 H  
TP 12053 SR 6890 V  
TP 12114 SR 13000 V  
TP 12188 SR 6511 H

## Star One C2 (70.0W)

TP 3628 SR 3000 H  
TP 3632 SR 4688 H  
TP 3637 SR 2608 H  
TP 3644 SR 3214 V  
TP 3650 SR 4285 H  
TP 3650 SR 4400 V  
TP 3656 SR 3393 H  
TP 3656 SR 3931 V  
TP 3663 SR 4285 V  
TP 3665 SR 4700 H  
TP 3672 SR 8454 V  
TP 3672 SR 4800 H  
TP 3680 SR 6000 H  
TP 3685 SR 5000 V  
TP 3688 SR 7500 H  
TP 3695 SR 3599 H  
TP 3700 SR 15000 V  
TP 3714 SR 4400 V  
TP 3753 SR 6220 V  
TP 3808 SR 8150 V  
TP 3822 SR 10444 V  
TP 3833 SR 7350 V  
TP 3874 SR 5926 V  
TP 3888 SR 8150 V  
TP 3898 SR 7500 V  
TP 3904 SR 3213 V  
TP 3909 SR 4000 V  
TP 3916 SR 5000 V  
TP 3940 SR 30000 V  
TP 3945 SR 3214 H  
TP 3951 SR 3214 H  
TP 3955 SR 4400 H  
TP 3964 SR 1875 H  
TP 3965 SR 2930 V  
TP 3978 SR 3617 V  
TP 3983 SR 3928 V  
TP 3985 SR 2170 H  
TP 3990 SR 7370 V  
TP 3996 SR 2300 V  
TP 4047 SR 7143 V  
TP 4070 SR 13021 H

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## All Satellites

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TP 10974 SR 28892 H  
TP 11014 SR 28892 H  
TP 11130 SR 28892 V  
TP 11170 SR 28892 V  
TP 11767 SR 2222 H

### Star One C1 (65.0W)

TP 3650 SR 4440 V  
TP 3667 SR 9043 H  
TP 3687 SR 3214 H  
TP 3691 SR 2210 H  
TP 3697 SR 4132 H  
TP 3705 SR 2462 H  
TP 3720 SR 2963 H  
TP 3736 SR 1808 H  
TP 3736 SR 2853 V  
TP 3744 SR 3540 H  
TP 3762 SR 2222 H  
TP 3766 SR 3336 H  
TP 3771 SR 1480 V  
TP 3792 SR 3393 V  
TP 3800 SR 27500 H  
TP 3832 SR 3572 H  
TP 3846 SR 4444 H  
TP 3876 SR 2740 V  
TP 3894 SR 6666 H  
TP 3920 SR 27500 H  
TP 4008 SR 3332 H  
TP 4011 SR 5000 V  
TP 4100 SR 27500 V  
TP 4126 SR 6666 V  
TP 4128 SR 6666 H  
TP 4135 SR 6666 H  
TP 4135 SR 6666 V  
TP 4145 SR 6666 V  
TP 11930 SR 14400 H

### Telstar 14 (63.0W)

TP 11576 SR 3124 V  
TP 11583 SR 3124 V  
TP 11598 SR 3124 V  
TP 11603 SR 3124 V  
TP 11640 SR 18100 V  
TP 11720 SR 31300 V  
TP 11795 SR 4444 V  
TP 11805 SR 6666 V  
TP 11827 SR 3200 V  
TP 11844 SR 5348 V  
TP 11850 SR 2222 V  
TP 11859 SR 2963 V  
TP 11871 SR 2000 V  
TP 11875 SR 3333 V  
TP 11878 SR 2963 V  
TP 11889 SR 3252 V  
TP 11894 SR 2391 V  
TP 11905 SR 2362 V  
TP 11958 SR 3255 H  
TP 11959 SR 4340 V  
TP 11979 SR 13021 H  
TP 11986 SR 3327 H  
TP 12055 SR 26666 H

### EchoStar 3/12 (61.5W)

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## All Satellites

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TP 12224 SR 21500 V  
TP 12239 SR 21500 H  
TP 12253 SR 21500 V  
TP 12282 SR 21500 V  
TP 12311 SR 21500 V  
TP 12326 SR 20000 H  
TP 12341 SR 21500 V  
TP 12355 SR 20000 H  
TP 12370 SR 21500 V  
TP 12399 SR 21500 V  
TP 12414 SR 21500 H  
TP 12428 SR 21500 V  
TP 12443 SR 21500 H  
TP 12472 SR 20000 H  
TP 12486 SR 20000 V  
TP 12501 SR 21500 H  
TP 12516 SR 20000 V  
TP 12530 SR 21500 H  
TP 12545 SR 21500 V  
TP 12559 SR 21500 H  
TP 12574 SR 21500 V  
TP 12603 SR 21500 V  
TP 12632 SR 20000 V  
TP 12647 SR 21500 H  
TP 12661 SR 21500 V  
TP 12676 SR 21500 H

## Amazonas 1 (61.0W)

TP 3630 SR 2785 H  
TP 3659 SR 6666 H  
TP 3668 SR 6666 H  
TP 3678 SR 2344 H  
TP 3941 SR 3480 V  
TP 3948 SR 6670 H  
TP 3958 SR 4440 H  
TP 3966 SR 4450 H  
TP 3990 SR 2142 H  
TP 4139 SR 4543 H  
TP 4142 SR 2651 V  
TP 4148 SR 11538 H  
TP 4150 SR 9629 V  
TP 4164 SR 3846 H  
TP 4168 SR 3461 H  
TP 4174 SR 3330 H  
TP 10975 SR 30000 V  
TP 11015 SR 28880 H  
TP 11055 SR 28880 H  
TP 11095 SR 3700 H  
TP 11108 SR 2170 V  
TP 11128 SR 3390 V  
TP 11135 SR 28880 H  
TP 11136 SR 3239 V  
TP 11175 SR 28880 H  
TP 11738 SR 40000 V  
TP 11808 SR 26667 H  
TP 11888 SR 5280 H  
TP 11911 SR 2222 H  
TP 11930 SR 28880 H  
TP 11972 SR 30000 V  
TP 11972 SR 26667 H  
TP 12012 SR 28880 H  
TP 12052 SR 28880 H  
TP 12092 SR 30000 V

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## All Satellites

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TP 12092 SR 28880 H  
TP 12132 SR 28880 H  
TP 12172 SR 30000 V  
TP 12172 SR 28880 H  
TP 12509 SR 6666 V

## Intelsat 9 (58.0W)

TP 3714 SR 17000 V  
TP 3720 SR 27700 V  
TP 3720 SR 21000 H  
TP 3733 SR 10800 V  
TP 3736 SR 3330 V  
TP 3760 SR 27690 V  
TP 3760 SR 28500 H  
TP 3787 SR 7407 H  
TP 3794 SR 3332 H  
TP 3800 SR 26470 V  
TP 3800 SR 4444 H  
TP 3805 SR 3428 H  
TP 3814 SR 6250 H  
TP 3840 SR 27690 V  
TP 3840 SR 27690 H  
TP 3880 SR 27690 V  
TP 3880 SR 27690 H  
TP 3910 SR 14407 V  
TP 3920 SR 27690 H  
TP 3924 SR 6620 V  
TP 3933 SR 7000 V  
TP 3960 SR 29270 V  
TP 3960 SR 29270 H  
TP 3986 SR 7320 H  
TP 4000 SR 29270 V  
TP 4006 SR 18600 H  
TP 4040 SR 29270 V  
TP 4040 SR 26590 H  
TP 4073 SR 6610 H  
TP 4080 SR 27690 V  
TP 4087 SR 6610 H  
TP 4107 SR 8850 H  
TP 4118 SR 4400 H  
TP 4120 SR 27500 V  
TP 4122 SR 2222 H  
TP 4125 SR 2941 H  
TP 4132 SR 4444 H  
TP 4136 SR 2941 H  
TP 4144 SR 2200 V  
TP 4146 SR 6111 H  
TP 4147 SR 2941 V  
TP 4151 SR 2888 V  
TP 4156 SR 6620 H  
TP 4160 SR 3000 V  
TP 4163 SR 7200 H  
TP 4174 SR 2941 V  
TP 4174 SR 6111 H  
TP 11477 SR 26463 H  
TP 11509 SR 6620 H  
TP 11521 SR 5632 H  
TP 11542 SR 6666 H  
TP 11557 SR 6620 H  
TP 11570 SR 6620 H  
TP 11582 SR 5632 H  
TP 11600 SR 6620 H  
TP 11860 SR 30000 V

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## All Satellites

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TP 11893 SR 20000 V  
TP 11960 SR 30000 H  
TP 11980 SR 30000 V  
TP 12000 SR 30000 H  
TP 12020 SR 30000 V  
TP 12040 SR 30000 H  
TP 12060 SR 30000 V  
TP 12080 SR 30000 H  
TP 12100 SR 30000 V  
TP 12120 SR 30000 H  
TP 12140 SR 30000 V  
TP 12160 SR 30000 H  
TP 12180 SR 30000 V

## Intelsat 805 (55.5W)

TP 3478 SR 5632 V  
TP 3603 SR 6655 V  
TP 3612 SR 3798 V  
TP 3667 SR 3300 H  
TP 3670 SR 1374 H  
TP 3674 SR 3200 H  
TP 3675 SR 4444 V  
TP 3679 SR 3100 H  
TP 3683 SR 11360 V  
TP 3684 SR 4444 H  
TP 3691 SR 4500 H  
TP 3696 SR 4232 H  
TP 3715 SR 8890 H  
TP 3717 SR 11574 V  
TP 3722 SR 3000 H  
TP 3727 SR 5200 H  
TP 3733 SR 3000 H  
TP 3735 SR 8681 V  
TP 3742 SR 3255 V  
TP 3744 SR 21700 H  
TP 3751 SR 3350 H  
TP 3759 SR 2963 H  
TP 3768 SR 4427 H  
TP 3771 SR 13333 V  
TP 3776 SR 7400 H  
TP 3791 SR 3255 V  
TP 3791 SR 2244 H  
TP 3794 SR 1447 H  
TP 3796 SR 3100 V  
TP 3801 SR 3250 V  
TP 3805 SR 3040 V  
TP 3811 SR 3140 V  
TP 3815 SR 3250 V  
TP 3818 SR 26666 H  
TP 3823 SR 4430 V  
TP 3843 SR 26000 V  
TP 3849 SR 3000 H  
TP 3853 SR 3000 H  
TP 3858 SR 4444 H  
TP 3875 SR 6620 V  
TP 3879 SR 5860 H  
TP 3882 SR 6111 V  
TP 3892 SR 6111 V  
TP 3894 SR 3617 H  
TP 3900 SR 6111 V  
TP 3907 SR 3255 H  
TP 3912 SR 1809 V  
TP 3912 SR 5632 H

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## All Satellites

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TP 3919 SR 6620 V  
TP 3923 SR 5632 H  
TP 3930 SR 2941 H  
TP 3936 SR 3255 H  
TP 3937 SR 6111 V  
TP 3940 SR 2575 H  
TP 3962 SR 3617 V  
TP 3966 SR 2963 V  
TP 3970 SR 3702 V  
TP 4001 SR 3000 V  
TP 4004 SR 3700 V  
TP 4010 SR 8889 V  
TP 4018 SR 3320 V  
TP 4025 SR 6111 V  
TP 4055 SR 30000 H  
TP 4080 SR 4340 V  
TP 4084 SR 10318 H  
TP 4088 SR 6510 V  
TP 4093 SR 1840 H  
TP 4097 SR 5247 H  
TP 4103 SR 3704 H  
TP 4107 SR 3125 H  
TP 4111 SR 4000 H  
TP 4119 SR 3100 H  
TP 4121 SR 6620 V  
TP 4127 SR 2532 H  
TP 4127 SR 3250 V  
TP 4135 SR 6111 H  
TP 4140 SR 4700 V  
TP 4145 SR 2000 V  
TP 4152 SR 3600 V  
TP 4170 SR 6111 H  
TP 4177 SR 27690 V

### Intelsat 707 (53.0W)

TP 3820 SR 3255 V  
TP 3856 SR 3906 V  
TP 4135 SR 4300 H  
TP 11632 SR 3111 V  
TP 11784 SR 1482 V  
TP 11875 SR 2344 V  
TP 12540 SR 4340 V

### Intelsat 705 (50.0W)

TP 3760 SR 7595 V  
TP 3883 SR 3978 V  
TP 3911 SR 3617 V  
TP 3917 SR 4087 V  
TP 4067 SR 2849 V  
TP 4071 SR 2849 V  
TP 4126 SR 6113 H  
TP 11123 SR 4403 H  
TP 11128 SR 4441 H  
TP 11139 SR 3411 H  
TP 11169 SR 6500 H  
TP 11177 SR 6500 H

### Intelsat 1R (45.0W)

TP 3759 SR 4412 V  
TP 3779 SR 2941 V  
TP 3789 SR 1667 V  
TP 3820 SR 3600 H  
TP 3827 SR 3255 V

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## All Satellites

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TP 3831 SR 3255 V  
TP 3848 SR 14450 V  
TP 3866 SR 3308 H  
TP 3866 SR 10073 V  
TP 3873 SR 3515 H  
TP 3879 SR 3310 V  
TP 3882 SR 5955 H  
TP 3884 SR 3515 V  
TP 3896 SR 16632 V  
TP 3911 SR 6620 V  
TP 3968 SR 3600 V  
TP 3974 SR 3410 V  
TP 3982 SR 3310 V  
TP 3987 SR 4411 V  
TP 3991 SR 2370 V  
TP 4003 SR 6620 V  
TP 4040 SR 4443 H  
TP 4071 SR 2615 V  
TP 4090 SR 3515 H  
TP 4096 SR 8102 H  
TP 4107 SR 11029 V  
TP 4151 SR 4444 H  
TP 4173 SR 4411 V  
TP 4189 SR 3308 H  
TP 4192 SR 2075 H  
TP 11170 SR 5632 V  
TP 11495 SR 3900 H  
TP 11496 SR 7593 V  
TP 11510 SR 26693 H  
TP 11514 SR 3900 V  
TP 11519 SR 3254 V  
TP 11523 SR 2893 V  
TP 11566 SR 3000 H  
TP 11576 SR 3900 H  
TP 11584 SR 6111 H  
TP 11593 SR 5632 H  
TP 11602 SR 6111 H  
TP 11618 SR 6111 V  
TP 11627 SR 6111 V  
TP 11635 SR 6111 V  
TP 11655 SR 6111 V  
TP 11663 SR 6111 V  
TP 11675 SR 1240 V  
TP 11681 SR 6111 V  
TP 11728 SR 5050 V  
TP 11734 SR 5050 V  
TP 11788 SR 10000 V  
TP 11801 SR 4440 V  
TP 11855 SR 3000 V  
TP 11870 SR 3000 V  
TP 11893 SR 6620 H

## Intelsat 3R/11 (43.0W)

TP 3718 SR 21260 V  
TP 3735 SR 6111 V  
TP 3736 SR 29270 H  
TP 3754 SR 6620 V  
TP 3780 SR 27690 H  
TP 3780 SR 3255 V  
TP 3810 SR 13838 H  
TP 3826 SR 4444 V  
TP 3828 SR 3300 V  
TP 3836 SR 7780 V

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## All Satellites

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TP 3836 SR 20770 H  
TP 3845 SR 4444 V  
TP 3854 SR 5945 V  
TP 3864 SR 10560 V  
TP 3873 SR 5632 H  
TP 3874 SR 1546 V  
TP 3894 SR 6620 V  
TP 3903 SR 5632 V  
TP 3909 SR 29270 H  
TP 3910 SR 4410 V  
TP 3919 SR 6620 V  
TP 3928 SR 13500 H  
TP 3930 SR 6620 V  
TP 3940 SR 4688 H  
TP 3943 SR 1200 V  
TP 3945 SR 2812 H  
TP 3958 SR 6111 V  
TP 3966 SR 21090 H  
TP 3967 SR 6620 V  
TP 3980 SR 3300 V  
TP 3985 SR 1200 V  
TP 3994 SR 21090 H  
TP 4003 SR 6650 V  
TP 4012 SR 6650 V  
TP 4040 SR 30800 H  
TP 4084 SR 6600 V  
TP 4106 SR 26470 V  
TP 4113 SR 19510 H  
TP 4150 SR 24570 H  
TP 4180 SR 3100 H  
TP 4192 SR 6620 H  
TP 10722 SR 30000 V  
TP 10722 SR 30000 H  
TP 10802 SR 30000 V  
TP 10882 SR 30000 V  
TP 10882 SR 30000 H  
TP 11302 SR 30000 H  
TP 11382 SR 30000 V  
TP 11382 SR 30000 H  
TP 11708 SR 4687 H  
TP 11752 SR 3112 H  
TP 11853 SR 6111 V  
TP 11863 SR 5632 V  
TP 11906 SR 6620 H  
TP 11925 SR 6620 H  
TP 11941 SR 6666 H  
TP 11956 SR 3125 V  
TP 11965 SR 1592 V  
TP 11995 SR 2864 V  
TP 11998 SR 1563 V  
TP 12004 SR 3125 V  
TP 12050 SR 23700 H  
TP 12141 SR 13333 H  
TP 12158 SR 6111 H  
TP 12508 SR 6111 H  
TP 12517 SR 6111 H  
TP 12525 SR 6620 H  
TP 12536 SR 6666 H  
TP 12544 SR 5632 H  
TP 12554 SR 5632 H  
TP 12571 SR 2205 H  
TP 12590 SR 2480 H  
TP 12593 SR 2205 H

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## All Satellites

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TP 12630 SR 6510 V  
TP 12651 SR 30800 H  
TP 12689 SR 6111 H  
TP 12693 SR 13231 V  
TP 12706 SR 6111 H  
TP 12716 SR 6666 H  
TP 12716 SR 6620 V  
TP 12722 SR 1600 V  
TP 12725 SR 5632 V  
TP 12731 SR 6111 H  
TP 12735 SR 5632 V  
TP 12740 SR 5632 H  
TP 12745 SR 6620 V

## NSS 806 (40.5W)

TP 3490 SR 6654 H  
TP 3500 SR 6666 H  
TP 3508 SR 5632 V  
TP 3533 SR 4444 V  
TP 3632 SR 2712 V  
TP 3634 SR 2740 H  
TP 3636 SR 2221 V  
TP 3637 SR 2963 H  
TP 3641 SR 2666 V  
TP 3642 SR 2170 H  
TP 3644 SR 2532 H  
TP 3646 SR 3978 V  
TP 3648 SR 2000 H  
TP 3652 SR 4000 H  
TP 3653 SR 5925 V  
TP 3658 SR 2800 V  
TP 3660 SR 4350 H  
TP 3663 SR 2170 V  
TP 3667 SR 3340 V  
TP 3671 SR 2960 H  
TP 3675 SR 5900 H  
TP 3676 SR 2212 V  
TP 3681 SR 6666 V  
TP 3685 SR 6500 H  
TP 3690 SR 5180 V  
TP 3690 SR 2400 H  
TP 3694 SR 2200 V  
TP 3695 SR 2963 H  
TP 3697 SR 2220 V  
TP 3711 SR 6400 V  
TP 3726 SR 28200 H  
TP 3734 SR 13333 V  
TP 3746 SR 2220 H  
TP 3749 SR 2200 H  
TP 3758 SR 26667 V  
TP 3760 SR 14800 H  
TP 3774 SR 6670 H  
TP 3803 SR 26860 V  
TP 3803 SR 27500 H  
TP 3830 SR 6142 V  
TP 3835 SR 2170 V  
TP 3837 SR 19510 H  
TP 3841 SR 7440 V  
TP 3848 SR 1430 V  
TP 3853 SR 5900 H  
TP 3857 SR 6111 V  
TP 3859 SR 2600 H  
TP 3868 SR 1430 V

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## All Satellites

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TP 3880 SR 22117 V  
TP 3895 SR 4195 V  
TP 3895 SR 2011 H  
TP 3920 SR 20000 V  
TP 3923 SR 27500 H  
TP 3937 SR 2170 V  
TP 3964 SR 1845 V  
TP 3966 SR 1845 V  
TP 3972 SR 3330 H  
TP 3977 SR 3978 H  
TP 3980 SR 17800 V  
TP 3982 SR 2222 H  
TP 3986 SR 3179 H  
TP 3990 SR 4195 V  
TP 3991 SR 3580 H  
TP 3998 SR 2450 H  
TP 4002 SR 2450 H  
TP 4005 SR 2450 H  
TP 4006 SR 5632 V  
TP 4009 SR 2450 H  
TP 4011 SR 2850 V  
TP 4016 SR 5712 V  
TP 4021 SR 16030 H  
TP 4025 SR 9640 V  
TP 4031 SR 2960 H  
TP 4041 SR 5200 V  
TP 4043 SR 8681 H  
TP 4047 SR 2200 V  
TP 4053 SR 7234 H  
TP 4056 SR 4440 V  
TP 4065 SR 10650 H  
TP 4070 SR 3700 V  
TP 4081 SR 6511 V  
TP 4090 SR 2515 V  
TP 4091 SR 6666 H  
TP 4093 SR 2888 V  
TP 4100 SR 6666 H  
TP 4100 SR 6111 V  
TP 4108 SR 2000 V  
TP 4109 SR 6666 H  
TP 4112 SR 2200 V  
TP 4119 SR 2960 V  
TP 4122 SR 1860 V  
TP 4122 SR 3480 H  
TP 4125 SR 3000 H  
TP 4126 SR 2531 V  
TP 4129 SR 2000 V  
TP 4132 SR 2357 V  
TP 4132 SR 2480 H  
TP 4136 SR 3333 V  
TP 4137 SR 4400 H  
TP 4142 SR 2222 H  
TP 4143 SR 4800 V  
TP 4146 SR 2571 H  
TP 4151 SR 3280 V  
TP 4161 SR 6666 H  
TP 4168 SR 2010 H  
TP 4170 SR 2222 H  
TP 4177 SR 5600 H  
TP 4189 SR 13021 H  
TP 11783 SR 3775 H  
TP 11921 SR 35000 H

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## All Satellites

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### NSS 10/Telstar 11N (37.5W)

TP 3775 SR 1795 H  
TP 3805 SR 2143 H  
TP 3805 SR 2143 V  
TP 3824 SR 1808 H  
TP 3828 SR 2530 H  
TP 3833 SR 2893 H  
TP 3868 SR 6666 V  
TP 3935 SR 8882 H  
TP 3970 SR 11111 H  
TP 4031 SR 11111 V  
TP 4044 SR 3250 V  
TP 4045 SR 4423 V  
TP 4051 SR 4440 V  
TP 4055 SR 2700 V  
TP 4060 SR 3214 V  
TP 4066 SR 2893 V  
TP 4069 SR 2702 V  
TP 4072 SR 3150 V  
TP 4076 SR 3200 V  
TP 4083 SR 10000 H  
TP 4133 SR 8888 V  
TP 4193 SR 7111 V  
TP 10982 SR 21100 V  
TP 10996 SR 6111 V  
TP 11477 SR 20000 H  
TP 12516 SR 6111 V  
TP 12543 SR 3500 V  
TP 12642 SR 28800 H

### Intelsat 903 (34.5W)

TP 3709 SR 2914 H  
TP 3714 SR 2914 H  
TP 3743 SR 3220 H  
TP 3878 SR 16300 H  
TP 3895 SR 8594 H  
TP 3904 SR 2487 H  
TP 3907 SR 3041 H  
TP 10960 SR 5632 V  
TP 10968 SR 5632 V  
TP 10985 SR 29950 H  
TP 10988 SR 4280 V  
TP 11027 SR 8500 V  
TP 11049 SR 13333 V  
TP 11093 SR 30000 H  
TP 11190 SR 3333 H  
TP 11464 SR 5255 V  
TP 11473 SR 2480 V  
TP 11495 SR 45000 H  
TP 11555 SR 30000 H  
TP 11568 SR 6111 V  
TP 11580 SR 4280 V  
TP 11588 SR 3214 V  
TP 11593 SR 4280 V  
TP 11599 SR 4280 V  
TP 11604 SR 4280 V  
TP 11610 SR 6111 V  
TP 11620 SR 4224 V  
TP 11625 SR 4224 V  
TP 11631 SR 4224 V  
TP 11635 SR 30000 H  
TP 11644 SR 12000 V  
TP 11675 SR 30000 H

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## All Satellites

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TP 11675 SR 30000 V

### Intelsat 801 (31.5W)

TP 4005 SR 7498 V  
TP 10963 SR 5632 V  
TP 10972 SR 5632 V  
TP 10981 SR 5632 V  
TP 10990 SR 5632 V  
TP 10999 SR 5632 V  
TP 11007 SR 5632 V  
TP 11017 SR 7400 V  
TP 11026 SR 6111 V  
TP 11044 SR 4224 V  
TP 11050 SR 4224 V  
TP 11057 SR 4224 V  
TP 11062 SR 4224 V  
TP 11068 SR 4224 V  
TP 11074 SR 4224 V  
TP 11080 SR 4224 V  
TP 11086 SR 4224 V  
TP 11092 SR 4224 V  
TP 11104 SR 4224 V  
TP 11475 SR 5632 V  
TP 11484 SR 5632 V  
TP 11553 SR 2355 V  
TP 11585 SR 3400 V  
TP 11590 SR 3400 V  
TP 11595 SR 3400 V  
TP 11600 SR 3400 V  
TP 11604 SR 3400 V  
TP 11609 SR 3400 V  
TP 11614 SR 3400 V  
TP 11622 SR 3400 V  
TP 11627 SR 3400 V  
TP 11632 SR 3400 V  
TP 11635 SR 3400 V  
TP 11639 SR 3400 V  
TP 11644 SR 3400 V  
TP 11648 SR 3400 V  
TP 11652 SR 3400 V  
TP 11657 SR 3400 V  
TP 11663 SR 3400 V  
TP 11669 SR 3400 V  
TP 11677 SR 3400 V

### Hispasat 1C/1D (30.0W)

TP 11466 SR 3500 H  
TP 11474 SR 3400 H  
TP 11481 SR 2222 H  
TP 11492 SR 4444 H  
TP 11498 SR 4444 H  
TP 11503 SR 4444 H  
TP 11507 SR 6000 V  
TP 11510 SR 4444 H  
TP 11521 SR 4500 H  
TP 11526 SR 4444 H  
TP 11535 SR 24500 V  
TP 11537 SR 4500 H  
TP 11546 SR 4444 H  
TP 11551 SR 5632 H  
TP 11571 SR 11860 H  
TP 11577 SR 27500 V  
TP 11617 SR 27500 V

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## All Satellites

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TP 11640 SR 1300 H  
TP 11646 SR 1667 V  
TP 11650 SR 1010 V  
TP 11654 SR 5632 V  
TP 11661 SR 4500 V  
TP 11667 SR 4500 V  
TP 11673 SR 4500 V  
TP 11682 SR 3800 V  
TP 11715 SR 5632 V  
TP 11731 SR 30000 H  
TP 11731 SR 29000 V  
TP 11771 SR 27500 H  
TP 11771 SR 30000 V  
TP 11811 SR 27500 H  
TP 11811 SR 27500 V  
TP 11851 SR 27500 H  
TP 11851 SR 27500 V  
TP 11884 SR 27500 V  
TP 11891 SR 27500 H  
TP 11891 SR 30000 V  
TP 11909 SR 7200 V  
TP 11930 SR 2220 V  
TP 11931 SR 27500 H  
TP 11931 SR 27500 V  
TP 11940 SR 7500 V  
TP 11972 SR 27500 V  
TP 12012 SR 30000 H  
TP 12012 SR 27500 V  
TP 12052 SR 30000 H  
TP 12052 SR 27500 V  
TP 12085 SR 5632 H  
TP 12092 SR 30000 H  
TP 12092 SR 27500 V  
TP 12093 SR 5632 H  
TP 12132 SR 27500 H  
TP 12139 SR 3030 V  
TP 12142 SR 3255 V  
TP 12146 SR 4200 V  
TP 12149 SR 27500 V  
TP 12156 SR 2222 V  
TP 12159 SR 2348 V  
TP 12162 SR 3030 V  
TP 12169 SR 5240 V  
TP 12172 SR 27500 H  
TP 12173 SR 2222 V  
TP 12184 SR 2582 V  
TP 12188 SR 2582 V  
TP 12226 SR 27500 V  
TP 12303 SR 27500 V  
TP 12380 SR 27500 V  
TP 12456 SR 30000 V  
TP 12522 SR 7400 V  
TP 12547 SR 30000 V  
TP 12550 SR 3400 H  
TP 12564 SR 4500 V  
TP 12576 SR 6750 H  
TP 12606 SR 4500 H  
TP 12698 SR 4500 V  
TP 12705 SR 2222 V  
TP 12710 SR 4500 V  
TP 12716 SR 4500 V  
TP 12722 SR 4500 V  
TP 12732 SR 4500 V

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## All Satellites

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### Intelsat 907 (27.5W)

TP 3714 SR 2914 H  
TP 3715 SR 8448 V  
TP 3732 SR 14000 V  
TP 3764 SR 24450 V  
TP 3784 SR 6510 H  
TP 3791 SR 6510 H  
TP 3794 SR 4400 H  
TP 3795 SR 7000 V  
TP 3803 SR 2000 V  
TP 3831 SR 5787 V  
TP 3841 SR 10850 V  
TP 3855 SR 4600 H  
TP 3873 SR 3200 H  
TP 3898 SR 2893 V  
TP 3898 SR 2893 H  
TP 3902 SR 1807 V  
TP 3930 SR 6365 H  
TP 3935 SR 3544 H  
TP 3936 SR 4550 V  
TP 3943 SR 1808 H  
TP 4003 SR 5632 H  
TP 4048 SR 7000 V  
TP 4060 SR 5632 H  
TP 4069 SR 4100 H  
TP 4110 SR 1384 H  
TP 11015 SR 5632 V  
TP 11050 SR 17100 H  
TP 11070 SR 6111 V  
TP 11079 SR 3720 V  
TP 11084 SR 3720 V  
TP 11090 SR 3720 V  
TP 11096 SR 3720 V  
TP 11102 SR 3720 V  
TP 11108 SR 3720 V  
TP 11495 SR 44100 V  
TP 11542 SR 3720 V  
TP 11546 SR 3720 V  
TP 11552 SR 3720 V  
TP 11555 SR 30000 H  
TP 11609 SR 5632 V  
TP 11665 SR 13021 V

### Intelsat 905 (24.5W)

TP 4061 SR 2848 V  
TP 4111 SR 5750 H  
TP 4168 SR 3100 V  
TP 4181 SR 6111 V  
TP 4193 SR 5179 V  
TP 10958 SR 4444 V  
TP 10962 SR 4280 H  
TP 10963 SR 4444 V  
TP 10968 SR 4280 H  
TP 10969 SR 4444 V  
TP 10974 SR 4444 V  
TP 10974 SR 4280 H  
TP 10981 SR 4280 H  
TP 10985 SR 5632 V  
TP 10987 SR 4280 H  
TP 10992 SR 4280 H  
TP 10993 SR 4500 V  
TP 10998 SR 4444 V

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## All Satellites

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TP 11004 SR 14400 H  
TP 11004 SR 6620 V  
TP 11010 SR 4444 V  
TP 11017 SR 5632 V  
TP 11022 SR 4280 H  
TP 11028 SR 4280 H  
TP 11035 SR 3333 V  
TP 11049 SR 6620 V  
TP 11055 SR 18500 H  
TP 11058 SR 6111 V  
TP 11069 SR 5632 V  
TP 11076 SR 6111 V  
TP 11086 SR 17000 H  
TP 11095 SR 8681 V  
TP 11102 SR 4500 H  
TP 11108 SR 1852 H  
TP 11134 SR 2000 V  
TP 11137 SR 28670 H  
TP 11156 SR 2800 H  
TP 11164 SR 4444 H  
TP 11170 SR 4444 H  
TP 11177 SR 5632 H  
TP 11186 SR 5632 H  
TP 11462 SR 4444 H  
TP 11468 SR 4442 H  
TP 11474 SR 4444 H  
TP 11481 SR 6666 V  
TP 11481 SR 5632 H  
TP 11486 SR 4444 H  
TP 11492 SR 4444 H  
TP 11498 SR 4444 H  
TP 11506 SR 4444 H  
TP 11511 SR 4444 H  
TP 11516 SR 3454 V  
TP 11516 SR 4444 H  
TP 11520 SR 3333 V  
TP 11522 SR 4444 H  
TP 11527 SR 6111 H  
TP 11530 SR 3333 V  
TP 11539 SR 4500 V  
TP 11540 SR 5632 H  
TP 11544 SR 5632 V  
TP 11550 SR 3240 H  
TP 11552 SR 4444 V  
TP 11554 SR 3250 H  
TP 11558 SR 4444 V  
TP 11559 SR 3330 H  
TP 11568 SR 6620 H  
TP 11570 SR 4444 V  
TP 11580 SR 4280 V  
TP 11580 SR 4444 H  
TP 11586 SR 4280 V  
TP 11586 SR 4444 H  
TP 11592 SR 4280 V  
TP 11598 SR 4280 V  
TP 11599 SR 4280 H  
TP 11604 SR 4280 V  
TP 11610 SR 3214 V  
TP 11620 SR 4280 V  
TP 11626 SR 4280 V  
TP 11626 SR 13500 H  
TP 11632 SR 5632 V  
TP 11638 SR 4280 H

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## All Satellites

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TP 11639 SR 2852 V  
TP 11644 SR 4444 V  
TP 11644 SR 4280 H  
TP 11650 SR 4280 H  
TP 11651 SR 2852 V  
TP 11660 SR 4280 H  
TP 11666 SR 4280 H  
TP 11672 SR 4280 H  
TP 11675 SR 27500 V  
TP 11678 SR 4280 H  
TP 11684 SR 4280 H  
TP 11690 SR 4280 H

## NSS 7 (22.0W)

TP 3644 SR 27497 V  
TP 3675 SR 2222 V  
TP 3725 SR 1462 H  
TP 3739 SR 1755 H  
TP 3743 SR 2285 H  
TP 3761 SR 22650 V  
TP 3790 SR 5632 V  
TP 3830 SR 2893 V  
TP 3846 SR 2894 V  
TP 3869 SR 5632 V  
TP 3919 SR 3410 H  
TP 3924 SR 3410 H  
TP 3929 SR 3410 H  
TP 3929 SR 5632 V  
TP 3931 SR 25000 H  
TP 3954 SR 5632 V  
TP 3966 SR 2221 H  
TP 3970 SR 3332 H  
TP 3976 SR 1844 H  
TP 3994 SR 30000 H  
TP 4016 SR 3662 H  
TP 4034 SR 3690 V  
TP 4039 SR 3906 V  
TP 4043 SR 3560 V  
TP 4048 SR 3333 V  
TP 4053 SR 3333 V  
TP 4056 SR 2441 V  
TP 4060 SR 2016 H  
TP 4061 SR 3210 V  
TP 4065 SR 3590 H  
TP 4071 SR 3502 V  
TP 4115 SR 3680 H  
TP 4149 SR 6375 V  
TP 4156 SR 4780 V  
TP 4157 SR 6111 V  
TP 4160 SR 2400 V  
TP 4179 SR 27500 V  
TP 10969 SR 4884 H  
TP 10977 SR 6400 H  
TP 10984 SR 6111 H  
TP 10986 SR 30000 V  
TP 10996 SR 5632 H  
TP 11004 SR 5632 H  
TP 11010 SR 6111 H  
TP 11035 SR 6111 H  
TP 11051 SR 30000 V  
TP 11068 SR 13333 H  
TP 11096 SR 6111 H  
TP 11148 SR 6666 H

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## All Satellites

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TP 11162 SR 3404 H  
TP 11468 SR 3978 H  
TP 11477 SR 6666 H  
TP 11491 SR 30000 V  
TP 11510 SR 5632 H  
TP 11533 SR 2893 H  
TP 11551 SR 30000 V  
TP 11553 SR 6600 H  
TP 11563 SR 6111 H  
TP 11588 SR 5632 H  
TP 11597 SR 5632 H  
TP 11605 SR 4000 H  
TP 11620 SR 1240 H  
TP 11636 SR 1695 H  
TP 11648 SR 5926 H  
TP 11657 SR 5632 H  
TP 11666 SR 5632 H  
TP 11672 SR 2790 H  
TP 11675 SR 3254 H  
TP 11679 SR 3254 H  
TP 11690 SR 15000 H  
TP 11777 SR 4000 H  
TP 11861 SR 35000 H  
TP 11921 SR 35000 H  
TP 12005 SR 4000 V  
TP 12035 SR 2893 H  
TP 12040 SR 2893 H  
TP 12097 SR 5632 H  
TP 12116 SR 6600 H  
TP 12125 SR 6600 H  
TP 12137 SR 4203 H  
TP 12143 SR 4203 H  
TP 12149 SR 4203 H  
TP 12509 SR 5632 H  
TP 12518 SR 6428 H  
TP 12527 SR 6428 H  
TP 12536 SR 6600 H  
TP 12545 SR 6111 H  
TP 12559 SR 13333 H  
TP 12637 SR 4200 H  
TP 12704 SR 5632 H  
TP 12715 SR 6111 H  
TP 12735 SR 18085 H

## Intelsat 901 (18.0W)

TP 3717 SR 2480 H  
TP 3792 SR 4340 V  
TP 3793 SR 5600 H  
TP 3798 SR 4340 V  
TP 3803 SR 2894 V  
TP 3808 SR 4340 V  
TP 3813 SR 2480 V  
TP 3818 SR 2480 V  
TP 3890 SR 26500 H  
TP 3924 SR 2893 V  
TP 3968 SR 5632 H  
TP 4112 SR 1808 H  
TP 4140 SR 3500 H  
TP 10967 SR 6666 H  
TP 10973 SR 3450 H  
TP 10975 SR 14571 V  
TP 10978 SR 6111 H  
TP 10983 SR 3450 H

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## All Satellites

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TP 10989 SR 3450 H  
TP 10990 SR 5632 V  
TP 10994 SR 3450 H  
TP 11000 SR 1666 H  
TP 11015 SR 6111 V  
TP 11057 SR 1950 H  
TP 11064 SR 5632 H  
TP 11078 SR 1200 H  
TP 11088 SR 6111 H  
TP 11094 SR 1614 H  
TP 11098 SR 2985 H  
TP 11102 SR 2985 H  
TP 11106 SR 2894 H  
TP 11109 SR 2895 H  
TP 11123 SR 6111 H  
TP 11130 SR 3300 H  
TP 11156 SR 1600 H  
TP 11167 SR 5632 H  
TP 11177 SR 5632 H  
TP 11496 SR 1181 H  
TP 11568 SR 5773 H  
TP 11581 SR 5632 H  
TP 11599 SR 5632 H  
TP 11620 SR 5632 V  
TP 11659 SR 5632 H  
TP 11668 SR 5632 H  
TP 11689 SR 5632 H

## Telstar 12 (15.0W)

TP 11005 SR 8880 H  
TP 11012 SR 3400 V  
TP 11016 SR 3333 V  
TP 11036 SR 2250 V  
TP 11060 SR 19279 H  
TP 11066 SR 3333 V  
TP 11094 SR 13333 H  
TP 11124 SR 18386 H  
TP 11124 SR 19279 V  
TP 11150 SR 18386 H  
TP 11150 SR 19279 V  
TP 11457 SR 3255 V  
TP 11472 SR 3310 H  
TP 11498 SR 6111 V  
TP 11505 SR 3254 H  
TP 11518 SR 3744 H  
TP 11522 SR 1500 H  
TP 11525 SR 3198 H  
TP 11531 SR 3198 H  
TP 11539 SR 4284 H  
TP 11566 SR 5625 H  
TP 11597 SR 3200 V  
TP 11625 SR 3979 V  
TP 11644 SR 5632 V  
TP 11648 SR 6620 H  
TP 11651 SR 5632 V  
TP 11662 SR 5632 V  
TP 11669 SR 5632 H  
TP 11671 SR 6666 V  
TP 11677 SR 2200 V  
TP 11685 SR 1800 H  
TP 11688 SR 1800 H  
TP 11690 SR 2200 V  
TP 11691 SR 3255 H

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## All Satellites

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TP 11693 SR 1591 H  
TP 11709 SR 3195 V  
TP 11710 SR 6750 H  
TP 11720 SR 6600 H  
TP 11723 SR 3200 V  
TP 11737 SR 6600 H  
TP 11755 SR 5500 V  
TP 11806 SR 7596 V  
TP 11963 SR 14714 H  
TP 11984 SR 13570 H  
TP 12004 SR 6111 H  
TP 12039 SR 6111 V  
TP 12060 SR 4275 V  
TP 12082 SR 3935 H  
TP 12087 SR 3200 V  
TP 12094 SR 2000 V  
TP 12100 SR 3200 V  
TP 12107 SR 3330 V  
TP 12123 SR 3480 V  
TP 12126 SR 2000 V  
TP 12160 SR 17497 H  
TP 12173 SR 3503 H  
TP 12524 SR 26470 V  
TP 12547 SR 11900 H  
TP 12572 SR 4285 V  
TP 12584 SR 3976 H  
TP 12589 SR 4503 V  
TP 12589 SR 1925 H  
TP 12608 SR 19279 H  
TP 12615 SR 11939 V  
TP 12645 SR 3255 H  
TP 12658 SR 3255 H  
TP 12663 SR 2894 H  
TP 12674 SR 5632 H  
TP 12696 SR 5632 H  
TP 12705 SR 5632 H  
TP 12710 SR 6666 V  
TP 12740 SR 5632 V

### Express A4 (14.0W)

TP 3675 SR 29623 V  
TP 3766 SR 3020 V

### Atlantic Bird 1 (12.5W)

TP 10960 SR 3333 H  
TP 10962 SR 3333 H  
TP 10967 SR 3333 H  
TP 10971 SR 3333 H  
TP 10976 SR 3333 H  
TP 10980 SR 3333 H  
TP 10985 SR 3333 H  
TP 10989 SR 3333 H  
TP 10994 SR 3333 H  
TP 10998 SR 3333 H  
TP 11003 SR 3333 H  
TP 11007 SR 3333 H  
TP 11012 SR 3333 H  
TP 11016 SR 3333 H  
TP 11021 SR 3333 H  
TP 11025 SR 3333 H  
TP 11042 SR 4500 H  
TP 11046 SR 2320 V  
TP 11048 SR 4500 H

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## All Satellites

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TP 11052 SR 4224 V  
TP 11058 SR 4224 V  
TP 11059 SR 3212 H  
TP 11064 SR 4224 V  
TP 11071 SR 4224 V  
TP 11072 SR 4500 H  
TP 11078 SR 6666 V  
TP 11081 SR 6111 H  
TP 11087 SR 6666 V  
TP 11091 SR 3333 H  
TP 11098 SR 6666 V  
TP 11099 SR 2000 H  
TP 11106 SR 6666 V  
TP 11124 SR 3124 V  
TP 11129 SR 3200 V  
TP 11132 SR 3255 H  
TP 11136 SR 3700 V  
TP 11137 SR 2893 H  
TP 11143 SR 4224 H  
TP 11144 SR 5632 V  
TP 11153 SR 5632 V  
TP 11157 SR 2900 H  
TP 11162 SR 5632 V  
TP 11163 SR 3200 H  
TP 11174 SR 15190 H  
TP 11179 SR 22400 V  
TP 11332 SR 6428 H  
TP 11337 SR 1923 H  
TP 11340 SR 2279 H  
TP 11343 SR 3184 H  
TP 11355 SR 11781 H  
TP 11371 SR 3400 H  
TP 11375 SR 3400 H  
TP 11380 SR 3215 H  
TP 11393 SR 12750 H  
TP 11408 SR 27500 V  
TP 11428 SR 30000 H  
TP 11595 SR 27500 V  
TP 11597 SR 3884 H  
TP 11622 SR 3255 H  
TP 11643 SR 2398 H  
TP 11645 SR 4790 V  
TP 11647 SR 3992 H  
TP 11651 SR 3688 V  
TP 11655 SR 6666 H  
TP 11664 SR 6111 H  
TP 11690 SR 5700 H  
TP 12515 SR 17455 H  
TP 12521 SR 2400 V  
TP 12535 SR 1000 V  
TP 12536 SR 1300 V  
TP 12540 SR 3000 V  
TP 12545 SR 17455 H  
TP 12546 SR 6111 V  
TP 12570 SR 2500 V  
TP 12574 SR 3400 V  
TP 12583 SR 2625 H  
TP 12588 SR 2250 H  
TP 12594 SR 2170 H  
TP 12597 SR 1730 H  
TP 12604 SR 1481 H  
TP 12604 SR 2400 V  
TP 12611 SR 4285 V

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**All Satellites**

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TP 12612 SR 4285 H  
TP 12618 SR 4285 V  
TP 12635 SR 6666 H  
TP 12643 SR 6111 V  
TP 12644 SR 6111 H  
TP 12651 SR 5632 V  
TP 12655 SR 4285 H  
TP 12659 SR 2141 H  
TP 12662 SR 3928 V  
TP 12668 SR 3213 H  
TP 12671 SR 2692 V  
TP 12672 SR 3214 H  
TP 12679 SR 6666 V  
TP 12680 SR 3690 H  
TP 12693 SR 3500 V  
TP 12705 SR 5632 V  
TP 12730 SR 3254 V  
TP 12737 SR 2963 V  
TP 12743 SR 3214 V

**Express AM44 (11.0W)**

TP 3662 SR 10808 V  
TP 10957 SR 2720 V  
TP 10961 SR 2720 V  
TP 10965 SR 2300 V  
TP 11556 SR 2400 V

**Atlantic Bird 2/Telecom 2D (8.0W)**

TP 3906 SR 2480 V  
TP 10974 SR 27500 H  
TP 11010 SR 27500 H  
TP 11042 SR 7860 H  
TP 11053 SR 2850 H  
TP 11064 SR 12667 H  
TP 11082 SR 2210 H  
TP 11100 SR 2170 H  
TP 11106 SR 6667 H  
TP 11140 SR 30000 H  
TP 11167 SR 2140 H  
TP 11185 SR 2900 H  
TP 11193 SR 2900 H  
TP 11459 SR 6285 H  
TP 11467 SR 6285 H  
TP 11476 SR 6285 H  
TP 11477 SR 3823 V  
TP 11482 SR 3823 V  
TP 11484 SR 6285 H  
TP 11488 SR 3823 V  
TP 11493 SR 3823 V  
TP 11498 SR 3823 V  
TP 11500 SR 3460 H  
TP 11501 SR 6111 H  
TP 11503 SR 3823 V  
TP 11508 SR 3823 V  
TP 11510 SR 6111 H  
TP 11518 SR 6111 H  
TP 11520 SR 3100 V  
TP 11524 SR 3100 V  
TP 11525 SR 6111 H  
TP 11529 SR 3100 V  
TP 11535 SR 5632 V  
TP 11542 SR 3100 V  
TP 11544 SR 6111 H

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## All Satellites

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TP 11546 SR 3100 V  
TP 11552 SR 6111 H  
TP 11554 SR 27500 V  
TP 11560 SR 6111 H  
TP 11562 SR 3750 V  
TP 11567 SR 3750 V  
TP 11569 SR 6111 H  
TP 11571 SR 3750 V  
TP 11576 SR 3750 V  
TP 11582 SR 3750 V  
TP 11586 SR 6111 H  
TP 11587 SR 3750 V  
TP 11593 SR 3750 V  
TP 11594 SR 6111 H  
TP 11595 SR 27500 V  
TP 11602 SR 6111 H  
TP 11603 SR 3100 V  
TP 11608 SR 3100 V  
TP 11610 SR 6111 H  
TP 11612 SR 3100 V  
TP 11617 SR 3100 V  
TP 11621 SR 3100 V  
TP 11628 SR 6111 H  
TP 11636 SR 6111 H  
TP 11644 SR 6111 H  
TP 11652 SR 6111 H  
TP 11669 SR 6111 H  
TP 11677 SR 6111 H  
TP 11685 SR 6285 H  
TP 11694 SR 6285 H  
TP 12511 SR 6111 V  
TP 12516 SR 5000 H  
TP 12520 SR 6111 V  
TP 12527 SR 5000 H  
TP 12529 SR 6111 V  
TP 12534 SR 7500 H  
TP 12538 SR 6111 V  
TP 12545 SR 3038 H  
TP 12549 SR 2742 H  
TP 12552 SR 2742 H  
TP 12558 SR 3600 H  
TP 12566 SR 27500 V  
TP 12574 SR 3054 H  
TP 12579 SR 3054 H  
TP 12583 SR 3054 H  
TP 12587 SR 3054 H  
TP 12591 SR 5632 V  
TP 12592 SR 3056 H  
TP 12598 SR 4250 H  
TP 12613 SR 3056 H  
TP 12620 SR 4250 H  
TP 12624 SR 3055 H  
TP 12644 SR 6666 V  
TP 12653 SR 7200 V  
TP 12657 SR 6285 H  
TP 12664 SR 2742 V  
TP 12666 SR 5632 H  
TP 12673 SR 2778 H  
TP 12676 SR 2778 H  
TP 12676 SR 5632 V  
TP 12684 SR 5632 H  
TP 12686 SR 6111 V  
TP 12695 SR 6111 V

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**All Satellites**

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TP 12698 SR 2742 H  
TP 12703 SR 5632 V  
TP 12706 SR 2742 H  
TP 12714 SR 2742 H  
TP 12720 SR 3325 H  
TP 12724 SR 3880 H  
TP 12730 SR 3880 H  
TP 12735 SR 3880 H  
TP 12740 SR 3880 H

**Atlantic Bird 4A/Nilesat 101/102 (7.0W)**

TP 10719 SR 27500 V  
TP 10758 SR 27500 V  
TP 10775 SR 27500 H  
TP 10796 SR 27500 V  
TP 10873 SR 27500 V  
TP 10892 SR 27500 H  
TP 10911 SR 27500 V  
TP 10930 SR 27500 H  
TP 11317 SR 27500 V  
TP 11334 SR 27485 H  
TP 11355 SR 27500 V  
TP 11374 SR 27500 H  
TP 11411 SR 27500 H  
TP 11747 SR 27500 V  
TP 11766 SR 27500 H  
TP 11785 SR 27500 V  
TP 11804 SR 27500 H  
TP 11823 SR 27500 V  
TP 11843 SR 27500 H  
TP 11862 SR 27500 V  
TP 11881 SR 27500 H  
TP 11900 SR 27500 V  
TP 11919 SR 27500 H  
TP 11938 SR 27500 V  
TP 11958 SR 27500 H  
TP 11977 SR 27500 V  
TP 11996 SR 27500 H  
TP 12015 SR 27500 V  
TP 12034 SR 27500 H  
TP 12054 SR 27500 V  
TP 12073 SR 27500 H  
TP 12130 SR 27500 V  
TP 12149 SR 27500 H  
TP 12207 SR 27500 V  
TP 12226 SR 27500 H  
TP 12284 SR 27500 V  
TP 12303 SR 27500 H  
TP 12341 SR 27500 V  
TP 12360 SR 27500 H  
TP 12380 SR 27500 V  
TP 12399 SR 27500 H  
TP 12418 SR 27500 V  
TP 12437 SR 27500 H  
TP 12456 SR 27500 V  
TP 12476 SR 27500 H

**Atlantic Bird 3 (5.0W)**

TP 3630 SR 3255 V  
TP 3633 SR 2100 V  
TP 3642 SR 2100 V  
TP 3646 SR 2170 V  
TP 3656 SR 2893 V

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## All Satellites

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TP 3661 SR 2170 V  
TP 3712 SR 2785 H  
TP 3727 SR 29950 V  
TP 4023 SR 2018 V  
TP 4031 SR 1654 H  
TP 4114 SR 2143 H  
TP 4116 SR 1482 V  
TP 4123 SR 8319 V  
TP 4142 SR 3214 V  
TP 4154 SR 2289 H  
TP 4158 SR 20330 V  
TP 4160 SR 1943 H  
TP 4163 SR 1500 H  
TP 10972 SR 29950 V  
TP 11054 SR 29950 V  
TP 11065 SR 18085 H  
TP 11096 SR 29950 V  
TP 11108 SR 3125 H  
TP 11165 SR 6666 V  
TP 11168 SR 6111 H  
TP 11174 SR 5632 V  
TP 11177 SR 6111 H  
TP 11182 SR 6666 V  
TP 11184 SR 5632 H  
TP 11187 SR 3500 V  
TP 11195 SR 3333 H  
TP 11196 SR 3500 V  
TP 11468 SR 3100 H  
TP 11471 SR 29950 V  
TP 11478 SR 10911 H  
TP 11496 SR 6111 H  
TP 11505 SR 5632 H  
TP 11512 SR 29950 V  
TP 11513 SR 5632 H  
TP 11522 SR 6111 H  
TP 11538 SR 8681 H  
TP 11554 SR 29950 V  
TP 11576 SR 3333 H  
TP 11578 SR 6111 H  
TP 11586 SR 6666 H  
TP 11591 SR 20000 V  
TP 11603 SR 3215 H  
TP 11609 SR 6111 V  
TP 11618 SR 1850 H  
TP 11628 SR 5632 H  
TP 11674 SR 3215 H  
TP 11683 SR 5632 H  
TP 11689 SR 3214 H  
TP 12543 SR 27500 H  
TP 12615 SR 9180 H  
TP 12674 SR 16935 H  
TP 12711 SR 30000 H

## Amos 2/3 (4.0W)

TP 10722 SR 30000 V  
TP 10722 SR 27500 H  
TP 10758 SR 30000 V  
TP 10759 SR 30000 H  
TP 10806 SR 30000 V  
TP 10806 SR 27500 H  
TP 10842 SR 30000 V  
TP 10842 SR 27500 H  
TP 10890 SR 27500 V

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## All Satellites

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TP 10890 SR 27500 H  
TP 10925 SR 27500 V  
TP 10925 SR 27500 H  
TP 10959 SR 3700 H  
TP 10972 SR 27500 V  
TP 10986 SR 6666 H  
TP 11006 SR 3700 H  
TP 11008 SR 27500 V  
TP 11015 SR 2295 H  
TP 11123 SR 1850 H  
TP 11127 SR 4444 H  
TP 11133 SR 4444 H  
TP 11167 SR 12500 H  
TP 11179 SR 6666 H  
TP 11185 SR 3333 H  
TP 11190 SR 3333 H  
TP 11260 SR 27500 H  
TP 11289 SR 1852 H  
TP 11304 SR 19540 H  
TP 11319 SR 2750 H  
TP 11324 SR 3332 H  
TP 11329 SR 3385 H  
TP 11333 SR 3500 H  
TP 11340 SR 3700 H  
TP 11347 SR 3350 H  
TP 11352 SR 3350 H  
TP 11384 SR 19000 H  
TP 11411 SR 7925 H  
TP 11419 SR 2604 H  
TP 11429 SR 5925 H  
TP 11435 SR 2088 H  
TP 11474 SR 27500 V  
TP 11510 SR 30000 V  
TP 11543 SR 3333 H  
TP 11556 SR 15550 H  
TP 11572 SR 8888 H  
TP 11592 SR 21350 H  
TP 11625 SR 3000 V  
TP 11630 SR 3000 V  
TP 11635 SR 1480 V  
TP 11637 SR 2200 V  
TP 11647 SR 9167 H  
TP 11647 SR 8518 V  
TP 11654 SR 2000 H  
TP 11658 SR 8520 V  
TP 11670 SR 10005 H  
TP 11672 SR 1844 V  
TP 11679 SR 2314 H  
TP 11684 SR 3350 H

### Thor 3/5/Intelsat 10-02 (0.8W)

TP 3856 SR 10000 H  
TP 3977 SR 17777 H  
TP 3985 SR 4000 V  
TP 4025 SR 7324 V  
TP 4080 SR 2750 H  
TP 4084 SR 3907 H  
TP 4175 SR 28000 V  
TP 4180 SR 21050 H  
TP 11041 SR 3100 H  
TP 11045 SR 2500 H  
TP 11048 SR 3100 H  
TP 11090 SR 6111 V

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## All Satellites

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TP 11093 SR 19191 H  
TP 11166 SR 1450 V  
TP 11172 SR 6111 V  
TP 11182 SR 3100 V  
TP 11216 SR 24500 V  
TP 11229 SR 24500 H  
TP 11247 SR 24500 V  
TP 11261 SR 24500 H  
TP 11278 SR 24500 V  
TP 11293 SR 24500 H  
TP 11309 SR 24500 V  
TP 11325 SR 24500 H  
TP 11341 SR 24500 V  
TP 11357 SR 24500 H  
TP 11372 SR 24500 V  
TP 11389 SR 24500 H  
TP 11403 SR 24500 V  
TP 11421 SR 24500 H  
TP 11434 SR 24500 V  
TP 11463 SR 6111 V  
TP 11471 SR 6111 V  
TP 11481 SR 6111 V  
TP 11491 SR 6111 V  
TP 11497 SR 3333 V  
TP 11502 SR 3200 V  
TP 11508 SR 3200 V  
TP 11517 SR 6111 V  
TP 11525 SR 6111 V  
TP 11535 SR 4936 V  
TP 11540 SR 4936 V  
TP 11544 SR 3472 V  
TP 11548 SR 3472 V  
TP 11553 SR 3472 V  
TP 11558 SR 6111 V  
TP 11606 SR 7750 H  
TP 11619 SR 5632 V  
TP 11727 SR 28000 V  
TP 11747 SR 28000 H  
TP 11785 SR 28000 H  
TP 11823 SR 28000 H  
TP 11938 SR 25000 H  
TP 12015 SR 30000 H  
TP 12054 SR 27500 H  
TP 12130 SR 30000 H  
TP 12149 SR 28000 V  
TP 12169 SR 28000 H  
TP 12188 SR 25000 V  
TP 12226 SR 28000 V  
TP 12245 SR 28000 H  
TP 12265 SR 25000 V  
TP 12303 SR 28000 V  
TP 12322 SR 27800 H  
TP 12341 SR 28000 V  
TP 12380 SR 27500 V  
TP 12399 SR 28000 H  
TP 12418 SR 28000 V  
TP 12456 SR 28000 V  
TP 12476 SR 28000 H  
TP 12513 SR 5632 V  
TP 12527 SR 27500 H  
TP 12531 SR 23340 V  
TP 12563 SR 27500 H  
TP 12563 SR 27500 V

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## All Satellites

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TP 12607 SR 27500 H  
TP 12607 SR 27500 V  
TP 12643 SR 27500 H  
TP 12643 SR 27500 V  
TP 12687 SR 27500 H  
TP 12687 SR 27500 V  
TP 12718 SR 18400 V  
TP 12723 SR 27500 H  
TP 12735 SR 8800 V

### Astra 1C (2.0E)

TP 11307 SR 4937 V  
TP 11313 SR 4937 V  
TP 11319 SR 4937 V  
TP 11325 SR 4937 V

### Eutelsat W2M (3.1E)

TP 11231 SR 27500 V  
TP 11294 SR 27500 V  
TP 11356 SR 27500 V  
TP 11419 SR 27500 V  
TP 11473 SR 27500 V  
TP 11677 SR 27500 V  
TP 12625 SR 27500 H  
TP 12625 SR 27500 V  
TP 12708 SR 27500 H  
TP 12708 SR 27500 V

### Eurobird 4A (4.0E)

TP 10962 SR 6111 H  
TP 11588 SR 15600 V  
TP 11605 SR 2894 V

### Sirius 4 (4.8E)

TP 11727 SR 27500 H  
TP 11747 SR 27500 V  
TP 11766 SR 27500 H  
TP 11785 SR 27500 V  
TP 11804 SR 27500 H  
TP 11823 SR 27500 V  
TP 11843 SR 27500 H  
TP 11862 SR 27500 V  
TP 11881 SR 27500 H  
TP 11900 SR 27500 V  
TP 11919 SR 27500 H  
TP 11938 SR 27500 V  
TP 11958 SR 27500 H  
TP 11977 SR 27500 V  
TP 11996 SR 27500 H  
TP 12015 SR 27500 V  
TP 12034 SR 27500 H  
TP 12054 SR 27500 V  
TP 12073 SR 27500 H  
TP 12092 SR 27500 V  
TP 12111 SR 27500 H  
TP 12149 SR 27500 H  
TP 12169 SR 27500 V  
TP 12188 SR 27500 H  
TP 12207 SR 27500 V  
TP 12226 SR 25540 H  
TP 12245 SR 27500 V  
TP 12265 SR 27500 H  
TP 12284 SR 27500 V

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## All Satellites

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TP 12303 SR 25546 H  
TP 12341 SR 27500 H  
TP 12360 SR 27500 V  
TP 12380 SR 27500 H  
TP 12399 SR 27500 V  
TP 12418 SR 27500 H  
TP 12437 SR 27500 V  
TP 12456 SR 27500 H  
TP 12476 SR 27500 V  
TP 12533 SR 2206 V  
TP 12562 SR 27500 V  
TP 12580 SR 3829 V  
TP 12594 SR 6111 V  
TP 12602 SR 6111 V  
TP 12605 SR 29950 V  
TP 12608 SR 27500 H  
TP 12612 SR 6111 V  
TP 12620 SR 6111 V  
TP 12637 SR 14468 H  
TP 12672 SR 3300 H  
TP 12674 SR 10000 V  
TP 12680 SR 9404 H  
TP 12682 SR 1483 V  
TP 12690 SR 3400 H  
TP 12690 SR 3000 V  
TP 12694 SR 3333 V  
TP 12697 SR 5787 H  
TP 12699 SR 3333 V  
TP 12702 SR 2170 H  
TP 12704 SR 3333 V  
TP 12707 SR 4430 V  
TP 12711 SR 2440 H  
TP 12715 SR 3330 H  
TP 12716 SR 4430 V  
TP 12731 SR 4430 V  
TP 12736 SR 6000 V  
TP 12737 SR 3472 H  
TP 12737 SR 4430 V

## Eutelsat W3A (7.OE)

TP 10762 SR 29500 H  
TP 10845 SR 27500 V  
TP 10928 SR 30000 H  
TP 10928 SR 27500 V  
TP 10962 SR 3255 V  
TP 10963 SR 9874 H  
TP 10964 SR 9874 V  
TP 10972 SR 4936 H  
TP 10975 SR 4434 V  
TP 10976 SR 3333 V  
TP 10981 SR 4434 H  
TP 10986 SR 6666 V  
TP 10987 SR 4434 H  
TP 10996 SR 6666 H  
TP 10996 SR 6666 V  
TP 10999 SR 3209 V  
TP 11005 SR 4434 H  
TP 11005 SR 6666 V  
TP 11014 SR 6666 H  
TP 11014 SR 6666 V  
TP 11023 SR 6666 H  
TP 11043 SR 6666 V  
TP 11052 SR 6666 H

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## All Satellites

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TP 11052 SR 6666 V  
TP 11060 SR 4936 V  
TP 11061 SR 6666 H  
TP 11070 SR 6666 H  
TP 11070 SR 6666 V  
TP 11078 SR 4434 V  
TP 11079 SR 6666 H  
TP 11084 SR 4434 V  
TP 11088 SR 6666 H  
TP 11090 SR 4434 V  
TP 11096 SR 4434 H  
TP 11097 SR 6666 V  
TP 11105 SR 3800 V  
TP 11106 SR 6666 H  
TP 11108 SR 4936 V  
TP 11127 SR 6666 H  
TP 11127 SR 6666 V  
TP 11133 SR 2678 V  
TP 11136 SR 6666 H  
TP 11137 SR 2678 V  
TP 11141 SR 2678 V  
TP 11145 SR 6666 H  
TP 11145 SR 1860 V  
TP 11150 SR 2678 V  
TP 11154 SR 6666 H  
TP 11156 SR 2678 V  
TP 11160 SR 2678 V  
TP 11163 SR 6666 H  
TP 11164 SR 2678 V  
TP 11168 SR 2678 V  
TP 11172 SR 6666 H  
TP 11177 SR 2678 V  
TP 11181 SR 6666 H  
TP 11186 SR 2678 V  
TP 11190 SR 6666 H  
TP 11190 SR 2678 V  
TP 11192 SR 3210 V  
TP 11262 SR 27500 H  
TP 11283 SR 27500 V  
TP 11324 SR 27500 V  
TP 11345 SR 27500 H  
TP 11351 SR 8571 V  
TP 11380 SR 5632 V  
TP 11396 SR 9874 V  
TP 11409 SR 9874 V  
TP 11421 SR 6666 V  
TP 11452 SR 25066 V  
TP 11471 SR 30000 H  
TP 11492 SR 30000 V  
TP 11513 SR 27500 H  
TP 11534 SR 30000 V  
TP 11554 SR 27500 H  
TP 11575 SR 30000 V  
TP 11596 SR 30000 H  
TP 11617 SR 30000 V  
TP 11637 SR 30000 H  
TP 11678 SR 30000 H  
TP 12520 SR 27500 V  
TP 12521 SR 6666 V  
TP 12551 SR 5632 H  
TP 12566 SR 3333 H  
TP 12615 SR 3214 V  
TP 12624 SR 3214 V

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## All Satellites

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TP 12645 SR 30000 V  
TP 12659 SR 4224 H  
TP 12681 SR 4224 H  
TP 12728 SR 30000 V

## Eurobird 9A (9.OE)

TP 11727 SR 27500 V  
TP 11747 SR 27500 H  
TP 11785 SR 27500 H  
TP 11804 SR 27500 V  
TP 11823 SR 27500 H  
TP 11843 SR 27500 V  
TP 11861 SR 27500 H  
TP 11881 SR 27500 V  
TP 11900 SR 27500 H  
TP 11919 SR 27500 V  
TP 11938 SR 27500 H  
TP 11958 SR 27500 V  
TP 11977 SR 27500 H  
TP 11996 SR 27500 V  
TP 12015 SR 27500 H  
TP 12034 SR 27500 V  
TP 12054 SR 27500 H  
TP 12074 SR 27500 V  
TP 12092 SR 27500 H  
TP 12130 SR 27500 H  
TP 12207 SR 27500 H  
TP 12245 SR 27500 H  
TP 12284 SR 27500 H  
TP 12303 SR 26400 V  
TP 12322 SR 27500 H  
TP 12360 SR 27500 H  
TP 12380 SR 26400 V  
TP 12399 SR 27500 H  
TP 12437 SR 27500 H

## Eutelsat W2A (10.OE)

TP 3843 SR 20204 V  
TP 3861 SR 6666 V  
TP 3870 SR 6666 V  
TP 4038 SR 3200 H  
TP 10710 SR 6111 V  
TP 10719 SR 6111 V  
TP 10747 SR 6111 V  
TP 10792 SR 6111 V  
TP 10960 SR 6666 H  
TP 10960 SR 4167 V  
TP 10965 SR 4167 V  
TP 10969 SR 6666 H  
TP 10970 SR 4167 V  
TP 10976 SR 4167 V  
TP 10978 SR 6666 H  
TP 10985 SR 4167 V  
TP 10987 SR 6666 H  
TP 10990 SR 3254 V  
TP 10996 SR 6666 H  
TP 10996 SR 6111 V  
TP 11005 SR 6666 H  
TP 11005 SR 3255 V  
TP 11011 SR 3125 V  
TP 11014 SR 6666 H  
TP 11015 SR 3125 V  
TP 11021 SR 2894 V

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## All Satellites

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TP 11023 SR 6666 H  
TP 11041 SR 3125 V  
TP 11045 SR 3125 V  
TP 11047 SR 4434 H  
TP 11050 SR 3125 V  
TP 11054 SR 3125 V  
TP 11061 SR 6666 H  
TP 11061 SR 4875 V  
TP 11069 SR 3125 V  
TP 11070 SR 6666 H  
TP 11079 SR 6666 H  
TP 11080 SR 7500 V  
TP 11088 SR 6666 H  
TP 11088 SR 5632 V  
TP 11097 SR 6666 H  
TP 11098 SR 5632 V  
TP 11106 SR 6111 H  
TP 11106 SR 5632 V  
TP 11112 SR 2200 H  
TP 11120 SR 2987 H  
TP 11127 SR 6111 V  
TP 11134 SR 5064 H  
TP 11135 SR 4167 V  
TP 11140 SR 2894 H  
TP 11144 SR 2442 H  
TP 11144 SR 6666 V  
TP 11148 SR 2893 H  
TP 11152 SR 2269 H  
TP 11154 SR 5632 V  
TP 11156 SR 3978 H  
TP 11162 SR 6666 V  
TP 11163 SR 2308 H  
TP 11166 SR 3616 H  
TP 11172 SR 2532 H  
TP 11172 SR 6111 V  
TP 11175 SR 2531 H  
TP 11179 SR 2532 H  
TP 11180 SR 6111 V  
TP 11182 SR 1707 H  
TP 11184 SR 1698 H  
TP 11188 SR 3195 H  
TP 11192 SR 3195 H  
TP 11207 SR 5632 H  
TP 11216 SR 6111 H  
TP 11221 SR 27500 V  
TP 11261 SR 27000 H  
TP 11278 SR 2893 V  
TP 11305 SR 30000 V  
TP 11457 SR 6111 H  
TP 11488 SR 2100 H  
TP 11541 SR 6111 V  
TP 11547 SR 3333 V  
TP 11559 SR 5632 V  
TP 11568 SR 3100 V  
TP 11585 SR 10000 V  
TP 11623 SR 2600 H  
TP 11624 SR 2500 V  
TP 11628 SR 3124 V  
TP 11630 SR 2450 H  
TP 11632 SR 3124 V  
TP 11636 SR 2142 V  
TP 11645 SR 6111 V  
TP 11654 SR 5632 V

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## All Satellites

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TP 11663 SR 3830 H  
TP 11664 SR 6666 V  
TP 11672 SR 7120 V  
TP 11683 SR 6111 V  
TP 11691 SR 6111 V  
TP 12507 SR 2000 V  
TP 12508 SR 2000 H  
TP 12513 SR 2880 H  
TP 12520 SR 3195 H  
TP 12525 SR 3195 H  
TP 12556 SR 2900 V  
TP 12565 SR 5632 H  
TP 12570 SR 6700 V  
TP 12576 SR 3300 V  
TP 12594 SR 3850 V  
TP 12596 SR 2930 H  
TP 12598 SR 3333 V  
TP 12602 SR 3333 V  
TP 12606 SR 2850 H  
TP 12611 SR 9259 H  
TP 12631 SR 8888 V  
TP 12678 SR 6200 H  
TP 12679 SR 2894 V  
TP 12684 SR 4003 V  
TP 12688 SR 6111 H  
TP 12692 SR 3146 V  
TP 12696 SR 6111 H  
TP 12696 SR 5632 V  
TP 12701 SR 2894 V  
TP 12704 SR 5632 H  
TP 12713 SR 5632 H  
TP 12720 SR 6111 V  
TP 12722 SR 5632 H  
TP 12729 SR 4167 V  
TP 12731 SR 5632 H  
TP 12734 SR 4167 V  
TP 12739 SR 4167 V  
TP 12740 SR 5632 H  
TP 12744 SR 4167 V

## Hot Bird 6/8/9 (13.0E)

TP 10719 SR 27500 V  
TP 10723 SR 29900 H  
TP 10775 SR 28000 H  
TP 10796 SR 27500 V  
TP 10830 SR 3333 H  
TP 10834 SR 27500 V  
TP 10853 SR 27500 H  
TP 10873 SR 27500 V  
TP 10892 SR 27500 H  
TP 10911 SR 27500 V  
TP 10930 SR 27500 H  
TP 10949 SR 27500 V  
TP 10971 SR 27500 H  
TP 10992 SR 27500 V  
TP 11013 SR 27500 H  
TP 11034 SR 27500 V  
TP 11054 SR 27500 H  
TP 11075 SR 27500 V  
TP 11096 SR 28000 H  
TP 11117 SR 27500 V  
TP 11137 SR 27500 H  
TP 11158 SR 27500 V

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## All Satellites

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TP 11179 SR 27500 H  
TP 11200 SR 27500 V  
TP 11219 SR 27500 H  
TP 11240 SR 27500 V  
TP 11258 SR 27500 H  
TP 11278 SR 27500 V  
TP 11296 SR 27500 H  
TP 11355 SR 27500 V  
TP 11393 SR 27500 V  
TP 11411 SR 27500 H  
TP 11449 SR 27500 H  
TP 11471 SR 27500 V  
TP 11488 SR 27500 H  
TP 11508 SR 27500 V  
TP 11526 SR 27500 H  
TP 11541 SR 22000 V  
TP 11566 SR 27500 H  
TP 11585 SR 27500 V  
TP 11604 SR 27500 H  
TP 11623 SR 27500 V  
TP 11642 SR 27500 H  
TP 11662 SR 27500 V  
TP 11681 SR 27500 H  
TP 11727 SR 27500 V  
TP 11747 SR 27500 H  
TP 11766 SR 27500 V  
TP 11785 SR 27500 H  
TP 11804 SR 27500 V  
TP 11823 SR 27500 H  
TP 11843 SR 27500 V  
TP 11862 SR 27500 H  
TP 11881 SR 27500 V  
TP 11900 SR 27500 H  
TP 11919 SR 27500 V  
TP 11938 SR 27500 H  
TP 11958 SR 27500 V  
TP 11977 SR 27500 H  
TP 11996 SR 27500 V  
TP 12015 SR 27500 H  
TP 12034 SR 27500 V  
TP 12054 SR 27500 H  
TP 12073 SR 27500 V  
TP 12092 SR 27500 H  
TP 12111 SR 27500 V  
TP 12130 SR 27500 H  
TP 12149 SR 27500 V  
TP 12169 SR 27500 H  
TP 12188 SR 27500 V  
TP 12207 SR 27500 H  
TP 12226 SR 16300 V  
TP 12241 SR 3700 V  
TP 12245 SR 27500 H  
TP 12265 SR 27500 V  
TP 12284 SR 27500 H  
TP 12303 SR 27500 V  
TP 12322 SR 27500 H  
TP 12341 SR 27500 V  
TP 12360 SR 27500 H  
TP 12380 SR 27500 V  
TP 12399 SR 27500 H  
TP 12418 SR 27500 V  
TP 12437 SR 27500 H  
TP 12466 SR 29900 V

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## All Satellites

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TP 12476 SR 27500 H  
TP 12520 SR 27500 V  
TP 12539 SR 27500 H  
TP 12558 SR 27500 V  
TP 12577 SR 27500 H  
TP 12597 SR 27500 V  
TP 12616 SR 27500 H  
TP 12635 SR 27500 V  
TP 12654 SR 27500 H  
TP 12673 SR 27500 V  
TP 12692 SR 27500 H  
TP 12713 SR 27500 V  
TP 12731 SR 27500 H

## Eurobird 16/Eutelsat W2 (16.0E)

TP 10719 SR 27500 V  
TP 10813 SR 27500 H  
TP 10892 SR 27500 H  
TP 10930 SR 27500 H  
TP 10957 SR 2821 H  
TP 10972 SR 27500 V  
TP 10975 SR 22500 H  
TP 10995 SR 5000 H  
TP 11001 SR 4444 H  
TP 11007 SR 5000 H  
TP 11013 SR 5000 H  
TP 11014 SR 27500 V  
TP 11019 SR 5000 H  
TP 11025 SR 5000 H  
TP 11046 SR 10555 H  
TP 11055 SR 27900 V  
TP 11056 SR 3327 H  
TP 11061 SR 5721 H  
TP 11068 SR 2442 H  
TP 11094 SR 27900 V  
TP 11095 SR 27300 H  
TP 11132 SR 14815 V  
TP 11138 SR 27700 H  
TP 11148 SR 8900 V  
TP 11158 SR 2894 V  
TP 11166 SR 11850 H  
TP 11178 SR 5632 H  
TP 11178 SR 27500 V  
TP 11186 SR 6111 H  
TP 11192 SR 2667 H  
TP 11283 SR 27500 H  
TP 11304 SR 30000 V  
TP 11324 SR 27500 H  
TP 11428 SR 30000 V  
TP 11449 SR 27500 H  
TP 11471 SR 29950 V  
TP 11492 SR 29950 H  
TP 11513 SR 29950 V  
TP 11534 SR 30000 H  
TP 11554 SR 30000 V  
TP 11575 SR 30000 H  
TP 11583 SR 6111 V  
TP 11592 SR 6111 V  
TP 11610 SR 6111 V  
TP 11617 SR 29950 H  
TP 11658 SR 30000 H  
TP 11682 SR 14468 V  
TP 12507 SR 2532 V

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## All Satellites

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TP 12509 SR 5632 H  
TP 12513 SR 2156 V  
TP 12517 SR 5632 H  
TP 12520 SR 2156 V  
TP 12524 SR 5632 H  
TP 12530 SR 2900 V  
TP 12532 SR 5632 H  
TP 12539 SR 5632 H  
TP 12547 SR 5632 H  
TP 12550 SR 3255 V  
TP 12555 SR 5632 H  
TP 12557 SR 2156 V  
TP 12562 SR 5632 H  
TP 12565 SR 2157 V  
TP 12568 SR 3703 H  
TP 12600 SR 6771 V  
TP 12611 SR 3000 V  
TP 12616 SR 13333 H  
TP 12630 SR 5632 H  
TP 12633 SR 4883 V  
TP 12636 SR 5632 H  
TP 12648 SR 5200 V  
TP 12650 SR 15000 H  
TP 12656 SR 4883 V  
TP 12676 SR 4321 H  
TP 12678 SR 6111 V  
TP 12683 SR 2894 H  
TP 12686 SR 6111 V  
TP 12687 SR 2818 H  
TP 12692 SR 5632 H  
TP 12695 SR 5632 V  
TP 12696 SR 2816 H  
TP 12699 SR 2816 H  
TP 12703 SR 2748 H  
TP 12704 SR 6111 V  
TP 12712 SR 5632 H  
TP 12719 SR 9000 H  
TP 12726 SR 30000 V  
TP 12727 SR 3333 H  
TP 12733 SR 5697 H

## Astra 1H/1KR/1L/1M (19.2E)

TP 10744 SR 22000 H  
TP 10773 SR 22000 H  
TP 10788 SR 22000 V  
TP 10818 SR 22000 V  
TP 10832 SR 22000 H  
TP 10847 SR 22000 V  
TP 10862 SR 22000 H  
TP 10876 SR 22000 V  
TP 10921 SR 22000 H  
TP 10979 SR 22000 V  
TP 11023 SR 22000 H  
TP 11038 SR 22000 V  
TP 11097 SR 22000 V  
TP 11156 SR 22000 V  
TP 11171 SR 22000 H  
TP 11303 SR 22000 H  
TP 11318 SR 22000 V  
TP 11362 SR 22000 H  
TP 11436 SR 22000 V  
TP 11479 SR 22000 V  
TP 11509 SR 22000 V

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## All Satellites

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TP 11538 SR 22000 V  
TP 11568 SR 22000 V  
TP 11597 SR 22000 V  
TP 11671 SR 22000 H  
TP 11686 SR 22000 V  
TP 11720 SR 27500 H  
TP 11739 SR 27500 V  
TP 11758 SR 27500 H  
TP 11778 SR 27500 V  
TP 11798 SR 27500 H  
TP 11817 SR 27500 V  
TP 11836 SR 27500 H  
TP 11856 SR 27500 V  
TP 11876 SR 27500 H  
TP 11895 SR 27500 V  
TP 11914 SR 27500 H  
TP 11934 SR 27500 V  
TP 11954 SR 27500 H  
TP 11973 SR 27500 V  
TP 11992 SR 27500 H  
TP 12012 SR 27500 V  
TP 12032 SR 27500 H  
TP 12051 SR 27500 V  
TP 12070 SR 27500 H  
TP 12090 SR 27500 V  
TP 12110 SR 27500 H  
TP 12129 SR 27500 V  
TP 12148 SR 27500 H  
TP 12168 SR 27500 V  
TP 12188 SR 27500 H  
TP 12207 SR 27500 V  
TP 12226 SR 27500 H  
TP 12246 SR 27500 V  
TP 12266 SR 27500 H  
TP 12285 SR 27500 V  
TP 12304 SR 27500 H  
TP 12324 SR 27500 V  
TP 12344 SR 27500 H  
TP 12363 SR 27500 V  
TP 12382 SR 27500 H  
TP 12402 SR 27500 V  
TP 12422 SR 27500 H  
TP 12441 SR 27500 V  
TP 12460 SR 27500 H  
TP 12480 SR 27500 V  
TP 12515 SR 22000 H  
TP 12522 SR 22000 V  
TP 12545 SR 22000 H  
TP 12552 SR 22000 V  
TP 12574 SR 22000 H  
TP 12581 SR 22000 V  
TP 12604 SR 22000 H  
TP 12610 SR 22000 V  
TP 12633 SR 22000 H  
TP 12640 SR 22000 V  
TP 12663 SR 22000 H  
TP 12670 SR 22000 V  
TP 12692 SR 22000 H  
TP 12699 SR 22000 V  
TP 12722 SR 22000 H  
TP 12728 SR 22000 V

## AfriStar 1 (21.0E)

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## All Satellites

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TP 1469 SR 1840 V  
TP 1471 SR 1840 H  
TP 1473 SR 1840 H  
TP 1481 SR 1840 H

## Eutelsat W6 (21.6E)

TP 10960 SR 2100 H  
TP 10972 SR 2170 V  
TP 10975 SR 2170 V  
TP 10978 SR 1447 V  
TP 10998 SR 8888 V  
TP 11004 SR 2592 H  
TP 11007 SR 5925 V  
TP 11015 SR 2667 H  
TP 11015 SR 2667 V  
TP 11027 SR 2200 H  
TP 11108 SR 2667 H  
TP 11108 SR 2667 V  
TP 11112 SR 2334 H  
TP 11333 SR 9999 H  
TP 11348 SR 13331 H  
TP 11366 SR 22500 V  
TP 11387 SR 30000 H  
TP 11466 SR 5425 H  
TP 11474 SR 5425 H  
TP 11476 SR 2950 V  
TP 11483 SR 5425 H  
TP 11485 SR 3333 V  
TP 11496 SR 2755 V  
TP 11499 SR 5632 H  
TP 11500 SR 2755 V  
TP 11504 SR 2755 V  
TP 11508 SR 2755 V  
TP 11524 SR 2170 V  
TP 11526 SR 5632 H  
TP 11527 SR 2857 V  
TP 11530 SR 2857 V  
TP 11540 SR 6111 H  
TP 11555 SR 5000 H  
TP 11559 SR 3214 V  
TP 11560 SR 2894 H  
TP 11563 SR 3214 V  
TP 11565 SR 2850 H  
TP 11567 SR 3200 H  
TP 11573 SR 3100 V  
TP 11574 SR 2700 H  
TP 11578 SR 3255 V  
TP 11585 SR 3255 V  
TP 11591 SR 3183 V  
TP 11617 SR 27500 V  
TP 11640 SR 23400 H  
TP 11643 SR 2893 V  
TP 11653 SR 15714 V  
TP 11665 SR 2500 H  
TP 11669 SR 2480 V  
TP 11681 SR 4000 H  
TP 11691 SR 2894 H  
TP 12517 SR 2894 V  
TP 12521 SR 2222 H  
TP 12521 SR 2894 V  
TP 12528 SR 5632 V  
TP 12537 SR 4300 V  
TP 12546 SR 5632 V

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**All Satellites**

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TP 12558 SR 2777 V  
TP 12563 SR 2333 V  
TP 12678 SR 5632 H  
TP 12712 SR 5632 H  
TP 12713 SR 3637 V  
TP 12721 SR 5632 H  
TP 12723 SR 3100 V  
TP 12730 SR 5632 H

**Astra 1E/1G/3A (23.5E)**

TP 10803 SR 22000 H  
TP 10862 SR 22000 H  
TP 10891 SR 22000 H  
TP 11455 SR 6666 H  
TP 11463 SR 6666 H  
TP 11473 SR 4200 H  
TP 11475 SR 27500 V  
TP 11515 SR 27500 H  
TP 11515 SR 28500 V  
TP 11555 SR 28500 H  
TP 11555 SR 28500 V  
TP 11595 SR 28500 H  
TP 11595 SR 28500 V  
TP 11635 SR 28500 H  
TP 11635 SR 28500 V  
TP 11662 SR 6666 H  
TP 11675 SR 3333 H  
TP 11675 SR 28500 V  
TP 11720 SR 27500 H  
TP 11739 SR 27500 V  
TP 11758 SR 28200 H  
TP 11778 SR 27500 V  
TP 11798 SR 27500 H  
TP 11836 SR 29900 H  
TP 11856 SR 27500 V  
TP 11876 SR 27500 H  
TP 11914 SR 27500 H  
TP 11954 SR 27500 H  
TP 11992 SR 27500 H  
TP 12032 SR 27500 H  
TP 12070 SR 27500 H  
TP 12110 SR 27500 H  
TP 12148 SR 27500 H  
TP 12168 SR 27500 V  
TP 12226 SR 27500 H  
TP 12304 SR 27500 H  
TP 12344 SR 28200 H  
TP 12382 SR 27500 H  
TP 12525 SR 27500 V  
TP 12565 SR 27500 H  
TP 12565 SR 27500 V  
TP 12605 SR 28500 H  
TP 12605 SR 28500 V  
TP 12630 SR 6000 V  
TP 12631 SR 6666 H  
TP 12636 SR 2277 V  
TP 12637 SR 2894 H  
TP 12650 SR 6111 H  
TP 12653 SR 3000 V  
TP 12659 SR 6111 H  
TP 12671 SR 6666 H  
TP 12671 SR 6111 V  
TP 12680 SR 6666 H

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## All Satellites

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TP 12680 SR 6666 V  
TP 12689 SR 6666 H  
TP 12690 SR 6111 V  
TP 12696 SR 3300 V  
TP 12701 SR 3300 V  
TP 12725 SR 27500 V

## Eurobird 2 (25.5E)

TP 10996 SR 2532 V  
TP 11001 SR 3571 V  
TP 11006 SR 2857 V  
TP 11009 SR 1110 V  
TP 11013 SR 27500 H  
TP 11054 SR 27500 H  
TP 11080 SR 2900 V  
TP 11096 SR 27500 H  
TP 11112 SR 2220 H  
TP 11113 SR 3255 V  
TP 11119 SR 2220 V  
TP 11129 SR 2960 V  
TP 11148 SR 5185 V  
TP 11150 SR 2200 H  
TP 11154 SR 2220 V  
TP 11170 SR 1780 V  
TP 11175 SR 3300 H  
TP 11573 SR 2200 V  
TP 11577 SR 2850 V  
TP 11590 SR 2100 V  
TP 11604 SR 27500 H  
TP 11614 SR 2100 V  
TP 11623 SR 2600 V  
TP 11628 SR 2300 V  
TP 11631 SR 2300 V  
TP 11634 SR 2300 V  
TP 11637 SR 2300 V  
TP 11640 SR 2300 V  
TP 11648 SR 3300 H  
TP 11652 SR 3300 H  
TP 11656 SR 3300 H  
TP 11662 SR 27500 V  
TP 11681 SR 27500 H

## Badr 4/6 (26.0E)

TP 11727 SR 27500 H  
TP 11747 SR 27500 V  
TP 11766 SR 27500 H  
TP 11785 SR 27500 V  
TP 11804 SR 27500 H  
TP 11823 SR 27500 V  
TP 11843 SR 27500 H  
TP 11862 SR 27500 V  
TP 11881 SR 27500 H  
TP 11900 SR 27500 V  
TP 11919 SR 27500 H  
TP 11938 SR 27500 V  
TP 11949 SR 3885 H  
TP 11958 SR 3885 H  
TP 11977 SR 27500 V  
TP 11996 SR 27500 H  
TP 12015 SR 27500 V  
TP 12034 SR 27500 H  
TP 12054 SR 27500 V  
TP 12073 SR 27500 H

## All Satellites

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TP 12092 SR 27500 V  
TP 12111 SR 27500 H  
TP 12130 SR 27500 V  
TP 12149 SR 27500 H  
TP 12169 SR 27500 V  
TP 12182 SR 16200 H  
TP 12195 SR 3000 H  
TP 12207 SR 27500 V  
TP 12226 SR 27500 H  
TP 12284 SR 27500 V  
TP 12303 SR 27500 H  
TP 12322 SR 27500 V  
TP 12341 SR 27500 H  
TP 12356 SR 17000 V  
TP 12407 SR 3000 H  
TP 12437 SR 27500 V  
TP 12456 SR 27500 H  
TP 12476 SR 27500 V  
TP 12508 SR 4500 V  
TP 12512 SR 4500 V  
TP 12518 SR 4500 V  
TP 12523 SR 27500 H  
TP 12525 SR 4500 V  
TP 12532 SR 4500 V  
TP 12540 SR 4500 V  
TP 12547 SR 2000 H  
TP 12550 SR 2950 H  
TP 12561 SR 2892 H  
TP 12584 SR 2950 H  
TP 12587 SR 2220 H  
TP 12647 SR 2950 H  
TP 12656 SR 2892 H  
TP 12688 SR 3340 H  
TP 12689 SR 3885 V  
TP 12696 SR 3885 V  
TP 12710 SR 6111 H  
TP 12711 SR 5632 V  
TP 12715 SR 2220 V  
TP 12718 SR 3885 H  
TP 12725 SR 3885 H  
TP 12726 SR 5000 V  
TP 12734 SR 3885 H  
TP 12736 SR 5632 V  
TP 12740 SR 2400 H

## Astra 2A/2B/2D/Eurobird 1 (28.2E)

TP 10714 SR 22000 H  
TP 10729 SR 22000 V  
TP 10744 SR 22000 H  
TP 10758 SR 22000 V  
TP 10773 SR 22000 H  
TP 10788 SR 22000 V  
TP 10803 SR 22000 H  
TP 10818 SR 22000 V  
TP 10832 SR 22000 H  
TP 10847 SR 22000 V  
TP 10862 SR 22000 H  
TP 10876 SR 22000 V  
TP 10891 SR 22000 H  
TP 10906 SR 22000 V  
TP 10921 SR 22000 H  
TP 10936 SR 22000 V  
TP 11222 SR 27500 H

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## All Satellites

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TP 11224 SR 27500 V  
TP 11260 SR 27500 V  
TP 11261 SR 27500 H  
TP 11307 SR 27500 H  
TP 11307 SR 27500 V  
TP 11343 SR 27500 V  
TP 11344 SR 27500 H  
TP 11389 SR 27500 H  
TP 11390 SR 27500 V  
TP 11426 SR 27500 V  
TP 11428 SR 27500 H  
TP 11469 SR 27500 H  
TP 11488 SR 27500 V  
TP 11508 SR 27500 H  
TP 11527 SR 27500 V  
TP 11546 SR 27500 H  
TP 11565 SR 27500 V  
TP 11585 SR 27500 H  
TP 11604 SR 27500 V  
TP 11623 SR 27500 H  
TP 11642 SR 27500 V  
TP 11662 SR 27500 H  
TP 11681 SR 27500 V  
TP 11720 SR 29500 H  
TP 11739 SR 27500 V  
TP 11758 SR 27500 H  
TP 11778 SR 27500 V  
TP 11798 SR 29500 H  
TP 11817 SR 27500 V  
TP 11836 SR 27500 H  
TP 11856 SR 29500 V  
TP 11876 SR 27500 H  
TP 11895 SR 27500 V  
TP 11914 SR 27500 H  
TP 11934 SR 27500 V  
TP 11954 SR 27500 H  
TP 11973 SR 27500 V  
TP 11992 SR 27500 H  
TP 12012 SR 29500 V  
TP 12032 SR 27500 H  
TP 12051 SR 27500 V  
TP 12070 SR 27500 H  
TP 12090 SR 27500 V  
TP 12110 SR 27500 H  
TP 12129 SR 27500 V  
TP 12148 SR 27500 H  
TP 12168 SR 29500 V  
TP 12188 SR 27500 H  
TP 12207 SR 27500 V  
TP 12226 SR 27500 H  
TP 12246 SR 29500 V  
TP 12266 SR 27500 H  
TP 12285 SR 27500 V  
TP 12304 SR 27500 H  
TP 12324 SR 29500 V  
TP 12344 SR 29500 H  
TP 12363 SR 29500 V  
TP 12382 SR 29500 H  
TP 12402 SR 27500 V  
TP 12422 SR 27500 H  
TP 12441 SR 27500 V  
TP 12460 SR 27500 H  
TP 12480 SR 27500 V

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## All Satellites

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TP 12523 SR 27500 H  
TP 12523 SR 27500 V  
TP 12545 SR 6111 H  
TP 12552 SR 19531 V  
TP 12555 SR 5632 H  
TP 12560 SR 27500 V  
TP 12572 SR 2854 V  
TP 12572 SR 6111 H  
TP 12599 SR 3250 V  
TP 12607 SR 27500 H  
TP 12607 SR 27500 V  
TP 12643 SR 27500 H  
TP 12643 SR 27500 V  
TP 12675 SR 2963 H  
TP 12676 SR 6666 V  
TP 12685 SR 6666 V  
TP 12694 SR 6666 V  
TP 12703 SR 6666 V  
TP 12712 SR 6666 V  
TP 12721 SR 6111 V  
TP 12729 SR 2725 V  
TP 12730 SR 6666 V

## Arabsat 2B (30.5E)

TP 3708 SR 2200 V  
TP 3711 SR 2200 V  
TP 3718 SR 2593 V  
TP 3823 SR 27500 H  
TP 3869 SR 3888 V  
TP 3874 SR 3888 V  
TP 3878 SR 3888 V  
TP 3884 SR 3888 V  
TP 3888 SR 3888 V  
TP 3894 SR 2600 V  
TP 3897 SR 2600 V  
TP 3901 SR 3888 V  
TP 3913 SR 8150 V  
TP 4010 SR 2600 H  
TP 4043 SR 2600 V  
TP 4049 SR 2600 V  
TP 4055 SR 2600 V  
TP 4091 SR 6111 V  
TP 4097 SR 6111 V  
TP 4115 SR 3125 H  
TP 4125 SR 27500 V  
TP 4140 SR 30000 H  
TP 4196 SR 3125 H  
TP 12508 SR 2000 H  
TP 12511 SR 2000 H  
TP 12515 SR 2300 H  
TP 12523 SR 2500 H  
TP 12526 SR 2150 H  
TP 12529 SR 2150 H  
TP 12533 SR 3000 H  
TP 12538 SR 2600 H  
TP 12564 SR 4444 V  
TP 12571 SR 3300 H  
TP 12572 SR 4444 V  
TP 12575 SR 3300 H  
TP 12583 SR 4444 V  
TP 12588 SR 4444 V  
TP 12588 SR 3000 H  
TP 12592 SR 2400 H

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## All Satellites

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TP 12594 SR 4444 V  
TP 12595 SR 2800 H  
TP 12600 SR 2500 H  
TP 12603 SR 2500 V  
TP 12606 SR 2000 V  
TP 12609 SR 2590 V  
TP 12611 SR 2300 H  
TP 12612 SR 2600 V  
TP 12614 SR 2200 H  
TP 12618 SR 2700 V  
TP 12618 SR 2100 H  
TP 12621 SR 2200 H  
TP 12623 SR 2600 V  
TP 12626 SR 2590 V  
TP 12630 SR 3000 V  
TP 12634 SR 2960 V  
TP 12636 SR 3330 H  
TP 12642 SR 3000 H  
TP 12647 SR 1446 H  
TP 12650 SR 2220 H  
TP 12655 SR 3000 H  
TP 12659 SR 2960 H  
TP 12661 SR 2600 V  
TP 12686 SR 2892 V  
TP 12686 SR 2800 H  
TP 12690 SR 3000 H  
TP 12693 SR 2892 V  
TP 12699 SR 3300 V  
TP 12703 SR 3000 V  
TP 12709 SR 2990 V  
TP 12712 SR 2960 V  
TP 12720 SR 3885 H  
TP 12722 SR 3000 V  
TP 12726 SR 3885 H  
TP 12732 SR 2960 H  
TP 12733 SR 2700 V  
TP 12744 SR 2600 V

## Türksat 1C (31.0E)

TP 10995 SR 2170 V  
TP 10998 SR 2221 V  
TP 11004 SR 2277 V  
TP 11008 SR 2150 V  
TP 11013 SR 4800 V  
TP 11013 SR 2222 H  
TP 11020 SR 2285 H  
TP 11023 SR 2222 V  
TP 11026 SR 2180 V  
TP 11027 SR 2222 H  
TP 11033 SR 2960 H  
TP 11065 SR 2500 H  
TP 11065 SR 2200 V  
TP 11072 SR 2200 H  
TP 11456 SR 2222 V  
TP 11499 SR 2300 V  
TP 11503 SR 2200 V  
TP 11506 SR 2300 V  
TP 11510 SR 2300 V  
TP 11514 SR 2200 V  
TP 11518 SR 2300 V  
TP 11523 SR 2300 V  
TP 11589 SR 2200 V  
TP 11593 SR 2222 V

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## All Satellites

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TP 11601 SR 2222 V  
TP 11609 SR 2222 V  
TP 11613 SR 2200 V  
TP 11643 SR 2222 V  
TP 11647 SR 2170 V

### Astra 2C (31.5E)

TP 11739 SR 27500 V  
TP 11798 SR 27500 H  
TP 11836 SR 27500 H  
TP 12090 SR 27500 V  
TP 12148 SR 27500 H  
TP 12168 SR 27500 V

### Eurobird 3/Intelsat 802 (33.0E)

TP 3891 SR 6201 H  
TP 10960 SR 2893 V  
TP 10965 SR 2893 V  
TP 10970 SR 4285 V  
TP 10981 SR 6111 V  
TP 10990 SR 5632 V  
TP 10999 SR 6111 V  
TP 11008 SR 6666 V  
TP 11017 SR 6111 V  
TP 11026 SR 6666 V  
TP 11035 SR 6111 V  
TP 11043 SR 6666 V  
TP 11053 SR 6666 V  
TP 11062 SR 6666 V  
TP 11065 SR 5211 H  
TP 11084 SR 1420 H  
TP 11087 SR 1475 H  
TP 11093 SR 1475 H  
TP 11105 SR 2441 H  
TP 11111 SR 5000 H  
TP 11125 SR 6666 H  
TP 11127 SR 2893 V  
TP 11134 SR 6111 H  
TP 11139 SR 4883 V  
TP 11142 SR 6666 H  
TP 11146 SR 6111 V  
TP 11154 SR 2600 H  
TP 11157 SR 3333 V  
TP 11160 SR 6111 H  
TP 11161 SR 3333 V  
TP 11169 SR 6666 V  
TP 11169 SR 6666 H  
TP 11178 SR 6666 H  
TP 11182 SR 2893 V  
TP 11187 SR 6111 H  
TP 11472 SR 27500 H  
TP 11500 SR 6666 V  
TP 11511 SR 3333 V  
TP 11513 SR 30000 H  
TP 11518 SR 5632 V  
TP 11527 SR 5632 V  
TP 11541 SR 5632 H  
TP 11550 SR 5632 H  
TP 11589 SR 8681 H  
TP 11596 SR 27500 H  
TP 11596 SR 27500 V  
TP 11619 SR 2440 H  
TP 11624 SR 6666 V

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## All Satellites

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TP 11633 SR 6111 V  
TP 11637 SR 27500 H  
TP 11650 SR 10098 V  
TP 11683 SR 18556 H  
TP 11687 SR 3250 H  
TP 12522 SR 27500 V

## Eutelsat Sesat/W4 (36.OE)

TP 10958 SR 6111 H  
TP 10966 SR 6111 H  
TP 10982 SR 3500 V  
TP 11043 SR 6111 H  
TP 11053 SR 6666 H  
TP 11053 SR 2893 V  
TP 11062 SR 6666 H  
TP 11071 SR 6666 H  
TP 11079 SR 3550 V  
TP 11080 SR 6666 H  
TP 11088 SR 5700 V  
TP 11088 SR 6666 H  
TP 11097 SR 6666 H  
TP 11106 SR 6666 H  
TP 11109 SR 3418 V  
TP 11142 SR 30000 H  
TP 11457 SR 2300 V  
TP 11476 SR 29000 H  
TP 11486 SR 2100 V  
TP 11505 SR 2100 V  
TP 11507 SR 30000 H  
TP 11516 SR 2500 V  
TP 11559 SR 29000 H  
TP 11590 SR 30000 H  
TP 11626 SR 5632 V  
TP 11633 SR 5787 V  
TP 11642 SR 2530 H  
TP 11642 SR 2894 V  
TP 11645 SR 2170 V  
TP 11647 SR 5000 H  
TP 11648 SR 3111 V  
TP 11652 SR 3111 V  
TP 11664 SR 18400 H  
TP 11664 SR 6666 V  
TP 11687 SR 7180 H  
TP 11727 SR 27500 H  
TP 11747 SR 27500 H  
TP 11900 SR 27500 H  
TP 12073 SR 27500 H  
TP 12111 SR 27500 H  
TP 12130 SR 27500 H  
TP 12169 SR 27500 H  
TP 12175 SR 4340 H  
TP 12190 SR 20000 H  
TP 12207 SR 27500 V  
TP 12207 SR 27500 H  
TP 12226 SR 27500 H  
TP 12245 SR 27500 V  
TP 12265 SR 27500 H  
TP 12284 SR 27500 V  
TP 12284 SR 26480 H  
TP 12303 SR 27500 H  
TP 12322 SR 27500 V  
TP 12322 SR 26480 H  
TP 12341 SR 27500 H

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## All Satellites

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TP 12360 SR 27500 V  
TP 12360 SR 26480 H  
TP 12380 SR 27500 H  
TP 12399 SR 27500 V  
TP 12399 SR 26480 H  
TP 12418 SR 27500 H  
TP 12437 SR 27500 V  
TP 12437 SR 23438 H  
TP 12456 SR 27500 H  
TP 12476 SR 27500 V  
TP 12476 SR 26040 H  
TP 12508 SR 2170 V  
TP 12511 SR 4340 H  
TP 12516 SR 2238 H  
TP 12516 SR 10370 V  
TP 12520 SR 4340 H  
TP 12527 SR 2960 H  
TP 12532 SR 4340 H  
TP 12537 SR 2100 H  
TP 12543 SR 3214 V  
TP 12545 SR 2734 H  
TP 12547 SR 1747 V  
TP 12550 SR 2100 H  
TP 12555 SR 5697 V  
TP 12560 SR 2380 H  
TP 12568 SR 2500 H  
TP 12571 SR 2894 H  
TP 12575 SR 2894 H  
TP 12591 SR 2170 H  
TP 12600 SR 1824 V  
TP 12620 SR 2894 V  
TP 12623 SR 6666 H  
TP 12624 SR 2894 V  
TP 12630 SR 2170 H  
TP 12635 SR 1331 V  
TP 12647 SR 5632 V

## Paksat 1 (38.0E)

TP 3730 SR 2894 V  
TP 3735 SR 3333 V  
TP 3753 SR 6500 V  
TP 3784 SR 2850 H  
TP 3788 SR 2850 H  
TP 3792 SR 2850 H  
TP 3796 SR 3255 H  
TP 3811 SR 2175 V  
TP 3814 SR 4666 H  
TP 3819 SR 2222 V  
TP 3830 SR 12000 V  
TP 3864 SR 3800 H  
TP 3869 SR 2170 H  
TP 3874 SR 2170 H  
TP 3881 SR 3000 H  
TP 3886 SR 6200 H  
TP 3893 SR 1770 H  
TP 3894 SR 2850 V  
TP 3896 SR 2500 H  
TP 3898 SR 2300 V  
TP 3907 SR 3255 V  
TP 3911 SR 3255 V  
TP 3916 SR 3333 V  
TP 3945 SR 4700 H  
TP 3951 SR 3240 H

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## All Satellites

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TP 3957 SR 3255 H  
TP 3968 SR 11481 H  
TP 3975 SR 1400 H  
TP 3977 SR 1750 H  
TP 4031 SR 3248 H  
TP 4036 SR 2894 H  
TP 4056 SR 3255 H  
TP 4104 SR 3000 H  
TP 4110 SR 3255 H  
TP 4115 SR 3333 H  
TP 4120 SR 3358 H  
TP 4145 SR 6000 V  
TP 4156 SR 2850 V

## Hellas Sat 2 (39.OE)

TP 10956 SR 4123 V  
TP 10964 SR 3300 V  
TP 10969 SR 2893 V  
TP 10973 SR 3125 V  
TP 10977 SR 3125 V  
TP 10984 SR 5926 V  
TP 11012 SR 30000 V  
TP 11037 SR 3300 V  
TP 11050 SR 3333 V  
TP 11078 SR 4070 V  
TP 11096 SR 3333 V  
TP 11097 SR 6111 H  
TP 11107 SR 6111 V  
TP 11119 SR 1500 V  
TP 11123 SR 3000 V  
TP 11126 SR 1450 V  
TP 11131 SR 3300 V  
TP 11142 SR 2740 V  
TP 11146 SR 3333 V  
TP 11149 SR 1480 V  
TP 11188 SR 4070 V  
TP 11455 SR 3224 H  
TP 11460 SR 2500 H  
TP 11464 SR 3224 H  
TP 11469 SR 3224 H  
TP 11473 SR 3224 H  
TP 11478 SR 3224 H  
TP 11482 SR 3224 H  
TP 11487 SR 3224 H  
TP 11512 SR 30000 H  
TP 11551 SR 2905 H  
TP 11561 SR 2905 H  
TP 11565 SR 2250 H  
TP 11603 SR 2893 H  
TP 11624 SR 3255 V  
TP 11630 SR 20500 H  
TP 11649 SR 4433 H  
TP 11660 SR 3779 H  
TP 11664 SR 6300 H  
TP 11678 SR 2500 H  
TP 11686 SR 2170 H  
TP 12524 SR 30000 V  
TP 12524 SR 30000 H  
TP 12565 SR 30000 V  
TP 12565 SR 30000 H  
TP 12598 SR 14050 V  
TP 12606 SR 30000 H  
TP 12615 SR 15000 V

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## All Satellites

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TP 12647 SR 30000 V  
TP 12647 SR 30000 H  
TP 12688 SR 30000 V  
TP 12688 SR 30000 H  
TP 12727 SR 3300 H  
TP 12729 SR 30000 V  
TP 12732 SR 4000 H  
TP 12736 SR 2000 H  
TP 12741 SR 3300 H  
TP 12746 SR 3300 H

## Amos 1/Express AM1 (40.0E)

TP 3675 SR 33483 V  
TP 3737 SR 3230 V  
TP 3744 SR 3603 V  
TP 3771 SR 3330 V  
TP 3865 SR 4000 V  
TP 3873 SR 4340 V  
TP 3879 SR 3255 V  
TP 3933 SR 3300 V  
TP 4057 SR 3230 V  
TP 4062 SR 2772 V  
TP 4078 SR 2753 V  
TP 4107 SR 3215 V  
TP 4112 SR 4285 V  
TP 4118 SR 3300 V  
TP 4125 SR 3215 V  
TP 4128 SR 3230 V  
TP 4131 SR 3219 V  
TP 4135 SR 3240 V  
TP 4140 SR 3230 V  
TP 4143 SR 2003 V  
TP 10967 SR 20000 V  
TP 10995 SR 20000 V  
TP 11022 SR 3300 V  
TP 11037 SR 4000 V  
TP 11060 SR 6000 V  
TP 11097 SR 4800 H  
TP 11103 SR 2893 H  
TP 11115 SR 3100 V  
TP 11120 SR 3100 V  
TP 11127 SR 4000 V  
TP 11131 SR 3100 V  
TP 11159 SR 3332 V  
TP 11164 SR 2400 H  
TP 11175 SR 6111 V  
TP 11186 SR 4000 V  
TP 11193 SR 4444 V  
TP 11456 SR 2182 H  
TP 11457 SR 5632 V  
TP 11476 SR 5632 V  
TP 11485 SR 6111 V  
TP 11496 SR 5632 V  
TP 11505 SR 5632 V  
TP 11543 SR 6600 V  
TP 11549 SR 2480 V  
TP 11583 SR 6666 H  
TP 11600 SR 4340 V  
TP 11615 SR 2950 V  
TP 11623 SR 3255 V  
TP 11629 SR 6111 V  
TP 11653 SR 3110 H  
TP 11675 SR 11936 H

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## All Satellites

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### Türksat 2A/3A (42.0E)

TP 10954 SR 2960 H  
TP 10958 SR 2960 H  
TP 10963 SR 3333 H  
TP 10970 SR 2960 H  
TP 10970 SR 30000 V  
TP 10982 SR 9600 H  
TP 11012 SR 30000 V  
TP 11025 SR 4340 H  
TP 11027 SR 2965 H  
TP 11039 SR 3600 V  
TP 11049 SR 2400 V  
TP 11054 SR 2200 V  
TP 11054 SR 30000 H  
TP 11064 SR 13000 V  
TP 11096 SR 30000 H  
TP 11096 SR 30000 V  
TP 11142 SR 2221 H  
TP 11146 SR 3330 H  
TP 11152 SR 2222 H  
TP 11156 SR 2222 V  
TP 11156 SR 2960 H  
TP 11160 SR 2222 H  
TP 11163 SR 4444 V  
TP 11165 SR 2200 H  
TP 11170 SR 3600 V  
TP 11172 SR 4444 H  
TP 11174 SR 2200 V  
TP 11177 SR 3600 H  
TP 11178 SR 3600 V  
TP 11181 SR 2222 H  
TP 11183 SR 2222 V  
TP 11187 SR 2080 H  
TP 11194 SR 7200 H  
TP 11196 SR 2222 V  
TP 11458 SR 3500 V  
TP 11464 SR 3500 V  
TP 11470 SR 3500 V  
TP 11475 SR 3500 V  
TP 11480 SR 4500 V  
TP 11487 SR 4500 V  
TP 11493 SR 2400 V  
TP 11496 SR 2200 V  
TP 11500 SR 2280 V  
TP 11519 SR 2960 V  
TP 11524 SR 4557 V  
TP 11540 SR 3600 H  
TP 11545 SR 4425 H  
TP 11554 SR 2916 H  
TP 11562 SR 3333 H  
TP 11567 SR 3333 H  
TP 11572 SR 3333 H  
TP 11577 SR 2590 H  
TP 11585 SR 2960 H  
TP 11607 SR 3750 H  
TP 11624 SR 2960 H  
TP 11628 SR 6666 H  
TP 11651 SR 2222 H  
TP 11655 SR 3100 H  
TP 11659 SR 2222 H  
TP 11686 SR 2950 V  
TP 11689 SR 2960 H

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## All Satellites

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TP 11712 SR 2963 V  
TP 11717 SR 2590 V  
TP 11729 SR 15555 V  
TP 11742 SR 2965 V  
TP 11746 SR 27500 H  
TP 11771 SR 2963 H  
TP 11777 SR 4800 H  
TP 11790 SR 16000 H  
TP 11804 SR 24444 V  
TP 11830 SR 7200 V  
TP 11839 SR 4444 V  
TP 11845 SR 4444 V  
TP 11858 SR 3150 V  
TP 11862 SR 27500 H  
TP 11870 SR 8888 V  
TP 11879 SR 2815 V  
TP 11885 SR 2960 H  
TP 11889 SR 2883 H  
TP 11906 SR 4800 H  
TP 11912 SR 3333 H  
TP 11919 SR 24444 V  
TP 11932 SR 17500 H  
TP 11948 SR 2960 V  
TP 11949 SR 10000 H  
TP 11953 SR 2980 V  
TP 11957 SR 2960 V  
TP 11962 SR 3333 V  
TP 11964 SR 5925 H  
TP 11972 SR 7200 H  
TP 11981 SR 5200 H  
TP 11987 SR 2960 H  
TP 11996 SR 27500 V  
TP 12015 SR 27500 H  
TP 12130 SR 27500 V  
TP 12519 SR 6000 H  
TP 12525 SR 30000 V  
TP 12561 SR 30000 V  
TP 12588 SR 3250 V  
TP 12592 SR 8888 H  
TP 12595 SR 2500 V  
TP 12601 SR 4400 H  
TP 12605 SR 2962 V  
TP 12607 SR 2950 H  
TP 12609 SR 3700 V  
TP 12613 SR 4800 H  
TP 12615 SR 4800 V  
TP 12617 SR 2800 H  
TP 12620 SR 2400 V  
TP 12624 SR 4000 V  
TP 12624 SR 2650 H  
TP 12627 SR 2650 H  
TP 12628 SR 2180 V  
TP 12631 SR 2650 H  
TP 12632 SR 2222 V  
TP 12634 SR 2650 H  
TP 12637 SR 2650 H  
TP 12640 SR 2400 V  
TP 12643 SR 4800 H  
TP 12644 SR 2960 V  
TP 12648 SR 2222 V  
TP 12650 SR 4250 H  
TP 12652 SR 4444 V  
TP 12656 SR 4444 H

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## All Satellites

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TP 12668 SR 2170 V  
TP 12672 SR 2278 V  
TP 12679 SR 8888 V  
TP 12685 SR 30000 H  
TP 12686 SR 2222 V  
TP 12689 SR 2222 V  
TP 12694 SR 3333 V  
TP 12699 SR 2960 V  
TP 12729 SR 30000 V  
TP 12729 SR 30000 H

## Intelsat 12 (45.OE)

TP 11451 SR 3254 H  
TP 11454 SR 6666 V  
TP 11463 SR 6666 V  
TP 11468 SR 27689 V  
TP 11472 SR 6666 V  
TP 11481 SR 6666 V  
TP 11494 SR 4400 V  
TP 11500 SR 4340 V  
TP 11504 SR 3300 V  
TP 11510 SR 1570 V  
TP 11513 SR 6111 V  
TP 11523 SR 6111 V  
TP 11536 SR 6666 V  
TP 11545 SR 6666 V  
TP 11550 SR 28000 V  
TP 11554 SR 6666 V  
TP 11563 SR 2170 V  
TP 11566 SR 2170 V  
TP 11569 SR 1860 V  
TP 11591 SR 27689 V  
TP 11618 SR 5787 V  
TP 11627 SR 6666 V  
TP 11632 SR 27689 V  
TP 11645 SR 5500 V  
TP 11659 SR 5632 V  
TP 11665 SR 4500 V  
TP 11673 SR 27689 V  
TP 11678 SR 5632 V  
TP 11685 SR 5632 H  
TP 11687 SR 5632 V  
TP 12514 SR 5632 V  
TP 12523 SR 5632 V  
TP 12528 SR 29766 H  
TP 12532 SR 5632 V  
TP 12541 SR 5632 V  
TP 12560 SR 1240 H  
TP 12569 SR 5632 V  
TP 12580 SR 6600 H  
TP 12597 SR 3254 V  
TP 12655 SR 5632 V  
TP 12664 SR 5632 V  
TP 12675 SR 3300 V  
TP 12685 SR 5632 V  
TP 12704 SR 5632 V

## Eutelsat W48 (48.OE)

TP 11727 SR 27500 V  
TP 11766 SR 27500 V

## Yamal 202 (49.OE)

TP 3585 SR 3215 H

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## All Satellites

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TP 3590 SR 3235 H  
TP 3596 SR 1850 H  
TP 3706 SR 15550 H  
TP 3740 SR 38000 H  
TP 3776 SR 3374 V  
TP 3778 SR 1900 H  
TP 3781 SR 1900 H  
TP 3792 SR 1800 H  
TP 3826 SR 2960 H  
TP 3866 SR 3310 H  
TP 3940 SR 7500 H  
TP 3945 SR 1555 H  
TP 3948 SR 2220 H  
TP 3953 SR 4500 H  
TP 3960 SR 8570 H  
TP 3970 SR 4275 H  
TP 3976 SR 4285 H  
TP 3982 SR 4285 H  
TP 3987 SR 2150 H  
TP 4066 SR 29763 H

## Galaxy 26 (50.8E)

TP 12106 SR 7151 V

## Express AM22 (53.0E)

TP 10962 SR 12000 V  
TP 10974 SR 8150 H  
TP 10978 SR 6000 V  
TP 10995 SR 3255 H  
TP 11044 SR 44950 V  
TP 11096 SR 6164 V  
TP 11098 SR 3978 H  
TP 11124 SR 8776 V  
TP 11161 SR 5785 V  
TP 11478 SR 2170 H  
TP 11496 SR 5000 H  
TP 11528 SR 2530 H  
TP 11534 SR 2893 V  
TP 11543 SR 2893 V  
TP 11548 SR 2893 V  
TP 11612 SR 3125 V  
TP 11616 SR 2894 V  
TP 11626 SR 3125 V  
TP 11630 SR 2893 V  
TP 11647 SR 2893 H  
TP 11690 SR 3125 H  
TP 12631 SR 2532 V  
TP 12632 SR 2170 H  
TP 12635 SR 2893 V  
TP 12637 SR 2532 H  
TP 12639 SR 2894 V  
TP 12643 SR 2170 V  
TP 12644 SR 2170 H  
TP 12648 SR 2894 H  
TP 12652 SR 2532 H  
TP 12656 SR 3125 H  
TP 12661 SR 3125 H  
TP 12664 SR 27500 V  
TP 12716 SR 27500 V  
TP 12721 SR 1865 H  
TP 12727 SR 2592 H  
TP 12736 SR 1428 H  
TP 12740 SR 2172 H

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## All Satellites

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### Insat 3E (55.0E)

TP 4147 SR 2150 V

### Bonum 1 (56.0E)

TP 12226 SR 27500 H  
TP 12245 SR 27500 V  
TP 12303 SR 27500 H  
TP 12322 SR 27500 V  
TP 12380 SR 27500 H  
TP 12399 SR 27500 V  
TP 12456 SR 27500 H  
TP 12476 SR 27500 V

### Astra 1F/NSS 5/703 (57.0E)

TP 3661 SR 2625 V  
TP 3725 SR 25000 H  
TP 3765 SR 25000 H  
TP 3805 SR 25000 H  
TP 3808 SR 8000 V  
TP 3845 SR 25000 H  
TP 3910 SR 2893 H  
TP 3912 SR 2221 V  
TP 3931 SR 2893 H  
TP 4055 SR 26000 V  
TP 4061 SR 3500 H  
TP 4065 SR 3500 H  
TP 4070 SR 3500 H  
TP 4078 SR 2000 H  
TP 4081 SR 2000 H  
TP 12551 SR 9404 V

### Intelsat 904 (60.0E)

TP 3676 SR 3617 H  
TP 3718 SR 13333 H  
TP 3730 SR 2815 H  
TP 3964 SR 8979 V  
TP 4161 SR 7119 V  
TP 4169 SR 6111 V  
TP 4177 SR 6111 V  
TP 4185 SR 2895 V  
TP 4194 SR 6111 V  
TP 4194 SR 1594 H  
TP 10955 SR 3500 V  
TP 10962 SR 3657 V  
TP 10964 SR 3327 H  
TP 10972 SR 5926 V  
TP 10977 SR 3225 V  
TP 10987 SR 1240 V  
TP 11011 SR 2975 H  
TP 11045 SR 12000 V  
TP 11077 SR 3300 V  
TP 11096 SR 1530 V  
TP 11101 SR 4106 V  
TP 11110 SR 3632 V  
TP 11142 SR 2963 H  
TP 11149 SR 25000 V  
TP 11152 SR 2963 H  
TP 11460 SR 3730 V  
TP 11466 SR 1000 V  
TP 11478 SR 2600 V  
TP 11484 SR 2600 V  
TP 11490 SR 5788 V

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## All Satellites

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TP 11497 SR 4284 V  
TP 11502 SR 4284 V  
TP 11512 SR 2617 V  
TP 11526 SR 5300 V  
TP 11555 SR 29270 H  
TP 11595 SR 29270 V  
TP 11595 SR 29270 H  
TP 11635 SR 29700 V  
TP 11635 SR 29270 H  
TP 11675 SR 29700 V  
TP 11675 SR 29270 H

### Intelsat 902 (62.0E)

TP 3715 SR 6111 H  
TP 3750 SR 5632 H  
TP 3814 SR 4213 H  
TP 3830 SR 6620 H  
TP 3837 SR 2466 H  
TP 3839 SR 6620 H  
TP 3848 SR 6620 H  
TP 3857 SR 6620 H  
TP 3967 SR 9326 H  
TP 3992 SR 26000 H  
TP 4107 SR 12780 H  
TP 4162 SR 3662 H  
TP 10962 SR 5300 V  
TP 10973 SR 8150 V  
TP 10980 SR 5300 V  
TP 10988 SR 5300 V  
TP 10993 SR 3600 V  
TP 11000 SR 3300 V  
TP 11007 SR 3100 V  
TP 11012 SR 3100 V  
TP 11018 SR 3600 V  
TP 11022 SR 3000 V  
TP 11028 SR 3100 H  
TP 11058 SR 6111 V  
TP 11088 SR 3600 V  
TP 11093 SR 3600 V  
TP 11103 SR 10000 V  
TP 11525 SR 3030 V  
TP 11540 SR 3255 H  
TP 11545 SR 3255 H  
TP 11555 SR 27500 V  
TP 11557 SR 4200 H  
TP 11579 SR 3333 H  
TP 11587 SR 5632 V  
TP 11590 SR 3333 H  
TP 11594 SR 3333 H  
TP 11625 SR 1550 V

### Intelsat 906 (64.2E)

TP 3642 SR 13330 V  
TP 3654 SR 5632 V  
TP 3664 SR 2170 H  
TP 3715 SR 2800 H  
TP 3721 SR 4882 V  
TP 3760 SR 2790 H  
TP 3765 SR 2820 V  
TP 3884 SR 3271 H  
TP 3893 SR 4440 H  
TP 3900 SR 3800 H  
TP 3905 SR 27700 H

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## All Satellites

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TP 3906 SR 2844 H  
TP 3966 SR 10166 V  
TP 3998 SR 27500 V  
TP 4094 SR 3680 H  
TP 4185 SR 2532 V

### Intelsat 702 (66.0E)

TP 11488 SR 4123 V  
TP 11520 SR 1880 H  
TP 11534 SR 6667 H  
TP 11534 SR 6667 V  
TP 11664 SR 3700 H

### Intelsat 7/10 (68.5E)

TP 3503 SR 1808 H  
TP 3539 SR 3303 V  
TP 3558 SR 3255 V  
TP 3661 SR 14074 V  
TP 3716 SR 21600 H  
TP 3716 SR 20600 V  
TP 3739 SR 26590 H  
TP 3744 SR 16180 H  
TP 3744 SR 20600 V  
TP 3765 SR 2950 V  
TP 3768 SR 6500 H  
TP 3774 SR 3300 H  
TP 3774 SR 2944 V  
TP 3777 SR 2940 V  
TP 3782 SR 2965 V  
TP 3787 SR 3617 V  
TP 3796 SR 7300 V  
TP 3802 SR 10000 H  
TP 3808 SR 10340 V  
TP 3810 SR 3312 H  
TP 3836 SR 19850 H  
TP 3836 SR 20600 V  
TP 3863 SR 20600 V  
TP 3864 SR 19850 H  
TP 3895 SR 4444 H  
TP 3900 SR 12300 V  
TP 3900 SR 4444 H  
TP 3913 SR 6510 V  
TP 3924 SR 3003 V  
TP 3927 SR 26500 H  
TP 3932 SR 6111 V  
TP 3941 SR 6111 V  
TP 3974 SR 19500 H  
TP 3974 SR 19850 V  
TP 4003 SR 2965 H  
TP 4011 SR 2200 V  
TP 4034 SR 20500 H  
TP 4034 SR 19559 V  
TP 4054 SR 4400 V  
TP 4059 SR 3529 V  
TP 4064 SR 19850 H  
TP 4070 SR 3003 V  
TP 4075 SR 4000 V  
TP 4085 SR 3428 V  
TP 4087 SR 9375 H  
TP 4103 SR 5720 H  
TP 4116 SR 8145 V  
TP 4117 SR 3333 H  
TP 4126 SR 3255 H

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## All Satellites

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TP 4127 SR 3305 V  
TP 4134 SR 6111 V  
TP 4143 SR 3306 H  
TP 4143 SR 3000 V  
TP 4149 SR 3800 V  
TP 4150 SR 6600 H  
TP 4154 SR 3800 V  
TP 4158 SR 6511 H  
TP 4159 SR 3790 V  
TP 4164 SR 2500 V  
TP 4173 SR 3000 V  
TP 4185 SR 20000 H  
TP 4189 SR 12210 V  
TP 10970 SR 30000 H  
TP 10970 SR 30000 V  
TP 11010 SR 30000 H  
TP 11010 SR 30000 V  
TP 11050 SR 30000 V  
TP 11080 SR 14875 H  
TP 11090 SR 30000 V  
TP 11130 SR 30000 V  
TP 11170 SR 26652 V  
TP 11472 SR 10000 H  
TP 11502 SR 5632 V  
TP 11512 SR 5632 V  
TP 11530 SR 5632 V  
TP 11567 SR 2380 V  
TP 11584 SR 6620 H  
TP 11594 SR 27500 V  
TP 11625 SR 15000 V  
TP 11635 SR 2222 V  
TP 11664 SR 5168 H  
TP 11674 SR 26652 V  
TP 12522 SR 26657 H  
TP 12562 SR 26657 H  
TP 12575 SR 3378 V  
TP 12640 SR 30000 V  
TP 12644 SR 2170 H  
TP 12682 SR 26657 H  
TP 12722 SR 26657 H  
TP 12722 SR 26657 V

### Eutelsat W5 (70.5E)

TP 11177 SR 1682 H  
TP 11180 SR 1482 H  
TP 11210 SR 6509 H  
TP 11345 SR 5925 H  
TP 11603 SR 2700 V  
TP 11606 SR 4170 H  
TP 11637 SR 3570 H  
TP 11642 SR 3570 H  
TP 11662 SR 3300 H  
TP 11666 SR 3300 H  
TP 11670 SR 3570 H  
TP 12647 SR 4340 H  
TP 12654 SR 2700 H  
TP 12658 SR 3500 H

### Intelsat 4 (72.0E)

TP 3706 SR 2083 V  
TP 3709 SR 2083 V  
TP 3712 SR 2083 V  
TP 3729 SR 10500 V

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## All Satellites

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TP 3850 SR 45000 V  
TP 3864 SR 2930 H  
TP 11456 SR 6620 V  
TP 11515 SR 4220 V  
TP 11521 SR 4220 V  
TP 11526 SR 4220 V  
TP 12544 SR 1480 H  
TP 12591 SR 43200 V  
TP 12657 SR 5920 H  
TP 12666 SR 3330 H  
TP 12697 SR 21200 V

## Edusat/Insat 3C/4CR (74.0E)

TP 3740 SR 2500 V  
TP 3745 SR 2500 V  
TP 3752 SR 2500 V  
TP 3756 SR 2500 V  
TP 3776 SR 3800 V  
TP 3780 SR 6250 H  
TP 3781 SR 2000 V  
TP 3788 SR 3800 V  
TP 3796 SR 3800 V  
TP 3801 SR 3800 V  
TP 3868 SR 2250 H  
TP 3871 SR 2250 H  
TP 3874 SR 2250 H  
TP 3879 SR 2200 H  
TP 3884 SR 2250 H  
TP 3889 SR 2250 H  
TP 3895 SR 2000 H  
TP 3898 SR 1500 H  
TP 4165 SR 26000 H  
TP 4530 SR 2222 H  
TP 10953 SR 1700 H  
TP 10957 SR 1808 H  
TP 10966 SR 2142 H  
TP 10969 SR 2000 H  
TP 10978 SR 3000 H  
TP 10986 SR 2000 H  
TP 11106 SR 2890 H  
TP 11184 SR 1700 H  
TP 11470 SR 28800 H  
TP 11470 SR 28800 V  
TP 11501 SR 14400 V  
TP 11513 SR 3333 V  
TP 11513 SR 3000 H  
TP 11520 SR 1700 H  
TP 11523 SR 1800 V  
TP 11525 SR 1700 H  
TP 11550 SR 28800 H  
TP 11550 SR 28800 V  
TP 11592 SR 2000 V  
TP 11598 SR 1650 V  
TP 11604 SR 1800 V  
TP 11607 SR 2000 V  
TP 11630 SR 28800 H  
TP 11630 SR 28800 V  
TP 11658 SR 3000 V  
TP 11666 SR 3000 V  
TP 11674 SR 3000 V  
TP 11685 SR 1400 V

## ABS 1/1A (75.0E)

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## All Satellites

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TP 3449 SR 2500 V  
TP 3575 SR 3700 V  
TP 3651 SR 10000 V  
TP 3659 SR 27500 H  
TP 3679 SR 30000 V  
TP 12505 SR 2500 H  
TP 12518 SR 22000 V  
TP 12548 SR 22000 V  
TP 12579 SR 22000 V  
TP 12579 SR 22000 H  
TP 12601 SR 5170 H  
TP 12610 SR 22000 V  
TP 12612 SR 5000 H  
TP 12640 SR 22000 V  
TP 12670 SR 22000 V  
TP 12694 SR 10750 V  
TP 12704 SR 3900 V  
TP 12708 SR 3900 V  
TP 12732 SR 22000 V

## Telstar 10 (76.5E)

TP 3646 SR 5064 V  
TP 3655 SR 3214 H  
TP 3680 SR 27500 H  
TP 3704 SR 6716 V  
TP 3714 SR 4800 V  
TP 3720 SR 29268 H  
TP 3760 SR 28066 H  
TP 3780 SR 28066 V  
TP 3787 SR 4600 H  
TP 3793 SR 4340 H  
TP 3798 SR 2966 H  
TP 3832 SR 6111 V  
TP 3840 SR 27500 H  
TP 3880 SR 28125 H  
TP 3914 SR 3255 V  
TP 3920 SR 28340 H  
TP 3960 SR 29300 H  
TP 4003 SR 4080 H  
TP 4009 SR 4300 H  
TP 4016 SR 4340 H  
TP 4030 SR 6312 V  
TP 4034 SR 4300 H  
TP 4045 SR 3333 H  
TP 4049 SR 3600 H  
TP 4056 SR 3214 H  
TP 4073 SR 13020 H  
TP 4085 SR 2530 H  
TP 4105 SR 3125 H  
TP 4121 SR 3760 H  
TP 4137 SR 2892 H  
TP 4146 SR 3600 H  
TP 4173 SR 7400 H  
TP 12339 SR 3300 V  
TP 12405 SR 30000 V  
TP 12430 SR 10000 H  
TP 12435 SR 15000 V  
TP 12462 SR 22425 V  
TP 12491 SR 22425 V  
TP 12551 SR 4195 V  
TP 12557 SR 4195 V  
TP 12563 SR 4195 V

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## All Satellites

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### Thaicom 2/5 (78.5E)

TP 3413 SR 3333 V  
TP 3421 SR 6667 V  
TP 3431 SR 13333 H  
TP 3432 SR 6667 V  
TP 3438 SR 3333 V  
TP 3451 SR 7188 H  
TP 3454 SR 3333 V  
TP 3489 SR 3333 V  
TP 3502 SR 4444 V  
TP 3504 SR 3367 H  
TP 3505 SR 1852 V  
TP 3511 SR 2963 H  
TP 3515 SR 2917 V  
TP 3521 SR 2917 V  
TP 3545 SR 30000 V  
TP 3551 SR 13333 H  
TP 3562 SR 4444 H  
TP 3574 SR 7492 H  
TP 3585 SR 26667 V  
TP 3600 SR 26667 H  
TP 3608 SR 2500 V  
TP 3617 SR 12500 V  
TP 3627 SR 2500 V  
TP 3640 SR 28066 H  
TP 3665 SR 3704 H  
TP 3711 SR 13333 V  
TP 3730 SR 2340 V  
TP 3754 SR 5900 H  
TP 3760 SR 26667 V  
TP 3764 SR 5900 H  
TP 3771 SR 4702 H  
TP 3797 SR 2592 H  
TP 3803 SR 1445 H  
TP 3814 SR 6660 V  
TP 3840 SR 26667 V  
TP 3865 SR 2895 V  
TP 3866 SR 3125 H  
TP 3871 SR 3125 H  
TP 3873 SR 2895 V  
TP 3876 SR 3125 H  
TP 3888 SR 15625 H  
TP 3905 SR 6250 H  
TP 3908 SR 2295 V  
TP 3912 SR 4688 H  
TP 3912 SR 1852 V  
TP 3915 SR 2222 V  
TP 3918 SR 2734 H  
TP 3920 SR 2857 V  
TP 3922 SR 2732 H  
TP 3953 SR 4262 H  
TP 3960 SR 4262 H  
TP 3960 SR 30000 V  
TP 3967 SR 4551 H  
TP 3971 SR 4262 H  
TP 3975 SR 2734 H  
TP 3991 SR 13333 V  
TP 4003 SR 1085 H  
TP 4004 SR 6666 V  
TP 4011 SR 2500 V  
TP 4014 SR 1200 V  
TP 4016 SR 2305 H  
TP 4021 SR 1085 H

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## All Satellites

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TP 4057 SR 2276 H  
TP 4068 SR 6000 H  
TP 4106 SR 4688 H  
TP 4107 SR 6664 V  
TP 4110 SR 3127 H  
TP 4113 SR 2530 H  
TP 4116 SR 2530 H  
TP 4119 SR 2530 H  
TP 4122 SR 2530 H  
TP 4125 SR 2530 H  
TP 4128 SR 2530 H  
TP 4131 SR 2530 H  
TP 4135 SR 2530 H  
TP 4135 SR 4444 V  
TP 4145 SR 4815 H  
TP 4151 SR 4815 H  
TP 4153 SR 2222 V  
TP 4157 SR 4815 H  
TP 4157 SR 1852 V  
TP 4160 SR 2000 V  
TP 4164 SR 4815 H  
TP 4170 SR 9600 V  
TP 4171 SR 4815 H  
TP 12255 SR 3500 V  
TP 12272 SR 30000 H  
TP 12272 SR 30000 V  
TP 12313 SR 30000 H  
TP 12313 SR 30000 V  
TP 12355 SR 30000 H  
TP 12355 SR 30000 V  
TP 12438 SR 30000 H  
TP 12479 SR 30000 H  
TP 12521 SR 30000 H  
TP 12562 SR 25776 H  
TP 12604 SR 30000 H  
TP 12657 SR 30000 H  
TP 12720 SR 30000 H

### Express AM2/MD1 (80.0E)

TP 3625 SR 33483 V  
TP 3675 SR 33483 V  
TP 3875 SR 32000 V  
TP 11044 SR 44948 H  
TP 11101 SR 3227 V  
TP 11606 SR 44948 V

### AsiaSat 2/Insat 2E/3B/4A (83.0E)

TP 3521 SR 8640 V  
TP 3537 SR 10800 V  
TP 3550 SR 3255 V  
TP 3559 SR 3366 V  
TP 3581 SR 3255 V  
TP 3593 SR 8680 V  
TP 3612 SR 9629 V  
TP 3656 SR 13330 V  
TP 3678 SR 5926 V  
TP 3685 SR 1953 V  
TP 3689 SR 2893 V  
TP 3696 SR 6111 V  
TP 3725 SR 26665 H  
TP 3756 SR 13333 H  
TP 3760 SR 6500 V  
TP 3774 SR 13021 V

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## All Satellites

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TP 3777 SR 10900 H  
TP 3789 SR 3223 V  
TP 3794 SR 3500 V  
TP 3800 SR 3333 V  
TP 3805 SR 28500 H  
TP 3808 SR 3255 V  
TP 3815 SR 6000 V  
TP 3822 SR 2265 V  
TP 3828 SR 3200 H  
TP 3832 SR 2100 H  
TP 3836 SR 1800 H  
TP 3841 SR 6920 H  
TP 3845 SR 26043 V  
TP 3853 SR 3265 H  
TP 3857 SR 3462 H  
TP 3874 SR 3403 H  
TP 3880 SR 4600 H  
TP 3886 SR 4600 H  
TP 3892 SR 3300 H  
TP 3898 SR 6800 H  
TP 3909 SR 3600 H  
TP 3914 SR 3000 V  
TP 3914 SR 2200 H  
TP 3919 SR 3000 V  
TP 3923 SR 3000 V  
TP 3923 SR 13000 H  
TP 3934 SR 13021 V  
TP 3936 SR 10100 H  
TP 3949 SR 3225 H  
TP 3958 SR 9500 H  
TP 3961 SR 6656 V  
TP 3968 SR 2000 H  
TP 3974 SR 13333 V  
TP 3976 SR 3200 H  
TP 3990 SR 1250 V  
TP 3990 SR 2140 H  
TP 3993 SR 1500 V  
TP 3995 SR 1500 V  
TP 4004 SR 22220 H  
TP 4008 SR 19531 V  
TP 4020 SR 2140 H  
TP 4024 SR 2140 H  
TP 4031 SR 7440 V  
TP 4040 SR 7500 H  
TP 4042 SR 7420 V  
TP 4046 SR 3000 H  
TP 4050 SR 5084 V  
TP 4054 SR 13230 H  
TP 4070 SR 5000 V  
TP 4072 SR 6500 H  
TP 4080 SR 3280 V  
TP 4084 SR 2200 V  
TP 4087 SR 3300 H  
TP 4091 SR 9230 V  
TP 4091 SR 3000 H  
TP 4100 SR 4700 V  
TP 4100 SR 4750 H  
TP 4109 SR 1800 H  
TP 4115 SR 5555 H  
TP 4122 SR 1800 H  
TP 4130 SR 1800 H  
TP 4134 SR 10600 H  
TP 4151 SR 6500 H

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## All Satellites

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TP 4161 SR 6500 H  
TP 4170 SR 4650 H  
TP 4180 SR 3233 H  
TP 4572 SR 1990 H  
TP 4584 SR 2000 H  
TP 4597 SR 2222 H  
TP 4601 SR 2222 H  
TP 4608 SR 2222 H  
TP 4624 SR 3332 H  
TP 4677 SR 2000 H  
TP 10970 SR 28500 H  
TP 11010 SR 27500 H  
TP 11050 SR 28500 H  
TP 11090 SR 28500 H  
TP 11130 SR 28500 H  
TP 11170 SR 28500 H  
TP 11470 SR 28500 H  
TP 11510 SR 28500 H  
TP 11550 SR 28500 H  
TP 11558 SR 13328 V  
TP 11590 SR 28500 H  
TP 11622 SR 2048 V  
TP 11627 SR 2000 V  
TP 11630 SR 28500 H  
TP 11642 SR 1900 V  
TP 11665 SR 2000 V  
TP 11670 SR 28500 H

### Intelsat 709 (85.2E)

TP 11599 SR 3255 H  
TP 11605 SR 3700 H  
TP 11667 SR 3255 H  
TP 11682 SR 5423 H

### ChinaStar 1 (87.5E)

TP 3734 SR 5925 H  
TP 4071 SR 1084 H  
TP 12359 SR 6200 H  
TP 12475 SR 6250 V

### ST 1 (88.0E)

TP 3415 SR 3615 V  
TP 3469 SR 30000 V  
TP 3513 SR 2900 H  
TP 3521 SR 8332 H  
TP 3550 SR 30000 V  
TP 3595 SR 30000 H  
TP 3632 SR 30000 V  
TP 3671 SR 9256 H  
TP 3679 SR 3000 H  
TP 3689 SR 3000 H  
TP 11585 SR 1585 H  
TP 11588 SR 1500 H  
TP 11593 SR 1500 H  
TP 11607 SR 1783 H  
TP 11610 SR 1783 H  
TP 11628 SR 1585 H  
TP 12550 SR 13329 H  
TP 12638 SR 2200 V  
TP 12642 SR 24000 H  
TP 12645 SR 8000 V  
TP 12660 SR 3400 V  
TP 12669 SR 12144 V

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## All Satellites

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TP 12673 SR 17500 H  
TP 12704 SR 20000 H  
TP 12724 SR 13329 V

### Yamal 201 (90.0E)

TP 3536 SR 2532 H  
TP 3539 SR 3274 H  
TP 3552 SR 5800 V  
TP 3553 SR 20000 H  
TP 3582 SR 4275 H  
TP 3588 SR 4285 H  
TP 3594 SR 4275 H  
TP 3600 SR 4285 H  
TP 3603 SR 4285 V  
TP 3605 SR 2626 H  
TP 3623 SR 4285 H  
TP 3645 SR 28000 H  
TP 3674 SR 17500 H  
TP 3694 SR 2430 H  
TP 3725 SR 3200 H  
TP 3730 SR 4285 H  
TP 3754 SR 3200 H  
TP 3764 SR 2531 H  
TP 3791 SR 7900 V  
TP 3844 SR 1500 V  
TP 3895 SR 2963 H  
TP 3903 SR 8888 H  
TP 3912 SR 4295 H  
TP 3918 SR 4275 H  
TP 3922 SR 3570 H  
TP 3925 SR 1116 H  
TP 3954 SR 29500 H  
TP 3990 SR 24050 H  
TP 4042 SR 8681 V  
TP 4084 SR 2500 V  
TP 10957 SR 5000 V  
TP 10964 SR 3475 V  
TP 10967 SR 1024 V  
TP 10975 SR 3700 V  
TP 10990 SR 2170 V  
TP 10995 SR 4285 V  
TP 11057 SR 26470 V  
TP 11093 SR 26470 V  
TP 11123 SR 2180 V  
TP 11145 SR 22222 V  
TP 11476 SR 12000 V  
TP 11491 SR 13000 V  
TP 11512 SR 15000 V  
TP 11575 SR 5000 V  
TP 11586 SR 11850 V  
TP 11597 SR 2000 V  
TP 11638 SR 2200 V  
TP 11671 SR 18200 V

### Measat 3a (91.4E)

TP 4000 SR 30000 H  
TP 4040 SR 30000 H  
TP 4148 SR 6670 H  
TP 4163 SR 5500 H

### Measat 3/3a (91.5E)

TP 3480 SR 28000 H  
TP 3630 SR 2200 V

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## All Satellites

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TP 3644 SR 19510 V  
TP 3644 SR 22320 H  
TP 3718 SR 1700 V  
TP 3720 SR 2170 V  
TP 3786 SR 7030 V  
TP 3795 SR 3255 V  
TP 3804 SR 7500 V  
TP 3814 SR 6666 V  
TP 3840 SR 30000 V  
TP 3865 SR 3835 V  
TP 3880 SR 12525 V  
TP 3887 SR 3984 V  
TP 3895 SR 3260 V  
TP 3920 SR 28000 V  
TP 4000 SR 30000 H  
TP 4040 SR 30000 H  
TP 4106 SR 6666 V  
TP 4124 SR 3255 V  
TP 4128 SR 3200 V  
TP 4148 SR 6670 H  
TP 4163 SR 5500 H  
TP 10982 SR 30000 V  
TP 11062 SR 30000 V  
TP 11102 SR 30000 V  
TP 11482 SR 30000 V  
TP 11522 SR 30000 V  
TP 11562 SR 30000 V  
TP 11642 SR 30000 V  
TP 11682 SR 30000 V  
TP 12523 SR 27500 V  
TP 12563 SR 27500 V  
TP 12603 SR 27500 V  
TP 12643 SR 27500 V  
TP 12683 SR 27500 V  
TP 12683 SR 27500 H  
TP 12723 SR 27500 V  
TP 12723 SR 27500 H

### Chinasat 9/Measat 2 (92.2E)

TP 11880 SR 28800 H  
TP 11920 SR 28800 H  
TP 11960 SR 28800 H  
TP 12092 SR 6870 H  
TP 12180 SR 5632 V

### Insat 3A/4B (93.5E)

TP 3725 SR 27500 H  
TP 3732 SR 6250 V  
TP 3740 SR 6250 V  
TP 3750 SR 6250 V  
TP 3750 SR 4250 H  
TP 3756 SR 4000 H  
TP 3759 SR 6250 V  
TP 3762 SR 4250 H  
TP 3768 SR 4250 H  
TP 3772 SR 6250 V  
TP 3774 SR 4250 H  
TP 3782 SR 6250 V  
TP 3791 SR 8600 V  
TP 3797 SR 4250 H  
TP 3802 SR 4250 H  
TP 3808 SR 4250 H  
TP 3812 SR 6250 V

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## All Satellites

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TP 3815 SR 4250 H  
TP 3820 SR 6250 V  
TP 3822 SR 4250 H  
TP 3831 SR 8600 V  
TP 3832 SR 6250 H  
TP 3841 SR 6250 H  
TP 3850 SR 6250 H  
TP 3885 SR 28000 H  
TP 3888 SR 2010 V  
TP 3891 SR 2000 V  
TP 3894 SR 2100 V  
TP 3900 SR 3000 V  
TP 3904 SR 2000 V  
TP 3907 SR 2000 V  
TP 3912 SR 3000 V  
TP 3916 SR 1800 V  
TP 3919 SR 2000 V  
TP 3922 SR 2000 V  
TP 3925 SR 27500 H  
TP 3932 SR 6250 V  
TP 3940 SR 6250 V  
TP 3950 SR 6250 V  
TP 3950 SR 4440 H  
TP 3958 SR 6250 V  
TP 3958 SR 1451 H  
TP 4005 SR 25422 H  
TP 4045 SR 28000 H  
TP 4068 SR 1481 H  
TP 4072 SR 2100 H  
TP 4078 SR 1500 H  
TP 4083 SR 2200 H  
TP 4089 SR 6111 H  
TP 4092 SR 6250 V  
TP 4099 SR 6111 H  
TP 4101 SR 6250 V  
TP 4109 SR 4250 V  
TP 4110 SR 3800 H  
TP 4115 SR 4250 V  
TP 4115 SR 3800 H  
TP 4127 SR 3800 H  
TP 4132 SR 4000 V  
TP 4135 SR 3800 H  
TP 4136 SR 2000 V  
TP 4140 SR 4000 H  
TP 4141 SR 5150 V  
TP 4148 SR 3000 V  
TP 4149 SR 2500 H  
TP 4151 SR 2000 V  
TP 4155 SR 2500 H  
TP 4160 SR 2500 H  
TP 4164 SR 2500 H  
TP 4170 SR 2500 H  
TP 4173 SR 2500 H  
TP 4176 SR 2500 H  
TP 4181 SR 2500 H  
TP 10990 SR 27500 V  
TP 11030 SR 27500 V  
TP 11070 SR 27500 V  
TP 11110 SR 27500 V  
TP 11150 SR 27500 V  
TP 11185 SR 20000 V  
TP 11197 SR 3333 V  
TP 11490 SR 27500 V

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## All Satellites

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TP 11491 SR 2000 H  
TP 11494 SR 1500 H  
TP 11497 SR 1500 H  
TP 11500 SR 1500 H  
TP 11505 SR 2000 H  
TP 11530 SR 27500 V  
TP 11570 SR 27500 V  
TP 11610 SR 27500 V  
TP 11645 SR 20000 V  
TP 11682 SR 9500 V

## NSS 6 (95.0E)

TP 11017 SR 10600 V  
TP 11037 SR 40700 H  
TP 11090 SR 29500 H  
TP 11106 SR 2800 H  
TP 11131 SR 27500 V  
TP 11137 SR 1808 V  
TP 11172 SR 27500 H  
TP 11456 SR 3125 H  
TP 11460 SR 3125 H  
TP 11468 SR 3000 H  
TP 11475 SR 6111 H  
TP 11483 SR 3125 H  
TP 11494 SR 20000 V  
TP 11503 SR 6111 H  
TP 11520 SR 4000 V  
TP 11542 SR 39999 V  
TP 11588 SR 17768 H  
TP 11595 SR 28000 V  
TP 11635 SR 27500 H  
TP 11642 SR 16923 H  
TP 11651 SR 3333 V  
TP 11661 SR 5632 H  
TP 11670 SR 5000 V  
TP 11674 SR 6111 V  
TP 11676 SR 27500 H  
TP 11685 SR 6600 V  
TP 11689 SR 6620 V  
TP 12535 SR 40700 V  
TP 12595 SR 40700 H  
TP 12595 SR 40700 V  
TP 12605 SR 13200 H  
TP 12638 SR 13300 V  
TP 12647 SR 27500 H  
TP 12647 SR 30000 V  
TP 12688 SR 27500 H  
TP 12688 SR 27500 V  
TP 12729 SR 26400 H  
TP 12729 SR 27500 V  
TP 12736 SR 3333 V

## Express AM33 (96.5E)

TP 3675 SR 33483 V  
TP 3758 SR 4340 V  
TP 3795 SR 1478 V  
TP 3808 SR 3215 V  
TP 3817 SR 4270 V  
TP 3838 SR 3230 V  
TP 3843 SR 3220 V  
TP 3925 SR 4883 V  
TP 4108 SR 4275 V  
TP 4114 SR 4285 V

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## All Satellites

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TP 4143 SR 3210 V  
TP 4175 SR 3294 V  
TP 10980 SR 3200 H  
TP 10997 SR 3300 H  
TP 11006 SR 4444 H  
TP 11020 SR 1666 V  
TP 11022 SR 5700 H  
TP 11033 SR 5333 H  
TP 11117 SR 4444 H  
TP 11187 SR 2356 V  
TP 11194 SR 3255 H  
TP 11484 SR 11159 V  
TP 11500 SR 4400 V  
TP 11523 SR 6000 V  
TP 11581 SR 2532 V  
TP 11689 SR 2963 V

## AsiaSat 5 (100.5E)

TP 3646 SR 3300 H  
TP 3660 SR 27500 V  
TP 3691 SR 14270 V  
TP 3706 SR 4167 H  
TP 3714 SR 6111 V  
TP 3714 SR 4167 H  
TP 3732 SR 8889 H  
TP 3745 SR 6111 V  
TP 3747 SR 4400 H  
TP 3753 SR 6111 V  
TP 3767 SR 6527 V  
TP 3773 SR 3333 V  
TP 3774 SR 6111 H  
TP 3778 SR 3333 V  
TP 3785 SR 6111 V  
TP 3786 SR 6000 H  
TP 3790 SR 2444 V  
TP 3794 SR 4640 H  
TP 3795 SR 3310 V  
TP 3805 SR 3255 H  
TP 3820 SR 27500 V  
TP 3880 SR 27500 H  
TP 3887 SR 6111 V  
TP 3896 SR 6111 V  
TP 3905 SR 6111 V  
TP 3905 SR 4000 H  
TP 3914 SR 6111 V  
TP 3927 SR 6111 V  
TP 3946 SR 18500 V  
TP 3960 SR 27500 H  
TP 3980 SR 28100 V  
TP 4000 SR 28125 H  
TP 4011 SR 4937 V  
TP 4020 SR 30000 V  
TP 4025 SR 6666 V  
TP 4045 SR 6111 H  
TP 4050 SR 6666 V  
TP 4054 SR 6111 H  
TP 4058 SR 4937 V  
TP 4072 SR 6666 V  
TP 4073 SR 5632 H  
TP 4082 SR 4937 V  
TP 4094 SR 6666 V  
TP 4095 SR 6111 H  
TP 4104 SR 6666 V

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**All Satellites**

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TP 4114 SR 4937 V  
TP 4148 SR 11852 V  
TP 4161 SR 4678 H  
TP 4165 SR 6111 V  
TP 12292 SR 12000 V  
TP 12306 SR 6000 V

**AsiaSat 5 (101.5E)**

TP 3646 SR 3300 H  
TP 3660 SR 27500 V  
TP 3691 SR 14270 V  
TP 3706 SR 4167 H  
TP 3714 SR 6111 V  
TP 3714 SR 4167 H  
TP 3732 SR 8889 H  
TP 3745 SR 6111 V  
TP 3747 SR 4400 H  
TP 3753 SR 6111 V  
TP 3767 SR 6527 V  
TP 3773 SR 3333 V  
TP 3774 SR 6111 H  
TP 3778 SR 3333 V  
TP 3785 SR 6111 V  
TP 3786 SR 6000 H  
TP 3790 SR 2444 V  
TP 3794 SR 4640 H  
TP 3795 SR 3310 V  
TP 3805 SR 3255 H  
TP 3820 SR 27500 V  
TP 3880 SR 27500 H  
TP 3887 SR 6111 V  
TP 3896 SR 6111 V  
TP 3905 SR 6111 V  
TP 3905 SR 4000 H  
TP 3914 SR 6111 V  
TP 3927 SR 6111 V  
TP 3946 SR 18500 V  
TP 3960 SR 27500 H  
TP 3980 SR 28100 V  
TP 4000 SR 28125 H  
TP 4011 SR 4937 V  
TP 4020 SR 30000 V  
TP 4025 SR 6666 V  
TP 4045 SR 6111 H  
TP 4050 SR 6666 V  
TP 4054 SR 6111 H  
TP 4058 SR 4937 V  
TP 4072 SR 6666 V  
TP 4073 SR 5632 H  
TP 4082 SR 4937 V  
TP 4094 SR 6666 V  
TP 4095 SR 6111 H  
TP 4104 SR 6666 V  
TP 4114 SR 4937 V  
TP 4148 SR 11852 V  
TP 4161 SR 4678 H  
TP 4165 SR 6111 V  
TP 12292 SR 12000 V  
TP 12306 SR 6000 V

**Express A2 (103.0E)**

TP 3675 SR 33483 V

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## All Satellites

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### AsiaStar (105.0E)

TP 1473 SR 1840 V  
TP 1475 SR 1840 H  
TP 1478 SR 1840 H  
TP 1480 SR 1840 V  
TP 1488 SR 1840 V  
TP 1490 SR 1840 H

### AsiaSat 3S (105.5E)

TP 3680 SR 26670 H  
TP 3706 SR 6000 H  
TP 3725 SR 4450 V  
TP 3729 SR 13650 H  
TP 3732 SR 6500 V  
TP 3739 SR 2815 V  
TP 3745 SR 2626 V  
TP 3750 SR 2821 V  
TP 3755 SR 4418 V  
TP 3760 SR 26000 H  
TP 3780 SR 28100 V  
TP 3785 SR 5700 H  
TP 3817 SR 2310 H  
TP 3820 SR 27500 V  
TP 3840 SR 26850 H  
TP 3860 SR 27500 V  
TP 3880 SR 27500 H  
TP 3895 SR 6111 V  
TP 3920 SR 26666 H  
TP 3940 SR 28100 V  
TP 3960 SR 27500 H  
TP 3980 SR 28100 V  
TP 4000 SR 26850 H  
TP 4020 SR 27250 V  
TP 4040 SR 26500 H  
TP 4071 SR 14240 H  
TP 4091 SR 13333 V  
TP 4095 SR 5554 H  
TP 4102 SR 2894 V  
TP 4106 SR 2894 V  
TP 4111 SR 13650 H  
TP 4114 SR 7000 V  
TP 4132 SR 9200 H  
TP 4140 SR 27500 V  
TP 4180 SR 26666 V  
TP 12325 SR 3255 V  
TP 12352 SR 30000 V  
TP 12374 SR 3100 V  
TP 12378 SR 3100 V  
TP 12383 SR 3100 V  
TP 12402 SR 4000 H  
TP 12465 SR 3100 V  
TP 12469 SR 2900 V  
TP 12471 SR 20000 H  
TP 12495 SR 2000 H  
TP 12511 SR 4340 H  
TP 12596 SR 30000 V  
TP 12635 SR 3000 V  
TP 12640 SR 3000 V  
TP 12657 SR 5600 V  
TP 12666 SR 8350 V  
TP 12673 SR 3100 V  
TP 12677 SR 3100 V  
TP 12678 SR 5632 H

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**All Satellites**

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TP 12683 SR 5800 V  
TP 12696 SR 5632 H

**Cakrawarta 1/Indostar 2 (107.7E)**

TP 2535 SR 20000 H  
TP 2565 SR 20000 H  
TP 2595 SR 20000 H  
TP 2625 SR 20000 H  
TP 2655 SR 17000 H

**NSS 11/Telkom 1 (108.0E)**

TP 3580 SR 28000 H  
TP 3620 SR 28000 H  
TP 3640 SR 28000 V  
TP 3776 SR 4285 H  
TP 3785 SR 4000 H  
TP 3793 SR 3000 H  
TP 3797 SR 3900 H  
TP 3807 SR 4000 H  
TP 3813 SR 3000 H  
TP 3890 SR 6000 H  
TP 3990 SR 6000 H  
TP 3998 SR 6000 H  
TP 4013 SR 3000 H  
TP 4025 SR 3000 H  
TP 4029 SR 3000 H  
TP 4037 SR 3000 H  
TP 4044 SR 3610 H  
TP 4075 SR 6000 H  
TP 4084 SR 6000 H  
TP 4092 SR 3570 H  
TP 4097 SR 3125 H  
TP 4130 SR 2099 V  
TP 4159 SR 3000 H  
TP 12269 SR 20000 H  
TP 12328 SR 5000 H  
TP 12385 SR 6667 V  
TP 12411 SR 11110 V  
TP 12421 SR 2962 V  
TP 12427 SR 4440 V  
TP 12431 SR 30000 H  
TP 12434 SR 2000 H  
TP 12439 SR 1900 H  
TP 12444 SR 1900 H  
TP 12447 SR 3000 H  
TP 12471 SR 30000 H  
TP 12486 SR 2000 H  
TP 12511 SR 28100 H  
TP 12531 SR 26667 V  
TP 12551 SR 28100 H  
TP 12571 SR 30000 V  
TP 12591 SR 28800 H  
TP 12611 SR 26667 V  
TP 12651 SR 30000 V  
TP 12691 SR 26667 V  
TP 12731 SR 30000 V

**BSAT 1A/2A/N-Sat 110 (110.0E)**

TP 11727 SR 28860 V  
TP 11766 SR 28860 V  
TP 11881 SR 28860 V  
TP 11958 SR 28860 V  
TP 11996 SR 28860 V

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## All Satellites

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TP 12291 SR 28860 V  
TP 12331 SR 28860 V  
TP 12371 SR 28860 V  
TP 12411 SR 28860 V  
TP 12451 SR 28860 V  
TP 12491 SR 28860 V  
TP 12531 SR 28860 V  
TP 12551 SR 29915 H  
TP 12571 SR 28860 V  
TP 12611 SR 28860 V  
TP 12651 SR 28860 V  
TP 12691 SR 28860 V  
TP 12731 SR 28860 V

### Sinosat 1 (110.5E)

TP 3720 SR 5700 V  
TP 3767 SR 3616 H  
TP 3806 SR 5387 H  
TP 3824 SR 2100 V  
TP 3905 SR 2500 H  
TP 3909 SR 2825 H  
TP 3984 SR 3617 V  
TP 4125 SR 4420 V  
TP 4136 SR 4340 V  
TP 12500 SR 27500 V

### Koreasat 5/Palapa C2/D (113.0E)

TP 3722 SR 5632 H  
TP 3735 SR 6111 H  
TP 3745 SR 3125 H  
TP 3755 SR 4000 V  
TP 3756 SR 6250 H  
TP 3765 SR 5555 H  
TP 3774 SR 6520 H  
TP 3836 SR 2097 V  
TP 3918 SR 3500 H  
TP 3926 SR 4208 H  
TP 4024 SR 3125 H  
TP 4054 SR 5632 H  
TP 4055 SR 6510 V  
TP 4074 SR 6500 V  
TP 4080 SR 28125 H  
TP 4107 SR 3000 V  
TP 4118 SR 21690 H  
TP 4155 SR 5632 H  
TP 4173 SR 5632 H  
TP 4184 SR 6700 V  
TP 12457 SR 3072 H  
TP 12523 SR 7333 V  
TP 12530 SR 26000 H  
TP 12575 SR 5228 H  
TP 12601 SR 3700 V  
TP 12606 SR 3616 V  
TP 12621 SR 13333 V  
TP 12665 SR 3700 H  
TP 12731 SR 28200 H

### Chinasat 6B (115.5E)

TP 3600 SR 27500 V  
TP 3640 SR 27500 V  
TP 3680 SR 27500 V  
TP 3706 SR 4420 H  
TP 3730 SR 10720 H

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## All Satellites

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TP 3740 SR 27500 V  
TP 3750 SR 10490 H  
TP 3769 SR 13400 H  
TP 3780 SR 27500 V  
TP 3786 SR 5440 H  
TP 3796 SR 6930 H  
TP 3807 SR 6000 V  
TP 3808 SR 8800 H  
TP 3825 SR 6780 V  
TP 3834 SR 5400 V  
TP 3840 SR 27500 H  
TP 3846 SR 5950 V  
TP 3854 SR 4420 V  
TP 3861 SR 4800 V  
TP 3871 SR 9080 V  
TP 3880 SR 27500 H  
TP 3885 SR 4340 V  
TP 3892 SR 4420 V  
TP 3900 SR 6670 V  
TP 3910 SR 6400 V  
TP 3920 SR 27500 H  
TP 3929 SR 8840 V  
TP 3940 SR 5948 V  
TP 3950 SR 11406 H  
TP 3951 SR 9520 V  
TP 3960 SR 3570 H  
TP 3980 SR 27500 V  
TP 4000 SR 27500 H  
TP 4020 SR 27500 V  
TP 4040 SR 27500 H  
TP 4060 SR 27500 V  
TP 4080 SR 27500 H  
TP 4100 SR 27500 V  
TP 4116 SR 21374 H  
TP 4140 SR 27500 V  
TP 4147 SR 6150 H  
TP 4158 SR 8680 H  
TP 4171 SR 9200 H  
TP 4175 SR 18000 V  
TP 4192 SR 6000 V

### Koreasat 3 (116.0E)

TP 11747 SR 21300 H  
TP 11785 SR 21300 H  
TP 11823 SR 21300 H  
TP 11862 SR 21300 H  
TP 11900 SR 21300 H  
TP 11938 SR 21300 H  
TP 12350 SR 26700 V  
TP 12410 SR 27490 H  
TP 12430 SR 26687 V  
TP 12450 SR 27490 H  
TP 12490 SR 27490 H  
TP 12501 SR 3515 V  
TP 12523 SR 6330 V  
TP 12530 SR 27490 H  
TP 12550 SR 26687 V  
TP 12570 SR 27490 H  
TP 12610 SR 27489 H  
TP 12730 SR 27490 H

### Telkom 2 (118.0E)

TP 3833 SR 15917 H

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## All Satellites

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TP 3985 SR 6000 H  
TP 4014 SR 6000 H

### AsiaSat 4 (122.2E)

TP 3760 SR 27500 H  
TP 3820 SR 27500 V  
TP 3845 SR 6620 H  
TP 3856 SR 2170 H  
TP 3880 SR 27500 H  
TP 3920 SR 27500 H  
TP 3960 SR 27500 H  
TP 4040 SR 4000 H  
TP 4045 SR 2892 H  
TP 4120 SR 27500 H  
TP 4150 SR 2850 V  
TP 4180 SR 27500 V  
TP 11881 SR 24440 V  
TP 12274 SR 6000 V  
TP 12350 SR 6620 V  
TP 12360 SR 9404 V  
TP 12430 SR 20000 V  
TP 12453 SR 7720 V  
TP 12485 SR 6670 V  
TP 12565 SR 3100 H  
TP 12570 SR 3100 H  
TP 12571 SR 6620 V  
TP 12575 SR 3100 H  
TP 12580 SR 3100 H  
TP 12588 SR 3000 H  
TP 12590 SR 6620 V

### JCSAT 4A (124.0E)

TP 12268 SR 23303 V  
TP 12283 SR 23303 H  
TP 12298 SR 21096 V  
TP 12313 SR 21096 H  
TP 12328 SR 23303 V  
TP 12343 SR 21096 H  
TP 12358 SR 21096 V  
TP 12373 SR 21096 H  
TP 12388 SR 21096 V  
TP 12418 SR 21096 V  
TP 12432 SR 21096 H  
TP 12448 SR 21096 V  
TP 12493 SR 23303 H  
TP 12508 SR 21096 V  
TP 12523 SR 21096 H  
TP 12538 SR 21096 V  
TP 12553 SR 21096 H  
TP 12568 SR 21096 V  
TP 12583 SR 21096 H  
TP 12598 SR 21096 V  
TP 12613 SR 23303 H  
TP 12628 SR 21096 V  
TP 12643 SR 21096 H  
TP 12658 SR 21096 V  
TP 12673 SR 21096 H  
TP 12688 SR 21096 V  
TP 12718 SR 21096 V  
TP 12733 SR 21096 H

### Sinosat 3 (125.0E)

TP 3760 SR 30600 H

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## All Satellites

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TP 3800 SR 30600 H  
TP 3827 SR 5720 H  
TP 3845 SR 17778 H  
TP 3880 SR 13400 H  
TP 3893 SR 6880 H  
TP 3909 SR 8934 H  
TP 3922 SR 7250 H  
TP 3933 SR 6590 H  
TP 3989 SR 9070 H  
TP 3999 SR 4420 H  
TP 4006 SR 4420 H  
TP 4040 SR 30600 H  
TP 4080 SR 27500 H  
TP 4120 SR 27500 H  
TP 4160 SR 27500 H

### JCSAT 3A/RA (128.0E)

TP 3960 SR 30000 V  
TP 4000 SR 30000 V  
TP 4055 SR 3332 V  
TP 4120 SR 30000 V  
TP 4154 SR 6111 H  
TP 12268 SR 21096 V  
TP 12288 SR 23303 H  
TP 12328 SR 23303 H  
TP 12348 SR 21096 V  
TP 12368 SR 21096 H  
TP 12388 SR 23303 V  
TP 12408 SR 21096 H  
TP 12428 SR 21096 V  
TP 12453 SR 21096 H  
TP 12468 SR 23303 V  
TP 12488 SR 23303 H  
TP 12508 SR 21096 V  
TP 12523 SR 21096 H  
TP 12538 SR 21096 V  
TP 12553 SR 21096 H  
TP 12568 SR 21096 V  
TP 12583 SR 21096 H  
TP 12598 SR 21096 V  
TP 12613 SR 21096 H  
TP 12628 SR 21096 V  
TP 12643 SR 21096 H  
TP 12658 SR 21096 V  
TP 12673 SR 21096 H  
TP 12688 SR 21096 V  
TP 12703 SR 21096 H  
TP 12718 SR 21096 V  
TP 12733 SR 23303 H

### JCSAT 5A/Vinasat 1 (132.0E)

TP 3413 SR 9766 V  
TP 3428 SR 3200 V  
TP 3516 SR 6111 H  
TP 3558 SR 3000 V  
TP 10968 SR 28800 H  
TP 11090 SR 28120 H  
TP 11517 SR 4700 H  
TP 11549 SR 28490 H  
TP 12257 SR 3096 V  
TP 12288 SR 7241 H  
TP 12320 SR 7241 V  
TP 12340 SR 7241 H

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## All Satellites

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TP 12400 SR 7241 V  
TP 12408 SR 7241 H  
TP 12420 SR 7241 H  
TP 12746 SR 3096 H

### Apstar 6 (134.OE)

TP 3750 SR 3570 H  
TP 3751 SR 3570 H  
TP 3756 SR 5632 H  
TP 3766 SR 4285 H  
TP 3775 SR 6200 H  
TP 3840 SR 27500 H  
TP 3878 SR 3000 H  
TP 3905 SR 6100 H  
TP 4149 SR 6200 H  
TP 12324 SR 4195 V  
TP 12395 SR 27500 V  
TP 12435 SR 27500 V  
TP 12515 SR 27500 V  
TP 12595 SR 27500 V  
TP 12629 SR 18000 V  
TP 12675 SR 27500 V  
TP 12702 SR 2500 V

### Telstar 18 (138.OE)

TP 3571 SR 15000 V  
TP 3599 SR 30000 V  
TP 3660 SR 30000 V  
TP 3695 SR 4200 H  
TP 3704 SR 3034 V  
TP 3858 SR 6428 V  
TP 3867 SR 4290 H  
TP 4124 SR 3255 V  
TP 12302 SR 30000 V  
TP 12354 SR 43000 V  
TP 12358 SR 1496 H  
TP 12401 SR 22425 V  
TP 12430 SR 22425 V  
TP 12463 SR 21600 V  
TP 12502 SR 3600 V  
TP 12538 SR 41250 V  
TP 12598 SR 43000 V  
TP 12646 SR 22425 V  
TP 12690 SR 43200 H  
TP 12720 SR 43000 V

### Express AM3 (140.OE)

TP 3571 SR 3000 V  
TP 3577 SR 4285 V  
TP 3584 SR 3000 V  
TP 3589 SR 4340 V  
TP 3609 SR 4340 V  
TP 3627 SR 4340 V  
TP 3632 SR 4340 V  
TP 3675 SR 33483 V  
TP 3874 SR 3200 V  
TP 4180 SR 4340 V  
TP 4184 SR 4340 V  
TP 10981 SR 44948 V  
TP 10997 SR 3300 H  
TP 11023 SR 5000 H  
TP 11064 SR 6600 V  
TP 11082 SR 2500 H

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## All Satellites

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TP 11104 SR 5787 V  
TP 11471 SR 24800 V  
TP 11665 SR 39500 V

### Superbird C2 (144.0E)

TP 12313 SR 5275 V  
TP 12336 SR 3515 V  
TP 12359 SR 3100 V  
TP 12376 SR 3100 V  
TP 12430 SR 13330 V  
TP 12508 SR 21096 V  
TP 12523 SR 21096 H  
TP 12553 SR 21096 H  
TP 12583 SR 21096 H  
TP 12598 SR 21096 V  
TP 12613 SR 21096 H  
TP 12628 SR 21096 V  
TP 12643 SR 21096 H  
TP 12658 SR 21096 V  
TP 12673 SR 21096 H  
TP 12688 SR 21096 V  
TP 12703 SR 21096 H  
TP 12718 SR 21096 V

### Agila 2 (146.0E)

TP 3645 SR 1171 H  
TP 3671 SR 1851 V  
TP 3726 SR 2611 H  
TP 3764 SR 3300 V  
TP 3774 SR 3300 V  
TP 3791 SR 3100 H  
TP 3791 SR 10091 V  
TP 3796 SR 3360 H  
TP 3825 SR 2500 V  
TP 3840 SR 2083 H  
TP 3846 SR 6110 H  
TP 3854 SR 2603 H  
TP 3873 SR 2532 V  
TP 3875 SR 3000 H  
TP 3877 SR 2200 V  
TP 3880 SR 2000 H  
TP 3886 SR 8955 H  
TP 3894 SR 3360 V  
TP 3896 SR 3000 H  
TP 3898 SR 3280 V  
TP 3905 SR 6400 V  
TP 3907 SR 7030 H  
TP 3915 SR 6700 V  
TP 3923 SR 2554 H  
TP 3979 SR 9628 V  
TP 3989 SR 5000 V  
TP 3993 SR 2964 H  
TP 4039 SR 3011 H  
TP 4164 SR 3735 V  
TP 4171 SR 3213 V  
TP 4183 SR 2170 V  
TP 4188 SR 2170 V  
TP 4191 SR 2170 V  
TP 12235 SR 5350 H  
TP 12253 SR 2400 H  
TP 12275 SR 6015 H  
TP 12293 SR 6500 V  
TP 12301 SR 25600 H

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## All Satellites

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TP 12329 SR 10000 V  
TP 12330 SR 3490 H  
TP 12351 SR 12800 V  
TP 12501 SR 30000 H  
TP 12501 SR 4690 V  
TP 12541 SR 25600 H  
TP 12544 SR 21429 V  
TP 12581 SR 25600 H  
TP 12584 SR 4687 V  
TP 12590 SR 4284 V  
TP 12596 SR 4284 V  
TP 12621 SR 30000 V  
TP 12647 SR 4284 V  
TP 12661 SR 26042 H

### JCSAT 1B (150.0E)

TP 12423 SR 6912 V  
TP 12662 SR 12825 V  
TP 12693 SR 12825 V

### Palapa D (150.5E)

TP 3745 SR 3125 H  
TP 3756 SR 6250 H  
TP 3765 SR 5555 H  
TP 3774 SR 6520 H  
TP 3926 SR 4208 H  
TP 4080 SR 28125 H

### Optus D2 (152.0E)

TP 12394 SR 22500 H  
TP 12407 SR 30000 V  
TP 12425 SR 22500 H  
TP 12519 SR 22500 V  
TP 12536 SR 6980 H  
TP 12545 SR 6980 H  
TP 12546 SR 22500 V  
TP 12554 SR 6980 H  
TP 12581 SR 22500 H  
TP 12608 SR 22500 H  
TP 12644 SR 22500 V  
TP 12644 SR 22500 H  
TP 12662 SR 6670 V  
TP 12671 SR 22500 H  
TP 12680 SR 6670 V  
TP 12706 SR 22500 V  
TP 12706 SR 22500 H  
TP 12734 SR 22500 V

### JCSAT 2A (154.0E)

TP 3936 SR 3333 V  
TP 12263 SR 5082 V  
TP 12278 SR 4820 V  
TP 12280 SR 4820 H  
TP 12298 SR 21096 V  
TP 12310 SR 3515 H  
TP 12318 SR 4820 V  
TP 12324 SR 4820 V  
TP 12331 SR 4820 V  
TP 12338 SR 4820 V  
TP 12362 SR 4820 V  
TP 12409 SR 4820 V  
TP 12436 SR 3100 H  
TP 12461 SR 2893 H

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## All Satellites

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TP 12505 SR 4821 V  
TP 12576 SR 7242 V  
TP 12613 SR 21096 H  
TP 12688 SR 21096 V  
TP 12700 SR 5274 H  
TP 12729 SR 3096 V

### Optus C1/D3 (156.0E)

TP 11721 SR 29450 H  
TP 11762 SR 27800 H  
TP 11887 SR 27800 H  
TP 11928 SR 27800 H  
TP 11970 SR 27800 H  
TP 12011 SR 29450 H  
TP 12053 SR 27800 V  
TP 12053 SR 29450 H  
TP 12094 SR 27800 H  
TP 12094 SR 27800 V  
TP 12136 SR 27800 H  
TP 12177 SR 27800 V  
TP 12177 SR 27800 H  
TP 12287 SR 27800 V  
TP 12305 SR 30000 H  
TP 12358 SR 27800 H  
TP 12367 SR 27800 V  
TP 12398 SR 27800 H  
TP 12407 SR 30000 V  
TP 12438 SR 27800 H  
TP 12448 SR 27800 V  
TP 12478 SR 27800 H  
TP 12487 SR 27800 V  
TP 12518 SR 27800 H  
TP 12527 SR 30000 V  
TP 12558 SR 27800 H  
TP 12567 SR 27800 V  
TP 12598 SR 27800 H  
TP 12607 SR 27800 V  
TP 12638 SR 27800 H  
TP 12647 SR 27800 V  
TP 12689 SR 27800 H  
TP 12692 SR 28650 V  
TP 12728 SR 24450 V

### Optus D1 (160.0E)

TP 12331 SR 22500 H  
TP 12358 SR 22500 H  
TP 12391 SR 12600 H  
TP 12394 SR 22500 H  
TP 12407 SR 12600 H  
TP 12421 SR 22500 H  
TP 12424 SR 14294 H  
TP 12451 SR 12600 H  
TP 12456 SR 22500 H  
TP 12469 SR 12600 H  
TP 12483 SR 22500 H  
TP 12487 SR 12600 H  
TP 12514 SR 14294 H  
TP 12519 SR 22500 V  
TP 12519 SR 22500 H  
TP 12532 SR 14294 H  
TP 12546 SR 6670 V  
TP 12546 SR 22500 H  
TP 12550 SR 14294 H

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## All Satellites

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TP 12556 SR 6670 V  
TP 12577 SR 14294 H  
TP 12581 SR 22500 H  
TP 12595 SR 14294 H  
TP 12608 SR 22500 H  
TP 12613 SR 14294 H  
TP 12637 SR 5100 V  
TP 12644 SR 22500 H  
TP 12648 SR 12600 V  
TP 12658 SR 12600 H  
TP 12661 SR 7200 V  
TP 12670 SR 7200 V  
TP 12671 SR 22500 H  
TP 12679 SR 7200 V  
TP 12681 SR 7200 H  
TP 12699 SR 7200 H  
TP 12707 SR 22500 H  
TP 12734 SR 22500 H

## Superbird B2 (162.OE)

TP 12277 SR 6150 V  
TP 12286 SR 6150 V  
TP 12295 SR 6150 V  
TP 12304 SR 6150 V  
TP 12373 SR 4095 V  
TP 12384 SR 4095 V  
TP 12413 SR 4095 V  
TP 12419 SR 4095 V  
TP 12455 SR 4095 H  
TP 12501 SR 10000 H  
TP 12523 SR 6428 V  
TP 12526 SR 2056 H  
TP 12557 SR 5275 V  
TP 12596 SR 6620 V  
TP 12644 SR 5275 H  
TP 12656 SR 5275 V  
TP 12664 SR 5275 V  
TP 12676 SR 6144 H

## Intelsat 8 (166.OE)

TP 3740 SR 27500 H  
TP 3764 SR 19850 V  
TP 3780 SR 25000 H  
TP 3790 SR 6510 V  
TP 3808 SR 5632 V  
TP 3812 SR 14109 H  
TP 3815 SR 4400 V  
TP 3829 SR 13238 H  
TP 3833 SR 17500 V  
TP 3851 SR 9953 V  
TP 3858 SR 6670 H  
TP 3880 SR 28700 V  
TP 3900 SR 27500 H  
TP 3940 SR 27690 H  
TP 3949 SR 4613 V  
TP 3959 SR 3428 V  
TP 3972 SR 2206 V  
TP 3980 SR 27690 H  
TP 3987 SR 5632 V  
TP 3996 SR 6620 V  
TP 4020 SR 26470 H  
TP 4028 SR 5632 V  
TP 4036 SR 6620 V

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## All Satellites

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TP 4060 SR 26590 H  
TP 4080 SR 28270 V  
TP 4096 SR 6620 H  
TP 4105 SR 5632 H  
TP 4114 SR 5632 H  
TP 4122 SR 5554 V  
TP 4130 SR 5800 V  
TP 4140 SR 28125 H  
TP 12286 SR 28800 H  
TP 12326 SR 28800 H  
TP 12395 SR 2776 H  
TP 12411 SR 13240 H  
TP 12455 SR 5426 H  
TP 12462 SR 2222 H  
TP 12490 SR 7200 H  
TP 12491 SR 4400 V  
TP 12502 SR 3074 V  
TP 12526 SR 28800 H  
TP 12575 SR 13845 H  
TP 12646 SR 28066 H  
TP 12686 SR 28124 H  
TP 12726 SR 28066 H

### Intelsat 2/5 (169.0E)

TP 3760 SR 25000 H  
TP 3860 SR 26479 H  
TP 3932 SR 3500 H  
TP 3936 SR 3500 H  
TP 3990 SR 3500 H  
TP 3992 SR 26500 V  
TP 4055 SR 4000 H  
TP 4160 SR 26479 H  
TP 4160 SR 26500 V

### Intelsat 2 (169.1E)

TP 3860 SR 26479 H

### GE 23 (172.0E)

TP 3915 SR 3330 H  
TP 11646 SR 2200 V  
TP 12716 SR 7200 V  
TP 12725 SR 7200 V  
TP 12734 SR 7200 V

### Intelsat 701 (180.0E)

TP 3709 SR 5632 V  
TP 3721 SR 6111 V  
TP 3727 SR 5632 V  
TP 3736 SR 5632 V  
TP 3812 SR 6111 V  
TP 3821 SR 5632 V  
TP 3830 SR 5632 V  
TP 3922 SR 21200 H  
TP 3928 SR 11394 V  
TP 4055 SR 16500 H  
TP 4095 SR 16500 H  
TP 4174 SR 3680 H  
TP 10958 SR 6450 V  
TP 10975 SR 30000 H  
TP 11060 SR 30000 V  
TP 11136 SR 23150 V  
TP 11174 SR 23150 H  
TP 11514 SR 30000 V

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**All Satellites**

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TP 11610 SR 30000 H  
TP 12648 SR 28066 H