

**COMSEARCH**  
**Earth Station Data Sheet**

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5662 <http://www.comsearch.com>



**COMSEARCH**<sup>®</sup>

A CommScope Company

July 17, 2015

Re: Harris CapRock Communications  
MELBOURNE, FL  
Temporary Transmit-Only Earth Station  
Operation Dates: 07/20/2015 - 01/20/2016  
Job Number: 150717COMSGE04

Dear Frequency Coordinator:

On behalf of Harris CapRock Communications, we are forwarding the attached coordination data for a Temporary Transmit-Only Earth Station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

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

Sincerely,

COMSEARCH

Gary K. Edwards  
Senior Manager  
[gedwards@comsearch.com](mailto:gedwards@comsearch.com)

Enclosure(s)

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5662 <http://www.comsearch.com>

Date: 07/17/2015  
Job Number: 150717COMSGE04

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### Administrative Information

Status: TEMPORARY (Operation from 07/20/2015 to 01/20/2016)  
Call Sign: TEMP01  
Licensee Code: SPACLK  
Licensee Name: Harris CapRock Communications

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### Site Information

**MELBOURNE, FL**

Venue Name  
Latitude (NAD 83): 28° 1' 51.0" N  
Longitude (NAD 83): 80° 35' 56.0" W  
Climate Zone: B  
Rain Zone: 1  
Ground Elevation (AMSL): 5.76 m / 18.9 ft

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### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 29.5° W to 129° West Longitude  
Azimuth Range: 110.8° to 247.4°  
Corresponding Elevation Angles: 25.8° / 28.2°  
Antenna Centerline (AGL): 3.66 m / 12.0 ft

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### Antenna Information

**Transmit - FCC32**

Manufacturer: Harris  
Model: ST5000-2.4  
Gain / Diameter: 38.0 dBi / 2.4 m  
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -18.7  
(dBW/MHz): 5.3

Maximum EIRP (dBW/4 kHz): 19.3  
(dBW/MHz): 43.3

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%  
Short Term: -131.0 dBW/4 kHz 0.0025%

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### Frequency Information

**Transmit 6.1 GHz**

Emission / Frequency Range (MHz): 1M00G7D - 20M0G7D / 5985.0 - 6425.0

Max Great Circle Coordination Distance: 154.0 km / 95.7 mi  
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

# COMSEARCH

## Earth Station Data Sheet

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Coordination Values		MELBOURNE, FL	
Licensee Name		Harris CapRock Communications	
Latitude (NAD 83)		28° 1' 51.0" N	
Longitude (NAD 83)		80° 35' 56.0" W	
Ground Elevation (AMSL)		5.76 m / 18.9 ft	
Antenna Centerline (AGL)		3.66 m / 12.0 ft	
Antenna Model		Harris 2.4 Meter	
Antenna Mode		Transmit 6.1 GHz	
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	108.61	-10.00	129.28
5	0.00	104.16	-10.00	129.28
10	0.00	99.68	-10.00	129.28
15	0.00	95.19	-10.00	129.28
20	0.00	90.69	-10.00	129.28
25	0.00	86.19	-10.00	129.28
30	0.00	81.70	-10.00	129.28
35	0.00	77.22	-10.00	129.28
40	0.00	72.76	-10.00	129.28
45	0.00	68.32	-10.00	129.28
50	0.00	63.93	-10.00	129.28
55	0.00	59.58	-10.00	129.28
60	0.00	55.31	-10.00	129.28
65	0.00	51.11	-10.00	129.28
70	0.00	47.03	-9.81	129.90
75	0.00	43.09	-8.86	133.05
80	0.00	39.35	-7.87	136.46
85	0.00	35.86	-6.86	140.11
90	0.00	32.70	-5.86	143.87
95	0.00	29.99	-4.92	147.55
100	0.00	27.85	-4.12	150.66
105	0.00	26.43	-3.55	153.02
110	0.00	25.85	-3.31	154.04
115	0.00	26.16	-3.44	153.49
120	0.00	27.33	-3.92	151.50
125	0.00	29.26	-4.66	148.48
130	0.00	31.81	-5.56	145.03
135	0.00	34.84	-6.55	141.26
140	0.00	38.24	-7.56	137.57
145	0.00	41.88	-8.55	134.10
150	0.00	45.39	-9.42	131.16
155	0.00	48.62	-10.00	129.28
160	0.00	51.48	-10.00	129.28
165	0.00	53.89	-10.00	129.28
170	0.00	55.73	-10.00	129.28
175	0.00	56.88	-10.00	129.28
180	0.00	57.28	-10.00	129.28
185	0.00	56.88	-10.00	129.28

# COMSEARCH

## Earth Station Data Sheet

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Coordination Values		MELBOURNE, FL	
Licensee Name		Harris CapRock Communications	
Latitude (NAD 83)		28° 1' 51.0" N	
Longitude (NAD 83)		80° 35' 56.0" W	
Ground Elevation (AMSL)		5.76 m / 18.9 ft	
Antenna Centerline (AGL)		3.66 m / 12.0 ft	
Antenna Model		Harris 2.4 Meter	
Antenna Mode		Transmit 6.1 GHz	
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	55.73	-10.00	129.28
195	0.00	53.89	-10.00	129.28
200	0.00	51.48	-10.00	129.28
205	0.00	48.62	-10.00	129.28
210	0.00	45.39	-9.42	131.16
215	0.00	41.89	-8.55	134.09
220	0.00	38.50	-7.64	137.31
225	0.00	35.42	-6.73	140.60
230	0.00	32.75	-5.88	143.81
235	0.00	30.60	-5.14	146.68
240	0.00	29.08	-4.59	148.75
245	0.00	28.31	-4.30	149.94
250	0.00	28.33	-4.31	149.90
255	0.00	29.15	-4.62	148.64
260	0.00	30.71	-5.18	146.52
265	0.00	32.89	-5.93	143.63
270	0.00	35.59	-6.78	140.41
275	0.00	38.69	-7.69	137.11
280	0.00	42.10	-8.61	133.90
285	0.00	45.76	-9.51	130.87
290	0.00	49.60	-10.00	129.28
295	0.00	53.59	-10.00	129.28
300	0.00	57.68	-10.00	129.28
305	0.00	61.87	-10.00	129.28
310	0.00	66.12	-10.00	129.28
315	0.00	70.42	-10.00	129.28
320	0.00	74.76	-10.00	129.28
325	0.00	79.14	-10.00	129.28
330	0.00	83.53	-10.00	129.28
335	0.00	87.93	-10.00	129.28
340	0.00	92.33	-10.00	129.28
345	0.00	96.74	-10.00	129.28
350	0.00	101.13	-10.00	129.28
355	0.00	105.50	-10.00	129.28

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A CommScope Company

July 17, 2015

Re: Harris CapRock Communications  
MELBOURNE, FL  
Temporary Transmit-Only Earth Station  
Operation Dates: 07/20/2015 - 01/20/2016  
Job Number: 150717COMSGE05

Dear Frequency Coordinator:

On behalf of Harris CapRock Communications, we are forwarding the attached coordination data for a Temporary Transmit-Only Earth Station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

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

Sincerely,

COMSEARCH

Gary K. Edwards  
Senior Manager  
[gedwards@comsearch.com](mailto:gedwards@comsearch.com)

Enclosure(s)

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5662 <http://www.comsearch.com>

Date: 07/17/2015  
Job Number: 150717COMSGE05

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### Administrative Information

Status: TEMPORARY (Operation from 07/20/2015 to 01/20/2016)  
Call Sign: TEMP01  
Licensee Code: SPACLK  
Licensee Name: Harris CapRock Communications

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### Site Information

#### MELBOURNE, FL

Venue Name  
Latitude (NAD 83): 28° 5' 15.0" N  
Longitude (NAD 83): 80° 38' 10.0" W  
Climate Zone: B  
Rain Zone: 1  
Ground Elevation (AMSL): 6.9 m / 22.6 ft

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### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 29.5° W to 129° West Longitude  
Azimuth Range: 110.8° to 247.3°  
Corresponding Elevation Angles: 25.8° / 28.2°  
Antenna Centerline (AGL): 3.66 m / 12.0 ft

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### Antenna Information

#### Transmit - FCC32

Manufacturer: Harris  
Model: ST5000-2.4  
Gain / Diameter: 38.0 dBi / 2.4 m  
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -18.7  
(dBW/MHz): 5.3

Maximum EIRP (dBW/4 kHz): 19.3  
(dBW/MHz): 43.3

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%  
Short Term: -131.0 dBW/4 kHz 0.0025%

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### Frequency Information

#### Transmit 6.1 GHz

Emission / Frequency Range (MHz): 1M00G7D - 20M0G7D / 5925.0 - 6425.0

Max Great Circle Coordination Distance: 154.0 km / 95.7 mi  
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

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## Earth Station Data Sheet

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<b>Coordination Values</b>	<b>MELBOURNE, FL</b>
Licensee Name	Harris CapRock Communications
Latitude (NAD 83)	28° 5' 15.0" N
Longitude (NAD 83)	80° 38' 10.0" W
Ground Elevation (AMSL)	6.9 m / 22.6 ft
Antenna Centerline (AGL)	3.66 m / 12.0 ft
Antenna Model	Harris 2.4 meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	108.63	-10.00	129.22
5	0.00	104.17	-10.00	129.22
10	0.00	99.70	-10.00	129.22
15	0.00	95.20	-10.00	129.22
20	0.00	90.70	-10.00	129.22
25	0.00	86.20	-10.00	129.22
30	0.00	81.70	-10.00	129.22
35	0.00	77.22	-10.00	129.22
40	0.00	72.76	-10.00	129.22
45	0.00	68.32	-10.00	129.22
50	0.00	63.92	-10.00	129.22
55	0.00	59.58	-10.00	129.22
60	0.00	55.30	-10.00	129.22
65	0.00	51.10	-10.00	129.22
70	0.00	47.01	-9.81	129.85
75	0.00	43.07	-8.86	133.00
80	0.00	39.32	-7.87	136.42
85	0.00	35.83	-6.85	140.07
90	0.00	32.66	-5.85	143.84
95	0.00	29.95	-4.91	147.52
100	0.00	27.81	-4.10	150.65
105	0.00	26.38	-3.53	153.02
110	0.00	25.80	-3.29	154.05
115	0.00	26.11	-3.42	153.50
120	0.00	27.28	-3.90	151.51
125	0.00	29.21	-4.64	148.48
130	0.00	31.76	-5.55	145.01
135	0.00	34.80	-6.54	141.24
140	0.00	38.20	-7.55	137.54
145	0.00	41.84	-8.54	134.07
150	0.00	45.35	-9.41	131.13
155	0.00	48.57	-10.00	129.22
160	0.00	51.43	-10.00	129.22
165	0.00	53.83	-10.00	129.22
170	0.00	55.67	-10.00	129.22
175	0.00	56.82	-10.00	129.22
180	0.00	57.22	-10.00	129.22
185	0.00	56.82	-10.00	129.22

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## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
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Coordination Values		MELBOURNE, FL	
Licensee Name		Harris CapRock Communications	
Latitude (NAD 83)		28° 5' 15.0" N	
Longitude (NAD 83)		80° 38' 10.0" W	
Ground Elevation (AMSL)		6.9 m / 22.6 ft	
Antenna Centerline (AGL)		3.66 m / 12.0 ft	
Antenna Model		Harris 2.4 meter	
Antenna Mode		Transmit 6.1 GHz	
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	55.67	-10.00	129.22
195	0.00	53.83	-10.00	129.22
200	0.00	51.43	-10.00	129.22
205	0.00	48.57	-10.00	129.22
210	0.00	45.35	-9.41	131.13
215	0.00	41.85	-8.54	134.06
220	0.00	38.46	-7.63	137.27
225	0.00	35.39	-6.72	140.56
230	0.00	32.72	-5.87	143.76
235	0.00	30.58	-5.14	146.62
240	0.00	29.08	-4.59	148.68
245	0.00	28.31	-4.30	149.85
250	0.00	28.35	-4.31	149.80
255	0.00	29.18	-4.63	148.53
260	0.00	30.74	-5.19	146.40
265	0.00	32.93	-5.94	143.50
270	0.00	35.63	-6.80	140.28
275	0.00	38.74	-7.70	136.99
280	0.00	42.16	-8.62	133.79
285	0.00	45.81	-9.52	130.76
290	0.00	49.66	-10.00	129.22
295	0.00	53.64	-10.00	129.22
300	0.00	57.74	-10.00	129.22
305	0.00	61.92	-10.00	129.22
310	0.00	66.18	-10.00	129.22
315	0.00	70.48	-10.00	129.22
320	0.00	74.82	-10.00	129.22
325	0.00	79.19	-10.00	129.22
330	0.00	83.58	-10.00	129.22
335	0.00	87.99	-10.00	129.22
340	0.00	92.39	-10.00	129.22
345	0.00	96.79	-10.00	129.22
350	0.00	101.18	-10.00	129.22
355	0.00	105.55	-10.00	129.22



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**COMSEARCH**<sup>®</sup>

A CommScope Company

July 17, 2015

Re: Harris CapRock Communications  
HOUSTON, TX  
Temporary Transmit-Only Earth Station  
Operation Dates: 07/20/2015 - 01/20/2016  
Job Number: 150717COMSGE09

Dear Frequency Coordinator:

On behalf of Harris CapRock Communications, we are forwarding the attached coordination data for a Temporary Transmit-Only Earth Station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

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

Sincerely,

COMSEARCH

Gary K. Edwards  
Senior Manager  
[gedwards@comsearch.com](mailto:gedwards@comsearch.com)

Enclosure(s)

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5662 <http://www.comsearch.com>

Date: 07/17/2015  
Job Number: 150717COMSGE09

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### Administrative Information

Status: TEMPORARY (Operation from 07/20/2015 to 01/20/2016)  
Call Sign: TEMP01  
Licensee Code: SPACLK  
Licensee Name: Harris CapRock Communications

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### Site Information

#### HOUSTON, TX

Venue Name  
Latitude (NAD 83): 29° 35' 54.0" N  
Longitude (NAD 83): 95° 20' 50.0" W  
Climate Zone: B  
Rain Zone: 2  
Ground Elevation (AMSL): 16.04 m / 52.6 ft

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### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 89° W to 129° West Longitude  
Azimuth Range: 167.3° to 233.4°  
Corresponding Elevation Angles: 54.8° / 39.7°  
Antenna Centerline (AGL): 3.66 m / 12.0 ft

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### Antenna Information

#### Transmit - FCC32

Antenna Model: Harris 2.4 meter  
Gain / Diameter: 38.0 dBi / 2.4 m  
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -18.7  
(dBW/MHz): 5.3

Maximum EIRP (dBW/4 kHz): 19.3  
(dBW/MHz): 43.3

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%  
Short Term: -131.0 dBW/4 kHz 0.0025%

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### Frequency Information

#### Transmit 6.1 GHz

Emission / Frequency Range (MHz):  
1M00G7D - 20M0G7D / 5925.0 - 5985.0  
1M00G7D - 20M0G7D / 6085.0 - 6245.0  
1M00G7D - 20M0G7D / 6325.0 - 6425.0

Max Great Circle Coordination Distance: 136.1 km / 84.6 mi  
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
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<b>Coordination Values</b>	<b>HOUSTON, TX</b>
Licensee Name	Harris CapRock Communications
Latitude (NAD 83)	29° 35' 54.0" N
Longitude (NAD 83)	95° 20' 50.0" W
Ground Elevation (AMSL)	16.04 m / 52.6 ft
Antenna Centerline (AGL)	3.66 m / 12.0 ft
Antenna Model	Harris 2.4 Meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	117.29	-10.00	129.28
5	0.00	120.71	-10.00	129.28
10	0.00	122.14	-10.00	129.28
15	0.00	120.70	-10.00	129.28
20	0.00	119.03	-10.00	129.28
25	0.00	117.15	-10.00	129.28
30	0.00	115.08	-10.00	129.28
35	0.00	112.84	-10.00	129.28
40	0.00	110.46	-10.00	129.28
45	0.00	107.95	-10.00	129.28
50	0.00	105.34	-10.00	129.28
55	0.00	102.64	-10.00	129.28
60	0.00	99.88	-10.00	129.28
65	0.00	97.06	-10.00	129.28
70	0.24	94.23	-10.00	125.59
75	0.00	91.33	-10.00	129.28
80	0.00	88.45	-10.00	129.28
85	0.00	85.58	-10.00	129.28
90	0.00	82.72	-10.00	129.28
95	0.00	79.91	-10.00	129.28
100	0.00	77.15	-10.00	129.28
105	0.00	74.46	-10.00	129.28
110	0.00	71.86	-10.00	129.28
115	0.00	69.36	-10.00	129.28
120	0.00	66.99	-10.00	129.28
125	0.00	64.76	-10.00	129.28
130	0.00	62.70	-10.00	129.28
135	0.00	60.84	-10.00	129.28
140	0.00	59.18	-10.00	129.28
145	0.00	57.76	-10.00	129.28
150	0.00	56.60	-10.00	129.28
155	0.00	55.71	-10.00	129.28
160	0.00	55.12	-10.00	129.28
165	0.00	54.82	-10.00	129.28
170	0.00	54.83	-10.00	129.28
175	0.00	55.15	-10.00	129.28
180	0.00	55.49	-10.00	129.28
185	0.00	55.12	-10.00	129.28

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5662 <http://www.comsearch.com>

---

Coordination Values		HOUSTON, TX	
Licensee Name		Harris CapRock Communications	
Latitude (NAD 83)		29° 35' 54.0" N	
Longitude (NAD 83)		95° 20' 50.0" W	
Ground Elevation (AMSL)		16.04 m / 52.6 ft	
Antenna Centerline (AGL)		3.66 m / 12.0 ft	
Antenna Model		Harris 2.4 Meter	
Antenna Mode		Transmit 6.1 GHz	
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	54.03	-10.00	129.28
195	0.00	52.29	-10.00	129.28
200	0.00	50.00	-10.00	129.28
205	0.00	47.41	-9.90	129.62
210	0.00	45.08	-9.35	131.41
215	0.00	43.10	-8.86	133.04
220	0.00	41.54	-8.46	134.41
225	0.00	40.43	-8.17	135.43
230	0.00	39.81	-8.00	136.02
235	0.00	39.71	-7.97	136.11
240	0.00	40.14	-8.09	135.70
245	0.00	41.07	-8.34	134.84
250	0.00	42.47	-8.70	133.58
255	0.00	44.30	-9.16	132.03
260	0.00	46.51	-9.69	130.29
265	0.00	49.03	-10.00	129.28
270	0.00	51.83	-10.00	129.28
275	0.00	54.85	-10.00	129.28
280	0.00	58.06	-10.00	129.28
285	0.00	61.43	-10.00	129.28
290	0.00	64.92	-10.00	129.28
295	0.00	68.51	-10.00	129.28
300	0.00	72.19	-10.00	129.28
305	0.00	75.92	-10.00	129.28
310	0.00	79.71	-10.00	129.28
315	0.00	83.53	-10.00	129.28
320	0.00	87.36	-10.00	129.28
325	0.00	91.21	-10.00	129.28
330	0.00	95.06	-10.00	129.28
335	0.00	98.88	-10.00	129.28
340	0.00	102.68	-10.00	129.28
345	0.00	106.44	-10.00	129.28
350	0.00	110.14	-10.00	129.28
355	0.00	113.76	-10.00	129.28

**COMSEARCH**  
**Earth Station Data Sheet**

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5662 <http://www.comsearch.com>



**COMSEARCH**<sup>®</sup>

A CommScope Company

July 17, 2015

Re: Harris CapRock Communications  
MIRAMAR, FL  
Temporary Transmit-Only Earth Station  
Operation Dates: 07/20/2015 - 01/20/2016  
Job Number: 150717COMSGE06

Dear Frequency Coordinator:

On behalf of Harris CapRock Communications, we are forwarding the attached coordination data for a Temporary Transmit-Only Earth Station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

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

Sincerely,

COMSEARCH

Gary K. Edwards  
Senior Manager  
[gedwards@comsearch.com](mailto:gedwards@comsearch.com)

Enclosure(s)

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5662 <http://www.comsearch.com>

Date: 07/17/2015  
Job Number: 150717COMSGE06

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### Administrative Information

Status: TEMPORARY (Operation from 07/20/2015 to 01/20/2016)  
Call Sign: TEMP01  
Licensee Code: SPACLK  
Licensee Name: Harris CapRock Communications

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### Site Information

#### MIRAMAR, FL

Venue Name  
Latitude (NAD 83): 25° 58' 17.7" N  
Longitude (NAD 83): 80° 18' 3.7" W  
Climate Zone: B  
Rain Zone: 1  
Ground Elevation (AMSL): 1.36 m / 4.5 ft

---

### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 29.5° W to 129° West Longitude  
Azimuth Range: 109.7° to 249.0°  
Corresponding Elevation Angles: 26.9° / 28.8°  
Antenna Centerline (AGL): 3.66 m / 12.0 ft

---

### Antenna Information

#### Transmit - FCC32

Antenna Model: Harris 2.4 meter  
Gain / Diameter: 38.0 dBi / 2.4 m  
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -18.7  
(dBW/MHz): 5.3

Maximum EIRP (dBW/4 kHz): 19.3  
(dBW/MHz): 43.3

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%  
Short Term: -131.0 dBW/4 kHz 0.0025%

---

### Frequency Information

#### Transmit 6.1 GHz

Emission / Frequency Range (MHz): 1M00G7D - 20M0G7D / 5925.0 - 6005.0  
1M00G7D - 20M0G7D / 6065.0 - 6425.0

Max Great Circle Coordination Distance: 149.2 km / 92.7 mi  
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5662 <http://www.comsearch.com>

<b>Coordination Values</b>	<b>MIRAMAR, FL</b>		
Licensee Name	Harris CapRock Communications		
Latitude (NAD 83)	25° 58' 17.7" N		
Longitude (NAD 83)	80° 18' 3.7" W		
Ground Elevation (AMSL)	1.36 m / 4.5 ft		
Antenna Centerline (AGL)	3.66 m / 12.0 ft		
Antenna Model	Harris 2.4 Meter		
Antenna Mode	Transmit 6.1 GHz		
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	107.46	-10.00	129.28
5	0.00	103.04	-10.00	129.28
10	0.00	98.61	-10.00	129.28
15	0.00	94.15	-10.00	129.28
20	0.00	89.69	-10.00	129.28
25	0.00	85.23	-10.00	129.28
30	0.00	80.78	-10.00	129.28
35	0.00	76.35	-10.00	129.28
40	0.00	71.93	-10.00	129.28
45	0.00	67.55	-10.00	129.28
50	0.00	63.22	-10.00	129.28
55	0.00	58.93	-10.00	129.28
60	0.00	54.73	-10.00	129.28
65	0.00	50.62	-10.00	129.28
70	0.00	46.63	-9.72	130.20
75	0.00	42.80	-8.79	133.30
80	0.00	39.18	-7.83	136.63
85	0.00	35.84	-6.86	140.13
90	0.00	32.86	-5.92	143.67
95	0.36	30.03	-4.94	129.00
100	0.75	27.73	-4.07	108.22
105	1.01	26.25	-3.48	100.00
110	1.25	25.63	-3.22	100.00
115	1.18	26.21	-3.46	100.00
120	1.13	27.61	-4.03	100.00
125	1.05	29.77	-4.84	100.00
130	0.67	32.72	-5.87	107.55
135	0.00	36.28	-6.99	139.64
140	0.00	39.66	-7.96	136.16
145	0.00	43.31	-8.92	132.86
150	0.00	46.97	-9.80	129.94
155	0.00	50.36	-10.00	129.28
160	0.00	53.40	-10.00	129.28
165	0.00	55.97	-10.00	129.28
170	0.00	57.95	-10.00	129.28
175	0.00	59.21	-10.00	129.28
180	0.00	59.65	-10.00	129.28
185	0.00	59.21	-10.00	129.28

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
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<b>Coordination Values</b>	<b>MIRAMAR, FL</b>
Licensee Name	Harris CapRock Communications
Latitude (NAD 83)	25° 58' 17.7" N
Longitude (NAD 83)	80° 18' 3.7" W
Ground Elevation (AMSL)	1.36 m / 4.5 ft
Antenna Centerline (AGL)	3.66 m / 12.0 ft
Antenna Model	Harris 2.4 Meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	57.96	-10.00	129.28
195	0.00	55.97	-10.00	129.28
200	0.00	53.40	-10.00	129.28
205	0.00	50.36	-10.00	129.28
210	0.00	46.97	-9.80	129.94
215	0.00	43.36	-8.93	132.82
220	0.00	39.92	-8.03	135.91
225	0.00	36.78	-7.14	139.10
230	0.00	34.01	-6.29	142.25
235	0.00	31.72	-5.53	145.15
240	0.00	30.03	-4.94	147.49
245	0.00	29.03	-4.57	148.84
250	0.00	28.80	-4.48	149.19
255	0.00	29.35	-4.69	148.35
260	0.00	30.66	-5.16	146.60
265	0.00	32.61	-5.83	143.98
270	0.00	35.11	-6.64	140.95
275	0.00	38.05	-7.51	137.76
280	0.00	41.33	-8.41	134.60
285	0.00	44.87	-9.30	131.57
290	0.00	48.62	-10.00	129.28
295	0.00	52.53	-10.00	129.28
300	0.00	56.56	-10.00	129.28
305	0.00	60.69	-10.00	129.28
310	0.00	64.89	-10.00	129.28
315	0.00	69.15	-10.00	129.28
320	0.00	73.46	-10.00	129.28
325	0.00	77.80	-10.00	129.28
330	0.00	82.16	-10.00	129.28
335	0.00	86.53	-10.00	129.28
340	0.00	90.92	-10.00	129.28
345	0.00	95.30	-10.00	129.28
350	0.00	99.67	-10.00	129.28
355	0.00	104.02	-10.00	129.28



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**Earth Station Data Sheet**

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**COMSEARCH**<sup>®</sup>

A CommScope Company

July 17, 2015

Re: Harris CapRock Communications  
MALABAR, FL  
Temporary Transmit-Only Earth Station  
Operation Dates: 07/20/2015 - 01/20/2016  
Job Number: 150717COMSGE07

Dear Frequency Coordinator:

On behalf of Harris CapRock Communications, we are forwarding the attached coordination data for a Temporary Transmit-Only Earth Station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

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

Sincerely,

COMSEARCH

Gary K. Edwards  
Senior Manager  
[gedwards@comsearch.com](mailto:gedwards@comsearch.com)

Enclosure(s)

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5662 <http://www.comsearch.com>

Date: 07/17/2015  
Job Number: 150717COMSGE07

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### Administrative Information

Status: TEMPORARY (Operation from 07/20/2015 to 01/20/2016)  
Call Sign: TEMP01  
Licensee Code: SPACLK  
Licensee Name: Harris CapRock Communications

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### Site Information

#### MALABAR, FL

Venue Name  
Latitude (NAD 83): 27° 58' 47.0" N  
Longitude (NAD 83): 80° 33' 23.0" W  
Climate Zone: B  
Rain Zone: 1  
Ground Elevation (AMSL): 6.88 m / 22.6 ft

---

### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 29.5° W to 129° West Longitude  
Azimuth Range: 110.8° to 247.4°  
Corresponding Elevation Angles: 25.9° / 28.2°  
Antenna Centerline (AGL): 3.66 m / 12.0 ft

---

### Antenna Information

#### Transmit - FCC32

Antenna Model: Harris 2.4 Meter  
Gain / Diameter: 38.0 dBi / 2.4 m  
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): -18.7  
(dBW/MHz): 5.3

Maximum EIRP (dBW/4 kHz): 19.3  
(dBW/MHz): 43.3

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%  
Short Term: -131.0 dBW/4 kHz 0.0025%

---

### Frequency Information

#### Transmit 6.1 GHz

Emission / Frequency Range (MHz): 1M00G7D - 20M0G7D / 6005.0 - 6425.0

Max Great Circle Coordination Distance: 153.9 km / 95.6 mi  
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

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## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
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<b>Coordination Values</b>	<b>MALABAR, FL</b>
Licensee Name	Harris CapRock Communications
Latitude (NAD 83)	27° 58' 47.0" N
Longitude (NAD 83)	80° 33' 23.0" W
Ground Elevation (AMSL)	6.88 m / 22.6 ft
Antenna Centerline (AGL)	3.66 m / 12.0 ft
Antenna Model	Harris 2.4 meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	108.60	-10.00	129.28
5	0.00	104.15	-10.00	129.28
10	0.00	99.67	-10.00	129.28
15	0.00	95.19	-10.00	129.28
20	0.00	90.69	-10.00	129.28
25	0.00	86.19	-10.00	129.28
30	0.00	81.70	-10.00	129.28
35	0.00	77.22	-10.00	129.28
40	0.00	72.76	-10.00	129.28
45	0.00	68.33	-10.00	129.28
50	0.00	63.94	-10.00	129.28
55	0.00	59.60	-10.00	129.28
60	0.00	55.32	-10.00	129.28
65	0.00	51.13	-10.00	129.28
70	0.00	47.05	-9.81	129.88
75	0.00	43.12	-8.87	133.02
80	0.00	39.38	-7.88	136.43
85	0.00	35.89	-6.87	140.07
90	0.00	32.74	-5.88	143.82
95	0.00	30.03	-4.94	147.48
100	0.00	27.90	-4.14	150.58
105	0.00	26.49	-3.58	152.92
110	0.00	25.91	-3.34	153.93
115	0.00	26.22	-3.46	153.39
120	0.00	27.39	-3.94	151.41
125	0.00	29.31	-4.68	148.41
130	0.00	31.86	-5.58	144.96
135	0.00	34.88	-6.57	141.21
140	0.00	38.28	-7.57	137.53
145	0.00	41.92	-8.56	134.07
150	0.00	45.43	-9.43	131.13
155	0.00	48.66	-10.00	129.28
160	0.00	51.53	-10.00	129.28
165	0.00	53.94	-10.00	129.28
170	0.00	55.78	-10.00	129.28
175	0.00	56.94	-10.00	129.28
180	0.00	57.34	-10.00	129.28
185	0.00	56.94	-10.00	129.28

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
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### Coordination Values

### MALABAR, FL

Licensee Name	Harris CapRock Communications		
Latitude (NAD 83)	27° 58' 47.0" N		
Longitude (NAD 83)	80° 33' 23.0" W		
Ground Elevation (AMSL)	6.88 m / 22.6 ft		
Antenna Centerline (AGL)	3.66 m / 12.0 ft		
Antenna Model	Harris 2.4 meter		
Antenna Mode	Transmit 6.1 GHz		
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-18.7 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	55.78	-10.00	129.28
195	0.00	53.94	-10.00	129.28
200	0.00	51.53	-10.00	129.28
205	0.00	48.66	-10.00	129.28
210	0.00	45.43	-9.43	131.13
215	0.00	41.93	-8.56	134.06
220	0.00	38.53	-7.64	137.28
225	0.00	35.44	-6.74	140.57
230	0.00	32.77	-5.89	143.79
235	0.00	30.61	-5.15	146.67
240	0.00	29.08	-4.59	148.75
245	0.00	28.30	-4.29	149.96
250	0.00	28.31	-4.30	149.94
255	0.00	29.12	-4.61	148.69
260	0.00	30.67	-5.17	146.58
265	0.00	32.85	-5.91	143.68
270	0.00	35.54	-6.77	140.46
275	0.00	38.64	-7.68	137.17
280	0.00	42.05	-8.59	133.95
285	0.00	45.70	-9.50	130.91
290	0.00	49.54	-10.00	129.28
295	0.00	53.53	-10.00	129.28
300	0.00	57.62	-10.00	129.28
305	0.00	61.81	-10.00	129.28
310	0.00	66.06	-10.00	129.28
315	0.00	70.36	-10.00	129.28
320	0.00	74.71	-10.00	129.28
325	0.00	79.08	-10.00	129.28
330	0.00	83.47	-10.00	129.28
335	0.00	87.87	-10.00	129.28
340	0.00	92.28	-10.00	129.28
345	0.00	96.68	-10.00	129.28
350	0.00	101.07	-10.00	129.28
355	0.00	105.44	-10.00	129.28