

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5616 <http://www.comsearch.com>

Date: 09/04/2003  
Job Number:

### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign  
Licensee Code KSCA  
Licensee Name UNIVERSITY OF SOUTHERN CALIFORNIA (KCPB-FM)

### Site Information LOS ANGELES, CA

Venue Name  
Latitude (NAD 83) 34° 24' 47.0" N  
Longitude (NAD 83) 119° 11' 10.0" W  
Climate Zone B  
Rain Zone 4  
Ground Elevation (AMSL) 390.14 m / 1280.0 ft

### Link Information

Satellite Type Geostationary  
Mode RO - Receive-Only  
Modulation Analog and Digital  
Satellite Arc 60° W to 143° West Longitude  
Azimuth Range 108.6° to 218.0°  
Corresponding Elevation Angles 16.7° / 42.6°  
Antenna Centerline (AGL) 2.5 m / 8.2 ft

### Antenna Information Receive - C40381

Manufacturer COMTECH ANTENNA SYSTEMS  
Model 3.8 METER PF  
Gain / Diameter 42.9 dBi / 3.8 m  
3-dB / 15-dB Beamwidth 1.4° / 2.8°

Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%

### Frequency Information Receive 4.0 GHz

Emission / Frequency Range (MHz)  
30K0F1D / 3700.0 - 4200.0  
10M3G7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 100.0 km / 62.1 mi  
Precipitation Scatter Contour Radius 374.0 km / 232.3 mi

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Antenna Model	COMTECH ANTENNA SYSTEMS 3.8 METER PF
Antenna Mode	Receive 4.0 GHz
Interference Objectives: Long Term	-156.0 dBW/MHz 20%
Short Term	-146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	58.81	103.70	-8.10	100.00
5	58.83	100.06	-8.10	100.00
10	58.86	96.38	-8.10	100.00
15	58.72	92.70	-8.10	100.00
20	58.34	88.98	-8.10	100.00
25	58.43	85.25	-8.10	100.00
30	58.96	81.62	-8.10	100.00
35	59.62	78.09	-8.10	100.00
40	60.27	74.70	-8.10	100.00
45	61.01	71.48	-8.10	100.00
50	61.80	68.45	-8.10	100.00
55	62.47	65.58	-8.10	100.00
60	63.05	62.85	-8.10	100.00
65	63.45	60.03	-8.10	100.00
70	63.69	57.12	-8.10	100.00
75	63.68	54.05	-8.10	100.00
80	63.66	50.97	-8.10	100.00
85	63.58	47.88	-8.10	100.00
90	63.34	44.70	-8.10	100.00
95	63.04	41.51	-7.70	100.00
100	62.80	38.42	-6.78	100.00
105	62.50	35.35	-6.17	100.00
110	62.17	32.34	-6.10	100.00
115	61.76	29.37	-5.85	100.00
120	61.31	26.47	-4.69	100.00
125	60.61	23.50	-3.50	100.00
130	59.80	20.56	-2.32	100.00
135	59.22	18.00	-0.10	100.00
140	58.60	15.56	2.34	100.00
145	58.03	13.39	5.13	100.00
150	57.73	11.65	7.60	100.00
155	57.96	10.67	9.23	100.00
160	58.33	10.07	9.83	100.00
165	58.81	9.78	10.12	100.00
170	59.17	9.58	10.32	100.00
175	59.55	9.67	10.23	100.00
180	60.00	10.00	9.90	100.00
185	60.46	10.56	9.34	100.00

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Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	60.78	11.20	8.49	100.00
195	60.83	11.77	7.36	100.00
200	60.99	12.69	6.21	100.00
205	61.29	13.91	4.08	100.00
210	61.70	15.49	2.41	100.00
215	62.35	17.48	0.42	100.00
220	63.09	19.76	-1.86	100.00
225	63.81	22.20	-2.98	100.00
230	64.36	24.71	-3.98	100.00
235	64.71	27.63	-5.15	100.00
240	64.98	30.98	-6.10	100.00
245	65.21	34.66	-6.10	100.00
250	65.40	38.58	-6.82	100.00
255	65.56	42.67	-8.10	100.00
260	65.68	46.88	-8.10	100.00
265	65.75	51.17	-8.10	100.00
270	65.77	55.54	-8.10	100.00
275	65.76	59.96	-8.10	100.00
280	65.76	64.44	-8.10	100.00
285	65.70	68.95	-8.10	100.00
290	65.57	73.48	-8.10	100.00
295	65.21	78.03	-8.10	100.00
300	64.70	82.60	-8.10	100.00
305	64.17	87.22	-8.10	100.00
310	63.60	91.88	-8.10	100.00
315	62.77	96.58	-8.10	100.00
320	61.98	101.33	-8.10	100.00
325	61.15	106.11	-8.10	100.00
330	60.30	110.93	-8.10	100.00
335	59.96	115.70	-8.38	100.00
340	59.70	117.15	-8.96	100.00
345	59.56	113.94	-8.10	100.00
350	59.30	110.64	-8.10	100.00
355	58.98	107.24	-8.10	100.00