Table PAN-5. Comparison of PanAmSat Actual and Modeled Revenues

		($ Millions)				
		1993	1994	1995	1996	1997
1993 PanAmSat Revenue Forecast, PAS 1-4						
Total	[1]		60.02	120.61	195.79	259.05
PanAmSat Actual and Projected Revenues						
Video	[2]	32.19	38.91	83.88	179.20	
Private Networks/Telephony	[3]	18.60	24.84	32.28	42.20	
Total	[4]	50.80	63.74	116.16	221.40	
Brattle Modeled Revenues, PAS 1-4						
Video	[5]	32.19	38.90	83.88	179.20	217.44
Private Networks/Telephony	[6]	18.60	24.84	32.28	42.20	51.21
Total	[7]	50.80	63.74	116.15	221.40	268.65
Deviation from PAS 1-4 Video Revenues	[8]	0.0%	0.0%	0.0%	0.0%	
Deviation from PAS 1-4 Total Revenues	[9]	0.0%	0.0%	0.0%	0.0%	

Notes to Table PAN-5:

[1] 1994-1998 revenue projections from the PanAmSat Form S-1, 5/25/93, p. A-7.

[2], [3], [4] 1993-1994 revenues from the PanAmSat *Prospectus*, 9/25/95, p. 28.
1995 revenues from the PanAmSat Form 10-K, 1995, p. 34.
1996 revenues estimated as two times PanAmSat revenues for the first half of 1996 (See Table PAN-5a).
(Note: *The Wall Street Journal*, 6/14/96, p. B4 cited PanAmSat revenue projections of $270 million for the full year 1996).

[5] = (Table PAN-4, [26] x Table PAN-3 [A]) + (Table PAN-4, [29] x Table PAN-3 [B])

[6] = (Table PAN-4, [27] x Table PAN-3 [E]) + (Table PAN-4, [30] x Table PAN-3 [F])

Table PAN-5a. Projection of PanAmSat 1996 Revenues

	1995 1Q+2Q Revenues [1]	1996 1Q+2Q Revenues [2]	1995-96 1Q+2Q Growth [3]	1995 Total Revenues [4]	1996 Revenues Based on 1Q+2Q Growth [5]	1996 Revenues Based on 2*(1Q+2Q) [6]	1996 Revenues Based on Company Frcst [7]	1996 Revenues Based on Analyst Frcst [8]	Brattle 1996 Revenue Projection [9]
Revenues ($ Millions)									
Video	29.60	89.60	203%	83.88	253.91	179.20	NA	NA	179.20
Private Networks/Telephony	14.20	21.10	49%	32.28	47.97	42.20	NA	NA	42.20
Total	43.80	110.70		116.16	301.87	221.40	195.79	270.00	221.40

Notes for Table PAN-5a:

[1], [2] PanAmSat Form 10-Q, June 1996, p. 14.
[3] =[2]/[1]-1
[4] PanAmSat Form 10-K, 1995, p. 34.
[5] =[4] x ([3]+1)
[6] =[2] x 2
[7] PanAmSat Form S-1, 5/25/93, p. A-7.
[8] *The Wall Street Journal*, 6/14/96, p. B4.
[9] =[6]

Table PAN-6a. Currently Identified PAS-1 Video Transponder Leases

	Program/ Lessee	Program Source	Band Width	PAS-1 27/36 MHz Equiv.	To/From the US	Latin America	Trans-Atlantic	Source for Feed Data
C- Band								
	TOTAL:			22.6	12.5 **55%**	12.5 **55%**	0.0 **0%**	
1	Canal Sur	[2]	36	1.0				[2]
2	Cartoon	[2]		1.0	1	1		[2]
3	Cinecanal	[1], [2]		0.5				[2]
4	Cinemax	[2]		0.5	1	1		[2]
5	Cinemax	[2]		0.5	1	1		[2]
6	CTC	[2]		1.0				[2]
7	Discovery	[1]	36	1.0	1	1		[8]
8	Eco Televisa	[1],[2]	20	0.6				[2],[8]
9	ESPN	[1],[2]	36	1.0	1	1		[2],[7],[8]
10	HBO Ole	[1],[2]		1.0	1	1		[2]
11	HBO Ole	[2]		1.0	1	1		[2]
12	MTV	[1]	36	1.0	1	1		[7],[8]
13	Peru 13	[1],[2]	18	0.5				[2],[7]
14	Peru 2	[1],[2]	18	0.5				[2],[7]
15	Peru 4	[1],[2]	18	0.5				[2],[7]
16	Peru 5	[1],[2]	18	0.5				[2]
17	Peru Ed	[2]		1.0				[2]
18	RAI/WTN	[2]	36	1.0	1	1		[2]
19	SiTv	[6]	36	1.0				[6]
20	Sony	[2]		0.5	1	1		
21	Sony	[2]		0.5	1	1		
22	Space	[2]	18	0.5				[2],[8]
23	Telefe	[1],[2]	18	0.5				[2],[8]
24	TNT	[2]		1.0	1	1		[2],[8]
25	TV Chile	[1],[2]	18	0.5				[2]
26	TV Chile	[2]	18	0.5				[2]
27	TVN	[2]		1.0	1	1		
28	USA Network	[1]		0.5	1	1		[8]
29	VCC	[2]		1.0				
30	Warner Bros.	[2]		0.5	1	1		[2]
31	Warner Bros.	[2]		0.5	1	1		
Ku-Band								
	TOTAL:			9.0	8.0 **89%**	0.0 **0%**	8.0 **89%**	
1	ABC/BBC/CBS	[1],[2]	36	1.0	1		1	[2]
2	CBS	[2]		0.5	1		1	[2]
3	Doordarshan	[2]		0.5	1		1	[11]
4	Fuji TV	[2]	36	1.0	1		1	[2]
5	Galavision	[2]	36	1.0	1		1	[2]
6	NHK	[2]	36	1.0				[2]
7	NHK Video	[1],[2]		1.0	1		1	[2]
8	TV Belgrad	[2]	36	1.0	1		1	[2]
9	TV Japan/NHK	[2]	36	1.0	1		1	[2]
10	WTN	[3]	36	1.0	1		1	[3]

Table PAN-6b. Currently Identified PAS-2 Video Transponder Leases

Program/ Lessee	Source	PAS-2 To/From the US	PAS-2 Trans-Pacific	Source for Feed Data
C Band				
TOTAL:	25.0	16.0	16.0	
		64%	**64%**	
ABS-CBN	[1],[3]	1	1	[1]
Asia Bus	[2],[3]	1	1	[1]
BBC World	[2],[3]	1	1	[3]
Bloomberg	[2],[3],[4]	1	1	[1],[9]
Cartoon	[2]	1	1	[2],[4]
CBS	[1],[2],[3]	1	1	[1]
CCTV	[2],[3]			[2]
Channel KTV	[2],[3],[9]			[2],[4],[9]
CNBC	[2]	1	1	
CNN	[2]	1	1	
Country	[2],[3],[4]	1	1	[2],[4],[9]
CTN	[2]			[2]
Discovery	[2],[3]	1	1	[2]
Disney	[2],[3]			[2]
ESPN	[1],[2],[3],[4]	1	1	[2],[9]
ESPN2	[2]	1	1	
Jet TV	[2]			
KDD	[2]			
Liberty	[2],[3]	1	1	[2]
MTV Asia	[1],[2]	1	1	[2]
NBC	[2],[3]	1	1	[2]
NHK	[2],[3]			[2]
TC Singapore	[2],[3]			[2]
The Value Channel	[2],[3],[10]	1	1	[2],[3],[10]
TVB Int	[1],[2],[3]			[2]
Ku-Band				
TOTAL:	2.0	0.0	0.0	
		0%	**0%**	
TASC (Taiwan)	[2]			[2]
TVB Int	[1],[2]			[1],[2]

Table PAN-6c. Currently Identified PAS-3R Video Transponder Leases

Program/ Lessee	Source	PAS-3R To/From the US	Latin America	Trans-Atlantic	Source for Feed Data
C- Band					
TOTAL:	29.0	15.0	12.0	3.0	
		52%	**41%**	**10%**	
Artear	[1],[2],[3],[5]				[2]
Bravo	[2],[3]	1	1		[3],[2]
Canal 13	[1],[5]				
Canal 4	[1]				
Canal 9	[1],[5]				
Caracol	[1],[3],[5]				
CCTV	[1],[2],[3],[5]	1	1		[3]
CCTV	[1],[2],[3],[5]	1		1	[3]
Cinemax	[1],[5]				[8]
Country	[1],[2],[3],[5]	1	1		[2],[8]
Discovery	[1],[2],[3],[5]	1	1		[2],[8]
ESPN	[1],[2],[3],[5]	1	1		[2],[8]
Eternal Word	[2]	1	1		
Fox	[2]	1	1		
HBO Ole	[1],[2],[3],[5]				[8]
Liberty	[1],[2],[3],[5]	1	1		[2],[8]
Liberty	[2]	1		1	[2]
NBC	[1],[2],[3],[5]	1	1		[8]
SiTV	[1],[5]				
Sony	[5]				[8]
TBS	[2]	1	1		[8]
Teledifusora	[2]				
Televisa	[1],[2],[3],[5]				[2]
TV Cerro Cora	[2]				
TV-5	[1],[2],[3],[5]	1		1	[2],[8]
TVN	[1],[2],[3],[5]	1	1		[8]
U Catolica	[1],[2],[3],[5]				[8]
Viacom	[2],[3],[5]	1	1		[8]
Warner	[5]				[7],[8]
Ku-Band					
TOTAL:					
		52%	**41%**	**10%**	

Notes for Tables PAN-6a, 6b, 6c:

Leases to/from the U.S. based on available feed data from sources below;
if specific feed information is unavailable, leases of U.S.-based broadcasters are assumed to be to/from the U.S.

PAS-1: If bandwidth is unavailable, full transponder assumed for analog signals, half transponder assumed for digital signals.

PAS-2: Leases without C/Ku-Band information are assumed C-Band. If some of the listed leases within Asia are Ku-Band, % to and from the U.S. is understated.

PAS-2 and PAS-3: Bandwidth information unavailable; all channels assumed to be 27/36 MHz transponders.

PAS-3: Ku-Band information unavailable. Percentage to and from the U.S. is assumed to be the same as C-Band.

Sources:
[1] PanAmSat Form 10-K, 1995, and PanAmSat *Prospectus,* 1995.
[2] *Transponder Loading Database*, DaiLink Satcoms Ltd, 6/14/96, and 9/10/96 update for PanAmSat.
[3] PanAmSat press releases; 4/1/96 (BBC), 4/3/96 (CCTV), 4/29/96 (BRAVO), 5/14/96 (TVC), 5/28/96 (WTN).
[4] "PanAmSat Begins Work on California Transmission Facility," *Satellite News*, 1/15/96, p. 6.
[5] "PAS-3R Prepares to Digitize Latin World," *Cable & Satellite Express*, 1/25/96, p. 10.
[6] "Satellite Operators Ink Long-term Transponder Leases," *Space News*, 2/27/95, p. 10.
[7] *Variety* Magazine Table as Shown in PanAmSat Form 10-K, 1994, p. 40.
[8] Table faxed from *Variety* Magazine, 3/96.
[9] "PanAmSat News," *Satellite Journal International.* Vol 4 No 2.
[10] "PanAmSat Provides The Value Channel," *Satellite Journal International,* Vol 4, No 10.
[11] "Doordarshan Broadcasts to Reach United States," *India Journal*, 12/15/96 (INDOlink Webpage).

Table PAN-7. PanAmSat Video Transponder Leases to and from the U.S.

		To/From the US [A]	1993	1994	1995	1996	1997
PAS-1							
Utilized 27/36 MHz Ku Transponders, Video							
Year Average	[1]		7.9	7.7	9.0	7.5	8.4
End of Year	[2]		7.8	8.3	9.0	7.9	
Trans-Atlantic	[3]	89%	6.9	7.4	8.0	7.1	
Utilized 27/36 MHz C Transponders, Video							
Year Average	[4]		15.9	15.4	17.9	14.9	16.9
End of Year	[5]		15.6	16.6	17.9	15.9	
Latin America	[6]	55%	8.7	9.2	9.9	8.8	
PAS-2							
Utilized 27/36 MHz Ku Transponders, Video							
Year Average	[7]			2.8	13.6	20.6	23.2
End of Year	[8]			8.2	17.1	21.9	
Trans-Pacific	[9]	0%		0.0	0.0	0.0	
Utilized 27/36 MHz C Transponders, Video							
Year Average	[10]			2.8	13.6	20.6	23.2
End of Year	[11]			8.2	17.1	21.9	
Trans-Pacific	[12]	64%		5.2	10.9	14.0	
PAS-3R							
Utilized 27/36 MHz Ku Transponders, Video							
Year Average	[13]					17.5	21.6
End of Year	[14]					19.5	
Latin America	[15]	41%				8.1	
Trans-Atlantic	[16]	10%				2.0	
Utilized 27/36 MHz C Transponders, Video							
Year Average	[17]					17.5	21.6
End of Year	[18]					19.5	
Latin America	[19]	41%				8.1	
Trans-Atlantic	[20]	10%				2.0	
PAS-4 (no U.S. Coverage)							
Utilized 27/36 MHz Ku Transponders, Video							
Year Average	[21]				3.4	15.1	20.6
End of Year	[22]				9.3	17.9	
To and From U.S.	[23]	0%			0.0	0.0	
Utilized 27/36 MHz C Transponders, Video							
Year Average	[24]				3.4	15.1	20.6
End of Year	[25]				9.3	17.9	
To and From U.S.	[26]	0%			0.0	0.0	
Total Transponders To and From U.S., Video, End of Year							
Trans-Atlantic	[27]		6.9	7.4	8.0	11.1	
Latin America	[28]		8.7	9.2	9.9	25.0	
Trans-Pacific	[29]		0.0	5.2	10.9	14.0	
Total	[30]		15.6	21.9	28.8	50.1	

Notes to Table PAN-7:

[1], [4], [7], [10], [13], [17], [21], [24]	See Table PAN-4.
Column [A]	See Table PAN-6.
[2], [5], [8], [11], [14], [18], [22], [25]	Decreased utilization of PAS-1 in 1996 due to transfer of some transponder leases to PAS-3R. 1995 PAS-1 End-of-Year transponders are assumed to be the same as 1995 Year-Average transponders. All other End-of-Year transponders are interpolated linearly from the current year and following Year-Average transponders.
[3], [6], [9], [12], [15], [16], [19], [20], [23], [26]	=[A] x End-of-Year transponders.

Orion

Table ORI-1. Orion Satellite Data Summary

	Orion 1	Orion 2	Orion 3
Region	Atlantic Ocean	Atlantic Ocean	Asia/Pacific Ocean
Achieved/Expected Launch	November 1994	4th Quarter 1997	1st Half 1998
Achieved/Expected Service Date	January 1995	January 1998	Mid 1998
Transponders	34	32	32
Ku-Band @ 36 MHz	6	0	0
Ku-Band @ 54 MHz	28	32	32
Total 27/36 MHz Equivalent	62	64	64
Usable Bandwidth	1728 MHz	1728 MHz	1728 MHz
EIRP	47 to 52 dBW	48 to 54 dBW	43 to 53 dBW
Total Prime Power	4500 Watts	7000 Watts	7000 Watts
End of Useful Life	2005	2010	2011
Estimated Coverage Area To and From the U.S.			
Trans-Atlantic	yes	yes	--
Latin America	--	yes	--
Trans-Pacific	--	--	yes

Notes to Table ORI-1:

Source: Orion *Prospectus*, 6/27/95, p. 14.

Table ORI-2. Orion Transponder Utilization by Satellite

		Year Average		
		1995	1996	1997
Orion 1				
Total 27/36 MHz Transponders	[1]	62	62	62
Utilization Factor	[2]	17%	40%	51%
Utilized 27/36 MHz Transponders	[3]	10.8	24.9	31.9

Notes to Table ORI-2:

[1] See Table ORI-1.

[2] 1995-96 Utilization Factors are calculated to be consistent with actual/projected revenues. Utilization Factors are also consistent with Orion *Prospectus,* 6/27/95, which lists 18% utilization for 1995; and "Orion Sharpens Focus on New Markets, Next Satellites," *Space News*, 3/11/96, which lists 1996 utilization at 40%.

1997 utilization factor based on linear interpolation assuming 85% utilization by 2000 as listed in Orion *Prospectus*, 6/27/95, p. 13.

[3] =[1] x [2]

Table ORI-3. Transponder Allocation Factor by Service Type

27/36 MHz Transponders for Video, 2000	80 [A]
27/36 MHz Transponders for Private Networks, 2000	53 [B]
Revenues from Video, 2000	105.8 [C]
Revenues from Private Networks, 2000	354.2 [D]
Implied Avg. Video Revenues per 27/36 MHz Transponder	1.32 [E]
Implied Avg. Private Network Revenues per 27/36 MHz Transponder	6.71 [F]

		Year Average		
		1995	1996	1997
Orion Revenues				
Video	[1]	12.30	27.90	
Private Networks	[2]	10.00	25.36	
Total	[3]	22.30	53.25	
Transponder Utilization, Year Average				
Video	[4]	9.3	21.1	
Private Networks	[5]	1.5	3.8	
Total	[6]	10.8	24.9	
Percent Utilized	[7]	17.4%	40.2%	
Transponder Allocation Factor				
Video	[8]	86.2%	84.8%	84.8%
Private Networks	[9]	13.8%	15.2%	15.2%
Total	[10]	100%	100%	100%

Notes to Table ORI-3:

[A], [B] Orion estimates (1995 *Prospectus*) that at a 70% utilization of its satellite system (Orion 1,2,3), 41 video and 27 private network transponders will be in use in 2000. This translates to 133 27/36 MHz-equivalent utilized transponders.
Video (27/36 MHz-equivalent transponders) = 41/(41+27) x 133 = 80.2.
Private Network (27/36 MHz-equivalent transponders) = 27/(41+27) x 133 = 52.8.

[C], [D] Projected revenue figure from the Orion *Prospectus*, 6/27/96, p.13.

[E] =[C]/[A]

[F] =[D]/[B]

[1], [2] 1995 actual revenues from Orion Annual Report, 1995;
1996 projected revenues: See Table ORI-5a.

[4] =[1]/[E]

[5] =[2]/[F]

[8] =[4]/[6]; 1997 allocation assumed to be same as 1996 figures.

[9] =[5]/[6]; 1997 allocation assumed to be same as 1996 figures.

Table ORI-4. Transponder Utilization by Satellite and Service Type

		Year Average		
		1995	1996	1997
Orion 1				
Utilized 27/36 MHz Transponders	[1]	10.8	24.9	31.9
Video	[2]	9.3	21.1	27.0
Private Networks	[3]	1.5	3.8	4.8

Notes to Table ORI-4:

[1] See Table ORI-2.
[2] =[1] x Table ORI-3, [8]
[3] =[1] x Table ORI-3, [9]

Table ORI-5. Comparison of Orion Actual and Modeled Revenues

		($ Millions)		
		1995	1996	1997
1995 Orion Revenue Forecast (Orion 1,2,3)				
Video	[1]	12.60	27.00	34.20
Private Networks	[2]	8.10	29.80	61.60
Total	[3]	20.70	56.80	95.80
Orion Actual and Projected Revenues (Orion 1)				
Video	[4]	12.30	27.90	
Private Networks	[5]	10.00	25.36	
Total	[6]	22.30	53.25	
Brattle Modeled Revenues (Orion 1)				
Video	[7]	12.30	27.90	35.67
Private Networks	[8]	10.00	25.36	32.42
Total	[9]	22.30	53.25	68.09
Deviation from Orion Video Revenues	[10]	0.0%	0.0%	
Deviation from Orion Total Revenues	[11]	0.0%	0.0%	

Notes to Table ORI-5:

[1], [2], [3] Orion *Prospectus*, 6/27/95, p.13.

[4], [5], [6] 1995 revenues from the Orion Annual Report, 1995, p. 3.
1996 revenues: See Table ORI-5a.

[7] =Table ORI-4, [2] x Table ORI-3, [E]

[8] =Table ORI-4, [3] x Table ORI-3, [F]

Table ORI-5a. Projection of Orion 1996 Revenues

	1995 1Q+2Q Revenues [1]	1996 1Q+2Q Revenues [2]	1995-96 1Q+2Q Growth [3]	1995 Total Revenues [4]	1996 Revenues Based on 1Q+2Q Growth [5]	1996 Revenues Based on 2*(1Q+2Q) [6]	1996 Revenues Based on Company Frcst [7]	Brattle 1996 Revenue Projection [8]
Revenues ($ Millions)								
Video	4.7	10.7	127%	12.3	27.9	21.3	27.0	27.9
Private Networks	2.8	7.1	154%	10.0	25.4	14.2	29.8	25.4
Total	7.7	17.8		22.3	53.3	35.5	56.8	53.3

Notes for Table ORI-5a:

[1], [2] Orion Form 10-Q, June 1996, p. 10.
[3] =[2]/[1]-1
[4] Orion Annual Report, 1995, p. 3.
[5] =[4] x ([3]+1)
[6] =[2] x 2
[7] Orion *Prospectus*, 6/27/95, p.13.
[8] =[5]

Table ORI-6. Currently Identified Video Transponder Leases

	Orion 1					
	Program/ Lessee	Source	Feed Origin	Beam Coverage	27/36 MHz Equiv.	To/From the US
	TOTAL:				21	11 52%
1	Primo	[1]	USA	Europe	1	1
2	BAF	[1]	USA	Europe	1	1
3	Vyvyx/Global Access	[1]	USA	Europe	2	1
4	Fifth Dimension	[1]	USA	Europe	2	1
5	INTV	[1]	USA	Europe	2	1
6	Dallas/Ft. Worth Teleport	[1]	USA	Europe	1	1
7	European Feeds	[1]		Europe	1	
8	VH-1 Germany	[1]		Europe	2	
9	Asianet	[1],[2]	New York	Europe	2	1
10	TV10 Gold	[1]	Netherlands	Europe	2	
11	NTL Feeds	[1]		Europe	2	
12	London Ch. 1	[1]	UK	Europe	1	
13	The Arts Channel	[1],[3]	UK	Europe	1	
14	Channel One	[1],[3]	UK	Europe	1	

Notes to Table ORI-6:

[1] *Transponder Loading Database*, DaiLink SatComs Ltd.
[2] *Cable and Satellite Europe*, 5/96, p.66.
[3] "Orion 1 To Carry Performance...," *Satellite Journal International*. Vol 4 No 1.

If bandwidth is unavailable, channel assumed to be a 27/36 MHz transponder.

Table ORI-7. Orion Video Transponder Leases to and from the U.S.

		To/From the US [A]	1995	1996	1997
Orion 1					
Utilized 27/36 MHz Transponders, Video					
Year Average	[1]		9.3	21.1	27.0
End of Year	[2]		15.2	24.1	
Trans-Atlantic	[3]	52%	8.0	12.6	

Notes to Table ORI-7:

[1] See Table ORI-4.

[2] End-of-Year transponders are interpolated linearly from current year and following Year-Average transponders.

[3] =[2] x [A]

[A] See Table ORI-6.

Columbia Communications

Table COL-1. Currently Identified Columbia Transponder Leases

Program/ Lessee		Feed Origin	Beam Coverage	36 MHz Equiv.	Estimated Video Usage	To/From the US?	Video MHz-Equiv Leases
TDRS-4							
Satellite Sound & Vision	[1]	UK	N.A./Europe	1.0	100%	1	1.0
ICG	[2]	USA	N.A./Europe	1.0	100%	1	1.0
Associated Press TV	[3]	N/A	N.A./Europe	1.0	100%	1	1.0
Columbia Occasional Use	[4]	Various	N.A./Europe	1	50%	1	0.5
Columbia Occasional Use	[5]	Various	N.A./Europe	1	50%	1	0.5
Unknown	[6]	Unknown	N.A./Europe	0.5	0%		0.0
Unknown	[7]	Unknown	N.A./Europe	0.5	0%		0.0
Unknown	[8]	Unknown	N.A./Europe	0.5	0%		0.0
Unknown	[9]	Unknown	N.A./Europe	0.5	0%		0.0
		Total 36 MHz Transponder Leases:		7.0			4.0
TDRS-5							
Associated Press TV	[10]	N/A	N Pacific Rim	0.25	100%	1	0.25
Associated Press TV	[11]	N/A	N Pacific Rim	0.25	100%	1	0.25
Columbia Occasional Use	[12]	N/A	N Pacific Rim	1	25%	1	0.25
TRW - Multi-Use	[13]	N/A	N Pacific Rim	1.0	50%	1	0.5
TRW - Multi-Use	[14]	N/A	N Pacific Rim	1.0	50%	1	0.5
TRW - Multi-Use	[15]	N/A	N Pacific Rim	1.0	50%	1	0.5
TRW - Voice & Data	[16]	N/A	N Pacific Rim	1.0	0%		0
Unknown	[17]	Unknown	N Pacific Rim	0.5	0%		0
Unknown	[18]	Unknown	N Pacific Rim	0.5	0%		0
Unknown	[19]	Unknown	N Pacific Rim	0.5	0%		0
		Total 36 MHz Transponder Leases:		7			2.25
TDRS-6							
Olympics	[20]	USA	N.A./Europe	0.69	100%	1	0.69
		Total 36 MHz Transponder Leases:		0.69			0.69

Notes for Table COL-1:

	Program/Lessee, Feed Origin, Beam Coverage, and 36 MHz Equivalent information from *Transponder Loading Database*, DaiLink Satcoms, Ltd.
[4], [5]	TDRS-4 occasional use video transponders are listed at 50% utilization.
[12]	TDRS-5 occasional use video transponder is listed at 25% utilization.
[13], [14], [15]	Resellers such as TRW are assumed to use 50% of transponder capacity for video transmission.
[20]	Based on full (12 transponder) satellite utilization during the Olympic Games in Atlanta (Conversation with Mike Fowler at Columbia Communications Corporation, 9/10/96).

Table COL-2. Columbia Video Transponder Leases to and from the U.S.

Program/Lessee		1993	1994	1995	1996	1997
TDRS-4 (Trans-Atlantic)						
Total 36 MHz C-Band Transponders	[1]	12.0	12.0	12.0	12.0	12.0
Utilized Total, Year Average	[2]	3.5	4.7	5.8	7.0	8.2
Utilized Video, Year Average	[3]	2.0	2.7	3.3	4.0	4.7
End of Year	[4]	2.3	3.0	3.7	4.3	
TDRS-5 (Trans-Pacific)						
Total 36 MHz C-Band Transponders	[5]	12.0	12.0	12.0	12.0	12.0
Utilized Total, Year Average	[6]	1.8	3.5	5.3	7.0	8.8
Utilized Video, Year Average	[7]	0.6	1.1	1.7	2.3	2.8
End of Year	[8]	0.8	1.4	2.0	2.5	
TDRS-6 (Trans-Atlantic)						
Total 36 MHz C-Band Transponders	[9]				12.0	12.0
Utilized Total, Year Average	[10]				0.7	2.0
Utilized Video, Year Average	[11]				0.7	1.3
End of Year	[12]				1.0	
Total Transponders						
Total 36 MHz C-Band Transponders	[13]	24.0	24.0	24.0	36.0	36.0
Utilized Total, Year Average	[14]	5.3	8.2	11.1	14.7	18.9
Utilized Video, Year Average	[15]	2.6	3.8	5.0	6.9	8.8
End of Year	[16]	3.2	4.4	5.6	7.9	

Notes for Table COL-2:

[1], [5], [9] *Transponder Loading Database*, DaiLink Satcoms Ltd.

[2], [3], [6], [7] 1996 utilized transponders from Table COL-1. Assumes zero year-average transponders in 1990 for TDRS-4, and zero in 1992 for TDRS-5. All other years are based on linear interpolation.

[10], [11], [12] 1996 utilized transponders from Table COL-1. 1997 based on phase-in consistent with TDRS-4 and TDRS-5.

[4], [8] End-of-Year transponders are interpolated linearly from current year and following Year-Average transponders.

Intersputnik

Table INT-1. Currently Identified Intersputnik Transponder Leases to and from the U.S.

Satellite	Location	Region Served	27/36 MHz Video Transponders	Licensees
Statsionar 11	11 WL	AOR	2	IDB WorldCom Services, video channels
Statsionar 10	170 WL	POR	2	IDB WorldCom Services, video channels
Statsionar 4	14 WL	AOR	2	IDB WorldCom Services, video channels
WSDRN	16 WL	AOR	2	Transworld Communications, does not specify channel usage, video assumed
WSDRN	16 WL	AOR	N/A	Transworld Communications, "receive only antenna"
WSDRN	16 WL	AOR	N/A	Cable News Network, "receive only antenna"
Statsionar 4	14 WL	AOR	N/A	Melbourne International Ltd., "Video and data service as detailed in its application"
Statsionar 11	11 WL	AOR	N/A	Melbourne International Ltd., "Video and data service as detailed in its application"
Statsionar 16	215 WL	POR	N/A	Alascom Inc., "Video and data service as detailed in its application"
Total for Trans-Atlantic		AOR	6	Assumed utilized for second half of 1995 and all of 1996
Total for Trans-Pacific		POR	2	Assumed utilized for second half of 1995 and all of 1996

Notes for Table INT-1:

Source: FCC, File No. I-T-C-92-164, 7/5/96.

Galaxy Latin America

Table GLA-1. Hughes/Galaxy Latin America Video Service

		Galaxy IIIR
Region	[1]	Latin America
Launch Date	[2]	Dec. 15, 1996
Date of Commercial Service	[3]	July 1996
Channels		
Video	[4]	140
Audio	[5]	4
Total	[6]	144
Total Channels from the U.S.	[7]	60
Percentage from the U.S.	[8]	42%
Regional Allocation		
To Brazil	[9]	50%
To Other Regions	[10]	50%
Transponders		
Ku - Band @ 27 MHz	[11]	16
Ku - Band @ 54 MHz	[12]	8
Total 27/36 MHz Ku Equiv.	[13]	32
From the U.S.	[14]	13.33
Phase-In		
	[15]	Full Utilization as of Aug. 1996

Notes for Table GLA-1:

[8] = [7]/[6]
[14] = [8]x[13]

Sources:

Satellite Communications, April 1996, pp. 23-26.
Galaxy Latin America Web Page, "Milestones".
Conversation with Chris Campana of Galaxy Latin America, 9/9/96.
Transponder Loading Database, DaiLink SatComs Ltd.

Video Revenues

Table REV-1. Video Revenues to and from the U.S.
(Including Audio and Occasional-Use/Short-Term Video)

Region		$ Millions, U.S. Half Circuits 1993	1994	1995	1996*
Trans-Atlantic	[1]	28.99	34.85	47.00	51.36
Comsat	[2]	22.32	27.96	32.60	28.77
PAS-1	[3]	5.48	5.29	6.17	5.13
PAS-3R	[4]				2.53
Orion-1	[5]			3.22	7.31
Columbia/TDRS 4	[6]	1.20	1.60	2.00	2.40
Columbia/TDRS 6	[7]				0.42
Intersputnik	[8]			1.80	3.60
Hispasat	[9]			1.20	1.20
Telecom	[10]				
Fiber-Optic Cables	[11]				
Latin America	[12]	8.41	10.98	11.38	25.76
Comsat	[13]	2.91	5.66	5.17	6.17
PAS-1	[14]	5.51	5.32	6.21	5.16
PAS-3R	[15]				10.13
Intersputnik	[16]				
Hispasat	[17]				
Hughes GLA	[18]				4.31
U.S. Domsats	[19]				
Solidaridad/Morelos	[20]				
Anik	[21]				
Nahuelsat	[22]				
Fiber-Optic Cables	[23]				
Trans-Pacific	[24]	7.86	11.16	14.02	17.81
Comsat	[25]	7.35	9.20	6.81	6.85
PAS-2	[26]		1.12	5.43	8.24
Columbia/TDRS 5	[27]	0.51	0.84	1.18	1.52
Intersputnik	[28]			0.60	1.20
JCSAT	[29]				
Fiber-Optic Cables	[30]				
Total for All Regions	[31]	45.26	56.98	72.40	94.93
Comsat	[32]	32.57	42.82	44.59	41.79
PanAmSat	[33]	10.98	11.72	17.81	31.19
Orion	[34]			3.22	7.31
Columbia	[35]	1.71	2.44	3.18	4.33
Intersputnik	[36]			2.40	4.80
Hispasat	[37]			1.20	1.20
Telecom	[38]				
Hughes GLA	[39]				4.31
U.S. Domsats	[40]				
Solidaridad/Morelos	[41]				
Anik	[42]				
Nahuelsat	[43]				
JCSAT	[44]				
Fiber-Optic Cables	[45]				