

**COMSEARCH**  
**Earth Station Data Sheet**  
19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5665 <http://www.comsearch.com>

May 16, 2003

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\*\*\* CLIENT COPY \*\*\*

\*\*\* PLEASE MAIL \*\*\*

\*\*\* TO CUSTOMER \*\*\*

Re: SES AMERICOM, INC.  
FT BRAGG, NC  
Temporary Transmit-Receive Earth Station  
Operation Dates: 06/01/2003 - 09/01/2003  
Job Number: 030516COMSTC02

Dear Frequency Coordinator:

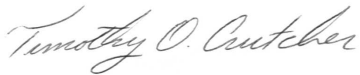
On behalf of SES AMERICOM, INC., we are forwarding the attached coordination data for a temporary transmit-receive earth station to be located at the site referenced above.

This earth station will transmit and receive on the satellite(s) and frequencies as described in the attached data. Please do not report cases involving non-active paths or frequencies outside the specified range.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH



Timothy O. Crutcher  
Principal Frequency Planner  
Microwave and Satellite Services

Enclosure(s)

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5665 <http://www.comsearch.com>

Date: 05/16/2003

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### Administrative Information

Licensee Name SES AMERICOM, INC.

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### Site Information FT BRAGG, NC

Venue Name  
Latitude (NAD 83) 35° 9' 37.2" N  
Longitude (NAD 83) 78° 59' 21.3" W  
Climate Zone A  
Rain Zone 1  
Ground Elevation (AMSL) 82.9 m / 272.0 ft

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### Link Information

Satellite Type Geostationary  
Mode TR - Transmit-Receive  
Modulation Digital  
Satellite Arc 10° W to 50° West Longitude  
Azimuth Range 102.5° to 136.1°  
Corresponding Elevation Angles 8.4° / 38.9°  
Antenna Centerline (AGL) 6.30 m / 20.7 ft

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### Antenna Information

#### Receive - FCC32

#### Transmit - FCC32

Manufacturer VERTEX  
Gain / Diameter 50.0 dBi / 9.3 m  
3-dB / 15-dB Beamwidth 0.80° / 1.60°

VERTEX  
53.5 dBi / 9.3 m  
0.60° / 1.20°

Max Available RF Power (dBW/4 kHz)  
(dBW/MHz)

-19.2  
4.8

Maximum EIRP (dBW/4 kHz)  
(dBW/MHz)

34.3  
58.3

Interference Objectives: Long Term -158.0 dBW/MHz 20%  
Short Term -148.0 dBW/MHz 0.01%

-154.0 dBW/4 kHz 20%  
-131.0 dBW/4 kHz 0.0025%

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### Frequency Information

#### Receive 4.0 GHz

#### Transmit 6.1 GHz

Emission / Frequency Range (MHz) 36M0G7W / 3700.0 - 4200.0

36M0G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance 516.2 km / 320.7 mi  
Precipitation Scatter Contour Radius 652.1 km / 405.1 mi

178.2 km / 110.7 mi  
100.0 km / 62.1 mi

Coordination Values		FT BRAGG, NC				
Licensee Name		SES AMERICOM, INC.				
Latitude (NAD 83)		35° 9' 37.2" N				
Longitude (NAD 83)		78° 59' 21.3" W				
Ground Elevation (AMSL)		82.9 m / 272.0 ft				
Antenna Centerline (AGL)		6.30 m / 20.7 ft				
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz		
Interference Objectives: Long Term		-158.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%	
		Short Term				
		0.0025%	0.01%	-131.0 dBW/4 kHz		
Max Available RF Power		-19.2 (dBW/4 kHz)				
Horizon		Antenna	Receive 4.0 GHz		Transmit 6.1 GHz	
Coordination			Horizon	Coordination	Horizon	
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)	Gain (dBi)	Distance
(km)						
0	0.00	102.34	-10.00	298.32	-10.00	119.13
5	0.00	97.39	-10.00	298.32	-10.00	119.13
10	0.00	92.45	-10.00	298.32	-10.00	119.13
15	0.00	87.50	-10.00	298.32	-10.00	119.13
20	0.00	82.56	-10.00	298.32	-10.00	119.13
25	0.00	77.61	-10.00	298.32	-10.00	119.13
30	0.00	72.67	-10.00	298.32	-10.00	119.13
35	0.00	67.73	-10.00	298.32	-10.00	119.13
40	0.00	62.80	-10.00	298.32	-10.00	119.13
45	0.00	57.87	-10.00	298.32	-10.00	119.13
50	0.00	52.95	-10.00	298.32	-10.00	119.13
55	0.00	48.04	-10.00	298.32	-10.00	119.13
60	0.00	43.15	-8.87	305.94	-8.87	122.05
65	0.21	38.24	-7.56	314.36	-7.56	124.67
70	0.24	33.38	-6.09	320.87	-6.09	126.09
75	0.46	28.52	-4.38	304.35	-4.38	112.98
80	0.32	23.82	-2.43	337.45	-2.43	129.39
85	0.36	19.20	-0.08	350.43	-0.08	132.57
90	0.49	14.76	2.77	356.98	2.77	130.25
95	0.53	10.87	6.10	381.66	6.10	136.59
100	0.56	8.26	9.08	516.19	9.08	178.24
105	0.37	8.46	8.82	430.08	8.82	160.73
110	0.35	11.03	5.93	400.79	5.93	151.08
115	0.38	14.80	2.74	370.62	2.74	137.81
120	0.44	18.64	0.24	342.75	0.24	127.03
125	0.55	22.36	-1.74	316.06	-1.74	114.58
130	0.34	26.19	-3.45	327.10	-3.45	125.00
135	0.47	29.67	-4.81	300.04	-4.81	111.07
140	0.57	33.00	-5.96	283.28	-5.96	102.49
145	0.59	36.19	-6.97	275.13	-6.97	100.00
150	0.87	38.95	-7.76	251.67	-7.76	100.00
155	0.93	41.56	-8.47	243.63	-8.47	100.00
160	1.13	43.71	-9.02	231.91	-9.02	100.00
165	1.50	45.93	-9.55	217.35	-9.55	100.00
170	1.42	48.79	-10.00	217.46	-10.00	100.00
175	1.49	51.81	-10.00	215.38	-10.00	100.00
180	1.36	55.15	-10.00	219.28	-10.00	100.00
185	1.42	58.55	-10.00	217.46	-10.00	100.00

Coordination Values		FT BRAGG, NC				
Licensee Name		SES AMERICOM, INC.				
Latitude (NAD 83)		35° 9' 37.2" N				
Longitude (NAD 83)		78° 59' 21.3" W				
Ground Elevation (AMSL)		82.9 m / 272.0 ft				
Antenna Centerline (AGL)		6.30 m / 20.7 ft				
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz		
Interference Objectives: Long Term		-158.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%	
		Short Term				
0.0025%		-148.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz		
Max Available RF Power		-19.2 (dBW/4 kHz)				
		Antenna	Receive 4.0 GHz		Transmit 6.1 GHz	
	Horizon	Discrimination	Horizon	Coordination	Horizon	
Azimuth (°)	Coordination					
(km)	Elevation (°)	(°)	Gain (dBi)	Distance (km)	Gain (dBi)	Distance
190	1.26	62.18	-10.00	222.38	-10.00	100.00
195	1.11	65.90	-10.00	227.18	-10.00	100.00
200	1.14	69.64	-10.00	226.20	-10.00	100.00
205	1.14	73.46	-10.00	226.20	-10.00	100.00
210	1.04	77.35	-10.00	229.48	-10.00	100.00
215	1.05	81.25	-10.00	229.15	-10.00	100.00
220	0.93	85.19	-10.00	234.79	-10.00	100.00
225	0.77	89.13	-10.00	244.31	-10.00	100.00
230	0.56	93.05	-10.00	257.83	-10.00	100.00
235	0.36	96.94	-10.00	278.17	-10.00	106.27
240	0.00	100.77	-10.00	298.32	-10.00	119.13
245	0.57	104.72	-10.00	257.17	-10.00	100.00
250	0.54	108.52	-10.00	259.16	-10.00	100.00
255	0.33	112.20	-10.00	281.83	-10.00	108.64
260	0.35	115.86	-10.00	279.39	-10.00	107.06
265	0.63	119.54	-10.00	253.26	-10.00	100.00
270	0.48	122.90	-10.00	264.10	-10.00	100.00
275	0.00	125.90	-10.00	298.32	-10.00	119.13
280	0.00	128.96	-10.00	298.32	-10.00	119.13
285	0.00	131.79	-10.00	298.32	-10.00	119.13
290	0.00	134.34	-10.00	298.32	-10.00	119.13
295	0.00	136.56	-10.00	298.32	-10.00	119.13
300	0.00	138.40	-10.00	298.32	-10.00	119.13
305	0.00	139.79	-10.00	298.32	-10.00	119.13
310	0.00	140.70	-10.00	298.32	-10.00	119.13
315	0.00	141.09	-10.00	298.32	-10.00	119.13
320	0.00	140.94	-10.00	298.32	-10.00	119.13
325	0.00	136.80	-10.00	298.32	-10.00	119.13
330	0.00	131.91	-10.00	298.32	-10.00	119.13
335	0.00	127.00	-10.00	298.32	-10.00	119.13
340	0.00	122.08	-10.00	298.32	-10.00	119.13
345	0.00	117.15	-10.00	298.32	-10.00	119.13
350	0.00	112.22	-10.00	298.32	-10.00	119.13
355	0.00	107.28	-10.00	298.32	-10.00	119.13

SES Americom  
Ft. Bragg, North Carolina  
Temporary Transmit-Receive Earth Station  
Operation Dates: 06/01/03 - 9/01/03

Pursuant to Part 25.203(c) of the FCC Rules and Regulations the above referenced satellite earth station was coordinated with the existing licensees and applicants whose facilities could be affected. Verbal and written coordination was conducted on May 16, 2003.

The following carriers or their designated coordination agents were notified:

Columbia Operations Center - FCC  
Durham City North Carolina  
National Radio Astronomy Observatory  
University of North Carolina  
Alltel Communications, Inc.  
American Television & Communications  
Carolina Power & Light Company  
Cellco Partnership - North Carolina  
Cellco Partnership - Newark-Dallas Route  
Jacksonville Cellular Telephone Company  
MCI Network Services, Inc  
MCNC  
North Carolina RSA #6, Inc  
North Carolina RSA #9, Inc  
North Carolina State Highway Patrol  
Raleigh Durham MSA Ltd Partnership  
Uscoc of South Carolina RSA 4, Inc  
AT&T Comm. of The Southern States  
AT&T Communications of Virginia, Inc  
AT&T Corp  
BellSouth Telecommunications, Inc.

There are no unresolved interference objections with the stations contained in these applications.

Respectfully Submitted,

Comsearch



Timothy O. Crutcher  
Principal Frequency Planner  
Microwave and Satellite Services