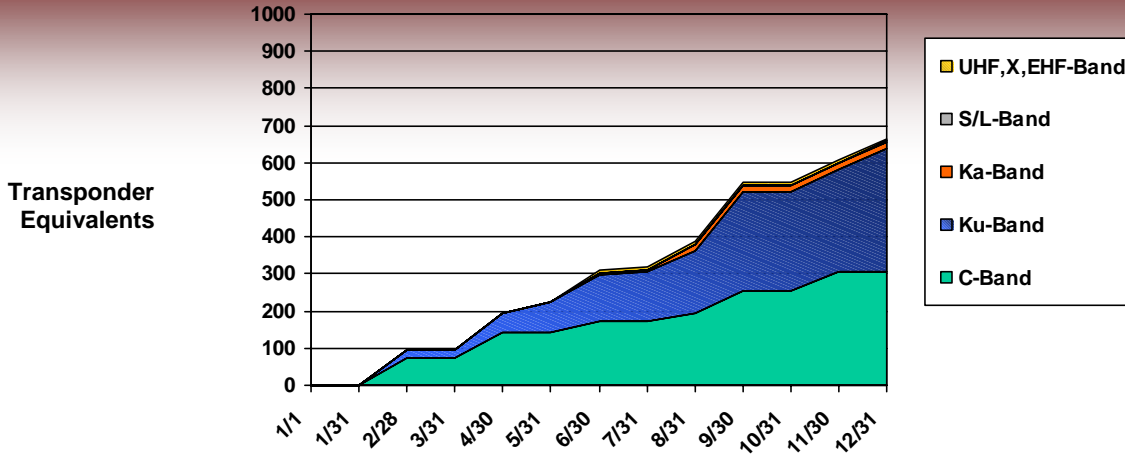


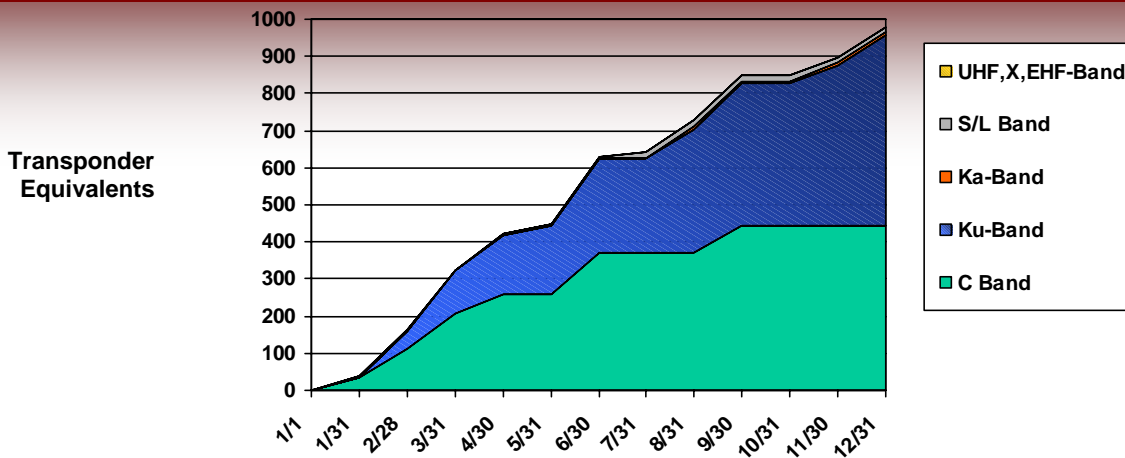


Satellite Telecommunications Report

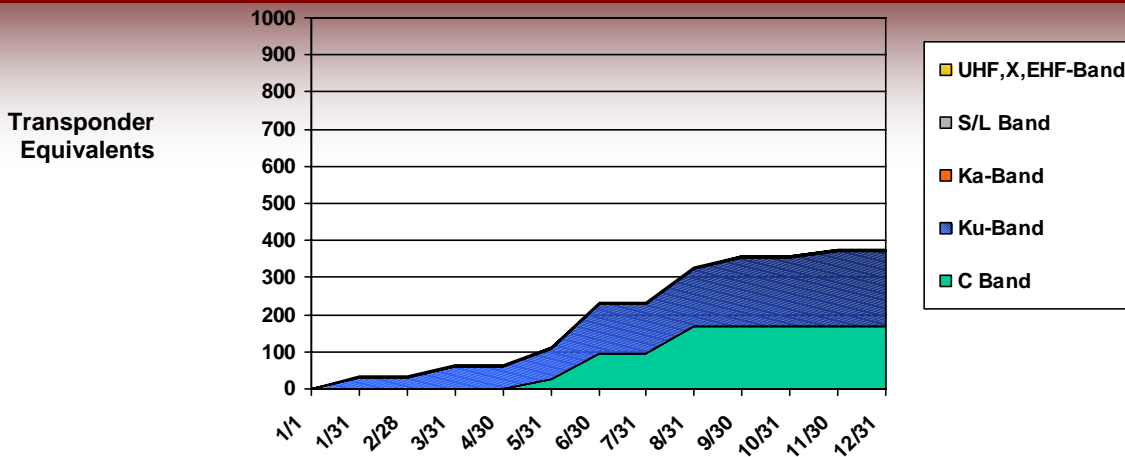
2003 Cumulative 36-MHz Transponder Equivalents Launched by Frequency



2002 Cumulative 36-MHz Transponder Equivalents Launched by Frequency



2001 Cumulative 36-MHz Transponder Equivalents Launched by Frequency



For more information contact:

Eileen McGowan, Senior Analyst
 Space & Telecommunications Division
 Futron Corporation • 7315 Wisconsin Avenue, Suite 900W • Bethesda, MD 20814
 301-347-3431 • emcgowan@futron.com

**Futron Satellite Telecommunications Report****2003 Cumulative 36-MHz Transponder Equivalents Launched by Frequency**

2003 Cumulative 36-MHz Transponder Equivalents by Frequency												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
C-Band	0	72	72	142	142	172	172	196	256	256	304	304
Ku-Band	0	22	22	52	82	126	133	165	265	265	277	335
Ka-Band	0	0	0	0	0	4	4	18	18	18	18	18
S/L-Band	0	0	0	0	0	.9	.9	.9	.9	.9	.9	.9
UHF,X,EHF-Band	0	0	0	0	0	7	7	7	7	7	7	7
Totals	0	94	94	194	224	309.9	316.9	386.9	546.9	546.9	606.9	686.9

2002 Cumulative 36-MHz Transponder Equivalents Launched by Frequency

2002 Cumulative 36-MHz Transponder Equivalents by Frequency												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
C-Band	36	112	206.5	258.5	258.5	370.5	370.5	370.5	442.5	442.5	442.5	442.5
Ku-Band	0	49.3	116.3	161.3	185.3	255.3	255.3	333.3	383.3	383.3	431.3	512.3
Ka-Band	0	0	0	0	0	0	0	8	8	8	8	10
S/L-Band	2.4	2.4	2.4	2.4	2.4	3.4	15.4	15.4	15.4	15.4	15.4	15.4
UHF,X,EHF-Band	0	0	0	0	0	0	0	0	0	0	0	0
Totals	38.4	163.7	325.2	422.2	446.2	629.2	641.2	727.2	849.2	849.2	897.2	980.2

2001 Cumulative 36-MHz Transponder Equivalents Launched by Frequency

2001 Cumulative 36-MHz Transponder Equivalents by Frequency												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
C-Band	0	0	0	0	24	96	96	168	168	168	168	168
Ku-Band	32	32	60	60	84	132	132	154	187	187	203	203
Ka-Band	0	0	0	0	0	0	0	0	0	0	0	0
S/L-Band	0	0	2	2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
UHF,X,EHF-Band	2	2	2	2	2	2	2	2	2	2	2	2
Totals	34	34	64	64	112.5	232.5	232.5	326.5	359.5	359.5	375.5	375.5

For more information contact:

Eileen McGowan, Senior Analyst
 Space & Telecommunications Division
 Futron Corporation • 7315 Wisconsin Avenue, Suite 900W • Bethesda, MD 20814
 301-347-3431 • emcgowan@futron.com